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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, DC 20549**

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**FORM 8-K**

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**CURRENT REPORT  
PURSUANT TO SECTION 13 OR 15(d)  
OF THE SECURITIES EXCHANGE ACT OF 1934**

**Date of report (Date of earliest event reported): August 20, 2015**

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**Burlington Northern Santa Fe, LLC**  
(Exact Name of Registrant as Specified in Its Charter)

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**Delaware**  
(State or Other Jurisdiction  
of Incorporation)

**1-11535**  
(Commission  
File Number)

**27-1754839**  
(IRS Employer  
Identification No.)

**2650 Lou Menk Drive, Fort Worth, TX**  
(Address of Principal Executive Offices)

**76131**  
(Zip Code)

**(800) 795-2673**  
(Registrant's Telephone Number, Including Area Code)

**(Not Applicable)**  
(Former Name or Former Address, if Changed Since Last Report)

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Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (*see* General Instruction A.2. below):

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
  - Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
  - Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
  - Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
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**Item 1.01. Entry into a Material Definitive Agreement.**

Burlington Northern Santa Fe, LLC (“BNSF”) entered into the Seventeenth Supplemental Indenture dated as of August 20, 2015 with The Bank of New York Mellon Trust Company, N.A. in connection with BNSF’s issuance of \$350,000,000 in aggregate principal amount of 3.650% Debentures due September 1, 2025, and \$650,000,000 in aggregate principal amount of 4.700% Debentures due September 1, 2045, as described in the prospectus supplement dated August 13, 2015, filed pursuant to BNSF’s shelf registration statement on Form S-3, Registration No. 333-188502.

The debentures were issued under the Indenture dated as of December 1, 1995, the Fifth Supplemental Indenture dated as of February 11, 2010 and the Seventeenth Supplemental Indenture dated as of August 20, 2015, between BNSF and The Bank of New York Mellon Trust Company, N.A. (formerly known as The Bank of New York Trust Company, N.A.), as successor in interest to The First National Bank of Chicago, as trustee, and an officers’ certificate providing for the issuance of the debentures.

A copy of the Seventeenth Supplemental Indenture and other documents relating to this transaction are attached as exhibits to this Current Report on Form 8-K and are incorporated herein by reference.

**Item 2.03. Creation of a Direct Financial Obligation or an Obligation under an Off-Balance Sheet Arrangement of a Registrant.**

See Item 1.01.

**Item 9.01. Financial Statements and Exhibits.**

(d) Exhibits

See Exhibit Index included herewith.

## SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

BURLINGTON NORTHERN SANTA FE, LLC

Date: August 20, 2015

By: /s/ Julie A. Piggott

Name: Julie A. Piggott

Title: Executive Vice President and Chief Financial Officer

## BURLINGTON NORTHERN SANTA FE, LLC

### INDEX OF EXHIBITS

<b>Exhibit Number</b>	<b>Description</b>
4.1	Seventeenth Supplemental Indenture, dated as of August 20, 2015, to Indenture dated as of December 1, 1995, between Burlington Northern Santa Fe, LLC and The Bank of New York Mellon Trust Company, N.A., as Trustee.
4.2	Certificate of Determination as to the terms of BNSF's 3.650% Debentures due September 1, 2025 and 4.700% Debentures due September 1, 2045.
5.1	Opinion of Cravath, Swaine & Moore LLP, as to the validity of the securities being offered.
23.1	Consent of Cravath, Swaine & Moore LLP (included in Exhibit 5.1).

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BURLINGTON NORTHERN SANTA FE, LLC

and

THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A.,  
Trustee

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SEVENTEENTH SUPPLEMENTAL INDENTURE

Dated as of August 20, 2015

to

INDENTURE

Dated as of December 1, 1995

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3.650% Debentures due September 1, 2025

4.700% Debentures due September 1, 2045

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SEVENTEENTH SUPPLEMENTAL INDENTURE, dated as of August 20, 2015 (this "Supplemental Indenture"), between Burlington Northern Santa Fe, LLC, a limited liability company duly formed and existing under the laws of the State of Delaware (as successor in interest to Burlington Northern Santa Fe Corporation), having its principal office at 2650 Lou Menk Drive, Fort Worth, Texas 76131-2830 (the "Company"), and The Bank of New York Mellon Trust Company, N.A. (formerly known as The Bank of New York Trust Company, N.A.), a national banking association, as successor in interest to J.P. Morgan Trust Company, National Association, as successor in interest to Bank One Trust Company, N.A., as successor in interest to The First National Bank of Chicago, as trustee, having a corporate trust office at 601 Travis Street, 16th Floor, Houston, Texas 77002 (the "Trustee").

WHEREAS, the Company executed and delivered the indenture, dated as of December 1, 1995, to the Trustee, as supplemented by the Fifth Supplemental Indenture, dated as of February 11, 2010 (as heretofore supplemented, the "Indenture"), to provide for the issuance of the Company's debentures, notes or other evidences of indebtedness (the "Securities"), to be issued in one or more series;

WHEREAS, pursuant to the terms of the Indenture, the Company desires to provide for the establishment of two new series of Securities under the Indenture to be known as its "3.650% Debentures due September 1, 2025" (the "2025 Debentures") and "4.700% Debentures due September 1, 2045" (the "2045 Debentures") and, together with the 2025 Debentures, the "Debentures"), the form and substance of each such series and the terms, provisions and conditions thereof to be set forth as provided in the Indenture and this Supplemental Indenture;

WHEREAS, the Board of Managers of the Company, pursuant to the resolutions duly adopted on May 6, 2013, April 28, 2014 and April 6, 2015 has duly authorized the issuance of the 2025 Debentures and the 2045 Debentures, and has authorized the proper officers of the Company to execute any and all appropriate documents necessary or appropriate to effect each such issuance;

WHEREAS, this Supplemental Indenture is being entered into pursuant to the provisions of Section 901(7) of the Indenture;

WHEREAS, the Company has requested that the Trustee execute and deliver this Supplemental Indenture; and

WHEREAS, all things necessary to make this Supplemental Indenture a valid agreement of the Company, in accordance with its terms, and to make each of the 2025 Debentures and the 2045 Debentures, each when executed by the Company and authenticated and delivered by the Trustee, the valid obligations of the Company, have been performed, and the execution and delivery of this Supplemental Indenture has been duly authorized in all respects;



NOW THEREFORE, in consideration of the premises and the purchase and acceptance of each of the 2025 Debentures and the 2045 Debentures by the Holders thereof, and for the purpose of setting forth, as provided in the Indenture, the forms and terms of each of the 2025 Debentures and the 2045 Debentures, the Company covenants and agrees with the Trustee, as follows:

## ARTICLE I

### Definitions

SECTION 1.01. Definition of Terms. Unless the context otherwise requires:

- (a) each term defined in the Indenture has the same meaning when used in this Supplemental Indenture;
- (b) the singular includes the plural and vice versa; and
- (c) headings are for convenience of reference only and do not affect interpretation.

## ARTICLE II

### General Terms and Conditions of the 2025 Debentures

SECTION 2.01. Designation and Principal Amount. There is hereby authorized and established a series of Securities under the Indenture, designated as the “3.650% Debentures due September 1, 2025”, which is not limited in aggregate principal amount. The aggregate principal amount of the 2025 Debentures to be issued shall be as set forth in any Company Order for the authentication and delivery of the 2025 Debentures, pursuant to Section 303 of the Indenture.

SECTION 2.02. Maturity. The Stated Maturity of principal for the 2025 Debentures will be September 1, 2025.

SECTION 2.03. Further Issues. The Company may from time to time, without the consent of the Holders of the 2025 Debentures, issue additional debentures of that series. Any such additional debentures will have the same ranking, interest rate, maturity date and other terms as the 2025 Debentures, except for the issue date and, if applicable, the initial interest accrual date and the initial Interest Payment Date. Any such additional debentures, together with the 2025 Debentures herein provided for, will constitute a single series of Securities under the Indenture.

SECTION 2.04. Form and Payment. Payment of the principal of (and premium, if any) and interest on the 2025 Debentures will be made at the office or agency of the Company maintained for that purpose in the Borough of Manhattan, The City of New York, in such coin or currency of the United States of America as at the time of payment is legal tender for payment of public and private debts; provided, however,

that at the option of the Company payment of interest may be made by check mailed to the address of the Person entitled thereto as such address shall appear in the Security Register. If any Interest Payment Date, Redemption Date or Stated Maturity of the 2025 Debentures shall not be a Business Day in the Borough of Manhattan, The City of New York, then payment of the principal (and premium, if any) or interest need not be made on such date, but may be made on the next succeeding Business Day at such office or agency with the same force and effect as if made on the Interest Payment Date or Redemption Date, or at the Stated Maturity, without any interest or other payment in respect of such delay.

SECTION 2.05. Global Securities. Upon the original issuance, the 2025 Debentures will be represented by one or more Global Securities registered in the name of Cede & Co., the nominee of The Depository Trust Company (“DTC”). The Company will issue the 2025 Debentures in denominations of \$2,000 and integral multiples of \$1,000 in excess thereof and will deposit the Global Securities with DTC or its custodian and register the Global Securities in the name of Cede & Co. DTC shall be the initial Depository for the 2025 Debentures.

SECTION 2.06. Definitive Form. If (a) (i) the Depository is at any time unwilling or unable to continue as depository for the 2025 Debentures or (ii) the Depository has ceased to be a clearing agency registered under the Exchange Act, and in either case a successor Depository is not appointed by the Company within 90 days of notice thereof, (b) an Event of Default has occurred with regard to the 2025 Debentures and has not been cured or waived, or (c) the Company at any time and in its sole discretion and subject to the procedures of the Depository determines not to have the 2025 Debentures represented by Global Securities, the Company may issue the 2025 Debentures in definitive form in exchange for such Global Securities. In any such instance, an owner of a beneficial interest in 2025 Debentures will be entitled to physical delivery in definitive form of 2025 Debentures, equal in principal amount to such beneficial interest and to have 2025 Debentures registered in its name as shall be established in a Company Order.

SECTION 2.07. Interest. The 2025 Debentures will bear interest (computed on the basis of a 360-day year consisting of twelve 30-day months) from August 20, 2015 at the rate of 3.650% per annum, payable semi-annually; interest payable on each Interest Payment Date will include interest accrued from August 20, 2015, or from the most recent Interest Payment Date to which interest has been paid or duly provided for; the Interest Payment Dates on which such interest shall be payable are March 1 and September 1, commencing on March 1, 2016; and the Regular Record Date for the interest payable on any Interest Payment Date is the close of business on the February 15 or August 15, as the case may be, immediately preceding the relevant Interest Payment Date, whether or not that day is a Business Day.

SECTION 2.08. Authorized Denominations. The 2025 Debentures shall be issuable in denominations of \$2,000 and integral multiples of \$1,000 in excess thereof.

SECTION 2.09. Redemption. At any time before June 1, 2025, the 2025 Debentures are subject to redemption upon not less than 10 and not more than 60 days' notice by mail, as a whole or in part, at the election of the Company, at a Redemption Price equal to the greater of (i) 100% of the principal amount of the 2025 Debentures to be redeemed or (ii) the sum of the present values of the remaining scheduled payments of principal and interest thereon (not including any portion of such interest accrued as of the Redemption Date) discounted to the Redemption Date on a semi-annual basis (assuming a 360-day year consisting of twelve 30-day months) at the Treasury Rate (as defined below), plus 25 basis points, plus in either case any accrued and unpaid interest thereon to the Redemption Date. The Independent Investment Banker (as defined below) will calculate the Redemption Price.

At any time on or after June 1, 2025, the 2025 Debentures are subject to redemption upon not less than 10 and not more than 60 days' notice by mail, as a whole or in part, at the election of the Company, at a Redemption Price equal to 100% of the principal amount of the 2025 Debentures to be redeemed plus accrued and unpaid interest thereon to the Redemption Date.

“Treasury Rate” means, with respect to any Redemption Date, the rate per annum equal to the semi-annual equivalent yield to maturity of the Comparable Treasury Issue, assuming a price for the Comparable Treasury Issue (expressed as a percentage of its principal amount) equal to the Comparable Treasury Price for such Redemption Date.

“Comparable Treasury Issue” means the United States Treasury security selected by the Independent Investment Banker as having a maturity comparable to the remaining term of the 2025 Debentures that would be used, at the time of selection and in accordance with customary financial practice, in pricing new issues of corporate debt securities of comparable maturity with the remaining term of the 2025 Debentures.

“Comparable Treasury Price” means, with respect to any Redemption Date, (i) the average of the Reference Treasury Dealer Quotations for such Redemption Date, after excluding the highest and lowest such Reference Treasury Dealer Quotations, or (ii) if the Independent Investment Banker obtains fewer than four such Reference Treasury Dealer Quotations, the average of all such quotations.

“Independent Investment Banker” means one of the Reference Treasury Dealers appointed by the Company.

“Reference Treasury Dealer Quotations” means, with respect to each Reference Treasury Dealer and any Redemption Date, the average, as determined by the Independent Investment Banker, of the bid and asked prices for the Comparable Treasury Issue (expressed in each case as a percentage of its principal amount) quoted in writing to the Independent Investment Banker by such Reference Treasury Dealer at 5:00 p.m. on the third Business Day preceding such Redemption Date.

“Reference Treasury Dealer” means each of Citigroup Global Markets Inc., Merrill Lynch, Pierce, Fenner & Smith Incorporated and Morgan Stanley & Co.

LLC and their respective successors and one other nationally recognized investment banking firm that is a primary U.S. Government securities dealer in New York City (a “Primary Treasury Dealer”) specified from time to time by the Company; provided, however, that if any of the foregoing shall cease to be a Primary Treasury Dealer, the Company shall replace that former dealer with another Primary Treasury Dealer.

Notice of any redemption will be mailed at least 10 days but not more than 60 days before the Redemption Date to each Holder of the 2025 Debentures to be redeemed. Notwithstanding Section 1104 of the Indenture, such notice, if relating to a redemption under the first paragraph of this Section, need not set forth the Redemption Price but only the manner of calculation thereof. The Company shall give the Trustee notice of such Redemption Price promptly after the calculation thereof and the Trustee shall have no responsibility for such calculation.

Unless the Company defaults in payment of the Redemption Price, on and after the Redemption Date interest will cease to accrue on the 2025 Debentures or portions thereof called for redemption.

SECTION 2.10. Change of Control. (a) Upon the occurrence of a Change of Control Repurchase Event, unless the Company has exercised its right to redeem all 2025 Debentures in accordance with the redemption terms as set forth in the 2025 Debentures by giving notice of such redemption to the Holders of the 2025 Debentures pursuant to Section 1104 of the Indenture (as supplemented and amended by Section 2.09 of this Supplemental Indenture) prior to the 30th day following the Change of Control Repurchase Event, the Company shall make an irrevocable offer to each Holder of 2025 Debentures to repurchase all or any part (in integral multiples of \$1,000) of such Holder’s 2025 Debentures at a repurchase price in cash equal to 101% of the aggregate principal amount of 2025 Debentures repurchased plus any accrued and unpaid interest on the 2025 Debentures repurchased to, but not including, the date of repurchase (the “Repurchase Price”).

(b) Within 30 days following any Change of Control Repurchase Event or, at the Company’s option, prior to any Change of Control, but in either case, after the public announcement of the transaction that constitutes or may constitute the Change of Control, the Company shall mail to each Holder of 2025 Debentures, with a copy to the Trustee, a notice:

- (i) describing the transaction or transactions that constitute or may constitute the Change of Control Repurchase Event;
- (ii) offering to repurchase all 2025 Debentures tendered;

(iii) setting forth the payment date for the repurchase of the 2025 Debentures, which date will be no earlier than 30 days and no later than 60 days from the date such notice is mailed (the “Repurchase Date”);

(iv) if mailed prior to the date of consummation of the Change of Control, stating that the offer to repurchase is conditioned on a Change of Control Repurchase Event occurring on or prior to the Repurchase Date;

(v) disclosing that any 2025 Debenture not tendered for repurchase will continue to accrue interest; and

(vi) specifying the procedures for tendering 2025 Debentures.

(c) The Company shall comply with the requirements of Rule 14e-1 under the Exchange Act, and any other securities laws and regulations thereunder to the extent those laws and regulations are applicable in connection with the repurchase of the 2025 Debentures as a result of a Change of Control Repurchase Event. To the extent that the provisions of any securities laws or regulations conflict with the provisions of this Section 2.10, the Company shall comply with the applicable securities laws and regulations and will not be deemed to have breached its obligations under this Section 2.10 by virtue of such conflict.

(d) On the Repurchase Date following a Change of Control Repurchase Event, the Company shall, to the extent lawful:

(i) accept for payment all 2025 Debentures or portions thereof properly tendered pursuant to such offer;

(ii) deposit with the Trustee an amount equal to the aggregate Repurchase Price in respect of all 2025 Debentures or portions thereof properly tendered; and

(iii) deliver or cause to be delivered to the Trustee the 2025 Debentures properly accepted, together with an Officers' Certificate of the Company stating the aggregate principal amount of 2025 Debentures or portions thereof being repurchased by the Company.

(e) The Trustee will promptly transmit to each Holder of 2025 Debentures properly tendered, the Repurchase Price for such 2025 Debentures, and the Trustee, upon the execution and delivery by the Company of such 2025 Debentures, will promptly authenticate and cause to be transferred by book-entry to each Holder a new 2025 Debenture equal in principal amount to any unpurchased portion of any 2025 Debentures surrendered; provided that each new 2025 Debenture will be in a principal amount of a minimum denomination of \$2,000 and integral multiples of \$1,000 in excess thereof.

(f) The Company shall not be required to make an offer to repurchase the 2025 Debentures upon a Change of Control Repurchase Event if a third party makes such an offer in the manner, at the times and otherwise in compliance with the requirements for an offer made by the Company and such third party purchases all 2025 Debentures properly tendered and not withdrawn under its offer.

(g) Solely for purposes of this Section 2.10 in connection with the 2025 Debentures, the following terms shall have the following meanings:

“Below Investment Grade Ratings Event” means that on any day within the 60-day period (which period shall be extended so long as the rating of the 2025 Debentures is under publicly announced consideration for a possible downgrade by any of the Rating Agencies) after the earlier of (i) the occurrence of a Change of Control; or (ii) public notice of the occurrence of a Change of Control or the intention by the Company to effect a Change of Control, the 2025 Debentures are rated below Investment Grade by each of the Rating Agencies. Notwithstanding the foregoing, a Below Investment Grade Ratings Event otherwise arising by virtue of a particular reduction in rating shall not be deemed to have occurred in respect of a particular Change of Control (and thus shall not be deemed a Below Investment Grade Ratings Event for purposes of the definition of Change of Control Repurchase Event hereunder) if the Rating Agencies making the reduction in rating to which this definition would otherwise apply do not announce or publicly confirm or inform the Trustee in writing that the reduction was the result, in whole or in part, of any event or circumstance comprised of or arising as a result of, or in respect of, the applicable Change of Control (whether or not the applicable Change of Control shall have occurred at the time of such ratings reduction).

“Change of Control” means the consummation of any transaction (including, without limitation, any merger or consolidation) the result of which is that any “person” or “group” (as those terms are used in Section 13(d)(3) of the Exchange Act), other than Berkshire Hathaway Inc., its Subsidiaries, or its or such Subsidiaries’ employee benefit plans, becomes the beneficial owner (as defined in Rules 13d-3 and 13d-5 under the Exchange Act), directly or indirectly, of more than 50% of the combined voting power of the Company’s Voting Stock or other Voting Stock into which the Company’s Voting Stock is reclassified, consolidated, exchanged or changed, measured by voting power rather than number of shares.

“Change of Control Repurchase Event” means the occurrence of both a Change of Control and a Below Investment Grade Ratings Event.

“Investment Grade” means a rating of Baa3 or better by Moody’s (or its equivalent under any successor ratings category of Moody’s); a rating of BBB- or better by S&P (or its equivalent under any successor ratings category of S&P); and the equivalent investment grade credit rating from any additional Rating Agency or Rating Agencies selected by the Company.

“Moody’s” means Moody’s Investors Service, Inc.

“Rating Agency” means (a) each of Moody’s and S&P; and (b) if either of Moody’s or S&P ceases to rate the 2025 Debentures or fails to make a rating of the 2025 Debentures publicly available for reasons outside of the Company’s control, a “nationally recognized statistical rating organization” within the meaning of Section 3(a)(62) of the Exchange Act, selected by the Company (as certified by a written consent or resolution of the Company’s board of managers) as a replacement agency for Moody’s or S&P, or both of them, as the case may be.

“S&P” means Standard & Poor’s Ratings Services, a division of McGraw-Hill, Inc.

“Voting Stock” of any specified “person” (as that term is used in Section 13(d)(3) of the Exchange Act) as of any date means the capital stock (or other equity interests) of such person that is at the time entitled to vote generally in the election of the board of directors (or other equivalent body) of such person.

SECTION 2.11. Appointment of Agents. The Trustee will initially be the Security Registrar and Paying Agent for the 2025 Debentures and will act as such only at its corporate trust offices in New York, New York.

### ARTICLE III

#### General Terms and Conditions of the 2045 Debentures

SECTION 3.01. Designation and Principal Amount. There is hereby authorized and established a series of Securities under the Indenture, designated as the “4.700% Debentures due September 1, 2045”, which is not limited in aggregate principal amount. The aggregate principal amount of the 2045 Debentures to be issued shall be as set forth in any Company Order for the authentication and delivery of the 2045 Debentures, pursuant to Section 303 of the Indenture.

SECTION 3.02. Maturity. The Stated Maturity of principal for the 2045 Debentures will be September 1, 2045.

SECTION 3.03. Further Issues. The Company may from time to time, without the consent of the Holders of the 2045 Debentures, issue additional debentures of that series. Any such additional debentures will have the same ranking, interest rate, maturity date and other terms as the 2045 Debentures, except for the issue date and, if applicable, the initial interest accrual date and the initial Interest Payment Date. Any such additional debentures, together with the 2045 Debentures herein provided for, will constitute a single series of Securities under the Indenture.

SECTION 3.04. Form and Payment. Payment of the principal of (and premium, if any) and interest on the 2045 Debentures will be made at the office or agency of the Company maintained for that purpose in the Borough of Manhattan, The City of New York, in such coin or currency of the United States of America as at the time of payment is legal tender for payment of public and private debts; provided, however, that at the option of the Company payment of interest may be made by check mailed to the address of the Person entitled thereto as such address shall appear in the Security Register. If any Interest Payment Date, Redemption Date or Stated Maturity of the 2045 Debentures shall not be a Business Day in the Borough of Manhattan, The City of New York, then payment of the principal (and premium, if any) or interest need not be made on such date, but may be made on the next succeeding Business Day at such office or

agency with the same force and effect as if made on the Interest Payment Date or Redemption Date, or at the Stated Maturity, without any interest or other payment in respect of such delay.

SECTION 3.05. Global Securities. Upon the original issuance, the 2045 Debentures will be represented by one or more Global Securities registered in the name of Cede & Co., the nominee of The Depository Trust Company (“DTC”). The Company will issue the 2045 Debentures in denominations of \$2,000 and integral multiples of \$1,000 in excess thereof and will deposit the Global Securities with DTC or its custodian and register the Global Securities in the name of Cede & Co. DTC shall be the initial Depository for the 2045 Debentures.

SECTION 3.06. Definitive Form. If (a) (i) the Depository is at any time unwilling or unable to continue as depository for the 2045 Debentures or (ii) the Depository has ceased to be a clearing agency registered under the Exchange Act, and in either case a successor Depository is not appointed by the Company within 90 days of notice thereof, (b) an Event of Default has occurred with regard to the 2045 Debentures and has not been cured or waived, or (c) the Company at any time and in its sole discretion and subject to the procedures of the Depository determines not to have the 2045 Debentures represented by Global Securities, the Company may issue the 2045 Debentures in definitive form in exchange for such Global Securities. In any such instance, an owner of a beneficial interest in 2045 Debentures will be entitled to physical delivery in definitive form of 2045 Debentures, equal in principal amount to such beneficial interest and to have 2045 Debentures registered in its name as shall be established in a Company Order.

SECTION 3.07. Interest. The 2045 Debentures will bear interest (computed on the basis of a 360-day year consisting of twelve 30-day months) from August 20, 2015 at the rate of 4.700% per annum, payable semi-annually; interest payable on each Interest Payment Date will include interest accrued from August 20, 2015, or from the most recent Interest Payment Date to which interest has been paid or duly provided for; the Interest Payment Dates on which such interest shall be payable are March 1 and September 1, commencing on March 1, 2016; and the Regular Record Date for the interest payable on any Interest Payment Date is the close of business on the February 15 or August 15, as the case may be, immediately preceding the relevant Interest Payment Date, whether or not that day is a Business Day.

SECTION 3.08. Authorized Denominations. The 2045 Debentures shall be issuable in denominations of \$2,000 and integral multiples of \$1,000 in excess thereof.

SECTION 3.09. Redemption. At any time before March 1, 2045, the 2045 Debentures are subject to redemption upon not less than 10 and not more than 60 days’ notice by mail, as a whole or in part, at the election of the Company, at a Redemption Price equal to the greater of (i) 100% of the principal amount of the 2045 Debentures to be redeemed or (ii) the sum of the present values of the remaining scheduled payments of principal and interest thereon (not including any portion of such interest accrued as of the Redemption Date) discounted to the Redemption Date on a



semi-annual basis (assuming a 360-day year consisting of twelve 30-day months) at the Treasury Rate (as defined below), plus 30 basis points, plus in either case any accrued and unpaid interest thereon to the Redemption Date. The Independent Investment Banker (as defined below) will calculate the Redemption Price.

At any time on or after March 1, 2045, the 2045 Debentures are subject to redemption upon not less than 10 and not more than 60 days' notice by mail, as a whole or in part, at the election of the Company, at a Redemption Price equal to 100% of the principal amount of the 2045 Debentures to be redeemed plus accrued and unpaid interest thereon to the Redemption Date.

“Treasury Rate” means, with respect to any Redemption Date, the rate per annum equal to the semi-annual equivalent yield to maturity of the Comparable Treasury Issue, assuming a price for the Comparable Treasury Issue (expressed as a percentage of its principal amount) equal to the Comparable Treasury Price for such Redemption Date.

“Comparable Treasury Issue” means the United States Treasury security selected by the Independent Investment Banker as having a maturity comparable to the remaining term of the 2045 Debentures that would be used, at the time of selection and in accordance with customary financial practice, in pricing new issues of corporate debt securities of comparable maturity with the remaining term of the 2045 Debentures.

“Comparable Treasury Price” means, with respect to any Redemption Date, (i) the average of the Reference Treasury Dealer Quotations for such Redemption Date, after excluding the highest and lowest such Reference Treasury Dealer Quotations, or (ii) if the Independent Investment Banker obtains fewer than four such Reference Treasury Dealer Quotations, the average of all such quotations.

“Independent Investment Banker” means one of the Reference Treasury Dealers appointed by the Company.

“Reference Treasury Dealer Quotations” means, with respect to each Reference Treasury Dealer and any Redemption Date, the average, as determined by the Independent Investment Banker, of the bid and asked prices for the Comparable Treasury Issue (expressed in each case as a percentage of its principal amount) quoted in writing to the Independent Investment Banker by such Reference Treasury Dealer at 5:00 p.m. on the third Business Day preceding such Redemption Date.

“Reference Treasury Dealer” means each of Citigroup Global Markets Inc., Merrill Lynch, Pierce, Fenner & Smith Incorporated and Morgan Stanley & Co. LLC and their respective successors and one other nationally recognized investment banking firm that is a primary U.S. Government securities dealer in New York City (a “Primary Treasury Dealer”) specified from time to time by the Company; provided, however, that if any of the foregoing shall cease to be a Primary Treasury Dealer, the Company shall replace that former dealer with another Primary Treasury Dealer.

Notice of any redemption will be mailed at least 10 days but not more than 60 days before the Redemption Date to each Holder of the 2045 Debentures to be

redeemed. Notwithstanding Section 1104 of the Indenture, such notice, if relating to a redemption under the first paragraph of this Section, need not set forth the Redemption Price but only the manner of calculation thereof. The Company shall give the Trustee notice of such Redemption Price promptly after the calculation thereof and the Trustee shall have no responsibility for such calculation.

Unless the Company defaults in payment of the Redemption Price, on and after the Redemption Date interest will cease to accrue on the 2045 Debentures or portions thereof called for redemption.

SECTION 3.10. Change of Control. (a) Upon the occurrence of a Change of Control Repurchase Event, unless the Company has exercised its right to redeem all 2045 Debentures in accordance with the redemption terms as set forth in the 2045 Debentures by giving notice of such redemption to the Holders of the 2045 Debentures pursuant to Section 1104 of the Indenture (as supplemented and amended by Section 3.09 of this Supplemental Indenture) prior to the 30th day following the Change of Control Repurchase Event, the Company shall make an irrevocable offer to each Holder of 2045 Debentures to repurchase all or any part (in integral multiples of \$1,000) of such Holder's 2045 Debentures at a repurchase price in cash equal to 101% of the aggregate principal amount of 2045 Debentures repurchased plus any accrued and unpaid interest on the 2045 Debentures repurchased to, but not including, the date of repurchase (the "Repurchase Price").

(b) Within 30 days following any Change of Control Repurchase Event or, at the Company's option, prior to any Change of Control, but in either case, after the public announcement of the transaction that constitutes or may constitute the Change of Control, the Company shall mail to each Holder of 2045 Debentures, with a copy to the Trustee, a notice:

(i) describing the transaction or transactions that constitute or may constitute the Change of Control Repurchase Event;

(ii) offering to repurchase all 2045 Debentures tendered;

(iii) setting forth the payment date for the repurchase of the 2045 Debentures, which date will be no earlier than 30 days and no later than 60 days from the date such notice is mailed (the "Repurchase Date");

(iv) if mailed prior to the date of consummation of the Change of Control, stating that the offer to repurchase is conditioned on a Change of Control Repurchase Event occurring on or prior to the Repurchase Date;

(v) disclosing that any 2045 Debenture not tendered for repurchase will continue to accrue interest; and

(vi) specifying the procedures for tendering 2045 Debentures.

(c) The Company shall comply with the requirements of Rule 14e-1 under the Exchange Act, and any other securities laws and regulations thereunder to the extent those laws and regulations are applicable in connection with the repurchase of the 2045 Debentures as a result of a Change of Control Repurchase Event. To the extent that the provisions of any securities laws or regulations conflict with the provisions of this Section 3.10, the Company shall comply with the applicable securities laws and regulations and will not be deemed to have breached its obligations under this Section 3.10 by virtue of such conflict.

(d) On the Repurchase Date following a Change of Control Repurchase Event, the Company shall, to the extent lawful:

(i) accept for payment all 2045 Debentures or portions thereof properly tendered pursuant to such offer;

(ii) deposit with the Trustee an amount equal to the aggregate Repurchase Price in respect of all 2045 Debentures or portions thereof properly tendered; and

(iii) deliver or cause to be delivered to the Trustee the 2045 Debentures properly accepted, together with an Officers' Certificate of the Company stating the aggregate principal amount of 2045 Debentures or portions thereof being repurchased by the Company.

(e) The Trustee will promptly transmit to each Holder of 2045 Debentures properly tendered, the Repurchase Price for such 2045 Debentures, and the Trustee, upon the execution and delivery by the Company of such 2045 Debentures, will promptly authenticate and cause to be transferred by book-entry to each Holder a new 2045 Debenture equal in principal amount to any unpurchased portion of any 2045 Debentures surrendered; provided that each new 2045 Debenture will be in a principal amount of a minimum denomination of \$2,000 and integral multiples of \$1,000 in excess thereof.

(f) The Company shall not be required to make an offer to repurchase the 2045 Debentures upon a Change of Control Repurchase Event if a third party makes such an offer in the manner, at the times and otherwise in compliance with the requirements for an offer made by the Company and such third party purchases all 2045 Debentures properly tendered and not withdrawn under its offer.

(g) Solely for purposes of this Section 3.10 in connection with the 2045 Debentures, the following terms shall have the following meanings:

“Below Investment Grade Ratings Event” means that on any day within the 60-day period (which period shall be extended so long as the rating of the 2045 Debentures is under publicly announced consideration for a possible downgrade by any of the Rating Agencies) after the earlier of (i) the occurrence of a Change of Control; or (ii) public notice of the occurrence of a Change of Control or the intention by the Company to effect a Change of Control, the 2045 Debentures are rated below Investment

Grade by each of the Rating Agencies. Notwithstanding the foregoing, a Below Investment Grade Ratings Event otherwise arising by virtue of a particular reduction in rating shall not be deemed to have occurred in respect of a particular Change of Control (and thus shall not be deemed a Below Investment Grade Ratings Event for purposes of the definition of Change of Control Repurchase Event hereunder) if the Rating Agencies making the reduction in rating to which this definition would otherwise apply do not announce or publicly confirm or inform the Trustee in writing that the reduction was the result, in whole or in part, of any event or circumstance comprised of or arising as a result of, or in respect of, the applicable Change of Control (whether or not the applicable Change of Control shall have occurred at the time of such ratings reduction).

“Change of Control” means the consummation of any transaction (including, without limitation, any merger or consolidation) the result of which is that any “person” or “group” (as those terms are used in Section 13(d)(3) of the Exchange Act), other than Berkshire Hathaway Inc., its Subsidiaries, or its or such Subsidiaries’ employee benefit plans, becomes the beneficial owner (as defined in Rules 13d-3 and 13d-5 under the Exchange Act), directly or indirectly, of more than 50% of the combined voting power of the Company’s Voting Stock or other Voting Stock into which the Company’s Voting Stock is reclassified, consolidated, exchanged or changed, measured by voting power rather than number of shares.

“Change of Control Repurchase Event” means the occurrence of both a Change of Control and a Below Investment Grade Ratings Event.

“Investment Grade” means a rating of Baa3 or better by Moody’s (or its equivalent under any successor ratings category of Moody’s); a rating of BBB- or better by S&P (or its equivalent under any successor ratings category of S&P); and the equivalent investment grade credit rating from any additional Rating Agency or Rating Agencies selected by the Company.

“Moody’s” means Moody’s Investors Service, Inc.

“Rating Agency” means (a) each of Moody’s and S&P; and (b) if either of Moody’s or S&P ceases to rate the 2045 Debentures or fails to make a rating of the 2045 Debentures publicly available for reasons outside of the Company’s control, a “nationally recognized statistical rating organization” within the meaning of Section 3(a)(62) of the Exchange Act, selected by the Company (as certified by a written consent or resolution of the Company’s board of managers) as a replacement agency for Moody’s or S&P, or both of them, as the case may be.

“S&P” means Standard & Poor’s Ratings Services, a division of McGraw-Hill, Inc.

“Voting Stock” of any specified “person” (as that term is used in Section 13(d)(3) of the Exchange Act) as of any date means the capital stock (or other equity interests) of such person that is at the time entitled to vote generally in the election of the board of directors (or other equivalent body) of such person.

SECTION 3.11. Appointment of Agents. The Trustee will initially be the Security Registrar and Paying Agent for the 2045 Debentures and will act as such only at its corporate trust offices in New York, New York.

#### ARTICLE IV

##### Form of 2025 Debentures

SECTION 4.01. Form of 2025 Debentures. The 2025 Debentures and the Trustee's Certificate of Authentication to be endorsed thereon are to be substantially in the form set forth in Exhibit A hereto.

#### ARTICLE V

##### Form of 2045 Debentures

SECTION 5.01. Form of 2045 Debentures. The 2045 Debentures and the Trustee's Certificate of Authentication to be endorsed thereon are to be substantially in the form set forth in Exhibit B hereto.

#### ARTICLE VI

##### Original Issue of 2025 Debentures

SECTION 6.01. Original Issue of 2025 Debentures. The 2025 Debentures may, upon execution of this Supplemental Indenture, be executed by the Company and delivered to the Trustee for authentication, and the Trustee shall, upon Company Order, authenticate and deliver such 2025 Debentures as in such Company Order provided.

#### ARTICLE VII

##### Original Issue of 2045 Debentures

SECTION 7.01. Original Issue of 2045 Debentures. The 2045 Debentures may, upon execution of this Supplemental Indenture, be executed by the Company and delivered to the Trustee for authentication, and the Trustee shall, upon Company Order, authenticate and deliver such 2045 Debentures as in such Company Order provided.

#### ARTICLE VIII

##### Miscellaneous

SECTION 8.01. Ratification of Indenture. The Indenture, as supplemented by this Supplemental Indenture, is in all respects ratified and confirmed, and this Supplemental Indenture shall be deemed part of the Indenture in the manner and to the extent herein and therein provided; provided that the provisions of this Supplemental Indenture apply solely with respect to the 2025 Debentures and the 2045 Debentures.

SECTION 8.02. Trustee Not Responsible for Recitals. The recitals herein contained are made by the Company and not by the Trustee, and the Trustee assumes no responsibility for the correctness thereof. The Trustee makes no representation as to the validity or sufficiency of this Supplemental Indenture.

SECTION 8.03. Governing Law. This Supplemental Indenture, each 2025 Debenture and each 2045 Debenture shall be governed by and construed in accordance with the laws of the State of New York.

SECTION 8.04. Separability. In case any one or more of the provisions contained in this Supplemental Indenture, the 2025 Debentures or the 2045 Debentures shall for any reason be held to be invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect any other provisions of this Supplemental Indenture or of the Debentures, but this Supplemental Indenture, the 2025 Debentures and the 2045 Debentures shall be construed as if such invalid or illegal or unenforceable provision had never been contained herein or therein.

SECTION 8.05. Counterparts. This Supplemental Indenture may be executed in any number of counterparts each of which shall be an original; but such counterparts shall together constitute but one and the same instrument.

SECTION 8.06. Certain Rights of the Trustee. No provision of the Indenture or this Supplemental Indenture shall require the Trustee to expend or risk its own funds or otherwise incur any financial liability in the performance of any of its duties thereunder, or in the exercise of any of its rights or powers, with respect to the 2025 Debentures, the 2045 Debentures or this Supplemental Indenture, if it shall have reasonable grounds for believing that repayment of such funds or adequate indemnity against such risk or liability is not reasonably assured to it.

The Trustee shall not be deemed to have notice or knowledge of any default or Event of Default with respect to a series of Debentures unless a Responsible Officer of the Trustee in its Corporate Trust Office has actual knowledge thereof or unless written or electronic notice of any event which is in fact such a default is received by the Trustee at the Corporate Trust Office of the Trustee, and such notice references the existence of a default or Event of Default, the Debentures of such series and this Indenture. When used in this paragraph, the term “default” means any event which is, or after notice or lapse of time or both would become, an Event of Default with respect to a series of Debentures. The Trustee agrees to accept notice pursuant to this paragraph sent by unsecured electronic transmission; provided, however, that (1) the party providing such written notice, subsequent to such transmission of written notice, shall provide the originally executed notice to the Trustee in a timely manner, and (2) such originally executed notice shall be signed by an authorized representative of the party providing such notice. The Trustee shall not be liable for any losses, costs or expenses arising directly or indirectly from the Trustee’s reasonable reliance upon such notice notwithstanding such notice is inconsistent with a subsequent notice.

With respect to this Supplemental Indenture and the Debentures, in no event shall the Trustee be responsible or liable for special, indirect, or consequential loss or damage of any kind whatsoever (including, but not limited to, loss of profit) irrespective of whether the Trustee has been advised of the likelihood of such loss or damage and regardless of the form of action.

SECTION 8.07. Waiver of Trial by Jury. EACH OF THE COMPANY AND THE TRUSTEE HEREBY IRREVOCABLY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, ANY AND ALL RIGHT TO TRIAL BY JURY IN ANY LEGAL PROCEEDING ARISING OUT OF OR RELATING TO THIS SUPPLEMENTAL INDENTURE, THE DEBENTURES OR THE TRANSACTIONS CONTEMPLATED THEREBY.

IN WITNESS WHEREOF, the parties hereto have caused this Supplemental Indenture to be duly executed, all as of the day and year first above written.

BURLINGTON NORTHERN SANTA FE, LLC

By /s/ Julie A. Piggott  
Name: Julie A. Piggott  
Title: Executive Vice President and Chief Financial Officer

THE BANK OF NEW YORK MELLON  
TRUST COMPANY, N.A., AS TRUSTEE

By /s/ Lawrence M. Kusch  
Name: Lawrence M. Kusch  
Title: Vice President

*[Signature Page to Seventeenth Supplemental Indenture]*



EXHIBIT A

FORM OF 2025 DEBENTURES

**Burlington Northern Santa Fe, LLC  
3.650% Debenture due September 1, 2025**

REGISTERED  
No. R-

§  
CUSIP No. 12189L AY7

**[Unless this certificate is presented by an authorized representative of The Depository Trust Company, a New York Corporation (“DTC”), to the Company or its agent for registration of transfer, exchange, or payment, and any certificate issued is registered in the name of Cede & Co. or in such other name as may be requested by an authorized representative of DTC (and any payment is made to Cede & Co. or to such other entity as may be requested by an authorized representative of DTC), ANY TRANSFER, PLEDGE, OR OTHER USE HEREOF FOR VALUE OR OTHERWISE BY OR TO ANY PERSON IS WRONGFUL inasmuch as the registered owner hereof, Cede & Co., has an interest herein.]**

**This Security is a Global Security within the meaning of the Indenture hereinafter referred to and is registered in the name of a Depository or a nominee thereof. This Security may not be exchanged in whole or in part for a Security registered, and no transfer of this Security in whole or in part may be registered, in the name of any Person other than such Depository or a nominee thereof, except in the limited circumstances described in the Indenture.**

BURLINGTON NORTHERN SANTA FE, LLC, a limited liability company duly formed and existing under the laws of Delaware (herein called the “Company”, which term includes any successor Person under the Indenture hereinafter referred to), for value received, hereby promises to pay to CEDE & CO., or registered assigns, the principal sum of (\$ ) on September 1, 2025, and to pay interest thereon from August 20, 2015 or from the most recent Interest Payment Date to which interest has been paid or duly provided for, semi-annually on March 1 and September 1 in each year, commencing March 1, 2016, at the rate of 3.650% per annum, until the principal hereof is paid or made available for payment. The interest so payable, and punctually paid or duly provided for, on any Interest Payment Date will, as provided in such Indenture, be paid to the Person in whose name this Security (or one or more Predecessor Securities) is registered at the close of business on the Regular Record Date for such interest, which shall be the February 15 or August 15 (whether or not a Business Day), as the case may be, immediately preceding such Interest Payment Date. Any such interest not so punctually paid or duly provided for will forthwith cease to be payable to the Holder on such Regular Record Date and may either be paid to the Person in whose name this Security (or one or more Predecessor Securities) is registered at the close of business on a Special Record Date for the payment of such Defaulted Interest to be fixed by the Trustee, notice whereof shall be given to Holders of Securities of this series not

less than 10 days prior to such Special Record Date, or be paid at any time in any other lawful manner not inconsistent with the requirements of any securities exchange on which the Securities of this series may be listed, and upon such notice as may be required by such exchange, all as more fully provided in said Indenture.

Payment of the principal of (and premium, if any) and interest on this Security will be made at the office or agency of the Company maintained for that purpose in the Borough of Manhattan, The City of New York, in such coin or currency of the United States of America as at the time of payment is legal tender for payment of public and private debts; provided, however, that at the option of the Company payment of interest may be made by check mailed to the address of the Person entitled thereto as such address shall appear in the Security Register. If any Interest Payment Date, Redemption Date or Stated Maturity of this Security shall not be a Business Day in the Borough of Manhattan, The City of New York, then payment of the principal (and premium, if any) or interest need not be made on such date, but may be made on the next succeeding Business Day at such office or agency with the same force and effect as if made on the Interest Payment Date or Redemption Date, or at the Stated Maturity, without any interest or other payment in respect of such delay.

Reference is hereby made to the further provisions of this Security set forth on the reverse hereof, which further provisions shall for all purposes have the same effect as if set forth at this place.

Unless the certificate of authentication hereon has been executed by the Trustee referred to on the reverse hereof by manual signature, this Security shall not be entitled to any benefit under the Indenture or be valid or obligatory for any purpose.

IN WITNESS WHEREOF, the Company has caused this instrument to be duly executed.

Dated:

BURLINGTON NORTHERN SANTA FE, LLC

by \_\_\_\_\_  
Name: Julie A. Piggott  
Title: Executive Vice President and Chief Financial Officer

Attest:

\_\_\_\_\_  
Name: Dustin J. Almaguer  
Title: Assistant Secretary

CERTIFICATE OF AUTHENTICATION

This is one of the Securities of the series designated therein referred to in the within-mentioned Indenture.

Dated: THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., as trustee

by \_\_\_\_\_  
Authorized Signatory

[REVERSE OF 2025 DEBENTURE]

This Security is one of a duly authorized issue of securities of the Company (herein called the “Securities”), issued and to be issued in one or more series under an Indenture, dated as of December 1, 1995, between the Company, as successor in interest to Burlington Northern Santa Fe Corporation, and The Bank of New York Mellon Trust Company, N.A. (formerly known as The Bank of New York Trust Company, N.A.), as successor to J.P. Morgan Trust Company, National Association, as successor in interest to Bank One Trust Company, N.A., as successor to The First National Bank of Chicago, as Trustee (herein called the “Trustee”, which term includes any successor trustee under the Indenture), as supplemented by the Seventeenth Supplemental Indenture, dated as of August 20, 2015, between the Company and the Trustee (herein called the “Indenture”, which term shall have the meaning assigned to it in such instrument), and reference is hereby made to the Indenture for a statement of the respective rights, limitations of rights, duties and immunities thereunder of the Company, the Trustee and the Holders of the Securities and of the terms upon which the Securities are, and are to be, authenticated and delivered. This Security is one of the series designated on the face hereof, initially limited in the aggregate principal amount of \$350,000,000. The Company may, without the consent of the Holders of the Securities of this series, issue additional Securities of this series and thereby increase such principal amount in the future, on the same terms and conditions and with the same CUSIP number as this Security, except as provided in said Seventeenth Supplemental Indenture.

At any time before June 1, 2025, the Securities of this series are subject to redemption upon not less than 10 and not more than 60 days’ notice by mail, as a whole or in part, at the election of the Company, at a Redemption Price equal to the greater of (i) 100% of the principal amount of the Securities of this series to be redeemed or (ii) the sum of the present values of the remaining scheduled payments of principal and interest thereon (not including any portion of such interest accrued as of the Redemption Date) discounted to the Redemption Date on a semi-annual basis (assuming a 360-day year consisting of twelve 30-day months) at the Treasury Rate (as defined in said Seventeenth Supplemental Indenture), plus 25 basis points, plus in either case any accrued and unpaid interest thereon to the Redemption Date. The Independent Investment Banker (as defined in said Seventeenth Supplemental Indenture) will calculate the Redemption Price.

At any time on or after June 1, 2025, the Securities of this series are subject to redemption upon not less than 10 and not more than 60 days’ notice by mail, as a whole or in part, at the election of the Company, at a Redemption Price equal to 100% of the principal amount of the Securities of this series to be redeemed plus accrued and unpaid interest thereon to the Redemption Date.

In the event of redemption of this Security in part only, a new Security or Securities of this series and of like tenor for the unredeemed portion hereof will be issued in the name of the Holder, upon the cancellation hereof.

Upon the occurrence of a Change of Control Repurchase Event (as defined in said Seventeenth Supplemental Indenture), unless the Company has exercised its right

of redemption as described above by giving notice of such redemption to the Holders of the Securities of this series pursuant to Section 1104 of the Indenture (as supplemented and amended by Section 2.09 of said Seventeenth Supplemental Indenture) prior to the 30th day following the Change of Control Repurchase Event, each Holder of Securities of this series shall have the right to require the Company to repurchase all or any part (in integral multiples of \$1,000) of such Holder's Securities pursuant to the Change of Control notice as provided in, and subject to the terms of, said Seventeenth Supplemental Indenture at a purchase price in cash equal to 101% of the aggregate principal amount of the Securities of this series repurchased, plus accrued and unpaid interest, if any, to, but not including, the date of repurchase.

The Indenture contains provisions for defeasance at any time of the entire indebtedness of this Security or certain restrictive covenants and Events of Default with respect to this Security, in each case upon compliance with certain conditions set forth in the Indenture.

If an Event of Default with respect to Securities of this series shall occur and be continuing, the principal of the Securities of this series may be declared due and payable in the manner and with the effect provided in the Indenture.

The Indenture permits, with certain exceptions as therein provided, the amendment thereof and the modification of the rights and obligations of the Company and the rights of the Holders of the Securities of each series to be affected under the Indenture at any time by the Company and the Trustee with the consent of the Holders of a majority in principal amount of the Securities at the time Outstanding of each series to be affected. The Indenture also contains provisions permitting the Holders of specified percentages in principal amount of the Securities of each series at the time Outstanding, on behalf of the Holders of all Securities of such series, to waive compliance by the Company with certain provisions of the Indenture and certain past defaults under the Indenture and their consequences. Any such consent or waiver by the Holder of this Security shall be conclusive and binding upon such Holder and upon all future Holders of this Security and of any Security issued upon the registration of transfer hereof or in exchange herefor or in lieu hereof, whether or not notation of such consent or waiver is made upon this Security.

As provided in and subject to the provisions of the Indenture, the Holder of this Security shall not have the right to institute any proceeding with respect to the Indenture or for the appointment of a receiver or trustee or for any other remedy thereunder, unless such Holder shall have previously given the Trustee written notice of a continuing Event of Default with respect to the Securities of this series, the Holders of not less than 25% in principal amount of the Securities of this series at the time Outstanding shall have made written request to the Trustee to institute proceedings in respect of such Event of Default as Trustee and offered the Trustee reasonable indemnity, and the Trustee shall not have received from the Holders of a majority in principal amount of Securities of this series at the time Outstanding a direction inconsistent with such request, and the Trustee shall have failed to institute any such proceeding, for 60 days after receipt of such notice, request and offer of indemnity. The foregoing shall not

apply to any suit instituted by the Holder of this Security for the enforcement of any payment of principal hereof or any premium or interest hereon on or after the respective due dates expressed herein (or in the case of a redemption on or after the Redemption Date).

No reference herein to the Indenture and no provision of this Security or of the Indenture shall alter or impair the obligation of the Company, which is absolute and unconditional, to pay the principal of and any premium and interest on this Security at the times, place and rate, and in the coin or currency, herein prescribed.

As provided in the Indenture and subject to certain limitations therein set forth, the transfer of this Security is registrable in the Security Register, upon surrender of this Security for registration of transfer at the office or agency of the Company in any place where the principal of and any premium and interest on this Security are payable, duly endorsed by, or accompanied by a written instrument of transfer in form satisfactory to the Company and the Security Registrar duly executed by, the Holder hereof or his attorney duly authorized in writing, and thereupon one or more new Securities of this series and of like tenor, of authorized denominations and for the same aggregate principal amount, will be issued to the designated transferee or transferees.

The Securities of this series are issuable only in registered form without coupons in denominations of \$2,000 and integral multiples of \$1,000 in excess thereof. As provided in the Indenture and subject to certain limitations therein set forth, Securities of this series are exchangeable for a like aggregate principal amount of Securities of this series and of like tenor of a different authorized denomination, as requested by the Holder surrendering the same.

No service charge shall be made for any such registration of transfer or exchange, but the Company may require payment of a sum sufficient to cover any tax or other governmental charge payable in connection therewith.

Prior to due presentment of this Security for registration of transfer, the Company, the Trustee and any agent of the Company or the Trustee may treat the Person in whose name this Security is registered as the owner hereof for all purposes, whether or not this Security is overdue, and neither the Company, the Trustee nor any such agent shall be affected by notice to the contrary.

All terms used in this Security which are defined in the Indenture shall have the meanings assigned to them in the Indenture.

EXHIBIT B

FORM OF 2045 DEBENTURES

**Burlington Northern Santa Fe, LLC  
4.700% Debenture due September 1, 2045**

REGISTERED

No. R-

§  
CUSIP No. 12189L AX9

**[Unless this certificate is presented by an authorized representative of The Depository Trust Company, a New York Corporation (“DTC”), to the Company or its agent for registration of transfer, exchange, or payment, and any certificate issued is registered in the name of Cede & Co. or in such other name as may be requested by an authorized representative of DTC (and any payment is made to Cede & Co. or to such other entity as may be requested by an authorized representative of DTC), ANY TRANSFER, PLEDGE, OR OTHER USE HEREOF FOR VALUE OR OTHERWISE BY OR TO ANY PERSON IS WRONGFUL inasmuch as the registered owner hereof, Cede & Co., has an interest herein.]**

**This Security is a Global Security within the meaning of the Indenture hereinafter referred to and is registered in the name of a Depository or a nominee thereof. This Security may not be exchanged in whole or in part for a Security registered, and no transfer of this Security in whole or in part may be registered, in the name of any Person other than such Depository or a nominee thereof, except in the limited circumstances described in the Indenture.**

BURLINGTON NORTHERN SANTA FE, LLC, a limited liability company duly formed and existing under the laws of Delaware (herein called the “Company”, which term includes any successor Person under the Indenture hereinafter referred to), for value received, hereby promises to pay to CEDE & CO., or registered assigns, the principal sum of (\$ ) on September 1, 2045, and to pay interest thereon from August 20, 2015 or from the most recent Interest Payment Date to which interest has been paid or duly provided for, semi-annually on March 1 and September 1 in each year, commencing March 1, 2016, at the rate of 4.700% per annum, until the principal hereof is paid or made available for payment. The interest so payable, and punctually paid or duly provided for, on any Interest Payment Date will, as provided in such Indenture, be paid to the Person in whose name this Security (or one or more Predecessor Securities) is registered at the close of business on the Regular Record Date for such interest, which shall be the February 15 or August 15 (whether or not a Business Day), as the case may be, immediately preceding such Interest Payment Date. Any such interest not so punctually paid or duly provided for will forthwith cease to be payable to the Holder on such Regular Record Date and may either be paid to the Person in whose name this Security (or one or more Predecessor Securities) is registered at the close of business on a Special Record Date for the payment of such Defaulted Interest to be fixed by the Trustee, notice whereof shall be given to Holders of Securities of this series not



less than 10 days prior to such Special Record Date, or be paid at any time in any other lawful manner not inconsistent with the requirements of any securities exchange on which the Securities of this series may be listed, and upon such notice as may be required by such exchange, all as more fully provided in said Indenture.

Payment of the principal of (and premium, if any) and interest on this Security will be made at the office or agency of the Company maintained for that purpose in the Borough of Manhattan, The City of New York, in such coin or currency of the United States of America as at the time of payment is legal tender for payment of public and private debts; provided, however, that at the option of the Company payment of interest may be made by check mailed to the address of the Person entitled thereto as such address shall appear in the Security Register. If any Interest Payment Date, Redemption Date or Stated Maturity of this Security shall not be a Business Day in the Borough of Manhattan, The City of New York, then payment of the principal (and premium, if any) or interest need not be made on such date, but may be made on the next succeeding Business Day at such office or agency with the same force and effect as if made on the Interest Payment Date or Redemption Date, or at the Stated Maturity, without any interest or other payment in respect of such delay.

Reference is hereby made to the further provisions of this Security set forth on the reverse hereof, which further provisions shall for all purposes have the same effect as if set forth at this place.

Unless the certificate of authentication hereon has been executed by the Trustee referred to on the reverse hereof by manual signature, this Security shall not be entitled to any benefit under the Indenture or be valid or obligatory for any purpose.

IN WITNESS WHEREOF, the Company has caused this instrument to be duly executed.

Dated:

BURLINGTON NORTHERN SANTA FE, LLC

by \_\_\_\_\_  
Name: Julie A. Piggott  
Title: Executive Vice President and Chief Financial Officer

Attest:

\_\_\_\_\_  
Name: Dustin J. Almaguer  
Title: Assistant Secretary

CERTIFICATE OF AUTHENTICATION

This is one of the Securities of the series designated therein referred to in the within-mentioned Indenture.

Dated: THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., as trustee

by \_\_\_\_\_  
Authorized Signatory

[REVERSE OF 2045 DEBENTURE]

This Security is one of a duly authorized issue of securities of the Company (herein called the “Securities”), issued and to be issued in one or more series under an Indenture, dated as of December 1, 1995, between the Company, as successor in interest to Burlington Northern Santa Fe Corporation, and The Bank of New York Mellon Trust Company, N.A. (formerly known as The Bank of New York Trust Company, N.A.), as successor to J.P. Morgan Trust Company, National Association, as successor in interest to Bank One Trust Company, N.A., as successor to The First National Bank of Chicago, as Trustee (herein called the “Trustee”, which term includes any successor trustee under the Indenture), as supplemented by the Seventeenth Supplemental Indenture, dated as of August 20, 2015, between the Company and the Trustee (herein called the “Indenture”, which term shall have the meaning assigned to it in such instrument), and reference is hereby made to the Indenture for a statement of the respective rights, limitations of rights, duties and immunities thereunder of the Company, the Trustee and the Holders of the Securities and of the terms upon which the Securities are, and are to be, authenticated and delivered. This Security is one of the series designated on the face hereof, initially limited in the aggregate principal amount of \$650,000,000. The Company may, without the consent of the Holders of the Securities of this series, issue additional Securities of this series and thereby increase such principal amount in the future, on the same terms and conditions and with the same CUSIP number as this Security, except as provided in said Seventeenth Supplemental Indenture.

At any time before March 1, 2045, the Securities of this series are subject to redemption upon not less than 10 and not more than 60 days’ notice by mail, as a whole or in part, at the election of the Company, at a Redemption Price equal to the greater of (i) 100% of the principal amount of the Securities of this series to be redeemed or (ii) the sum of the present values of the remaining scheduled payments of principal and interest thereon (not including any portion of such interest accrued as of the Redemption Date) discounted to the Redemption Date on a semi-annual basis (assuming a 360-day year consisting of twelve 30-day months) at the Treasury Rate (as defined in said Seventeenth Supplemental Indenture), plus 30 basis points, plus in either case any accrued and unpaid interest thereon to the Redemption Date. The Independent Investment Banker (as defined in said Seventeenth Supplemental Indenture) will calculate the Redemption Price.

At any time on or after March 1, 2045, the Securities of this series are subject to redemption upon not less than 10 and not more than 60 days’ notice by mail, as a whole or in part, at the election of the Company, at a Redemption Price equal to 100% of the principal amount of the Securities of this series to be redeemed plus accrued and unpaid interest thereon to the Redemption Date.

In the event of redemption of this Security in part only, a new Security or Securities of this series and of like tenor for the unredeemed portion hereof will be issued in the name of the Holder, upon the cancellation hereof.

Upon the occurrence of a Change of Control Repurchase Event (as defined in said Seventeenth Supplemental Indenture), unless the Company has exercised its right of redemption as described above by giving notice of such redemption to the Holders of the Securities of this series pursuant to Section 1104 of the Indenture (as supplemented and amended by Section 3.09 of said Seventeenth Supplemental Indenture) prior to the 30th day following the Change of Control Repurchase Event, each Holder of Securities of this series shall have the right to require the Company to repurchase all or any part (in integral multiples of \$1,000) of such Holder's Securities pursuant to the Change of Control notice as provided in, and subject to the terms of, said Seventeenth Supplemental Indenture at a purchase price in cash equal to 101% of the aggregate principal amount of the Securities of this series repurchased, plus accrued and unpaid interest, if any, to, but not including, the date of repurchase.

The Indenture contains provisions for defeasance at any time of the entire indebtedness of this Security or certain restrictive covenants and Events of Default with respect to this Security, in each case upon compliance with certain conditions set forth in the Indenture.

If an Event of Default with respect to Securities of this series shall occur and be continuing, the principal of the Securities of this series may be declared due and payable in the manner and with the effect provided in the Indenture.

The Indenture permits, with certain exceptions as therein provided, the amendment thereof and the modification of the rights and obligations of the Company and the rights of the Holders of the Securities of each series to be affected under the Indenture at any time by the Company and the Trustee with the consent of the Holders of a majority in principal amount of the Securities at the time Outstanding of each series to be affected. The Indenture also contains provisions permitting the Holders of specified percentages in principal amount of the Securities of each series at the time Outstanding, on behalf of the Holders of all Securities of such series, to waive compliance by the Company with certain provisions of the Indenture and certain past defaults under the Indenture and their consequences. Any such consent or waiver by the Holder of this Security shall be conclusive and binding upon such Holder and upon all future Holders of this Security and of any Security issued upon the registration of transfer hereof or in exchange herefor or in lieu hereof, whether or not notation of such consent or waiver is made upon this Security.

As provided in and subject to the provisions of the Indenture, the Holder of this Security shall not have the right to institute any proceeding with respect to the Indenture or for the appointment of a receiver or trustee or for any other remedy thereunder, unless such Holder shall have previously given the Trustee written notice of a continuing Event of Default with respect to the Securities of this series, the Holders of not less than 25% in principal amount of the Securities of this series at the time Outstanding shall have made written request to the Trustee to institute proceedings in respect of such Event of Default as Trustee and offered the Trustee reasonable indemnity, and the Trustee shall not have received from the Holders of a majority in principal amount of Securities of this series at the time Outstanding a direction inconsistent with

such request, and the Trustee shall have failed to institute any such proceeding, for 60 days after receipt of such notice, request and offer of indemnity. The foregoing shall not apply to any suit instituted by the Holder of this Security for the enforcement of any payment of principal hereof or any premium or interest hereon on or after the respective due dates expressed herein (or in the case of a redemption on or after the Redemption Date).

No reference herein to the Indenture and no provision of this Security or of the Indenture shall alter or impair the obligation of the Company, which is absolute and unconditional, to pay the principal of and any premium and interest on this Security at the times, place and rate, and in the coin or currency, herein prescribed.

As provided in the Indenture and subject to certain limitations therein set forth, the transfer of this Security is registrable in the Security Register, upon surrender of this Security for registration of transfer at the office or agency of the Company in any place where the principal of and any premium and interest on this Security are payable, duly endorsed by, or accompanied by a written instrument of transfer in form satisfactory to the Company and the Security Registrar duly executed by, the Holder hereof or his attorney duly authorized in writing, and thereupon one or more new Securities of this series and of like tenor, of authorized denominations and for the same aggregate principal amount, will be issued to the designated transferee or transferees.

The Securities of this series are issuable only in registered form without coupons in denominations of \$2,000 and integral multiples of \$1,000 in excess thereof. As provided in the Indenture and subject to certain limitations therein set forth, Securities of this series are exchangeable for a like aggregate principal amount of Securities of this series and of like tenor of a different authorized denomination, as requested by the Holder surrendering the same.

No service charge shall be made for any such registration of transfer or exchange, but the Company may require payment of a sum sufficient to cover any tax or other governmental charge payable in connection therewith.

Prior to due presentment of this Security for registration of transfer, the Company, the Trustee and any agent of the Company or the Trustee may treat the Person in whose name this Security is registered as the owner hereof for all purposes, whether or not this Security is overdue, and neither the Company, the Trustee nor any such agent shall be affected by notice to the contrary.

All terms used in this Security which are defined in the Indenture shall have the meanings assigned to them in the Indenture.

## BURLINGTON NORTHERN SANTA FE, LLC

Certificate of Determination

Dated as of August 20, 2015

The undersigned, Paul Bischler, Vice President – Finance & Chief Sourcing Officer and Treasurer, and Beth A. Miller, General Director – Finance and Assistant Treasurer, each of Burlington Northern Santa Fe, LLC (successor to Burlington Northern Santa Fe Corporation), a Delaware limited liability company (the “Company”), do hereby certify that pursuant to the authority granted in the resolutions (collectively, the “Resolutions”) of the Board of Managers of the Company adopted on May 6, 2013, April 28, 2014 and April 6, 2015 and pursuant to Sections 201, 301 and 303 of the Indenture, dated as of December 1, 1995, between the Company and The Bank of New York Mellon Trust Company, N.A. (formerly known as The Bank of New York Trust Company, N.A.), as successor in interest to J.P. Morgan Trust Company, N.A., as successor in interest to Bank One Trust Company, N.A., as successor in interest to The First National Bank of Chicago, as Trustee (the “Trustee”), as supplemented by the Fifth Supplemental Indenture, dated as of February 11, 2010, among Burlington Northern Santa Fe Corporation, R Acquisition Company, LLC and the Trustee, and further supplemented by the Seventeenth Supplemental Indenture, dated as of August 20, 2015 (the “Seventeenth Supplemental Indenture”), between the Company and the Trustee (together with the Seventeenth Supplemental Indenture, the “Indenture”), there was established as of August 20, 2015 two series of securities under the Indenture with the following terms:

1. The securities of the series are entitled (i) “3.650% Debentures due September 1, 2025” (the “2025 Debentures”) and (ii) “4.700% Debentures due September 1, 2045” (the “2045 Debentures” and, together with the 2025 Debentures, the “Debentures”).
2. The 2025 Debentures and the 2045 Debentures are initially being offered in the aggregate principal amount of \$350,000,000 and \$650,000,000, respectively (except for Debentures authenticated and delivered upon registration of transfer of, or in exchange for, or in lieu of, other Debentures pursuant to Section 304, 305, 306, 906 or 1107 of the Indenture and any Debentures which pursuant to Section 303 are deemed never to have been authenticated and delivered thereunder). The Company may, without the consent of the Holders of the Debentures of a series, issue additional Debentures of such series and thereby increase such principal amount, on the same terms and conditions and with the same CUSIP number as the Debentures of such series.
3. The principal amount of the 2025 Debentures will mature on September 1, 2025 and the principal amount of the 2045 Debentures will mature on September 1, 2045, subject to the provisions of the Indenture relating to acceleration.

4. The 2025 Debentures will bear interest from August 20, 2015 or from the most recent Interest Payment Date (as defined below) to which interest has been paid or provided for, at the rate of 3.650% per annum, payable semi-annually in arrears on March 1 and September 1 of each year (each, an “Interest Payment Date”), commencing March 1, 2016 to the persons in whose names the 2025 Debentures are registered on the close of business on the immediately preceding February 15 and August 15, respectively, whether or not such day is a Business Day (each, a “Regular Record Date”). The 2045 Debentures will bear interest from August 20, 2015 or from the most recent Interest Payment Date to which interest has been paid or provided for, at the rate of 4.700% per annum, payable semi-annually in arrears on the Interest Payment Dates, commencing March 1, 2016 to the persons in whose names the 2045 Debentures are registered on the close of business on the immediately preceding Regular Record Date.
5. Subject to paragraph 10 below, the principal of and premium (if any) and interest on the Debentures will be payable at the office or agency of the Company maintained for that purpose, pursuant to the Indenture, in The City of New York, which shall be initially the corporate trust office of the Trustee; provided, however, that at the option of the Company, such payment of interest may be made by check mailed to the person entitled thereto as provided in the Indenture.
6. The Debentures will be redeemable as a whole or in part at the option of the Company, at any time, as set forth in the Seventeenth Supplemental Indenture.
7. Holders of the Debentures shall have the right to require the Company to repurchase all or any part (in integral multiples of \$1,000) of such holder’s Debentures upon the occurrence of a Change of Control Repurchase Event (as defined in the Seventeenth Supplemental Indenture), as set forth in the Seventeenth Supplemental Indenture.
8. The Debentures shall not be entitled to the benefit of any sinking fund, nor shall the Debentures be repayable at the option of the registered Holders thereof.
9. Subject to paragraph 10 below, the Debentures shall be issued in denominations of \$2,000 and integral multiples of \$1,000 in excess thereof.
10. Upon issuance the Debentures will be represented by one or more Global Securities deposited with, or on behalf of, The Depository Trust Company (the “Depository”). Settlement for the Debentures will be made by the Underwriters (as hereinafter defined) in immediately available funds. All payments of principal and interest shall be made by the Company in immediately available funds as long as the Debentures are represented by



Global Securities. As long as the Debentures are represented by Global Securities registered in the name of the Depository or its nominee, the Debentures will trade in the Depository's Same-Day Funds Settlement System, and secondary market trading activity in the Debentures will therefore settle in immediately available funds. Except as set forth in the Indenture or in the Prospectus Supplement relating to the Debentures, the Debentures will not be issuable in definitive form.

Furthermore, we hereby (i) approve the forms of and authorize the execution and delivery of the Debentures (copies of which are attached as Exhibit A-1, Exhibit A-2 and Exhibit A-3), and the Underwriting Agreement, dated August 13, 2015, among the Company and Citigroup Global Markets Inc., Merrill Lynch, Pierce, Fenner & Smith Incorporated and Morgan Stanley & Co. LLC, as representatives of the several underwriters listed therein (a copy of which is attached as Exhibit B), and (ii) ratify the execution and delivery of the Seventeenth Supplemental Indenture (a copy of which is attached as Exhibit C).

All capitalized terms used herein and not otherwise defined shall have the meanings given such terms in the Indenture.

*[Remainder of page intentionally left blank. Signature page follows.]*

IN WITNESS WHEREOF, we have set our hands as of the date above first written.

By: /s/ Paul Bischler  
Paul Bischler  
Vice President – Finance & Chief Sourcing  
Officer and Treasurer

By: /s/ Beth A. Miller  
Beth A. Miller  
General Director – Finance and Assistant  
Treasurer

*[Signature Page to Officers' Certificate to the Trustee (Certificate of Determination)]*

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SPECIAL COUNSEL  
SAMUEL C. BUTLER  
GEORGE J. GILLESPIE, III  
  
OF COUNSEL  
MICHAEL L. SCHLER

August 20, 2015

## Burlington Northern Santa Fe, LLC

\$350,000,000 Principal Amount of 3.650% Debentures due September 1, 2025

\$650,000,000 Principal Amount of 4.700% Debentures due September 1, 2045

Ladies and Gentlemen:

We have acted as counsel for Burlington Northern Santa Fe, LLC, a Delaware limited liability company (the “Company”), in connection with the public offering and sale by the Company of \$350,000,000 principal amount of 3.650% Debentures due September 1, 2025 (the “2025 Debentures”) and \$650,000,000 principal amount of the Company’s 4.700% Debentures due September 1, 2045 (the “2045 Debentures” and, together with the 2025 Debentures, the “Securities”) to be issued pursuant to an indenture dated as of December 1, 1995, between the Company (as successor to Burlington Northern Santa Fe Corporation, a Delaware corporation (the “Predecessor”)) and The Bank of New York Mellon Trust Company, N.A., as successor Trustee (the “Trustee”), the Fifth Supplemental Indenture, dated as of February 11, 2010, among the Predecessor, R Acquisition Company, LLC, a Delaware limited liability company (subsequently renamed Burlington Northern Santa Fe, LLC), and the Trustee (the Indenture, as so supplemented, the “Base Indenture”) and the Seventeenth Supplemental Indenture, dated as of August 20, 2015, between the Company and the Trustee (the “Seventeenth Supplemental Indenture” and, together with the Base Indenture, the “Indenture”).

In that connection, we have examined originals, or copies certified or otherwise identified to our satisfaction, of such documents, corporate records and other instruments as we have deemed necessary or appropriate for the purposes of this opinion, including the Indenture and the Registration Statement on Form S-3 (Registration No. 333-188502), filed with the Securities and Exchange Commission (the “Commission”) on May 10, 2013 (the “Registration Statement”), for registration under the Securities Act of 1933 (the “Securities Act”) of an indeterminate amount of debt securities of the Company, to be issued from time to time by the Company. As to various questions of

fact material to this opinion, we have relied upon representations of officers or directors of the Company and documents furnished to us by the Company without independent verification of their accuracy. In expressing the opinions set forth herein, we have assumed, with your consent and without independent investigation or verification, the genuineness of all signatures, the legal capacity and competency of all natural persons, the authenticity of all documents submitted to us as originals and the conformity to authentic original documents of all documents submitted to us as duplicates or copies and that the Indenture has been duly authorized, executed and delivered by, and represents a legal, valid and binding obligation of, the Trustee.

Based on the foregoing and subject to the qualifications set forth herein, we are of opinion that when the Securities are authenticated in accordance with the provisions of the Indenture and delivered and paid for the Securities will constitute legal, valid and binding obligations of the Company, enforceable against the Company in accordance with their terms and entitled to the benefits of the Indenture (subject to applicable bankruptcy, insolvency, reorganization, moratorium, fraudulent transfer and other similar laws affecting creditors' rights generally from time to time in effect and to general principles of equity, including, without limitation, concepts of materiality, reasonableness, good faith and fair dealing, regardless of whether considered in a proceeding in equity or at law).

We hereby consent to the filing of this opinion with the Commission as an exhibit to the Registration Statement. We also consent to the reference to our firm under the caption "Validity of the Debentures" in the Prospectus Supplement dated August 13, 2015 forming a part of the Registration Statement. In giving this consent, we do not thereby admit that we are included in the category of persons whose consent is required under Section 7 of the Securities Act or the rules and regulations of the Commission.

We are admitted to practice in the State of New York, and we express no opinion as to matters governed by any laws other than the Delaware Limited Liability Company Act, the laws of the State of New York and the Federal laws of the United States of America.

Very truly yours,

/s/ Cravath, Swaine & Moore LLP

Burlington Northern Santa Fe, LLC  
2650 Lou Menk Drive  
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