



e-FILING REPORT COVER SHEET

COMPANY NAME:

DOES REPORT CONTAIN CONFIDENTIAL INFORMATION? No Yes If yes, submit a redacted public version (or a cover letter) by email. Submit the confidential information as directed in OAR 860-001-0070 or the terms of an applicable protective order.

Select report type: RE (Electric) RG (Gas) RW (Water) RT (Telecommunications)
RO (Other, for example, industry safety information)

Did you previously file a similar report? No Yes, report docket number:

Report is required by: OAR
Statute
Order

Note: A one-time submission required by an order is a compliance filing and not a report (file compliance in the applicable docket)

Other
(For example, federal regulations, or requested by Staff)

Is this report associated with a specific docket/case? No Yes, docket number:

List Key Words for this report. We use these to improve search results.

Send the completed Cover Sheet and the Report in an email addressed to PUC.FilingCenter@state.or.us

Send confidential information, voluminous reports, or energy utility Results of Operations Reports to PUC Filing Center, PO Box 1088, Salem, OR 97308-1088 or by delivery service to 201 High Street SE Suite 100, Salem, OR 97301.



8113 W. GRANDRIDGE BLVD., KENNEWICK, WASHINGTON 99336-7166
TELEPHONE 509-734-4500 FACSIMILE 509-737-9803
www.cngc.com

February 21, 2019

Oregon Public Utility Commission
P.O. Box 1088
Salem, OR 97308-1088

RE: 860-027-0175 Annual Reporting of Major Shareholders – RG 56(6)

In compliance with Order 10-462, implementing Rule 860-027-0175, Cascade Natural Gas Corporation (Cascade) provides its annual reporting of Major Shareholders.

Consistent with the Commission's Order 07-221 in Docket UM1283 which approved MDU Resources Group, Inc.'s authorization to purchase Cascade and the ring fencing provisions contained in that Order, Cascade's corporate structure is such that the direct major (and sole) shareholder of Cascade Natural Gas is Prairie Cascade Energy Holdings, LLC. Furthermore, the direct major (and sole) shareholder of Prairie Cascade Energy Holdings, LLC is MDU Energy Capital, LLC which is a wholly owned subsidiary of MDU Resources Group, Inc.

MDU Resources Group, Inc. has 4 entities that meet the definition of major stockholders as outlined in the rules. The following 4 entities have each filed a Form 13G recently stating the percentage of beneficial ownership of each entity in MDU Resources Group, Inc. shares of Common Stock:

The Vanguard Group	10.93%	Investment company
BlackRock, Inc.	9.40%	Investment company
State Street Corporation	6.30%	Investment company

Each entity disclaims having any sole voting power or shared dispositive power regarding the MDU Resources' shares it beneficially owns.

If there are any questions, please feel free to contact me at (509)734-4593.

Sincerely,

Michael Parvinen
Director, Regulatory Affairs

SC 13G/A 1 mduresourcesgroupinc.htm

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Schedule 13G

Under the Securities Exchange Act of 1934

(Amendment No.: 7)*

Name of issuer: MDU Resources Group Inc

Title of Class of Securities: Common Stock

CUSIP Number: 552690109

Date of Event Which Requires Filing of this Statement: December 31, 2018

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

 Rule 13d-1(b) Rule 13d-1(c) Rule 13d-1(d)

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

(Continued on the following page(s))

13G

CUSIP No.: 552690109

1. NAME OF REPORTING PERSON
S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON

The Vanguard Group - 23-1945930

2. CHECK THE APPROPRIATE [LINE] IF A MEMBER OF A GROUP

A. B.
 X

3. SEC USE ONLY

4. CITIZENSHIP OF PLACE OF ORGANIZATION

Pennsylvania

(For questions 5-8, report the number of shares beneficially owned by each reporting person with:)

5. SOLE VOTING POWER

94,745

6. SHARED VOTING POWER

22,519

7. SOLE DISPOSITIVE POWER

21,336,371

8. SHARED DISPOSITIVE POWER

100,527

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

21,436,898

10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES

N/A

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

10.93%

12. TYPE OF REPORTING PERSON

IA

SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549SCHEDULE 13G
Under the Securities Act of 1934

Check the following [line] if a fee is being paid with this statement N/A

Item 1(a) - Name of Issuer:

MDU Resources Group Inc

Item 1(b) - Address of Issuer's Principal Executive Offices:

1200 West Century Avenue
P.O. Box 5650
Bismarck, North Dakota 58506-5650

Item 2(a) - Name of Person Filing:

The Vanguard Group - 23-1945930

Item 2(b) - Address of Principal Business Office or, if none, residence:

100 Vanguard Blvd.
Malvern, PA 19355

Item 2(c) - Citizenship:

Pennsylvania

Item 2(d) - Title of Class of Securities:

Common Stock

Item 2(e) - CUSIP Number

552690109

Item 3 - Type of Filing:

This statement is being filed pursuant to Rule 13d-1. An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E).

Item 4 - Ownership:(a) Amount Beneficially Owned:

21,436,898

(b) Percent of Class:

10.93%

(c) Number of shares as to which such person has:

(i) sole power to vote or direct to vote: 94,745

(ii) shared power to vote or direct to vote: 22,519

(iii) sole power to dispose of or to direct the disposition of: 21,336,371

(iv) shared power to dispose or to direct the disposition of: 100,527

Comments:

Item 5 - Ownership of Five Percent or Less of a Class:

Not Applicable

Item 6 - Ownership of More Than Five Percent on Behalf of Another Person:

Not applicable

Item 7 - Identification and Classification of the Subsidiary Which Acquired The Security Being Reported on by the Parent Holding Company:

See Attached Appendix A

Item 8 - Identification and Classification of Members of Group:

Not applicable

Item 9 - Notice of Dissolution of Group:

Not applicable

Item 10 - Certification:

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired in the ordinary course of business and were not acquired for the purpose of and do not have the effect of changing or influencing the control of the issuer of such securities and were not acquired in connection with or as a participant in any transaction having such purpose or effect.

Signature

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: 02/11/2019

By /s/ Christine M. Buchanan
Name: Christine M. Buchanan
Title: Principal

Appendix A

Vanguard Fiduciary Trust Company ("VFTC"), a wholly-owned subsidiary of The Vanguard Group, Inc., is the beneficial owner of 74,426 shares or .03% of the Common Stock outstanding of the Company as a result of its serving as investment manager of collective trust accounts.

Vanguard Investments Australia, Ltd. ("VIA"), a wholly-owned subsidiary of The Vanguard Group, Inc., is the beneficial owner of 42,838 shares or .02% of the Common Stock outstanding of the Company as a result of its serving as investment manager of Australian investment offerings.

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SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13G

Under the Securities Exchange Act of 1934

(Amendment No: 9)

MDU RESOURCES GROUP INC

(Name of Issuer)

Common Stock

(Title of Class of Securities)

552690109

(CUSIP Number)

December 31, 2018

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- Rule 13d-1(b)
- Rule 13d-1(c)
- Rule 13d-1(d)

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

CUSIP No. 552690109

(1)Names of reporting persons. BlackRock, Inc.

(2) Check the appropriate box if a member of a group

- (a) []
- (b) [X]

(3) SEC use only

(4) Citizenship or place of organization

Delaware

Number of shares beneficially owned by each reporting person with:

(5) Sole voting power

17339702

(6) Shared voting power

0

(7) Sole dispositive power

18376417

(8) Shared dispositive power

0

(9) Aggregate amount beneficially owned by each reporting person

18376417

(10) Check if the aggregate amount in Row (9) excludes certain shares

(11) Percent of class represented by amount in Row 9

9.4%

(12) Type of reporting person

HC

Item 1.

Item 1(a) Name of issuer:

MDU RESOURCES GROUP INC

Item 1(b) Address of issuer's principal executive offices:

1200 WEST CENTURY AVENUE
BISMARCK ND 58503

Item 2.

2(a) Name of person filing:

BlackRock, Inc.

2(b) Address or principal business office or, if none, residence:

BlackRock, Inc.
55 East 52nd Street
New York, NY 10055

2(c) Citizenship:

See Item 4 of Cover Page

2(d) Title of class of securities:

Common Stock

2(e) CUSIP No.:

See Cover Page

Item 3.

If this statement is filed pursuant to Rules 13d-1(b), or 13d-2(b) or (c), check whether the person filing is a:

- Broker or dealer registered under Section 15 of the Act;
- Bank as defined in Section 3(a)(6) of the Act;
- Insurance company as defined in Section 3(a)(19) of the Act;
- Investment company registered under Section 8 of the Investment Company Act of 1940;
- An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E);
- An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F);
- A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G);
- A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940;
- A non-U.S. institution in accordance with Rule 240.13d-1(b)(1)(ii)(J);
- Group, in accordance with Rule 240.13d-1(b)(1)(ii)(K). If filing as a non-U.S. institution in accordance with Rule 240.13d-1(b)(1)(ii)(J), please specify the type of institution:

Item 4. Ownership

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

Amount beneficially owned:

18376417

Percent of class

9.4%

Number of shares as to which such person has:

Sole power to vote or to direct the vote

17339702

Shared power to vote or to direct the vote

0

Sole power to dispose or to direct the disposition of

18376417

Shared power to dispose or to direct the disposition of

0

Item 5.

Ownership of 5 Percent or Less of a Class. If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than 5 percent of the class of securities, check the following [].

Item 6. Ownership of More than 5 Percent on Behalf of Another Person

If any other person is known to have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, such securities, a statement to that effect should be included in response to this item and, if such interest relates to more than 5 percent of the class, such person should be identified. A listing of the shareholders of an investment company registered under the Investment Company Act of 1940 or the beneficiaries of employee benefit plan, pension fund or endowment fund is not required.

Various persons have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of the common stock of MDU RESOURCES GROUP INC. No one person's interest in the common stock of MDU RESOURCES GROUP INC is more than five percent of the total outstanding common shares.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company or Control Person.

See Exhibit A

Item 8. Identification and Classification of Members of the Group

If a group has filed this schedule pursuant to Rule 13d-1(b)(ii)(J), so indicate under Item 3(j) and attach an exhibit stating the identity and Item 3 classification of each member of the group. If a group has filed this schedule pursuant to Rule 13d-1(c) or Rule 13d-1(d), attach an exhibit stating the identity of each member of the group.

Item 9. Notice of Dissolution of Group

Notice of dissolution of a group may be furnished as an exhibit stating the date of the dissolution and that all further filings with respect to transactions in the security reported on will be filed, if required, by members of the group, in their individual capacity.

See Item 5.

Item 10. Certifications

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

Signature.

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Dated: February 5, 2019
BlackRock, Inc.

Signature: Spencer Fleming

Name/Title Attorney-In-Fact

The original statement shall be signed by each person on whose behalf the statement is filed or his authorized representative. If the statement is signed on behalf of a person by his authorized representative other than an executive officer or general partner of the filing person, evidence of the representative's authority to sign on behalf of such person shall be filed with the statement, provided, however, that a power of attorney for this purpose which is already on file with the Commission may be incorporated by reference. The name and any title of each person who signs the statement shall be typed or printed beneath his signature.

Attention: Intentional misstatements or omissions of fact constitute Federal criminal violations (see 18 U.S.C. 1001).

Exhibit A

Subsidiary

BlackRock Life Limited
BlackRock International Limited
BlackRock Advisors, LLC
BlackRock (Netherlands) B.V.
BlackRock Fund Advisors*
BlackRock Institutional Trust Company, National Association
BlackRock Asset Management Ireland Limited
BlackRock Financial Management, Inc.
BlackRock Asset Management Schweiz AG
BlackRock Investment Management, LLC
BlackRock Investment Management (UK) Limited
BlackRock Asset Management Canada Limited
BlackRock (Luxembourg) S.A.
BlackRock Investment Management (Australia) Limited
BlackRock Advisors (UK) Limited
BlackRock Asset Management North Asia Limited
BlackRock Fund Managers Ltd

*Entity beneficially owns 5% or greater of the outstanding shares of the security class being reported on this Schedule 13G.

Exhibit B

POWER OF ATTORNEY

The undersigned, BLACKROCK, INC., a corporation duly organized under the laws of the State of Delaware, United States (the "Company"), does hereby make, constitute and appoint each of Christopher Meade, Daniel Waltcher, Una Neary, Richard Cundiff, Charles Park, Enda McMahon, Arlene Klein, Con Tzatzakis, Karen Clark, David Maryles, Daniel Ronnen, John Stelley, Daniel Riemer, Elizabeth Kogut, Maureen Gleeson, Daniel Kalish and Spencer Fleming acting severally, as its true and lawful attorneys-in-fact, for the purpose of, from time to time, executing in its name and on its behalf, whether the Company individually or as representative of others, any and all documents, is acting certificates, instruments, statements, other filings and amendments to the foregoing (collectively, "documents") determined by such person to be necessary or appropriate to comply with ownership or control-person reporting requirements imposed by any United States or non-United States governmental or regulatory authority, including without limitation Forms 3, 4, 5, 13D, 13F, 13G and 13H and any amendments to any of the foregoing as may be required to be filed with the Securities and Exchange Commission, and delivering, furnishing or filing any such documents with the appropriate governmental, regulatory authority or other person, and giving and granting to each such attorney-in-fact power and authority to act in the premises as fully and to all intents and purposes as the Company might or could do if personally present by one of its authorized signatories, hereby ratifying and confirming all that said attorney-in-fact shall lawfully do or cause to be done by virtue hereof. Any such determination by an attorney-in-fact named herein shall be conclusively evidenced by such person's execution, delivery, furnishing or filing of the applicable document.

This power of attorney shall expressly revoke the power of attorney

dated 8th day of December, 2015 in respect of the subject matter hereof, shall be valid from the date hereof and shall remain in full force and effect until either revoked in writing by the Company, or, in respect of any attorney-in-fact named herein, until such person ceases to be an employee of the Company or one of its affiliates.

IN WITNESS WHEREOF, the undersigned has caused this power of attorney to be executed as of this 2nd day of January, 2019.

BLACKROCK, INC.

By: /s/ Daniel Waltcher
Name: Daniel Waltcher
Title: Deputy General Counsel

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UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934
ANNUAL FILING

MDU Resources Group, Inc.
(NAME OF ISSUER)
COMMON STOCK
(TITLE OF CLASS OF SECURITIES)
552690109
(CUSIP NUMBER)
12/31/2018
(DATE OF EVENT WHICH REQUIRES FILING OF THIS STATEMENT)

CHECK THE APPROPRIATE BOX TO DESIGNATE THE RULE PURSUANT TO WHICH THIS
SCHEDULE IS FILED:

- (X) RULE 13D-1 (B)
 () RULE 13D-1 (C)
 () RULE 13D-1 (D)

*THE REMAINDER OF THIS COVER PAGE SHALL BE FILLED OUT FOR A
REPORTING PERSON'S INITIAL FILING ON THIS FORM WITH RESPECT TO THE
SUBJECT CLASS OF SECURITIES, AND FOR ANY SUBSEQUENT AMENDMENT
CONTAINING INFORMATION WHICH WOULD ALTER THE DISCLOSURES PROVIDED
IN A PRIOR COVER PAGE.

THE INFORMATION REQUIRED IN THE REMAINDER OF THIS COVER PAGE SHALL
NOT BE DEEMED TO BE "FILED" FOR THE PURPOSE OF SECTION 18 OF THE
SECURITIES EXCHANGE ACT OF 1934 ("ACT") OR OTHERWISE SUBJECT TO THE
LIABILITIES OF THAT SECTION OF THE ACT BUT SHALL BE SUBJECT TO ALL
OTHER PROVISIONS OF THE ACT (HOWEVER, SEE THE NOTES).

CUSIP NO: 552690109 13G Page 2 of 5 Pages

1. NAME OF REPORTING PERSON: STATE STREET CORPORATION
I.R.S. IDENTIFICATION NO. OF THE ABOVE PERSON: 04-2456637
2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP

NOT APPLICABLE
3. SEC USE ONLY
4. CITIZENSHIP OR PLACE OF ORGANIZATION

BOSTON, MASSACHUSETTS
5. SOLE VOTING POWER

0 SHARES

6. SHARED VOTING POWER
12127199
7. SOLE DISPOSITIVE POWER
0 SHARES
8. SHARED DISPOSITIVE POWER
12377612
9. AGGREGATED AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
12377612
10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES
NOT APPLICABLE
11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9
6.3%
12. TYPE OF REPORTING PERSON
HC

CUSIP NO: 552690109 13G Page 3 of 5 Pages

ITEM 1.

(A) NAME OF ISSUER

MDU Resources Group, Inc.

(B) ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES

1200 West Century Avenue Bismarck, ND 58503 United States

ITEM 2.

(A) NAME OF PERSON FILING

STATE STREET CORPORATION AND ANY OTHER REPORTING PERSON
IDENTIFIED ON THE SECOND PART OF THE COVER PAGES HERETO

(B) ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IN NONE,
RESIDENCE

STATE STREET FINANCIAL CENTER
ONE LINCOLN STREET
BOSTON, MA 02111

(FOR ALL REPORTING PERSONS)

(C) CITIZENSHIP: SEE ITEM 4 (CITIZENSHIP OR PLACE OF
ORGANIZATION) OF COVER PAGES(D) TITLE OF CLASS OF SECURITIES
COMMON STOCK(E) CUSIP NUMBER:
552690109

ITEM 3.

IF THIS STATEMENT IS FILED PURSUANT TO RULE 13D-1(B), OR 13D-2(B)
OR (C), CHECK WHETHER THE PERSON FILING IS A:
SEE ITEM 12(TYPE OF REPORTING PERSON) OF THE COVER PAGE
FOR EACH REPORTING PERSON AND THE TABLE BELOW, WHICH EXPLAINS
THE MEANING OF THE TWO LETTER SYMBOLS APPEARING IN ITEM 12 OF
THE COVER PAGES.

SYMBOL	CATEGORY
BK	BANK AS DEFINED IN SECTION 3(A) (6) OF THE ACT.
IC	INSURANCE COMPANY AS DEFINED IN SECTION 3 (A) (19) OF THE ACT

IC INVESTMENT COMPANY REGISTERED UNDER SECTION 8 OF THE INVESTMENT COMPANY ACT OF 1940.

IA AN INVESTMENT ADVISOR IN ACCORDANCE WITH RULE 13D-1(B) (1) (II) (E).

EP AN EMPLOYEE BENEFIT PLAN OR ENDOWMENT FUND IN ACCORDANCE WITH RULE 13D-1(B) (1) (II) (F) .

HC A PARENT HOLDING COMPANY OR CONTROL PERSON IN ACCORDANCE WITH RULE 13D-1(B)(1)(II) (G).

SA A SAVINGS ASSOCIATIONS AS DEFINED IN SECTION 3(B) OF THE FEDERAL DEPOSIT INSURANCE ACT (12 U.S.C. 1813).

CP A CHURCH PLAN THAT IS EXCLUDED FROM THE DEFINITION OF AN INVESTMENT COMPANY UNDER SECTION 3(C)(14) OF THE INVESTMENT COMPANY ACT OF 1940.

CUSIP NO: 552690109 13G Page 4 of 5 Pages

- ITEM 4. OWNERSHIP
THE INFORMATION SET FORTH IN ROWS 5 THROUGH 11 OF THE COVER PAGE HERETO FOR EACH OF THE REPORTING PERSONS IS INCORPORATED HEREIN BY REFERENCE.
- ITEM 5. OWNERSHIP OF FIVE PERCENT OR LESS OF CLASS
NOT APPLICABLE
- ITEM 6. OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON
NOT APPLICABLE
- ITEM 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING COMPANY OR CONTROL PERSON
SEE EXHIBIT 1 ATTACHED HERETO
- ITEM 8. IDENTIFICATION AND CLASSIFICATION OF MEMEBERS OF THE GROUP
NOT APPLICABLE
- ITEM 9. NOTICE OF DISSOLUTION OF GROUP
NOT APPLICABLE

CUSIP NO: 552690109 13G

Page 5 of 5 Pages

ITEM 10. CERTIFICATION

BY SIGNING BELOW I CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE SECURITIES REFERRED TO ABOVE WERE ACQUIRED AND ARE HELD IN THE ORDINARY COURSE OF BUSINESS AND WERE NOT ACQUIRED AND ARE NOT HELD FOR THE PURPOSE OR WITH THE EFFECT OF CHANGING OR INFLUENCING THE CONTROL OF THE ISSUER OF THE SECURITIES AND WERE NOT ACQUIRED AND ARE NOT HELD IN CONNECTION WITH OR AS A PARTICIPANT IN ANY TRANSACTION HAVING THAT PURPOSE OR EFFECT.

SIGNATURES

AFTER REASONABLE INQUIRY AND TO THE BEST OF HIS KNOWLEDGE AND BELIEF, EACH OF THE UNDERSIGNED CERTIFIES THAT THE INFORMATION SET FORTH IN THIS STATEMENT IS TRUE, COMPLETE AND CORRECT.

FEBRUARY 11, 2019
STATE STREET CORPORATION

/S/ IAN W APPLEYARD
GLOBAL CONTROLLER AND CHIEF ACCOUNTING OFFICER

EXHIBIT 1

THE FOLLOWING TABLE LISTS THE IDENTITY AND ITEM 3 CLASSIFICATION OF EACH SUBSIDIARY OF STATE STREET CORPORATION, THE PARENT HOLDING COMPANY, THAT BENEFICIALLY OWNS THE ISSUER'S SECURITIES. PLEASE REFER TO ITEM 3 OF THE ATTACHED SCHEDULE 13G FOR A DESCRIPTION OF EACH OF THE TWO-LETTER SYMBOLS REPRESENTING THE ITEM 3 CLASSIFICATION BELOW.

SUBSIDIARY	ITEM 3 CLASSIFICATION
SSGA FUNDS MANAGEMENT, INC.	IA
STATE STREET GLOBAL ADVISORS LIMITED (UK)	IA
STATE STREET GLOBAL ADVISORS LTD (CANADA)	IA
STATE STREET GLOBAL ADVISORS, AUSTRALIA LIMITED	IA
STATE STREET GLOBAL ADVISORS ASIA LTD	IA
STATE STREET GLOBAL ADVISORS SINGAPORE LTD	IA
STATE STREET GLOBAL ADVISORS GmbH	IA
STATE STREET GLOBAL ADVISORS IRELAND LIMITED	IA
STATE STREET GLOBAL ADVISORS TRUST COMPANY	IA

NOTE: ALL OF THE LEGAL ENTITIES ABOVE ARE DIRECT OR INDIRECT SUBSIDIARIES OF STATE STREET CORPORATION.

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