

Original

RIPUC Use Only

Date Application Received: ____/____/____
Date Review Completed: ____/____/____
Date Commission Action: ____/____/____
Date Commission Approved: ____/____/____

GIS Certification #:

RENEWABLE ENERGY RESOURCES ELIGIBILITY FORM

**The Standard Application Form
Required of all Applicants for Certification of Eligibility of Renewable Energy Resource
(Version 8 – December 5, 2012)**

**STATE OF RHODE ISLAND PUBLIC UTILITIES COMMISSION
Pursuant to the Renewable Energy Act
Section 39-26-1 et. seq. of the General Laws of Rhode Island**

NOTICE:

When completing this Renewable Energy Resources Eligibility Form and any applicable Appendices, please refer to the State of Rhode Island and Providence Plantations Public Utilities Commission Rules and Regulations Governing the Implementation of a Renewable Energy Standard (RES Regulations, Effective Date: January 1, 2006), and the associated RES Certification Filing Methodology Guide. All applicable regulations, procedures and guidelines are available on the Commission's web site: www.ripuc.org/utilityinfo/res.html. Also, all filings must be in conformance with the Commission's Rules of Practice and Procedure, in particular, Rule 1.5, or its successor regulation, entitled "Formal Requirements as to Filings."

- Please complete the Renewable Energy Resources Eligibility Form and Appendices using a typewriter or black ink.
- Please submit one original and three copies of the completed Application Form, applicable Appendices and all supporting documentation to the Commission at the following address:
Rhode Island Public Utilities Commission
Attn: Luly E. Massaro, Commission Clerk
89 Jefferson Blvd
Warwick, RI 02888

In addition to the paper copies, electronic/email submittals are required under Commission regulations. Such electronic submittals should be sent to Res.filings@puc.ri.gov.

- In addition to filing with the Commission, Applicants are required to send, electronically or electronically and in paper format, a copy of the completed Application including all attachments and supporting documentation, to the Division of Public Utilities and Carriers and to all interested parties. A list of interested parties can be obtained from the Commission's website at www.ripuc.org/utilityinfo/res.html.
- Keep a copy of the completed Application for your records.
- The Commission will notify the Authorized Representative if the Application is incomplete.
- Pursuant to Section 6.0 of the RES Regulations, the Commission shall provide a thirty (30) day period for public comment following posting of any administratively complete Application.
- Please note that all information submitted on or attached to the Application is considered to be a public record unless the Commission agrees to deem some portion of the application confidential after consideration under section 1.2(g) of the Commission's Rules of Practice and Procedure.
- In accordance with Section 6.2 of the RES Regulations, the Commission will provide prospective reviews for Applicants seeking a preliminary determination as to whether a facility would be eligible prior to the formal certification process described in Section 6.1 of the RES Regulations. Please note that space is provided on the Form for applicant to designate the type of review being requested.
- Questions related to this Renewable Energy Resources Eligibility Form should be submitted in writing, preferably via email and directed to: Luly E. Massaro, Commission Clerk at Res.filings@puc.ri.gov.

SECTION I: Identification Information

1.1 Name of Generation Unit (sufficient for full and unique identification):

Woods Hill Solar, LLC

1.2 Type of Certification being requested (check one):

☒ Standard Certification ☐ Prospective Certification (Declaratory Judgment)

1.3 This Application includes: (Check all that apply)¹

- ☐ APPENDIX A: Authorized Representative Certification for Individual Owner or Operator
- ☐ APPENDIX B: Authorized Representative Certification for Non-Corporate Entities Other Than Individuals
- ☐ APPENDIX C: Existing Renewable Energy Resources
- ☐ APPENDIX D: Special Provisions for Aggregators of Customer-sited or Off-grid Generation Facilities
- ☐ APPENDIX E: Special Provisions for a Generation Unit Located in a Control Area Adjacent to NEPOOL
- ☐ APPENDIX F: Fuel Source Plan for Eligible Biomass Fuels

1.4 Primary Contact Person name and title: Steve Hickey, Manager

1.5 Primary Contact Person address and contact information:

Address: Enel Green Power North America, Inc.

100 Brickstone Square Suite 300

Andover, MA 01810

Phone: 978-409-9712

Fax: _____

Email: Steve.hickey@enel.com

1.6 Backup Contact Person name and title: Mark McBrail, AVP

1.7 Backup Contact Person address and contact information:

Address: Enel Green Power North America, Inc.

100 Brickstone Square Suite 300

Andover, MA 01810

Phone: 508 889 5868

Fax: _____

Email: mark.mcbrail@enel.com

¹ Please note that all Applicants are required to complete the Renewable Energy Resources Eligibility Standard Application Form and all of the Appendices that apply to the Generation Unit or Owner or Operator that is the subject of this Form. Please omit Appendices that do not apply.

- 1.8 Name and Title of Authorized Representative (i.e., the individual responsible for certifying the accuracy of all information contained in this form and associated appendices, and whose signature will appear on the application):

Mark Mcbrail, AVP

Appendix A or B (as appropriate) completed and attached? ☐ Yes ☐ No ☒ N/A

Corporate certification attached

- 1.9 Authorized Representative address and contact information:

Address: Woods Hill Solar, LLC

c/o Enel Green Power North America 100 Brickstone Square, Suite 300
Andover, MA 01810

Phone: 508-889-5868

Fax: _____

Email: Mark.mcgrail@enel.com

- 1.10 Owner name and title: Woods Hill Solar, LLC

- 1.11 Owner address and contact information:

Address: c/o Enel Green Power North America, Inc. ATTN Mark Mcbrail, AVP
100 Brickstone Square, Suite 300
Andover, MA 01810

Phone: 508-889-5868

Fax: _____

Email: mark.mcgrail@enel.com

- 1.12 Owner business organization type (check one):

- ☐ Individual
☐ Partnership
☒ Corporation
☐ Other: _____

- 1.13 Operator name and title: Enel Green Power North America, Inc. Control Monitoring Room

- 1.14 Operator address and contact information:

Address: Enel Green Power North America, Inc. Control Monitoring Room
100 Brickstone Square Suite 300
Andover, MA 01810

Phone: 978-686-4386

Fax: _____

Email: market.operations@enel.com

- 1.15 Operator business organization type (check one):

- ☐ Individual
☐ Partnership
☒ Corporation
☐ Other: _____

SECTION II: Generation Unit Information, Fuels, Energy Resources and Technologies

- 2.1 ISO-NE Generation Unit Asset Identification Number or NEPOOL GIS Identification Number (either or both as applicable): MSS 49370
- 2.2 Generation Unit Nameplate Capacity: 20 MW
- 2.3 Maximum Demonstrated Capacity: 20 MW
- 2.4 Please indicate which of the following Eligible Renewable Energy Resources are used by the Generation Unit: (Check ALL that apply) – *per RES Regulations Section 5.0*
- ☒ Direct solar radiation
 - ☐ The wind
 - ☐ Movement of or the latent heat of the ocean
 - ☐ The heat of the earth
 - ☐ Small hydro facilities
 - ☐ Biomass facilities using Eligible Biomass Fuels and maintaining compliance with all aspects of current air permits; Eligible Biomass Fuels may be co-fired with fossil fuels, provided that only the renewable energy fraction of production from multi-fuel facilities shall be considered eligible.
 - ☐ Biomass facilities using unlisted biomass fuel
 - ☐ Biomass facilities, multi-fueled or using fossil fuel co-firing
 - ☐ Fuel cells using a renewable resource referenced in this section
- 2.5 If the box checked in Section 2.4 above is “Small hydro facilities”, please certify that the facility’s aggregate capacity does not exceed 30 MW. – *per RES Regulations Section 3.32*
- ☐ ← check this box to certify that the above statement is true
 - ☐ N/A or other (please explain) _____
- 2.6 If the box checked in Section 2.4 above is “Small hydro facilities”, please certify that the facility does not involve any new impoundment or diversion of water with an average salinity of twenty (20) parts per thousand or less. – *per RES Regulations Section 3.32*
- ☐ ← check this box to certify that the above statement is true
 - ☐ N/A or other (please explain) _____
- 2.7 If you checked one of the Biomass facilities boxes in Section 2.4 above, please respond to the following:
- A. Please specify the fuel or fuels used or to be used in the Unit: _____
- B. Please complete and attach Appendix F, Eligible Biomass Fuel Source Plan.
- Appendix F completed and attached? ☐ Yes ☐ No ☐ N/A

- 2.8 Has the Generation Unit been certified as a Renewable Energy Resource for eligibility in another state's renewable portfolio standard?

☐ Yes ☒ No If yes, please attach a copy of that state's certifying order.

Copy of State's certifying order attached? ☐ Yes ☐ No ☐ N/A

SECTION III: Commercial Operation Date

Please provide documentation to support all claims and responses to the following questions:

- 3.1 Date Generation Unit first entered Commercial Operation: 12 / 30 / 17 at the site.

If the commercial operation date is after December 31, 1997, please provide independent verification, such as the utility log or metering data, showing that the meter first spun after December 31, 1997. This is needed in order to verify that the facility qualifies as a New Renewable Energy Resource.

Documentation attached? ☐ Yes ☐ No ☐ N/A

- 3.2 Is there an Existing Renewable Energy Resource located at the site of Generation Unit?

☐ Yes

☒ No

- 3.3 If the date entered in response to question 3.1 is earlier than December 31, 1997 or if you checked "Yes" in response to question 3.2 above, please complete Appendix C.

Appendix C completed and attached? ☐ Yes ☐ No ☒ N/A

- 3.4 Was all or any part of the Generation Unit used on or before December 31, 1997 to generate electricity at any other site?

☐ Yes

☒ No

- 3.5 If you checked "Yes" to question 3.4 above, please specify the power production equipment used and the address where such power production equipment produced electricity (attach more detail if the space provided is not sufficient):

SECTION IV: Metering

- 4.1 Please indicate how the Generation Unit's electrical energy output is verified (check all that apply):

☒ ISO-NE Market Settlement System

☐ Self-reported to the NEPOOL GIS Administrator

☐ Other (please specify below and see Appendix D: Eligibility for Aggregations):

Appendix D completed and attached?

☐ Yes ☐ No ☐ N/A

SECTION V: Location

5.1 Please check one of the following that apply to the Generation Unit:

- ☒ Grid Connected Generation
☐ Off-Grid Generation (not connected to a utility transmission or distribution system)
☐ Customer Sited Generation (interconnected on the end-use customer side of the retail electricity meter in such a manner that it displaces all or part of the metered consumption of the end-use customer)

5.2 Generation Unit address:

90 Woods Hill Rd.
Pomfret, CT 06259

5.3 Please provide the Generation Unit's geographic location information:

- A. Universal Transverse Mercator Coordinates: 257274.63 (E) 4635426.50(N) 19T
B. Longitude/Latitude: -71.923094 / 41.833543

5.4 The Generation Unit located: (please check the appropriate box)

- ☒ In the NEPOOL control area
☐ In a control area adjacent to the NEPOOL control area
☐ In a control area other than NEPOOL which is not adjacent to the NEPOOL control area ← If you checked this box, then the generator does not qualify for the RI RES – therefore, please do not complete/submit this form.

5.5 If you checked "In a control area adjacent to the NEPOOL control area" in Section 5.4 above, please complete Appendix E.

Appendix E completed and attached?

☐ Yes ☐ No ☐ N/A

SECTION VI: Certification

- 6.1 Please attach documentation, using one of the applicable forms below, demonstrating the authority of the Authorized Representative indicated in Section 1.8 to certify and submit this Application.

Corporations

If the Owner or Operator is a corporation, the Authorized Representative shall provide **either**:

- (a) Evidence of a board of directors vote granting authority to the Authorized Representative to execute the Renewable Energy Resources Eligibility Form, **or**
- (b) A certification from the Corporate Clerk or Secretary of the Corporation that the Authorized Representative is authorized to execute the Renewable Energy Resources Eligibility Form or is otherwise authorized to legally bind the corporation in like matters.

Evidence of Board Vote provided?

☐ Yes ☐ No ☐ N/A

Corporate Certification provided?

☒ Yes ☐ No ☐ N/A

Individuals

If the Owner or Operator is an individual, that individual shall complete and attach APPENDIX A, or a similar form of certification from the Owner or Operator, duly notarized, that certifies that the Authorized Representative has authority to execute the Renewable Energy Resources Eligibility Form.

Appendix A completed and attached?

☐ Yes ☐ No ☒ N/A

Non-Corporate Entities

(Proprietorships, Partnerships, Cooperatives, etc.) If the Owner or Operator is not an individual or a corporation, it shall complete and attach APPENDIX B or execute a resolution indicating that the Authorized Representative named in Section 1.8 has authority to execute the Renewable Energy Resources Eligibility Form or to otherwise legally bind the non-corporate entity in like matters.

Appendix B completed and attached?

☐ Yes ☐ No ☒ N/A

6.2 Authorized Representative Certification and Signature:

I hereby certify, under pains and penalties of perjury, that I have personally examined and am familiar with the information submitted herein and based upon my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties, both civil and criminal, for submitting false information, including possible fines and punishment. My signature below certifies all information submitted on this Renewable Energy Resources Eligibility Form. The Renewable Energy Resources Eligibility Form includes the Standard Application Form and all required Appendices and attachments. I acknowledge that the Generation Unit is obligated to and will notify the Commission promptly in the event of a change in a generator's eligibility status (including, without limitation, the status of the air permits) and that when and if, in the Commission's opinion, after due consideration, there is a material change in the characteristics of a Generation Unit or its fuel stream that could alter its eligibility, such Generation Unit must be re-certified in accordance with Section 9.0 of the RES Regulations. I further acknowledge that the Generation Unit is obligated to and will file such quarterly or other reports as required by the Regulations and the Commission in its certification order. I understand that the Generation Unit will be immediately de-certified if it fails to file such reports.

Signature of Authorized Representative:

SIGNATURE:



AVP ENERGY MANAGEMENT
(Title)

DATE:



4/11/18



Woods Hill Solar, LLC
A Subsidiary of Enel Green Power North America, Inc.
100 Brickstone Square, Suite 300 – Andover, MA 01810 – USA
T +1 978 681 1900

April 10, 2018

Dear Rhode Island Public Utilities Commission,

I do hereby certify that Mark McGrail, AVP of Enel Green Power North America, Inc., which owns all of the membership interests in Woods Hill Solar, LLC, the owner and operator of the Woods Hill Solar Project in Pomfret, CT, is authorized to execute the Renewable Energy Resources Eligibility Form submitted for qualification of the Woods Hill Solar Project as a New Renewable Energy Resource in the State of Rhode Island.

A handwritten signature in black ink, appearing to read "Megan J. Beauregard", written over the printed name.

Megan J. Beauregard
General Counsel, Secretary and AVP
Legal and Corporate Affairs
Enel Green Power North America, Inc.
100 Brickstone Square, Ste 300
Andover, MA 01810

GIS Certification #:

APPENDIX A
(Required When Owner or Operator is An Individual)

STATE OF RHODE ISLAND
PUBLIC UTILITIES COMMISSION

RENEWABLE ENERGY RESOURCES ELIGIBILITY FORM

Pursuant to the Renewable Energy Act
Section 39-26-1 et. seq. of the General Laws of Rhode Island

I, _____, as Owner or Operator of the Generation Unit
named in Section 1.1 of the attached Renewable Energy Resources Eligibility Form, under the
pains and penalties of perjury, hereby certify that _____,
named in Section 1.8 of the attached Application, is authorized to execute this Renewable
Energy Resource Eligibility Form.

SIGNATURE:

DATE:

(Title)

State: _____

County: _____

(TO BE COMPLETED BY NOTARY) I, _____ as a
notary public, certify that I witnessed the signature of the above named _____,
and said individual verified his/her identity to me on this date: _____.

SIGNATURE:

My commission expires on: _____

NOTARY SEAL:

APPENDIX B
(Required When Owner or Operator is a Non-Corporate Entity
Other Than An Individual)

STATE OF RHODE ISLAND
PUBLIC UTILITIES COMMISSION

RENEWABLE ENERGY RESOURCES ELIGIBILITY FORM

Pursuant to the Renewable Energy Act
Section 39-26-1 et. seq. of the General Laws of Rhode Island

RESOLUTION OF AUTHORIZATION

Resolved: that _____, named in
Section 1.8 of the Renewable Energy Resources Eligibility Form as Authorized Representative,
is authorized to execute the Application on the behalf of _____,
the Owner or Operator of the Generation Unit named in section 1.1 of the Application.

SIGNATURE:

DATE:

State: _____

County: _____

(TO BE COMPLETED BY NOTARY) I, _____ as a
notary public, certify that I witnessed the signature of the above named _____,
and that said person stated that he/she is authorized to execute this resolution, and the individual
verified his/her identity to me, on this date: _____.

SIGNATURE:

DATE:

My commission expires on: _____

NOTARY SEAL:

**APPENDIX C
(Revised 6/11/10)****(Required of all Applicants with Generation Units at the Site of Existing
Renewable Energy Resources)****STATE OF RHODE ISLAND
PUBLIC UTILITIES COMMISSION****RENEWABLE ENERGY RESOURCES ELIGIBILITY FORM****Pursuant to the Renewable Energy Act
Section 39-26-1 et. seq. of the General Laws of Rhode Island**

If the Generation Unit: (1) first entered into commercial operation before December 31, 1997; or
(2) is located at the exact site of an Existing Renewable Energy Resource, please complete the
following and attach documentation, as necessary to support all responses:

- C.1 Is the Generating Unit seeking certification, either in whole or in part, as a New
Renewable Energy Resource? ☐ Yes ☐ No
- C.2 If you answered "Yes" to question C.1, please complete the remainder of Appendix C. If
you answered "No" and are seeking certification entirely as an Existing Renewable
Energy Resource, you do NOT need to complete the remainder of Appendix C.
- C.3 If an Existing Renewable Energy Resource is/was located at the site, has such Existing
Renewable Energy Resource been retired and replaced with the new Generation Unit at
the same site? ☐ Yes ☐ No
- C.4 Is the Generation Unit a Repowered Generation Unit (as defined in Section 3.29 of the
RES Regulations) which uses Eligible Renewable Energy Resources and which first
entered commercial operation after December 31, 1997 at the site of an existing
Generation Unit? ☐ Yes ☐ No
- C.5 If you checked "Yes" to question C.4 above, please provide documentation to support
that the entire output of the Repowered Generation Unit first entered commercial
operation after December 31, 1997.
- C.6 Is the Generation Unit a multi-fuel facility in which an Eligible Biomass Fuel is first co-
fired with fossil fuels after December 31, 1997? ☐ Yes ☐ No

- C.7 If you checked "Yes" to question C.6 above, please provide documentation to support that the renewable energy fraction of the energy output first occurred after December 31, 1997.
- C.8 Is the Generation Unit an Existing Renewable Energy Resource other than an Intermittent Resource (as defined in Sections 3.10 and 3.15 of the RES Regulations)? ☐ Yes ☐ No
- C.9 If you checked "Yes" to question C.8 above, please attach evidence of completed capital investments after December 31, 1997 attributable to efficiency improvements or additions of capacity that are sufficient to, were intended to, and can be demonstrated to increase annual electricity output in excess of ten percent (10%). As specified in Section 3.23.v of the RES Regulations, the determination of incremental production shall not be based on any operational changes at such facility **not directly** associated with the efficiency improvements or additions of capacity.

Please provide the single proposed percentage of production to be deemed incremental, attributable to the efficiency improvements or additions of capacity placed in service after December 31, 1997. Please make this calculation by comparing actual electrical output over the three calendar years 1995-1997 (the "Historical Generation Baseline") with the actual output following the improvements. The incremental production above the Historical Generation Baseline will be considered "New" generation for the purposes of RES. Please give the percentage of the facility's total output that qualifies as such to be considered "New" generation.

- C.10 Is the Generating Unit an Existing Renewable Energy Resource that is an Intermittent Resource? ☐ Yes ☐ No
- C.11 If you checked "Yes" to question C.10 above, please attach evidence of completed capital investments after December 31, 1997 attributable to efficiency improvements or additions of capacity that are sufficient to, were intended to, and have demonstrated on a normalized basis to increase annual electricity output in excess of ten percent (10%). The determination of incremental production shall not be based on any operational changes at such facility **not directly** associated with the efficiency improvements or additions of capacity. In no event shall any production that would have existed during the Historical Generation Baseline period in the absence of the efficiency improvements or additions to capacity be considered incremental production. Please refer to Section 3.23.vi of the RES Regulations for further guidance.
- C.12 If you checked "Yes" to C.10, provide the single proposed percentage of production to be deemed incremental, attributable to the efficiency improvements or additions of capacity placed in service after December 31, 1997. The incremental production above the Historical Generation Baseline will be considered "New" generation for the purposes of RES. Please make this calculation by comparing actual monthly electrical output over the three calendar years 1995-1997 (the "Historical Generation Baseline") with the actual output following the improvements on a normalized basis. Please provide back-up

information sufficient for the Commission to make a determination of this incremental production percentage.

For example, for small hydro facilities, please use historical river flow data to create a monthly normalized comparison (e.g. average MWh produced per cubic foot/second of river flow for each month) between actual output values post-improvements with the Historical Generation Baseline. For solar and wind facilities, please use historical solar irradiation, wind flow, or other applicable data to normalize the facility's current production against the Historical Generation Baseline.

C.13 If you checked "no" to both C.3 and C.4 above, please complete the following:

- a. Was the Existing Renewable Energy Resource located at the exact site at any time during calendar years 1995 through 1997? ☐ Yes ☐ No
- b. If you checked "yes" in Subsection (a) above, please provide the Generation Unit Asset Identification Number and the average annual electrical production (MWhs) for the three calendar years 1995 through 1997, or for the first 36 months after the Commercial Operation Date if that date is after December 31, 1994, for each such Generation Unit.
- c. Please attach a copy of the derivation of the average provided in (b) above, along with documentation support (such as ISO reports) for the information provided in Subsection (b) above. Data must be consistent with quantities used for ISO Market Settlement System.

APPENDIX D
(Revised 6/11/10)
(Required of Applicants Seeking Eligibility for Customer-Sited and/or Off-Grid Generation Facilities and Associated Aggregations)

STATE OF RHODE ISLAND
PUBLIC UTILITIES COMMISSION

RENEWABLE ENERGY RESOURCES ELIGIBILITY FORM

Pursuant to the Renewable Energy Act
Section 39-26-1 et. seq. of the General Laws of Rhode Island

Customer-sited and Off-grid Generation Facilities located in Rhode Island may be certified as an eligible resource if their NEPOOL GIS Certificates are created by way of an aggregation of Generation Units using the same generation technology, and so long as the aggregation is certified by the Commission. Please complete the following and attach documentation, as necessary to support all responses:

- D.1 Please identify the location(s) in Rhode Island of each Generation Unit that is interconnected on the End-use Customer's side of the retail electricity meter in such a manner that it displaces all or part of the metered consumption of the End-use Customer, or not connected to a utility transmission or distribution system.

- D.2 Please attach proposed procedures under which the aggregate Generation Units will operate ("Aggregation Agreement"). In accordance with Section 6.8.(iii) of the RES Regulations, the proposed Aggregation Agreement shall contain the following information:

- (a) Name and contact information of the Aggregator Owner, to which these regulations and stipulations of certification shall apply, and who shall be the initial owner of any NEPOOL GIS Certifications so certified;
- (b) Name, contact information, and qualifications of the Verifier. Qualifications shall include any information the applicant believes will assist the Commission in determining that the Verifier will accurately and efficiently carry out its duties. After receipt of the application, the Commission may require additional evidence of qualifications;

- (c) A declaration of any and all business or financial relations between Aggregator Owner and Verifier, which the Commission will use to evaluate the independence of the Verifier.²

(c.1) The Aggregation Agreement shall include a statement indicating under what circumstances the Verifier would not be considered sufficiently independent of the individual Generation Unit, and that Generation Units not meeting this independence test would not be allowed to participate in the aggregation;

- (d) Type of technology that will be included in the aggregation, and statement that the aggregation will include only individual Generation Units that meet all the requirements of these regulations, for example physical location, vintage, etc. (All generators within the aggregation must be of the same technology and fuel type);
- (e) Proposed operating procedures for the aggregation, by which the Aggregation Owner shall ensure that individual Generation Units in the aggregation comply with all eligibility requirements and that the NEPOOL GIS Certificates created accurately represent generation;³
- (f) Description of how the Verifier will be compensated for its services by the aggregator. In no instances will an aggregation be certified in which the Verifier is compensated in a manner linked to the number of NEPOOL GIS Certificates created by the aggregation; and
- (g) Confirmation and a description of how, no less frequently than quarterly, the Verifier will directly enter into the NEPOOL GIS the quantity of energy production in the applicable time period from each Generation Unit in the aggregation. The entry of generation data by the Verifier must be through an interface designated for this purpose by the NEPOOL GIS and in accordance with NEPOOL GIS Operating Rules applicable to Third-Party Meter Readers, and to which the Aggregation Owner shall not have access⁴.

D.3 Applicant must acknowledge that:

² Reasons for ruling that a Verifier is not sufficiently independent include, but are not limited to: i) If one entity owns, directly or indirectly, or if a natural person so owns, 10% or more of the voting stock or other equity interest in the other entity; ii) If 10% or more of the voting stock or other equity interests in both entities are owned, directly or indirectly, by the same entity or a natural person; or iii) If one entity is a natural person, and such entity or a member of such entity's immediate family is an officer, director, partner, employee or representative of the other entity.

³ At a minimum, these procedures will: i) require a determination by the Aggregation Owner that the Generation Unit is in compliance with these Renewable Energy Standard regulations and the Aggregation Agreement as approved by the Commission, and an independent determination by the Verifier that the Generation Unit exists; ii) require a meter reading procedure that allows the Verifier to read meters on the Generation Units; meter readings may be manual or remote and via the aggregators own system or via an independent system, but in all cases shall comply with NEPOOL GIS Operating Rules regarding metering; iii) require confirmation that Verifier will be entering the quantity of energy production in to the NEPOOL GIS system as described in paragraph (g) for NEPOOL GIS to create NEPOOL GIS Certificates; and iv) include a procedure for the Verifier to report to the Commission on the results of their verification process.

⁴ Such generation data shall not include any generation data from previous time periods, except as provided for in this section. Output of less than one MWh by any single Generation Unit within the aggregation may be applied to the entire aggregation's generation, and generation of the aggregation less than one full MWh may be applied to the subsequent quarter in accordance with NEPOOL GIS Operating Rules.

- (a) any changes to or deviations from the Aggregation Agreement will be considered a change in generator status, and will require recertification by the Commission;

☐ ← please check this box to acknowledge this requirement

☐ N/A or other (please explain) _____

- (b) the Commission will be promptly notified of any changes to or deviations from the Aggregation Agreement; and

☐ ← please check this box to acknowledge this requirement

☐ N/A or other (please explain) _____

- (c) in the event that notice of such changes or deviations is not promptly given, all Generation Units in the aggregation may be de-certified.

☐ ← please check this box to acknowledge this requirement

☐ N/A or other (please explain) _____

D.4 Applicant must certify that:

If the Generation Unit (or aggregation of generation units) is a Customer-sited or Off-grid Generation Resource, as defined in Section 39-26-2.4 of the General Laws of Rhode Island and Section 3.26 of the RES Regulations, respectively, the associated Generation Attributes have not otherwise been, nor will be sold, retired, claimed or represented as part of electrical energy output or sales, or used to satisfy obligations in jurisdictions other than Rhode Island.

☐ ← please check this box to certify that this statement is true

☐ N/A or other (please explain) _____

APPENDIX E
(Revised 6/11/10)

(Required of all Applicants Located in a Control Area Adjacent to NEPOOL)

STATE OF RHODE ISLAND
PUBLIC UTILITIES COMMISSION

RENEWABLE ENERGY RESOURCES ELIGIBILITY FORM

Pursuant to the Renewable Energy Act
Section 39-26-1 et. seq. of the General Laws of Rhode Island

Please complete the following and attach documentation, as necessary to support all responses:

E.1 Please indicate in which Control Area adjacent to NEPOOL the Generation Unit is located:

- ☐ New York
☐ Hydro Quebec
☐ Maritimes (including Northern Maine Independent System Administrator)

E.2 Applicant must provide to the Commission by July 1st of each year assurances that the Generation Unit's New Renewable Energy Resources used for compliance with the Rhode Island's Renewable Energy Act during the previous Compliance Year have not otherwise been, nor will be, sold, retired, claimed or represented as part of electrical energy output or sales, or used to satisfy obligations in jurisdictions other than Rhode Island. Such assurances may consist of a report from a neighboring Generation Attribute accounting system or an affidavit from the Generation Unit.

- ☐ ← please check this box to acknowledge this requirement
☐ N/A or other (please explain) _____

E.3 Applicant must acknowledge and provide evidence to support that, in accordance with Section 5.1(ii) of the RES Regulations, the Generation Attributes associated with the Generation Unit shall be applied to the Rhode Island Renewable Energy Standard only to the extent of the energy produced by the Generation Unit that is or will be actually delivered into NEPOOL for consumption by New England customers. Verification of the delivery of such energy from the Generation Unit into NEPOOL will be performed in accordance with subparagraphs (a), (b) and (c) of RES Regulations Section 5.1.(ii)

- ☐ ← please check this box to acknowledge this requirement.

- (a) Under subparagraph 5.1.(ii)(a), Applicant must verify that the energy produced by the Generation Unit is actually delivered into NEPOOL via “a unit-specific bilateral contract for the sale and delivery of such energy into NEPOOL”.

☐ ← please check this box to acknowledge the requirement for Applicant to provide ongoing evidence of one or more unit-specific bilateral contract(s) for all energy delivery into NEPOOL for which Applicant seeks RI RES certification, prior to creation of certificates in each quarter, and:

- i. Please describe the type of evidence to be provided to the GIS Administrator to demonstrate the existence of such unit-specific bilateral contract(s) for the sale and delivery of such energy into NEPOOL, including duration, quantity and counter-party in NEPOOL:

(attach more detail if the space provided is not sufficient)

☐ N/A or other (please explain):

APPENDIX F
(Revised 6/11/10)
Eligible Biomass Fuel Source Plan
(Required of all Applicants Proposing to Use An Eligible Biomass Fuel)

STATE OF RHODE ISLAND PUBLIC UTILITIES COMMISSION
Part of Application for Certificate of Eligibility
RENEWABLE ENERGY RESOURCES ELIGIBILITY FORM
Pursuant to the Renewable Energy Act
Section 39-26-1 et. seq. of the General Laws of Rhode Island

Note to Applicants: Please refer to the RES Certification Filing Methodology Guide posted on the Commission's web site (www.ripuc.org/utilityinfo/res.html) for information, templates and suggestions regarding the types and levels of detail appropriate for responses to specific application items requested below. Also, please see Section 6.9 of the RES Regulations for additional details on specific requirements.

The phrase "Eligible Biomass Fuel" (per RES Regulations Section 3.7) means fuel sources including brush, stumps, lumber ends and trimmings, wood pallets, bark, wood chips, shavings, slash, yard trimmings, site clearing waste, wood packaging, and other clean wood that is not mixed with other unsorted solid wastes⁵; agricultural waste, food and vegetative material; energy crops; landfill methane⁶ or biogas⁷, provided that such gas is collected and conveyed directly to the Generation Unit without use of facilities used as common carriers of natural gas; or neat bio-diesel and other neat liquid fuels that are derived from such fuel sources.

In determining if an Eligible Biomass Generation Unit shall be certified, the Commission will consider if the fuel source plan can reasonably be expected to ensure that only Eligible Biomass Fuels will be used, and in the case of co-firing ensure that only that proportion of generation attributable to an Eligible Biomass Fuel be eligible. Certification will not be granted to those Generation Units with fuel source plans the Commission deems inadequate for these purposes.

⁵ Generation Units using wood sources other than those listed above may make application, as part of the required fuel source plan described in Section 6.9 of the RES Regulations, for the Commission to approve a particular wood source as "clean wood." The burden will be on the applicant to demonstrate that the wood source is at least as clean as those listed in the legislation. Wood sources containing resins, glues, laminates, paints, preservatives, or other treatments that would combust or off-gas, or mixed with any other material that would burn, melt, or create other residue aside from wood ash, will not be approved as clean wood.

⁶ Landfill gas, which is an Eligible Biomass Fuel, means only that gas recovered from inside a landfill and resulting from the natural decomposition of waste, and that would otherwise be vented or flared as part of the landfill's normal operation if not used as a fuel source.

⁷ Gas resulting from the anaerobic digestion of sewage or manure is considered to be a type of biogas, and therefore an Eligible Biomass Fuel that has been fully separated from the waste stream.

This Appendix must be attached to the front of Applicant's Fuel Source Plan required for Generating Units proposing to use an Eligible Biomass Fuel (per Section 6.9 of RES Regulations).

- F.1 The attached Fuel Source Plan includes a detailed description of the type of Eligible Biomass Fuel to be used at the Generation Unit.

Detailed description attached? ☐ Yes ☐ No ☐ N/A

Comments: _____

- F.2 If the proposed fuel is "other clean wood," the Fuel Source Plan should include any further substantiation to demonstrate why the fuel source should be considered as clean as those clean wood sources listed in the legislation.

Further substantiation attached? ☐ Yes ☐ No ☐ N/A

Comments: _____

- F.3 In the case of co-firing with ineligible fuels, the Fuel Source Plan must include a description of (a) how such co-firing will occur; (b) how the relative amounts of Eligible Biomass Fuel and ineligible fuel will be measured; and (c) how the eligible portion of generation output will be calculated. Such calculations shall be based on the energy content of all of the proposed fuels used.

Description attached? ☐ Yes ☐ No ☐ N/A

Comments: _____

- F.4 The Fuel Source Plan must provide a description of what measures will be taken to ensure that only the Eligible Biomass Fuel are used, examples of which may include: standard operating protocols or procedures that will be implemented at the Generation Unit, contracts with fuel suppliers, testing or sampling regimes.

Description provided? ☐ Yes ☐ No ☐ N/A

Comments: _____

- F.5 Please include in the Fuel Source Plan an acknowledgement that the fuels stored at or brought to the Generation Unit will only be either Eligible Biomass Fuels or fossil fuels used for co-firing and that Biomass Fuels not deemed eligible will not be allowed at the premises of the certified Generation Unit. And please check the following box to certify that this statement is true.

☐ ← check this box to certify that the above statement is true

☐ N/A or other (please explain) _____

- F.6 If the proposed fuel includes recycled wood waste, please submit documentation that such fuel meets the definition of Eligible Biomass Fuel and also meets material separation, storage, or handling standards acceptable to the Commission and furthermore consistent with the RES Regulations.

Documentation attached?

☐ Yes

☐ No

☐ N/A

Comments: _____

- F.7 Please certify that you will file all reports and other information necessary to enable the Commission to verify the on-going eligibility of the renewable energy generators pursuant to Section 6.3 of the RES Regulations. Specifically, RES Regulations Section 6.3(i) states that Renewable Energy Resources of the type that combust fuel to generate electricity must file quarterly reports due 60 days after the end of each quarter on the fuel stream used during the quarter. Instructions and filing documents for the quarterly reports can be found on the Commissions website or can be furnished upon request.

☐ ← check this box to certify that the above statement is true

☐ N/A or other (please explain) _____

- F.8 Please attach a copy of the Generation Unit's Valid Air Permit or equivalent authorization.

Valid Air Permit or equivalent attached?

☐ Yes

☐ No

☐ N/A

Comments: _____

- F.9 Effective date of Valid Air Permit or equivalent authorization:

____ / ____ / ____

- F.10 State or jurisdiction issuing Valid Air Permit or equivalent authorization:

Hickey, Steve (EGP North America)

From: John Rossi <jrossi@ces-ltd.com>
Sent: Friday, February 09, 2018 2:59 PM
To: Hickey, Steve (EGP North America)
Subject: Woods Hill Monthly Summary
Attachments: Monthly ISONE Billing Summary December2017_Woods Hill.xlsx; Monthly ISONE Billing Summary January2018_Woods Hill.xlsx

Steve,

Attached are the ISONE settlement reports for Woods Hill Solar for December and January. The files include the Generation, Load, Real-Time Energy credits, Daily and Hourly summary. Also included are the Day-Ahead and Real-Time LMP's. Please let me know if you have any questions about any of this.

I did have one question for you regarding the payment, how would you like us to send the money? We can send a check or wire the money to you. Also do you want me to add anyone else to these emails going forward?

John Rossi

Customized Energy Solutions, Ltd.
1528 Walnut Street, 22nd Floor
Philadelphia, PA 19102
Direct: (267) 535-2549
Fax: (215) 875-9490
email: jrossi@ces-ltd.com

Independent verification of the

date the meter first spun.

12/30/2017



**Customized
Energy Solutions**

Analyze · Simplify · Implement

This e-mail, including attachments, is intended only for the person(s) to whom the sender intended to address this message. It may contain information which is legally privileged, confidential and exempt from disclosure. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution of, use of or action in reliance on this communication is strictly prohibited and may be unlawful. If you are not the intended recipient of this message and have received this e-mail in error, please notify the sender immediately or return the e-mail and fully delete from your system the message, along with any attachments.

Client: Woods Hill Solar				Facility: Woods Hill		MonthYear: Dec-17		
Date	HE	Metered Generation	Metered Load	DA LMP	RT LMP	Load Settle	Gen Settle	Net Energy Settlement
12/1/2017	1	0.000	0.000	\$24.83	\$23.81	\$0.00	\$0.00	\$0.00
12/1/2017	2	0.000	0.000	\$22.90	\$25.55	\$0.00	\$0.00	\$0.00
12/1/2017	3	0.000	0.000	\$22.29	\$24.32	\$0.00	\$0.00	\$0.00
12/1/2017	4	0.000	0.000	\$22.36	\$25.21	\$0.00	\$0.00	\$0.00
12/1/2017	5	0.000	0.000	\$22.90	\$25.41	\$0.00	\$0.00	\$0.00
12/1/2017	6	0.000	0.000	\$26.60	\$30.48	\$0.00	\$0.00	\$0.00
12/1/2017	7	0.000	0.000	\$29.74	\$34.19	\$0.00	\$0.00	\$0.00
12/1/2017	8	0.000	0.000	\$35.69	\$39.39	\$0.00	\$0.00	\$0.00
12/1/2017	9	0.000	0.000	\$33.59	\$33.89	\$0.00	\$0.00	\$0.00
12/1/2017	10	0.000	0.000	\$31.04	\$41.92	\$0.00	\$0.00	\$0.00
12/1/2017	11	0.000	0.000	\$30.26	\$34.85	\$0.00	\$0.00	\$0.00
12/1/2017	12	0.000	0.000	\$29.59	\$39.76	\$0.00	\$0.00	\$0.00
12/1/2017	13	0.000	0.000	\$29.93	\$44.54	\$0.00	\$0.00	\$0.00
12/1/2017	14	0.000	0.000	\$28.52	\$44.60	\$0.00	\$0.00	\$0.00
12/1/2017	15	0.000	0.000	\$29.77	\$43.23	\$0.00	\$0.00	\$0.00
12/1/2017	16	0.000	0.000	\$29.80	\$49.26	\$0.00	\$0.00	\$0.00
12/1/2017	17	0.000	0.000	\$38.87	\$39.69	\$0.00	\$0.00	\$0.00
12/1/2017	18	0.000	0.000	\$48.49	\$34.29	\$0.00	\$0.00	\$0.00
12/1/2017	19	0.000	0.000	\$41.69	\$33.00	\$0.00	\$0.00	\$0.00
12/1/2017	20	0.000	0.000	\$40.07	\$29.58	\$0.00	\$0.00	\$0.00
12/1/2017	21	0.000	0.000	\$33.70	\$25.05	\$0.00	\$0.00	\$0.00
12/1/2017	22	0.000	0.000	\$31.50	\$29.14	\$0.00	\$0.00	\$0.00
12/1/2017	23	0.000	0.000	\$27.34	\$29.45	\$0.00	\$0.00	\$0.00
12/1/2017	24	0.000	0.000	\$26.58	\$32.81	\$0.00	\$0.00	\$0.00
12/2/2017	1	0.000	0.000	\$26.66	\$41.82	\$0.00	\$0.00	\$0.00
12/2/2017	2	0.000	0.000	\$23.88	\$32.89	\$0.00	\$0.00	\$0.00
12/2/2017	3	0.000	0.000	\$23.20	\$38.38	\$0.00	\$0.00	\$0.00
12/2/2017	4	0.000	0.000	\$25.80	\$25.70	\$0.00	\$0.00	\$0.00
12/2/2017	5	0.000	0.000	\$25.28	\$26.32	\$0.00	\$0.00	\$0.00
12/2/2017	6	0.000	0.000	\$36.92	\$56.90	\$0.00	\$0.00	\$0.00
12/2/2017	7	0.000	0.000	\$28.34	\$60.71	\$0.00	\$0.00	\$0.00
12/2/2017	8	0.000	0.000	\$28.15	\$50.33	\$0.00	\$0.00	\$0.00
12/2/2017	9	0.000	0.000	\$26.35	\$41.67	\$0.00	\$0.00	\$0.00
12/2/2017	10	0.000	0.000	\$30.73	\$28.69	\$0.00	\$0.00	\$0.00
12/2/2017	11	0.000	0.000	\$30.00	\$29.76	\$0.00	\$0.00	\$0.00
12/2/2017	12	0.000	0.000	\$28.82	\$27.98	\$0.00	\$0.00	\$0.00
12/2/2017	13	0.000	0.000	\$27.98	\$34.07	\$0.00	\$0.00	\$0.00
12/2/2017	14	0.000	0.000	\$27.12	\$40.63	\$0.00	\$0.00	\$0.00
12/2/2017	15	0.000	0.000	\$25.60	\$41.80	\$0.00	\$0.00	\$0.00
12/2/2017	16	0.000	0.000	\$25.12	\$34.81	\$0.00	\$0.00	\$0.00
12/2/2017	17	0.000	0.000	\$37.70	\$50.70	\$0.00	\$0.00	\$0.00
12/2/2017	18	0.000	0.000	\$42.25	\$77.02	\$0.00	\$0.00	\$0.00
12/2/2017	19	0.000	0.000	\$37.84	\$69.06	\$0.00	\$0.00	\$0.00
12/2/2017	20	0.000	0.000	\$37.70	\$57.21	\$0.00	\$0.00	\$0.00
12/2/2017	21	0.000	0.000	\$31.97	\$50.72	\$0.00	\$0.00	\$0.00

12/2/2017	22	0.000	0.000	\$29.98	\$42.27	\$0.00	\$0.00	\$0.00
12/2/2017	23	0.000	0.000	\$26.02	\$38.66	\$0.00	\$0.00	\$0.00
12/2/2017	24	0.000	0.000	\$25.30	\$32.91	\$0.00	\$0.00	\$0.00
12/3/2017	1	0.000	0.000	\$31.89	\$31.19	\$0.00	\$0.00	\$0.00
12/3/2017	2	0.000	0.000	\$28.69	\$32.02	\$0.00	\$0.00	\$0.00
12/3/2017	3	0.000	0.000	\$28.71	\$52.33	\$0.00	\$0.00	\$0.00
12/3/2017	4	0.000	0.000	\$25.50	\$31.85	\$0.00	\$0.00	\$0.00
12/3/2017	5	0.000	0.000	\$28.40	\$40.66	\$0.00	\$0.00	\$0.00
12/3/2017	6	0.000	0.000	\$30.56	\$48.55	\$0.00	\$0.00	\$0.00
12/3/2017	7	0.000	0.000	\$34.15	\$58.38	\$0.00	\$0.00	\$0.00
12/3/2017	8	0.000	0.000	\$28.69	\$54.02	\$0.00	\$0.00	\$0.00
12/3/2017	9	0.000	0.000	\$31.65	\$50.99	\$0.00	\$0.00	\$0.00
12/3/2017	10	0.000	0.000	\$26.34	\$36.14	\$0.00	\$0.00	\$0.00
12/3/2017	11	0.000	0.000	\$27.11	\$31.90	\$0.00	\$0.00	\$0.00
12/3/2017	12	0.000	0.000	\$27.29	\$35.36	\$0.00	\$0.00	\$0.00
12/3/2017	13	0.000	0.000	\$25.01	\$44.68	\$0.00	\$0.00	\$0.00
12/3/2017	14	0.000	0.000	\$24.72	\$34.19	\$0.00	\$0.00	\$0.00
12/3/2017	15	0.000	0.000	\$26.25	\$30.27	\$0.00	\$0.00	\$0.00
12/3/2017	16	0.000	0.000	\$27.35	\$34.10	\$0.00	\$0.00	\$0.00
12/3/2017	17	0.000	0.000	\$36.12	\$47.59	\$0.00	\$0.00	\$0.00
12/3/2017	18	0.000	0.000	\$44.08	\$58.47	\$0.00	\$0.00	\$0.00
12/3/2017	19	0.000	0.000	\$44.51	\$52.97	\$0.00	\$0.00	\$0.00
12/3/2017	20	0.000	0.000	\$41.78	\$69.10	\$0.00	\$0.00	\$0.00
12/3/2017	21	0.000	0.000	\$35.75	\$45.28	\$0.00	\$0.00	\$0.00
12/3/2017	22	0.000	0.000	\$29.97	\$45.79	\$0.00	\$0.00	\$0.00
12/3/2017	23	0.000	0.000	\$28.50	\$39.01	\$0.00	\$0.00	\$0.00
12/3/2017	24	0.000	0.000	\$20.46	\$28.95	\$0.00	\$0.00	\$0.00
12/4/2017	1	0.000	0.000	\$29.46	\$29.67	\$0.00	\$0.00	\$0.00
12/4/2017	2	0.000	0.000	\$27.24	\$24.62	\$0.00	\$0.00	\$0.00
12/4/2017	3	0.000	0.000	\$26.05	\$24.63	\$0.00	\$0.00	\$0.00
12/4/2017	4	0.000	0.000	\$25.13	\$24.81	\$0.00	\$0.00	\$0.00
12/4/2017	5	0.000	0.000	\$26.39	\$25.08	\$0.00	\$0.00	\$0.00
12/4/2017	6	0.000	0.000	\$28.85	\$23.86	\$0.00	\$0.00	\$0.00
12/4/2017	7	0.000	0.000	\$29.64	\$30.62	\$0.00	\$0.00	\$0.00
12/4/2017	8	0.000	0.000	\$35.46	\$42.98	\$0.00	\$0.00	\$0.00
12/4/2017	9	0.000	0.000	\$33.82	\$32.35	\$0.00	\$0.00	\$0.00
12/4/2017	10	0.000	0.000	\$31.77	\$25.88	\$0.00	\$0.00	\$0.00
12/4/2017	11	0.000	0.000	\$26.50	\$23.61	\$0.00	\$0.00	\$0.00
12/4/2017	12	0.000	0.000	\$25.43	\$24.35	\$0.00	\$0.00	\$0.00
12/4/2017	13	0.000	0.000	\$24.50	\$22.80	\$0.00	\$0.00	\$0.00
12/4/2017	14	0.000	0.000	\$24.47	\$23.28	\$0.00	\$0.00	\$0.00
12/4/2017	15	0.000	0.000	\$24.16	\$22.27	\$0.00	\$0.00	\$0.00
12/4/2017	16	0.000	0.000	\$24.69	\$22.02	\$0.00	\$0.00	\$0.00
12/4/2017	17	0.000	0.000	\$39.68	\$25.92	\$0.00	\$0.00	\$0.00
12/4/2017	18	0.000	0.000	\$50.70	\$31.12	\$0.00	\$0.00	\$0.00
12/4/2017	19	0.000	0.000	\$44.00	\$36.87	\$0.00	\$0.00	\$0.00
12/4/2017	20	0.000	0.000	\$39.80	\$28.20	\$0.00	\$0.00	\$0.00
12/4/2017	21	0.000	0.000	\$33.29	\$25.50	\$0.00	\$0.00	\$0.00
12/4/2017	22	0.000	0.000	\$26.79	\$23.10	\$0.00	\$0.00	\$0.00

12/4/2017	23	0.000	0.000	\$22.93	\$22.46	\$0.00	\$0.00	\$0.00
12/4/2017	24	0.000	0.000	\$18.95	\$20.26	\$0.00	\$0.00	\$0.00
12/5/2017	1	0.000	0.000	\$21.67	\$20.16	\$0.00	\$0.00	\$0.00
12/5/2017	2	0.000	0.000	\$21.04	\$18.62	\$0.00	\$0.00	\$0.00
12/5/2017	3	0.000	0.000	\$19.05	\$18.18	\$0.00	\$0.00	\$0.00
12/5/2017	4	0.000	0.000	\$16.69	\$18.96	\$0.00	\$0.00	\$0.00
12/5/2017	5	0.000	0.000	\$20.81	\$19.62	\$0.00	\$0.00	\$0.00
12/5/2017	6	0.000	0.000	\$21.24	\$23.71	\$0.00	\$0.00	\$0.00
12/5/2017	7	0.000	0.000	\$27.13	\$33.73	\$0.00	\$0.00	\$0.00
12/5/2017	8	0.000	0.000	\$37.80	\$35.38	\$0.00	\$0.00	\$0.00
12/5/2017	9	0.000	0.000	\$32.43	\$25.54	\$0.00	\$0.00	\$0.00
12/5/2017	10	0.000	0.000	\$32.02	\$24.86	\$0.00	\$0.00	\$0.00
12/5/2017	11	0.000	0.000	\$30.04	\$26.20	\$0.00	\$0.00	\$0.00
12/5/2017	12	0.000	0.000	\$28.19	\$33.27	\$0.00	\$0.00	\$0.00
12/5/2017	13	0.000	0.000	\$27.06	\$28.82	\$0.00	\$0.00	\$0.00
12/5/2017	14	0.000	0.000	\$25.38	\$27.69	\$0.00	\$0.00	\$0.00
12/5/2017	15	0.000	0.000	\$24.84	\$29.63	\$0.00	\$0.00	\$0.00
12/5/2017	16	0.000	0.000	\$25.35	\$32.02	\$0.00	\$0.00	\$0.00
12/5/2017	17	0.000	0.000	\$36.93	\$29.47	\$0.00	\$0.00	\$0.00
12/5/2017	18	0.000	0.000	\$42.71	\$29.21	\$0.00	\$0.00	\$0.00
12/5/2017	19	0.000	0.000	\$32.21	\$30.85	\$0.00	\$0.00	\$0.00
12/5/2017	20	0.000	0.000	\$31.97	\$25.74	\$0.00	\$0.00	\$0.00
12/5/2017	21	0.000	0.000	\$26.70	\$30.94	\$0.00	\$0.00	\$0.00
12/5/2017	22	0.000	0.000	\$26.41	\$23.28	\$0.00	\$0.00	\$0.00
12/5/2017	23	0.000	0.000	\$23.02	\$21.52	\$0.00	\$0.00	\$0.00
12/5/2017	24	0.000	0.000	\$20.08	\$18.74	\$0.00	\$0.00	\$0.00
12/6/2017	1	0.000	0.000	\$16.28	\$22.98	\$0.00	\$0.00	\$0.00
12/6/2017	2	0.000	0.000	\$15.86	\$27.53	\$0.00	\$0.00	\$0.00
12/6/2017	3	0.000	0.000	\$7.55	\$25.21	\$0.00	\$0.00	\$0.00
12/6/2017	4	0.000	0.000	\$10.14	\$24.38	\$0.00	\$0.00	\$0.00
12/6/2017	5	0.000	0.000	\$15.71	\$26.98	\$0.00	\$0.00	\$0.00
12/6/2017	6	0.000	0.000	\$18.66	\$23.03	\$0.00	\$0.00	\$0.00
12/6/2017	7	0.000	0.000	\$25.23	\$26.42	\$0.00	\$0.00	\$0.00
12/6/2017	8	0.000	0.000	\$25.35	\$41.63	\$0.00	\$0.00	\$0.00
12/6/2017	9	0.000	0.000	\$26.46	\$41.00	\$0.00	\$0.00	\$0.00
12/6/2017	10	0.000	0.000	\$25.30	\$37.32	\$0.00	\$0.00	\$0.00
12/6/2017	11	0.000	0.000	\$29.17	\$44.24	\$0.00	\$0.00	\$0.00
12/6/2017	12	0.000	0.000	\$29.01	\$31.06	\$0.00	\$0.00	\$0.00
12/6/2017	13	0.000	0.000	\$28.64	\$22.69	\$0.00	\$0.00	\$0.00
12/6/2017	14	0.000	0.000	\$28.68	\$22.46	\$0.00	\$0.00	\$0.00
12/6/2017	15	0.000	0.000	\$24.49	\$22.87	\$0.00	\$0.00	\$0.00
12/6/2017	16	0.000	0.000	\$25.13	\$33.91	\$0.00	\$0.00	\$0.00
12/6/2017	17	0.000	0.000	\$33.68	\$43.30	\$0.00	\$0.00	\$0.00
12/6/2017	18	0.000	0.000	\$33.69	\$60.35	\$0.00	\$0.00	\$0.00
12/6/2017	19	0.000	0.000	\$34.80	\$50.78	\$0.00	\$0.00	\$0.00
12/6/2017	20	0.000	0.000	\$33.58	\$71.47	\$0.00	\$0.00	\$0.00
12/6/2017	21	0.000	0.000	\$32.73	\$47.73	\$0.00	\$0.00	\$0.00
12/6/2017	22	0.000	0.000	\$27.29	\$35.37	\$0.00	\$0.00	\$0.00
12/6/2017	23	0.000	0.000	\$22.42	\$23.73	\$0.00	\$0.00	\$0.00

12/6/2017	24	0.000	0.000	\$26.96	\$22.62	\$0.00	\$0.00	\$0.00
12/7/2017	1	0.000	0.000	\$30.34	\$24.26	\$0.00	\$0.00	\$0.00
12/7/2017	2	0.000	0.000	\$24.93	\$23.50	\$0.00	\$0.00	\$0.00
12/7/2017	3	0.000	0.000	\$24.24	\$23.52	\$0.00	\$0.00	\$0.00
12/7/2017	4	0.000	0.000	\$23.96	\$24.60	\$0.00	\$0.00	\$0.00
12/7/2017	5	0.000	0.000	\$24.44	\$25.07	\$0.00	\$0.00	\$0.00
12/7/2017	6	0.000	0.000	\$28.53	\$25.27	\$0.00	\$0.00	\$0.00
12/7/2017	7	0.000	0.000	\$27.40	\$27.39	\$0.00	\$0.00	\$0.00
12/7/2017	8	0.000	0.000	\$35.28	\$31.34	\$0.00	\$0.00	\$0.00
12/7/2017	9	0.000	0.000	\$35.02	\$26.61	\$0.00	\$0.00	\$0.00
12/7/2017	10	0.000	0.000	\$34.16	\$23.93	\$0.00	\$0.00	\$0.00
12/7/2017	11	0.000	0.000	\$30.98	\$25.51	\$0.00	\$0.00	\$0.00
12/7/2017	12	0.000	0.000	\$27.36	\$25.58	\$0.00	\$0.00	\$0.00
12/7/2017	13	0.000	0.000	\$27.32	\$26.42	\$0.00	\$0.00	\$0.00
12/7/2017	14	0.000	0.000	\$26.35	\$27.02	\$0.00	\$0.00	\$0.00
12/7/2017	15	0.000	0.000	\$28.96	\$26.46	\$0.00	\$0.00	\$0.00
12/7/2017	16	0.000	0.000	\$29.81	\$27.88	\$0.00	\$0.00	\$0.00
12/7/2017	17	0.000	0.000	\$44.84	\$35.80	\$0.00	\$0.00	\$0.00
12/7/2017	18	0.000	0.000	\$49.14	\$47.10	\$0.00	\$0.00	\$0.00
12/7/2017	19	0.000	0.000	\$49.26	\$33.73	\$0.00	\$0.00	\$0.00
12/7/2017	20	0.000	0.000	\$45.35	\$30.64	\$0.00	\$0.00	\$0.00
12/7/2017	21	0.000	0.000	\$40.82	\$27.30	\$0.00	\$0.00	\$0.00
12/7/2017	22	0.000	0.000	\$33.81	\$25.75	\$0.00	\$0.00	\$0.00
12/7/2017	23	0.000	0.000	\$28.95	\$28.03	\$0.00	\$0.00	\$0.00
12/7/2017	24	0.000	0.000	\$30.90	\$27.35	\$0.00	\$0.00	\$0.00
12/8/2017	1	0.000	0.000	\$34.28	\$24.82	\$0.00	\$0.00	\$0.00
12/8/2017	2	0.000	0.000	\$29.87	\$24.19	\$0.00	\$0.00	\$0.00
12/8/2017	3	0.000	0.000	\$29.64	\$24.15	\$0.00	\$0.00	\$0.00
12/8/2017	4	0.000	0.000	\$28.48	\$24.66	\$0.00	\$0.00	\$0.00
12/8/2017	5	0.000	0.000	\$29.91	\$25.32	\$0.00	\$0.00	\$0.00
12/8/2017	6	0.000	0.000	\$33.28	\$27.33	\$0.00	\$0.00	\$0.00
12/8/2017	7	0.000	0.000	\$38.87	\$40.64	\$0.00	\$0.00	\$0.00
12/8/2017	8	0.000	0.000	\$40.70	\$57.04	\$0.00	\$0.00	\$0.00
12/8/2017	9	0.000	0.000	\$40.83	\$57.05	\$0.00	\$0.00	\$0.00
12/8/2017	10	0.000	0.000	\$36.02	\$35.43	\$0.00	\$0.00	\$0.00
12/8/2017	11	0.000	0.000	\$36.09	\$31.28	\$0.00	\$0.00	\$0.00
12/8/2017	12	0.000	0.000	\$34.20	\$35.12	\$0.00	\$0.00	\$0.00
12/8/2017	13	0.000	0.000	\$33.33	\$44.41	\$0.00	\$0.00	\$0.00
12/8/2017	14	0.000	0.000	\$33.29	\$41.25	\$0.00	\$0.00	\$0.00
12/8/2017	15	0.000	0.000	\$32.23	\$34.01	\$0.00	\$0.00	\$0.00
12/8/2017	16	0.000	0.000	\$34.42	\$51.38	\$0.00	\$0.00	\$0.00
12/8/2017	17	0.000	0.000	\$45.35	\$59.81	\$0.00	\$0.00	\$0.00
12/8/2017	18	0.000	0.000	\$57.56	\$59.11	\$0.00	\$0.00	\$0.00
12/8/2017	19	0.000	0.000	\$53.55	\$48.19	\$0.00	\$0.00	\$0.00
12/8/2017	20	0.000	0.000	\$45.25	\$33.99	\$0.00	\$0.00	\$0.00
12/8/2017	21	0.000	0.000	\$36.65	\$31.53	\$0.00	\$0.00	\$0.00
12/8/2017	22	0.000	0.000	\$34.96	\$30.31	\$0.00	\$0.00	\$0.00
12/8/2017	23	0.000	0.000	\$32.54	\$29.83	\$0.00	\$0.00	\$0.00
12/8/2017	24	0.000	0.000	\$31.59	\$35.14	\$0.00	\$0.00	\$0.00

12/9/2017	1	0.000	0.000	\$34.86	\$37.15	\$0.00	\$0.00	\$0.00
12/9/2017	2	0.000	0.000	\$32.45	\$28.93	\$0.00	\$0.00	\$0.00
12/9/2017	3	0.000	0.000	\$30.41	\$28.13	\$0.00	\$0.00	\$0.00
12/9/2017	4	0.000	0.000	\$30.20	\$27.10	\$0.00	\$0.00	\$0.00
12/9/2017	5	0.000	0.000	\$30.10	\$29.10	\$0.00	\$0.00	\$0.00
12/9/2017	6	0.000	0.000	\$33.04	\$28.74	\$0.00	\$0.00	\$0.00
12/9/2017	7	0.000	0.000	\$32.82	\$24.31	\$0.00	\$0.00	\$0.00
12/9/2017	8	0.000	0.000	\$33.13	\$25.17	\$0.00	\$0.00	\$0.00
12/9/2017	9	0.000	0.000	\$35.37	\$29.70	\$0.00	\$0.00	\$0.00
12/9/2017	10	0.000	0.000	\$43.80	\$38.18	\$0.00	\$0.00	\$0.00
12/9/2017	11	0.000	0.000	\$48.32	\$43.91	\$0.00	\$0.00	\$0.00
12/9/2017	12	0.000	0.000	\$44.20	\$50.72	\$0.00	\$0.00	\$0.00
12/9/2017	13	0.000	0.000	\$43.47	\$60.07	\$0.00	\$0.00	\$0.00
12/9/2017	14	0.000	0.000	\$38.74	\$52.89	\$0.00	\$0.00	\$0.00
12/9/2017	15	0.000	0.000	\$38.74	\$54.13	\$0.00	\$0.00	\$0.00
12/9/2017	16	0.000	0.000	\$42.53	\$60.43	\$0.00	\$0.00	\$0.00
12/9/2017	17	0.000	0.000	\$54.04	\$67.61	\$0.00	\$0.00	\$0.00
12/9/2017	18	0.000	0.000	\$65.97	\$77.92	\$0.00	\$0.00	\$0.00
12/9/2017	19	0.000	0.000	\$55.28	\$64.67	\$0.00	\$0.00	\$0.00
12/9/2017	20	0.000	0.000	\$46.57	\$60.21	\$0.00	\$0.00	\$0.00
12/9/2017	21	0.000	0.000	\$43.16	\$39.92	\$0.00	\$0.00	\$0.00
12/9/2017	22	0.000	0.000	\$39.78	\$38.40	\$0.00	\$0.00	\$0.00
12/9/2017	23	0.000	0.000	\$38.97	\$38.66	\$0.00	\$0.00	\$0.00
12/9/2017	24	0.000	0.000	\$38.77	\$37.27	\$0.00	\$0.00	\$0.00
12/10/2017	1	0.000	0.000	\$35.04	\$35.81	\$0.00	\$0.00	\$0.00
12/10/2017	2	0.000	0.000	\$35.65	\$38.71	\$0.00	\$0.00	\$0.00
12/10/2017	3	0.000	0.000	\$33.51	\$36.45	\$0.00	\$0.00	\$0.00
12/10/2017	4	0.000	0.000	\$32.00	\$36.43	\$0.00	\$0.00	\$0.00
12/10/2017	5	0.000	0.000	\$32.98	\$38.33	\$0.00	\$0.00	\$0.00
12/10/2017	6	0.000	0.000	\$35.04	\$41.52	\$0.00	\$0.00	\$0.00
12/10/2017	7	0.000	0.000	\$41.40	\$40.16	\$0.00	\$0.00	\$0.00
12/10/2017	8	0.000	0.000	\$41.26	\$35.49	\$0.00	\$0.00	\$0.00
12/10/2017	9	0.000	0.000	\$42.23	\$40.03	\$0.00	\$0.00	\$0.00
12/10/2017	10	0.000	0.000	\$44.82	\$51.13	\$0.00	\$0.00	\$0.00
12/10/2017	11	0.000	0.000	\$50.09	\$69.12	\$0.00	\$0.00	\$0.00
12/10/2017	12	0.000	0.000	\$44.93	\$54.30	\$0.00	\$0.00	\$0.00
12/10/2017	13	0.000	0.000	\$45.03	\$44.06	\$0.00	\$0.00	\$0.00
12/10/2017	14	0.000	0.000	\$40.57	\$40.67	\$0.00	\$0.00	\$0.00
12/10/2017	15	0.000	0.000	\$40.05	\$41.38	\$0.00	\$0.00	\$0.00
12/10/2017	16	0.000	0.000	\$43.69	\$41.76	\$0.00	\$0.00	\$0.00
12/10/2017	17	0.000	0.000	\$59.23	\$48.31	\$0.00	\$0.00	\$0.00
12/10/2017	18	0.000	0.000	\$70.77	\$46.59	\$0.00	\$0.00	\$0.00
12/10/2017	19	0.000	0.000	\$61.39	\$45.00	\$0.00	\$0.00	\$0.00
12/10/2017	20	0.000	0.000	\$61.41	\$45.74	\$0.00	\$0.00	\$0.00
12/10/2017	21	0.000	0.000	\$55.78	\$44.83	\$0.00	\$0.00	\$0.00
12/10/2017	22	0.000	0.000	\$47.61	\$44.27	\$0.00	\$0.00	\$0.00
12/10/2017	23	0.000	0.000	\$42.32	\$40.05	\$0.00	\$0.00	\$0.00
12/10/2017	24	0.000	0.000	\$38.32	\$37.73	\$0.00	\$0.00	\$0.00
12/11/2017	1	0.000	0.000	\$39.60	\$23.41	\$0.00	\$0.00	\$0.00

12/11/2017	2	0.000	0.000	\$37.27	\$27.39	\$0.00	\$0.00	\$0.00
12/11/2017	3	0.000	0.000	\$39.79	\$31.50	\$0.00	\$0.00	\$0.00
12/11/2017	4	0.000	0.000	\$39.12	\$22.61	\$0.00	\$0.00	\$0.00
12/11/2017	5	0.000	0.000	\$42.37	\$15.58	\$0.00	\$0.00	\$0.00
12/11/2017	6	0.000	0.000	\$54.72	\$41.36	\$0.00	\$0.00	\$0.00
12/11/2017	7	0.000	0.000	\$73.47	\$40.31	\$0.00	\$0.00	\$0.00
12/11/2017	8	0.000	0.000	\$73.40	\$49.16	\$0.00	\$0.00	\$0.00
12/11/2017	9	0.000	0.000	\$64.51	\$45.37	\$0.00	\$0.00	\$0.00
12/11/2017	10	0.000	0.000	\$54.26	\$44.43	\$0.00	\$0.00	\$0.00
12/11/2017	11	0.000	0.000	\$56.15	\$47.30	\$0.00	\$0.00	\$0.00
12/11/2017	12	0.000	0.000	\$55.98	\$45.75	\$0.00	\$0.00	\$0.00
12/11/2017	13	0.000	0.000	\$48.99	\$41.73	\$0.00	\$0.00	\$0.00
12/11/2017	14	0.000	0.000	\$48.05	\$41.26	\$0.00	\$0.00	\$0.00
12/11/2017	15	0.000	0.000	\$45.97	\$39.69	\$0.00	\$0.00	\$0.00
12/11/2017	16	0.000	0.000	\$54.77	\$42.44	\$0.00	\$0.00	\$0.00
12/11/2017	17	0.000	0.000	\$80.11	\$45.99	\$0.00	\$0.00	\$0.00
12/11/2017	18	0.000	0.000	\$87.16	\$52.96	\$0.00	\$0.00	\$0.00
12/11/2017	19	0.000	0.000	\$82.93	\$54.79	\$0.00	\$0.00	\$0.00
12/11/2017	20	0.000	0.000	\$80.83	\$53.53	\$0.00	\$0.00	\$0.00
12/11/2017	21	0.000	0.000	\$73.21	\$54.98	\$0.00	\$0.00	\$0.00
12/11/2017	22	0.000	0.000	\$57.70	\$47.64	\$0.00	\$0.00	\$0.00
12/11/2017	23	0.000	0.000	\$46.32	\$50.77	\$0.00	\$0.00	\$0.00
12/11/2017	24	0.000	0.000	\$46.41	\$55.27	\$0.00	\$0.00	\$0.00
12/12/2017	1	0.000	0.000	\$35.40	\$109.60	\$0.00	\$0.00	\$0.00
12/12/2017	2	0.000	0.000	\$33.20	\$108.06	\$0.00	\$0.00	\$0.00
12/12/2017	3	0.000	0.000	\$30.26	\$74.94	\$0.00	\$0.00	\$0.00
12/12/2017	4	0.000	0.000	\$31.19	\$62.86	\$0.00	\$0.00	\$0.00
12/12/2017	5	0.000	0.000	\$31.46	\$82.51	\$0.00	\$0.00	\$0.00
12/12/2017	6	0.000	0.000	\$47.01	\$76.59	\$0.00	\$0.00	\$0.00
12/12/2017	7	0.000	0.000	\$53.21	\$46.17	\$0.00	\$0.00	\$0.00
12/12/2017	8	0.000	0.000	\$58.05	\$59.99	\$0.00	\$0.00	\$0.00
12/12/2017	9	0.000	0.000	\$50.16	\$62.86	\$0.00	\$0.00	\$0.00
12/12/2017	10	0.000	0.000	\$50.16	\$79.84	\$0.00	\$0.00	\$0.00
12/12/2017	11	0.000	0.000	\$48.43	\$86.41	\$0.00	\$0.00	\$0.00
12/12/2017	12	0.000	0.000	\$47.95	\$83.16	\$0.00	\$0.00	\$0.00
12/12/2017	13	0.000	0.000	\$44.16	\$76.17	\$0.00	\$0.00	\$0.00
12/12/2017	14	0.000	0.000	\$45.84	\$70.43	\$0.00	\$0.00	\$0.00
12/12/2017	15	0.000	0.000	\$43.41	\$59.05	\$0.00	\$0.00	\$0.00
12/12/2017	16	0.000	0.000	\$43.26	\$47.39	\$0.00	\$0.00	\$0.00
12/12/2017	17	0.000	0.000	\$61.02	\$50.11	\$0.00	\$0.00	\$0.00
12/12/2017	18	0.000	0.000	\$75.94	\$51.94	\$0.00	\$0.00	\$0.00
12/12/2017	19	0.000	0.000	\$64.87	\$42.82	\$0.00	\$0.00	\$0.00
12/12/2017	20	0.000	0.000	\$55.42	\$39.48	\$0.00	\$0.00	\$0.00
12/12/2017	21	0.000	0.000	\$47.29	\$40.78	\$0.00	\$0.00	\$0.00
12/12/2017	22	0.000	0.000	\$43.53	\$44.61	\$0.00	\$0.00	\$0.00
12/12/2017	23	0.000	0.000	\$46.64	\$43.01	\$0.00	\$0.00	\$0.00
12/12/2017	24	0.000	0.000	\$42.67	\$40.14	\$0.00	\$0.00	\$0.00
12/13/2017	1	0.000	0.000	\$36.70	\$41.02	\$0.00	\$0.00	\$0.00
12/13/2017	2	0.000	0.000	\$37.30	\$38.36	\$0.00	\$0.00	\$0.00

12/13/2017	3	0.000	0.000	\$35.19	\$41.40	\$0.00	\$0.00	\$0.00
12/13/2017	4	0.000	0.000	\$35.31	\$41.05	\$0.00	\$0.00	\$0.00
12/13/2017	5	0.000	0.000	\$36.83	\$40.48	\$0.00	\$0.00	\$0.00
12/13/2017	6	0.000	0.000	\$43.60	\$39.04	\$0.00	\$0.00	\$0.00
12/13/2017	7	0.000	0.000	\$54.34	\$44.50	\$0.00	\$0.00	\$0.00
12/13/2017	8	0.000	0.000	\$62.77	\$44.67	\$0.00	\$0.00	\$0.00
12/13/2017	9	0.000	0.000	\$61.48	\$43.33	\$0.00	\$0.00	\$0.00
12/13/2017	10	0.000	0.000	\$55.17	\$41.29	\$0.00	\$0.00	\$0.00
12/13/2017	11	0.000	0.000	\$61.96	\$53.15	\$0.00	\$0.00	\$0.00
12/13/2017	12	0.000	0.000	\$60.54	\$53.29	\$0.00	\$0.00	\$0.00
12/13/2017	13	0.000	0.000	\$57.77	\$53.71	\$0.00	\$0.00	\$0.00
12/13/2017	14	0.000	0.000	\$57.70	\$54.49	\$0.00	\$0.00	\$0.00
12/13/2017	15	0.000	0.000	\$57.76	\$55.40	\$0.00	\$0.00	\$0.00
12/13/2017	16	0.000	0.000	\$60.31	\$54.71	\$0.00	\$0.00	\$0.00
12/13/2017	17	0.000	0.000	\$95.37	\$55.93	\$0.00	\$0.00	\$0.00
12/13/2017	18	0.000	0.000	\$104.74	\$54.97	\$0.00	\$0.00	\$0.00
12/13/2017	19	0.000	0.000	\$102.03	\$53.48	\$0.00	\$0.00	\$0.00
12/13/2017	20	0.000	0.000	\$93.45	\$60.55	\$0.00	\$0.00	\$0.00
12/13/2017	21	0.000	0.000	\$81.63	\$60.46	\$0.00	\$0.00	\$0.00
12/13/2017	22	0.000	0.000	\$66.36	\$52.21	\$0.00	\$0.00	\$0.00
12/13/2017	23	0.000	0.000	\$58.70	\$26.05	\$0.00	\$0.00	\$0.00
12/13/2017	24	0.000	0.000	\$55.39	\$41.15	\$0.00	\$0.00	\$0.00
12/14/2017	1	0.000	0.000	\$53.20	\$59.64	\$0.00	\$0.00	\$0.00
12/14/2017	2	0.000	0.000	\$50.37	\$58.92	\$0.00	\$0.00	\$0.00
12/14/2017	3	0.000	0.000	\$44.47	\$57.72	\$0.00	\$0.00	\$0.00
12/14/2017	4	0.000	0.000	\$44.44	\$57.77	\$0.00	\$0.00	\$0.00
12/14/2017	5	0.000	0.000	\$50.91	\$75.02	\$0.00	\$0.00	\$0.00
12/14/2017	6	0.000	0.000	\$62.42	\$119.24	\$0.00	\$0.00	\$0.00
12/14/2017	7	0.000	0.000	\$76.49	\$110.09	\$0.00	\$0.00	\$0.00
12/14/2017	8	0.000	0.000	\$73.09	\$121.71	\$0.00	\$0.00	\$0.00
12/14/2017	9	0.000	0.000	\$71.36	\$111.25	\$0.00	\$0.00	\$0.00
12/14/2017	10	0.000	0.000	\$63.77	\$110.91	\$0.00	\$0.00	\$0.00
12/14/2017	11	0.000	0.000	\$62.47	\$85.11	\$0.00	\$0.00	\$0.00
12/14/2017	12	0.000	0.000	\$59.30	\$69.46	\$0.00	\$0.00	\$0.00
12/14/2017	13	0.000	0.000	\$57.78	\$61.95	\$0.00	\$0.00	\$0.00
12/14/2017	14	0.000	0.000	\$57.31	\$57.62	\$0.00	\$0.00	\$0.00
12/14/2017	15	0.000	0.000	\$57.15	\$53.29	\$0.00	\$0.00	\$0.00
12/14/2017	16	0.000	0.000	\$60.16	\$56.03	\$0.00	\$0.00	\$0.00
12/14/2017	17	0.000	0.000	\$97.81	\$65.53	\$0.00	\$0.00	\$0.00
12/14/2017	18	0.000	0.000	\$98.83	\$67.69	\$0.00	\$0.00	\$0.00
12/14/2017	19	0.000	0.000	\$98.81	\$98.85	\$0.00	\$0.00	\$0.00
12/14/2017	20	0.000	0.000	\$95.15	\$111.01	\$0.00	\$0.00	\$0.00
12/14/2017	21	0.000	0.000	\$91.20	\$117.25	\$0.00	\$0.00	\$0.00
12/14/2017	22	0.000	0.000	\$67.20	\$84.04	\$0.00	\$0.00	\$0.00
12/14/2017	23	0.000	0.000	\$62.16	\$81.03	\$0.00	\$0.00	\$0.00
12/14/2017	24	0.000	0.000	\$69.89	\$96.25	\$0.00	\$0.00	\$0.00
12/15/2017	1	0.000	0.000	\$71.00	\$144.15	\$0.00	\$0.00	\$0.00
12/15/2017	2	0.000	0.000	\$64.95	\$92.43	\$0.00	\$0.00	\$0.00
12/15/2017	3	0.000	0.000	\$62.35	\$82.45	\$0.00	\$0.00	\$0.00

12/15/2017	4	0.000	0.000	\$63.18	\$76.68	\$0.00	\$0.00	\$0.00
12/15/2017	5	0.000	0.000	\$66.63	\$82.08	\$0.00	\$0.00	\$0.00
12/15/2017	6	0.000	0.000	\$76.12	\$83.43	\$0.00	\$0.00	\$0.00
12/15/2017	7	0.000	0.000	\$96.38	\$113.59	\$0.00	\$0.00	\$0.00
12/15/2017	8	0.000	0.000	\$97.66	\$131.22	\$0.00	\$0.00	\$0.00
12/15/2017	9	0.000	0.000	\$93.25	\$115.98	\$0.00	\$0.00	\$0.00
12/15/2017	10	0.000	0.000	\$99.27	\$122.98	\$0.00	\$0.00	\$0.00
12/15/2017	11	0.000	0.000	\$79.26	\$103.52	\$0.00	\$0.00	\$0.00
12/15/2017	12	0.000	0.000	\$73.32	\$103.24	\$0.00	\$0.00	\$0.00
12/15/2017	13	0.000	0.000	\$65.04	\$100.94	\$0.00	\$0.00	\$0.00
12/15/2017	14	0.000	0.000	\$60.20	\$81.39	\$0.00	\$0.00	\$0.00
12/15/2017	15	0.000	0.000	\$59.97	\$80.87	\$0.00	\$0.00	\$0.00
12/15/2017	16	0.000	0.000	\$64.32	\$108.07	\$0.00	\$0.00	\$0.00
12/15/2017	17	0.000	0.000	\$88.05	\$98.98	\$0.00	\$0.00	\$0.00
12/15/2017	18	0.000	0.000	\$92.59	\$126.75	\$0.00	\$0.00	\$0.00
12/15/2017	19	0.000	0.000	\$84.32	\$125.92	\$0.00	\$0.00	\$0.00
12/15/2017	20	0.000	0.000	\$82.92	\$121.13	\$0.00	\$0.00	\$0.00
12/15/2017	21	0.000	0.000	\$72.52	\$116.17	\$0.00	\$0.00	\$0.00
12/15/2017	22	0.000	0.000	\$65.80	\$79.75	\$0.00	\$0.00	\$0.00
12/15/2017	23	0.000	0.000	\$55.82	\$62.72	\$0.00	\$0.00	\$0.00
12/15/2017	24	0.000	0.000	\$55.63	\$79.55	\$0.00	\$0.00	\$0.00
12/16/2017	1	0.000	0.000	\$60.27	\$69.31	\$0.00	\$0.00	\$0.00
12/16/2017	2	0.000	0.000	\$55.77	\$58.08	\$0.00	\$0.00	\$0.00
12/16/2017	3	0.000	0.000	\$57.16	\$57.80	\$0.00	\$0.00	\$0.00
12/16/2017	4	0.000	0.000	\$54.93	\$63.75	\$0.00	\$0.00	\$0.00
12/16/2017	5	0.000	0.000	\$55.66	\$63.61	\$0.00	\$0.00	\$0.00
12/16/2017	6	0.000	0.000	\$55.76	\$63.53	\$0.00	\$0.00	\$0.00
12/16/2017	7	0.000	0.000	\$58.48	\$64.99	\$0.00	\$0.00	\$0.00
12/16/2017	8	0.000	0.000	\$62.24	\$85.44	\$0.00	\$0.00	\$0.00
12/16/2017	9	0.000	0.000	\$64.62	\$90.19	\$0.00	\$0.00	\$0.00
12/16/2017	10	0.000	0.000	\$68.69	\$90.61	\$0.00	\$0.00	\$0.00
12/16/2017	11	0.000	0.000	\$63.52	\$74.15	\$0.00	\$0.00	\$0.00
12/16/2017	12	0.000	0.000	\$62.93	\$60.71	\$0.00	\$0.00	\$0.00
12/16/2017	13	0.000	0.000	\$54.16	\$58.86	\$0.00	\$0.00	\$0.00
12/16/2017	14	0.000	0.000	\$51.57	\$61.54	\$0.00	\$0.00	\$0.00
12/16/2017	15	0.000	0.000	\$50.32	\$59.07	\$0.00	\$0.00	\$0.00
12/16/2017	16	0.000	0.000	\$53.92	\$59.08	\$0.00	\$0.00	\$0.00
12/16/2017	17	0.000	0.000	\$65.88	\$68.44	\$0.00	\$0.00	\$0.00
12/16/2017	18	0.000	0.000	\$87.42	\$89.73	\$0.00	\$0.00	\$0.00
12/16/2017	19	0.000	0.000	\$67.00	\$64.18	\$0.00	\$0.00	\$0.00
12/16/2017	20	0.000	0.000	\$64.77	\$54.87	\$0.00	\$0.00	\$0.00
12/16/2017	21	0.000	0.000	\$64.34	\$54.02	\$0.00	\$0.00	\$0.00
12/16/2017	22	0.000	0.000	\$58.56	\$52.58	\$0.00	\$0.00	\$0.00
12/16/2017	23	0.000	0.000	\$50.26	\$44.92	\$0.00	\$0.00	\$0.00
12/16/2017	24	0.000	0.000	\$48.58	\$46.28	\$0.00	\$0.00	\$0.00
12/17/2017	1	0.000	0.000	\$65.62	\$54.15	\$0.00	\$0.00	\$0.00
12/17/2017	2	0.000	0.000	\$56.51	\$49.57	\$0.00	\$0.00	\$0.00
12/17/2017	3	0.000	0.000	\$58.92	\$52.07	\$0.00	\$0.00	\$0.00
12/17/2017	4	0.000	0.000	\$56.94	\$60.52	\$0.00	\$0.00	\$0.00

12/17/2017	5	0.000	0.000	\$60.69	\$60.00	\$0.00	\$0.00	\$0.00
12/17/2017	6	0.000	0.000	\$65.77	\$67.92	\$0.00	\$0.00	\$0.00
12/17/2017	7	0.000	0.000	\$62.89	\$53.34	\$0.00	\$0.00	\$0.00
12/17/2017	8	0.000	0.000	\$61.82	\$66.90	\$0.00	\$0.00	\$0.00
12/17/2017	9	0.000	0.000	\$63.61	\$80.88	\$0.00	\$0.00	\$0.00
12/17/2017	10	0.000	0.000	\$72.27	\$77.22	\$0.00	\$0.00	\$0.00
12/17/2017	11	0.000	0.000	\$65.14	\$73.03	\$0.00	\$0.00	\$0.00
12/17/2017	12	0.000	0.000	\$63.73	\$68.58	\$0.00	\$0.00	\$0.00
12/17/2017	13	0.000	0.000	\$66.13	\$76.66	\$0.00	\$0.00	\$0.00
12/17/2017	14	0.000	0.000	\$65.06	\$80.64	\$0.00	\$0.00	\$0.00
12/17/2017	15	0.000	0.000	\$56.51	\$65.73	\$0.00	\$0.00	\$0.00
12/17/2017	16	0.000	0.000	\$63.60	\$69.38	\$0.00	\$0.00	\$0.00
12/17/2017	17	0.000	0.000	\$74.19	\$84.86	\$0.00	\$0.00	\$0.00
12/17/2017	18	0.000	0.000	\$104.07	\$124.11	\$0.00	\$0.00	\$0.00
12/17/2017	19	0.000	0.000	\$99.12	\$251.71	\$0.00	\$0.00	\$0.00
12/17/2017	20	0.000	0.000	\$73.25	\$127.26	\$0.00	\$0.00	\$0.00
12/17/2017	21	0.000	0.000	\$67.69	\$122.85	\$0.00	\$0.00	\$0.00
12/17/2017	22	0.000	0.000	\$67.97	\$110.53	\$0.00	\$0.00	\$0.00
12/17/2017	23	0.000	0.000	\$64.36	\$93.59	\$0.00	\$0.00	\$0.00
12/17/2017	24	0.000	0.000	\$51.92	\$100.25	\$0.00	\$0.00	\$0.00
12/18/2017	1	0.000	0.000	\$61.29	\$87.39	\$0.00	\$0.00	\$0.00
12/18/2017	2	0.000	0.000	\$66.65	\$140.61	\$0.00	\$0.00	\$0.00
12/18/2017	3	0.000	0.000	\$62.05	\$127.69	\$0.00	\$0.00	\$0.00
12/18/2017	4	0.000	0.000	\$62.47	\$115.83	\$0.00	\$0.00	\$0.00
12/18/2017	5	0.000	0.000	\$61.36	\$170.71	\$0.00	\$0.00	\$0.00
12/18/2017	6	0.000	0.000	\$67.08	\$200.27	\$0.00	\$0.00	\$0.00
12/18/2017	7	0.000	0.000	\$85.50	\$195.92	\$0.00	\$0.00	\$0.00
12/18/2017	8	0.000	0.000	\$79.08	\$191.81	\$0.00	\$0.00	\$0.00
12/18/2017	9	0.000	0.000	\$79.07	\$187.69	\$0.00	\$0.00	\$0.00
12/18/2017	10	0.000	0.000	\$61.81	\$137.24	\$0.00	\$0.00	\$0.00
12/18/2017	11	0.000	0.000	\$57.10	\$108.72	\$0.00	\$0.00	\$0.00
12/18/2017	12	0.000	0.000	\$55.25	\$101.29	\$0.00	\$0.00	\$0.00
12/18/2017	13	0.000	0.000	\$55.08	\$105.45	\$0.00	\$0.00	\$0.00
12/18/2017	14	0.000	0.000	\$58.44	\$109.25	\$0.00	\$0.00	\$0.00
12/18/2017	15	0.000	0.000	\$57.16	\$99.93	\$0.00	\$0.00	\$0.00
12/18/2017	16	0.000	0.000	\$60.54	\$103.28	\$0.00	\$0.00	\$0.00
12/18/2017	17	0.000	0.000	\$75.59	\$148.89	\$0.00	\$0.00	\$0.00
12/18/2017	18	0.000	0.000	\$91.35	\$153.91	\$0.00	\$0.00	\$0.00
12/18/2017	19	0.000	0.000	\$78.59	\$141.45	\$0.00	\$0.00	\$0.00
12/18/2017	20	0.000	0.000	\$68.44	\$123.51	\$0.00	\$0.00	\$0.00
12/18/2017	21	0.000	0.000	\$63.57	\$117.70	\$0.00	\$0.00	\$0.00
12/18/2017	22	0.000	0.000	\$60.56	\$145.98	\$0.00	\$0.00	\$0.00
12/18/2017	23	0.000	0.000	\$50.00	\$133.87	\$0.00	\$0.00	\$0.00
12/18/2017	24	0.000	0.000	\$46.04	\$144.47	\$0.00	\$0.00	\$0.00
12/19/2017	1	0.000	0.000	\$51.69	\$71.58	\$0.00	\$0.00	\$0.00
12/19/2017	2	0.000	0.000	\$48.15	\$53.21	\$0.00	\$0.00	\$0.00
12/19/2017	3	0.000	0.000	\$48.13	\$53.71	\$0.00	\$0.00	\$0.00
12/19/2017	4	0.000	0.000	\$48.10	\$59.70	\$0.00	\$0.00	\$0.00
12/19/2017	5	0.000	0.000	\$50.42	\$90.18	\$0.00	\$0.00	\$0.00

12/19/2017	6	0.000	0.000	\$54.76	\$62.04	\$0.00	\$0.00	\$0.00
12/19/2017	7	0.000	0.000	\$59.46	\$51.25	\$0.00	\$0.00	\$0.00
12/19/2017	8	0.000	0.000	\$69.17	\$95.09	\$0.00	\$0.00	\$0.00
12/19/2017	9	0.000	0.000	\$76.02	\$99.38	\$0.00	\$0.00	\$0.00
12/19/2017	10	0.000	0.000	\$71.02	\$100.38	\$0.00	\$0.00	\$0.00
12/19/2017	11	0.000	0.000	\$58.32	\$88.86	\$0.00	\$0.00	\$0.00
12/19/2017	12	0.000	0.000	\$53.26	\$59.62	\$0.00	\$0.00	\$0.00
12/19/2017	13	0.000	0.000	\$49.63	\$40.80	\$0.00	\$0.00	\$0.00
12/19/2017	14	0.000	0.000	\$43.85	\$32.26	\$0.00	\$0.00	\$0.00
12/19/2017	15	0.000	0.000	\$44.94	\$37.39	\$0.00	\$0.00	\$0.00
12/19/2017	16	0.000	0.000	\$46.92	\$38.60	\$0.00	\$0.00	\$0.00
12/19/2017	17	0.000	0.000	\$57.69	\$37.25	\$0.00	\$0.00	\$0.00
12/19/2017	18	0.000	0.000	\$68.66	\$57.51	\$0.00	\$0.00	\$0.00
12/19/2017	19	0.000	0.000	\$59.29	\$44.75	\$0.00	\$0.00	\$0.00
12/19/2017	20	0.000	0.000	\$49.32	\$37.07	\$0.00	\$0.00	\$0.00
12/19/2017	21	0.000	0.000	\$44.95	\$35.48	\$0.00	\$0.00	\$0.00
12/19/2017	22	0.000	0.000	\$39.02	\$38.75	\$0.00	\$0.00	\$0.00
12/19/2017	23	0.000	0.000	\$34.42	\$41.86	\$0.00	\$0.00	\$0.00
12/19/2017	24	0.000	0.000	\$29.89	\$30.01	\$0.00	\$0.00	\$0.00
12/20/2017	1	0.000	0.000	\$38.03	\$23.12	\$0.00	\$0.00	\$0.00
12/20/2017	2	0.000	0.000	\$37.93	\$21.88	\$0.00	\$0.00	\$0.00
12/20/2017	3	0.000	0.000	\$36.57	\$7.55	\$0.00	\$0.00	\$0.00
12/20/2017	4	0.000	0.000	\$36.86	-\$1.85	\$0.00	\$0.00	\$0.00
12/20/2017	5	0.000	0.000	\$37.36	\$12.15	\$0.00	\$0.00	\$0.00
12/20/2017	6	0.000	0.000	\$43.65	-\$32.80	\$0.00	\$0.00	\$0.00
12/20/2017	7	0.000	0.000	\$44.63	\$14.59	\$0.00	\$0.00	\$0.00
12/20/2017	8	0.000	0.000	\$58.63	\$28.12	\$0.00	\$0.00	\$0.00
12/20/2017	9	0.000	0.000	\$60.04	\$29.98	\$0.00	\$0.00	\$0.00
12/20/2017	10	0.000	0.000	\$57.18	\$21.37	\$0.00	\$0.00	\$0.00
12/20/2017	11	0.000	0.000	\$55.76	\$28.80	\$0.00	\$0.00	\$0.00
12/20/2017	12	0.000	0.000	\$54.14	\$28.92	\$0.00	\$0.00	\$0.00
12/20/2017	13	0.000	0.000	\$51.45	\$14.96	\$0.00	\$0.00	\$0.00
12/20/2017	14	0.000	0.000	\$49.75	\$25.94	\$0.00	\$0.00	\$0.00
12/20/2017	15	0.000	0.000	\$49.18	\$23.59	\$0.00	\$0.00	\$0.00
12/20/2017	16	0.000	0.000	\$54.17	\$20.75	\$0.00	\$0.00	\$0.00
12/20/2017	17	0.000	0.000	\$83.00	\$46.63	\$0.00	\$0.00	\$0.00
12/20/2017	18	0.000	0.000	\$89.61	\$57.21	\$0.00	\$0.00	\$0.00
12/20/2017	19	0.000	0.000	\$85.50	\$59.69	\$0.00	\$0.00	\$0.00
12/20/2017	20	0.000	0.000	\$83.87	\$59.20	\$0.00	\$0.00	\$0.00
12/20/2017	21	0.000	0.000	\$80.17	\$55.99	\$0.00	\$0.00	\$0.00
12/20/2017	22	0.000	0.000	\$63.31	\$52.68	\$0.00	\$0.00	\$0.00
12/20/2017	23	0.000	0.000	\$54.25	\$36.51	\$0.00	\$0.00	\$0.00
12/20/2017	24	0.000	0.000	\$45.55	\$31.37	\$0.00	\$0.00	\$0.00
12/21/2017	1	0.000	0.000	\$58.63	\$47.44	\$0.00	\$0.00	\$0.00
12/21/2017	2	0.000	0.000	\$45.26	\$34.35	\$0.00	\$0.00	\$0.00
12/21/2017	3	0.000	0.000	\$54.26	\$23.29	\$0.00	\$0.00	\$0.00
12/21/2017	4	0.000	0.000	\$55.36	\$35.02	\$0.00	\$0.00	\$0.00
12/21/2017	5	0.000	0.000	\$58.58	\$35.06	\$0.00	\$0.00	\$0.00
12/21/2017	6	0.000	0.000	\$71.32	\$39.23	\$0.00	\$0.00	\$0.00

12/21/2017	7	0.000	0.000	\$93.79	\$59.31	\$0.00	\$0.00	\$0.00
12/21/2017	8	0.000	0.000	\$91.74	\$65.17	\$0.00	\$0.00	\$0.00
12/21/2017	9	0.000	0.000	\$88.16	\$64.52	\$0.00	\$0.00	\$0.00
12/21/2017	10	0.000	0.000	\$86.29	\$60.97	\$0.00	\$0.00	\$0.00
12/21/2017	11	0.000	0.000	\$86.16	\$56.44	\$0.00	\$0.00	\$0.00
12/21/2017	12	0.000	0.000	\$75.28	\$47.70	\$0.00	\$0.00	\$0.00
12/21/2017	13	0.000	0.000	\$65.97	\$47.27	\$0.00	\$0.00	\$0.00
12/21/2017	14	0.000	0.000	\$66.36	\$45.99	\$0.00	\$0.00	\$0.00
12/21/2017	15	0.000	0.000	\$65.36	\$56.44	\$0.00	\$0.00	\$0.00
12/21/2017	16	0.000	0.000	\$77.03	\$68.03	\$0.00	\$0.00	\$0.00
12/21/2017	17	0.000	0.000	\$87.02	\$71.27	\$0.00	\$0.00	\$0.00
12/21/2017	18	0.000	0.000	\$99.53	\$80.24	\$0.00	\$0.00	\$0.00
12/21/2017	19	0.000	0.000	\$89.14	\$78.06	\$0.00	\$0.00	\$0.00
12/21/2017	20	0.000	0.000	\$86.46	\$68.92	\$0.00	\$0.00	\$0.00
12/21/2017	21	0.000	0.000	\$89.67	\$69.13	\$0.00	\$0.00	\$0.00
12/21/2017	22	0.000	0.000	\$82.96	\$81.13	\$0.00	\$0.00	\$0.00
12/21/2017	23	0.000	0.000	\$75.31	\$55.92	\$0.00	\$0.00	\$0.00
12/21/2017	24	0.000	0.000	\$62.00	\$41.44	\$0.00	\$0.00	\$0.00
12/22/2017	1	0.000	0.000	\$69.13	\$41.36	\$0.00	\$0.00	\$0.00
12/22/2017	2	0.000	0.000	\$55.57	\$23.42	\$0.00	\$0.00	\$0.00
12/22/2017	3	0.000	0.000	\$54.02	\$23.20	\$0.00	\$0.00	\$0.00
12/22/2017	4	0.000	0.000	\$54.16	\$23.48	\$0.00	\$0.00	\$0.00
12/22/2017	5	0.000	0.000	\$69.23	\$28.81	\$0.00	\$0.00	\$0.00
12/22/2017	6	0.000	0.000	\$74.62	\$55.98	\$0.00	\$0.00	\$0.00
12/22/2017	7	0.000	0.000	\$80.60	\$69.70	\$0.00	\$0.00	\$0.00
12/22/2017	8	0.000	0.000	\$93.91	\$82.87	\$0.00	\$0.00	\$0.00
12/22/2017	9	0.000	0.000	\$91.02	\$87.54	\$0.00	\$0.00	\$0.00
12/22/2017	10	0.000	0.000	\$95.29	\$81.87	\$0.00	\$0.00	\$0.00
12/22/2017	11	0.000	0.000	\$79.68	\$91.63	\$0.00	\$0.00	\$0.00
12/22/2017	12	0.000	0.000	\$75.30	\$87.14	\$0.00	\$0.00	\$0.00
12/22/2017	13	0.000	0.000	\$73.25	\$66.48	\$0.00	\$0.00	\$0.00
12/22/2017	14	0.000	0.000	\$71.61	\$62.33	\$0.00	\$0.00	\$0.00
12/22/2017	15	0.000	0.000	\$67.77	\$69.73	\$0.00	\$0.00	\$0.00
12/22/2017	16	0.000	0.000	\$72.33	\$75.89	\$0.00	\$0.00	\$0.00
12/22/2017	17	0.000	0.000	\$85.86	\$88.46	\$0.00	\$0.00	\$0.00
12/22/2017	18	0.000	0.000	\$95.87	\$129.18	\$0.00	\$0.00	\$0.00
12/22/2017	19	0.000	0.000	\$76.64	\$124.83	\$0.00	\$0.00	\$0.00
12/22/2017	20	0.000	0.000	\$73.66	\$98.64	\$0.00	\$0.00	\$0.00
12/22/2017	21	0.000	0.000	\$67.87	\$68.83	\$0.00	\$0.00	\$0.00
12/22/2017	22	0.000	0.000	\$56.21	\$54.69	\$0.00	\$0.00	\$0.00
12/22/2017	23	0.000	0.000	\$52.45	\$91.43	\$0.00	\$0.00	\$0.00
12/22/2017	24	0.000	0.000	\$41.88	\$55.46	\$0.00	\$0.00	\$0.00
12/23/2017	1	0.000	0.000	\$72.22	\$120.48	\$0.00	\$0.00	\$0.00
12/23/2017	2	0.000	0.000	\$55.74	\$202.49	\$0.00	\$0.00	\$0.00
12/23/2017	3	0.000	0.000	\$52.03	\$185.82	\$0.00	\$0.00	\$0.00
12/23/2017	4	0.000	0.000	\$50.14	\$142.98	\$0.00	\$0.00	\$0.00
12/23/2017	5	0.000	0.000	\$55.75	\$149.70	\$0.00	\$0.00	\$0.00
12/23/2017	6	0.000	0.000	\$58.31	\$65.64	\$0.00	\$0.00	\$0.00
12/23/2017	7	0.000	0.000	\$64.14	\$128.10	\$0.00	\$0.00	\$0.00

12/23/2017	8	0.000	0.000	\$61.63	\$176.37	\$0.00	\$0.00	\$0.00
12/23/2017	9	0.000	0.000	\$65.46	\$114.17	\$0.00	\$0.00	\$0.00
12/23/2017	10	0.000	0.000	\$74.65	\$132.58	\$0.00	\$0.00	\$0.00
12/23/2017	11	0.000	0.000	\$72.70	\$182.21	\$0.00	\$0.00	\$0.00
12/23/2017	12	0.000	0.000	\$73.98	\$199.34	\$0.00	\$0.00	\$0.00
12/23/2017	13	0.000	0.000	\$58.99	\$170.17	\$0.00	\$0.00	\$0.00
12/23/2017	14	0.000	0.000	\$52.97	\$140.81	\$0.00	\$0.00	\$0.00
12/23/2017	15	0.000	0.000	\$47.93	\$118.13	\$0.00	\$0.00	\$0.00
12/23/2017	16	0.000	0.000	\$52.79	\$67.25	\$0.00	\$0.00	\$0.00
12/23/2017	17	0.000	0.000	\$68.30	\$79.25	\$0.00	\$0.00	\$0.00
12/23/2017	18	0.000	0.000	\$75.48	\$97.35	\$0.00	\$0.00	\$0.00
12/23/2017	19	0.000	0.000	\$59.54	\$58.76	\$0.00	\$0.00	\$0.00
12/23/2017	20	0.000	0.000	\$55.52	\$64.28	\$0.00	\$0.00	\$0.00
12/23/2017	21	0.000	0.000	\$49.30	\$59.60	\$0.00	\$0.00	\$0.00
12/23/2017	22	0.000	0.000	\$40.65	\$64.73	\$0.00	\$0.00	\$0.00
12/23/2017	23	0.000	0.000	\$45.01	\$73.20	\$0.00	\$0.00	\$0.00
12/23/2017	24	0.000	0.000	\$42.93	\$72.09	\$0.00	\$0.00	\$0.00
12/24/2017	1	0.000	0.000	\$53.27	\$61.51	\$0.00	\$0.00	\$0.00
12/24/2017	2	0.000	0.000	\$54.62	\$53.55	\$0.00	\$0.00	\$0.00
12/24/2017	3	0.000	0.000	\$53.31	\$39.73	\$0.00	\$0.00	\$0.00
12/24/2017	4	0.000	0.000	\$50.13	\$36.14	\$0.00	\$0.00	\$0.00
12/24/2017	5	0.000	0.000	\$46.40	\$37.63	\$0.00	\$0.00	\$0.00
12/24/2017	6	0.000	0.000	\$70.45	\$39.68	\$0.00	\$0.00	\$0.00
12/24/2017	7	0.000	0.000	\$47.75	\$24.94	\$0.00	\$0.00	\$0.00
12/24/2017	8	0.000	0.000	\$59.17	\$41.06	\$0.00	\$0.00	\$0.00
12/24/2017	9	0.000	0.000	\$65.05	\$44.19	\$0.00	\$0.00	\$0.00
12/24/2017	10	0.000	0.000	\$67.54	\$56.24	\$0.00	\$0.00	\$0.00
12/24/2017	11	0.000	0.000	\$75.14	\$60.37	\$0.00	\$0.00	\$0.00
12/24/2017	12	0.000	0.000	\$78.64	\$59.93	\$0.00	\$0.00	\$0.00
12/24/2017	13	0.000	0.000	\$67.25	\$59.76	\$0.00	\$0.00	\$0.00
12/24/2017	14	0.000	0.000	\$60.63	\$59.29	\$0.00	\$0.00	\$0.00
12/24/2017	15	0.000	0.000	\$59.51	\$59.41	\$0.00	\$0.00	\$0.00
12/24/2017	16	0.000	0.000	\$60.85	\$61.49	\$0.00	\$0.00	\$0.00
12/24/2017	17	0.000	0.000	\$91.73	\$86.52	\$0.00	\$0.00	\$0.00
12/24/2017	18	0.000	0.000	\$105.02	\$83.10	\$0.00	\$0.00	\$0.00
12/24/2017	19	0.000	0.000	\$94.98	\$63.29	\$0.00	\$0.00	\$0.00
12/24/2017	20	0.000	0.000	\$90.82	\$59.19	\$0.00	\$0.00	\$0.00
12/24/2017	21	0.000	0.000	\$71.19	\$42.81	\$0.00	\$0.00	\$0.00
12/24/2017	22	0.000	0.000	\$60.85	\$44.78	\$0.00	\$0.00	\$0.00
12/24/2017	23	0.000	0.000	\$71.05	\$42.13	\$0.00	\$0.00	\$0.00
12/24/2017	24	0.000	0.000	\$60.84	\$52.90	\$0.00	\$0.00	\$0.00
12/25/2017	1	0.000	0.000	\$38.39	\$34.84	\$0.00	\$0.00	\$0.00
12/25/2017	2	0.000	0.000	\$30.47	\$33.66	\$0.00	\$0.00	\$0.00
12/25/2017	3	0.000	0.000	\$35.70	\$25.37	\$0.00	\$0.00	\$0.00
12/25/2017	4	0.000	0.000	\$34.80	\$25.63	\$0.00	\$0.00	\$0.00
12/25/2017	5	0.000	0.000	\$35.76	\$38.94	\$0.00	\$0.00	\$0.00
12/25/2017	6	0.000	0.000	\$39.47	\$33.77	\$0.00	\$0.00	\$0.00
12/25/2017	7	0.000	0.000	\$44.41	\$37.73	\$0.00	\$0.00	\$0.00
12/25/2017	8	0.000	0.000	\$54.42	\$42.69	\$0.00	\$0.00	\$0.00

12/25/2017	9	0.000	0.000	\$59.78	\$96.71	\$0.00	\$0.00	\$0.00
12/25/2017	10	0.000	0.000	\$88.41	\$165.47	\$0.00	\$0.00	\$0.00
12/25/2017	11	0.000	0.000	\$86.36	\$163.79	\$0.00	\$0.00	\$0.00
12/25/2017	12	0.000	0.000	\$93.32	\$153.68	\$0.00	\$0.00	\$0.00
12/25/2017	13	0.000	0.000	\$84.01	\$167.10	\$0.00	\$0.00	\$0.00
12/25/2017	14	0.000	0.000	\$59.73	\$155.02	\$0.00	\$0.00	\$0.00
12/25/2017	15	0.000	0.000	\$59.59	\$136.35	\$0.00	\$0.00	\$0.00
12/25/2017	16	0.000	0.000	\$59.85	\$94.26	\$0.00	\$0.00	\$0.00
12/25/2017	17	0.000	0.000	\$90.65	\$93.32	\$0.00	\$0.00	\$0.00
12/25/2017	18	0.000	0.000	\$116.75	\$128.45	\$0.00	\$0.00	\$0.00
12/25/2017	19	0.000	0.000	\$108.18	\$116.04	\$0.00	\$0.00	\$0.00
12/25/2017	20	0.000	0.000	\$107.78	\$106.57	\$0.00	\$0.00	\$0.00
12/25/2017	21	0.000	0.000	\$93.04	\$103.43	\$0.00	\$0.00	\$0.00
12/25/2017	22	0.000	0.000	\$89.13	\$80.24	\$0.00	\$0.00	\$0.00
12/25/2017	23	0.000	0.000	\$61.95	\$65.95	\$0.00	\$0.00	\$0.00
12/25/2017	24	0.000	0.000	\$56.89	\$80.04	\$0.00	\$0.00	\$0.00
12/26/2017	1	0.000	0.000	\$110.19	\$88.99	\$0.00	\$0.00	\$0.00
12/26/2017	2	0.000	0.000	\$81.22	\$98.07	\$0.00	\$0.00	\$0.00
12/26/2017	3	0.000	0.000	\$83.58	\$99.30	\$0.00	\$0.00	\$0.00
12/26/2017	4	0.000	0.000	\$81.23	\$104.99	\$0.00	\$0.00	\$0.00
12/26/2017	5	0.000	0.000	\$87.03	\$99.06	\$0.00	\$0.00	\$0.00
12/26/2017	6	0.000	0.000	\$87.13	\$66.91	\$0.00	\$0.00	\$0.00
12/26/2017	7	0.000	0.000	\$97.89	\$49.36	\$0.00	\$0.00	\$0.00
12/26/2017	8	0.000	0.000	\$116.78	\$75.04	\$0.00	\$0.00	\$0.00
12/26/2017	9	0.000	0.000	\$94.34	\$77.93	\$0.00	\$0.00	\$0.00
12/26/2017	10	0.000	0.000	\$105.19	\$79.74	\$0.00	\$0.00	\$0.00
12/26/2017	11	0.000	0.000	\$98.78	\$92.03	\$0.00	\$0.00	\$0.00
12/26/2017	12	0.000	0.000	\$96.53	\$93.76	\$0.00	\$0.00	\$0.00
12/26/2017	13	0.000	0.000	\$96.49	\$85.61	\$0.00	\$0.00	\$0.00
12/26/2017	14	0.000	0.000	\$84.25	\$90.27	\$0.00	\$0.00	\$0.00
12/26/2017	15	0.000	0.000	\$84.25	\$97.39	\$0.00	\$0.00	\$0.00
12/26/2017	16	0.000	0.000	\$92.27	\$109.03	\$0.00	\$0.00	\$0.00
12/26/2017	17	0.000	0.000	\$114.19	\$139.26	\$0.00	\$0.00	\$0.00
12/26/2017	18	0.000	0.000	\$141.52	\$168.31	\$0.00	\$0.00	\$0.00
12/26/2017	19	0.000	0.000	\$129.61	\$165.83	\$0.00	\$0.00	\$0.00
12/26/2017	20	0.000	0.000	\$128.86	\$171.59	\$0.00	\$0.00	\$0.00
12/26/2017	21	0.000	0.000	\$117.00	\$142.82	\$0.00	\$0.00	\$0.00
12/26/2017	22	0.000	0.000	\$98.26	\$111.88	\$0.00	\$0.00	\$0.00
12/26/2017	23	0.000	0.000	\$96.36	\$88.86	\$0.00	\$0.00	\$0.00
12/26/2017	24	0.000	0.000	\$86.16	\$71.58	\$0.00	\$0.00	\$0.00
12/27/2017	1	0.000	0.000	\$126.52	\$172.09	\$0.00	\$0.00	\$0.00
12/27/2017	2	0.000	0.000	\$104.65	\$190.91	\$0.00	\$0.00	\$0.00
12/27/2017	3	0.000	0.000	\$89.07	\$162.51	\$0.00	\$0.00	\$0.00
12/27/2017	4	0.000	0.000	\$97.40	\$170.24	\$0.00	\$0.00	\$0.00
12/27/2017	5	0.000	0.000	\$98.27	\$181.57	\$0.00	\$0.00	\$0.00
12/27/2017	6	0.000	0.000	\$126.44	\$231.17	\$0.00	\$0.00	\$0.00
12/27/2017	7	0.000	0.000	\$124.56	\$236.96	\$0.00	\$0.00	\$0.00
12/27/2017	8	0.000	0.000	\$125.91	\$223.77	\$0.00	\$0.00	\$0.00
12/27/2017	9	0.000	0.000	\$129.68	\$234.41	\$0.00	\$0.00	\$0.00

12/27/2017	10	0.000	0.000	\$130.35	\$209.17	\$0.00	\$0.00	\$0.00
12/27/2017	11	0.000	0.000	\$135.26	\$230.00	\$0.00	\$0.00	\$0.00
12/27/2017	12	0.000	0.000	\$135.08	\$201.77	\$0.00	\$0.00	\$0.00
12/27/2017	13	0.000	0.000	\$127.02	\$168.81	\$0.00	\$0.00	\$0.00
12/27/2017	14	0.000	0.000	\$114.69	\$131.12	\$0.00	\$0.00	\$0.00
12/27/2017	15	0.000	0.000	\$113.75	\$122.17	\$0.00	\$0.00	\$0.00
12/27/2017	16	0.000	0.000	\$124.23	\$137.77	\$0.00	\$0.00	\$0.00
12/27/2017	17	0.000	0.000	\$152.89	\$175.69	\$0.00	\$0.00	\$0.00
12/27/2017	18	0.000	0.000	\$176.85	\$187.66	\$0.00	\$0.00	\$0.00
12/27/2017	19	0.000	0.000	\$168.68	\$187.15	\$0.00	\$0.00	\$0.00
12/27/2017	20	0.000	0.000	\$152.00	\$160.88	\$0.00	\$0.00	\$0.00
12/27/2017	21	0.000	0.000	\$148.07	\$150.04	\$0.00	\$0.00	\$0.00
12/27/2017	22	0.000	0.000	\$127.20	\$120.26	\$0.00	\$0.00	\$0.00
12/27/2017	23	0.000	0.000	\$122.61	\$115.16	\$0.00	\$0.00	\$0.00
12/27/2017	24	0.000	0.000	\$122.06	\$100.41	\$0.00	\$0.00	\$0.00
12/28/2017	1	0.000	0.000	\$172.60	\$131.81	\$0.00	\$0.00	\$0.00
12/28/2017	2	0.000	0.000	\$148.92	\$126.41	\$0.00	\$0.00	\$0.00
12/28/2017	3	0.000	0.000	\$138.65	\$131.34	\$0.00	\$0.00	\$0.00
12/28/2017	4	0.000	0.000	\$145.15	\$123.28	\$0.00	\$0.00	\$0.00
12/28/2017	5	0.000	0.000	\$140.68	\$123.93	\$0.00	\$0.00	\$0.00
12/28/2017	6	0.000	0.000	\$140.33	\$118.34	\$0.00	\$0.00	\$0.00
12/28/2017	7	0.000	0.000	\$144.37	\$164.70	\$0.00	\$0.00	\$0.00
12/28/2017	8	0.000	0.000	\$164.81	\$328.37	\$0.00	\$0.00	\$0.00
12/28/2017	9	0.000	0.000	\$163.81	\$196.34	\$0.00	\$0.00	\$0.00
12/28/2017	10	0.000	0.000	\$172.18	\$167.04	\$0.00	\$0.00	\$0.00
12/28/2017	11	0.000	0.000	\$162.57	\$187.06	\$0.00	\$0.00	\$0.00
12/28/2017	12	0.000	0.000	\$152.61	\$188.86	\$0.00	\$0.00	\$0.00
12/28/2017	13	0.000	0.000	\$144.67	\$143.73	\$0.00	\$0.00	\$0.00
12/28/2017	14	0.000	0.000	\$136.60	\$130.08	\$0.00	\$0.00	\$0.00
12/28/2017	15	0.000	0.000	\$135.83	\$132.96	\$0.00	\$0.00	\$0.00
12/28/2017	16	0.000	0.000	\$142.32	\$142.17	\$0.00	\$0.00	\$0.00
12/28/2017	17	0.000	0.000	\$172.26	\$184.09	\$0.00	\$0.00	\$0.00
12/28/2017	18	0.000	0.000	\$203.04	\$233.55	\$0.00	\$0.00	\$0.00
12/28/2017	19	0.000	0.000	\$196.94	\$233.76	\$0.00	\$0.00	\$0.00
12/28/2017	20	0.000	0.000	\$190.71	\$235.29	\$0.00	\$0.00	\$0.00
12/28/2017	21	0.000	0.000	\$169.58	\$191.88	\$0.00	\$0.00	\$0.00
12/28/2017	22	0.000	0.000	\$153.42	\$142.42	\$0.00	\$0.00	\$0.00
12/28/2017	23	0.000	0.000	\$143.59	\$126.22	\$0.00	\$0.00	\$0.00
12/28/2017	24	0.000	0.000	\$145.12	\$129.17	\$0.00	\$0.00	\$0.00
12/29/2017	1	0.000	0.000	\$147.03	\$133.38	\$0.00	\$0.00	\$0.00
12/29/2017	2	0.000	0.000	\$142.71	\$131.58	\$0.00	\$0.00	\$0.00
12/29/2017	3	0.000	0.000	\$137.06	\$132.49	\$0.00	\$0.00	\$0.00
12/29/2017	4	0.000	0.000	\$136.42	\$132.35	\$0.00	\$0.00	\$0.00
12/29/2017	5	0.000	0.000	\$143.80	\$131.34	\$0.00	\$0.00	\$0.00
12/29/2017	6	0.000	0.000	\$152.72	\$132.27	\$0.00	\$0.00	\$0.00
12/29/2017	7	0.000	0.000	\$161.39	\$172.38	\$0.00	\$0.00	\$0.00
12/29/2017	8	0.000	0.000	\$170.95	\$195.03	\$0.00	\$0.00	\$0.00
12/29/2017	9	0.000	0.000	\$194.36	\$216.70	\$0.00	\$0.00	\$0.00
12/29/2017	10	0.000	0.000	\$190.27	\$228.43	\$0.00	\$0.00	\$0.00

12/29/2017	11	0.000	0.000	\$189.42	\$262.66	\$0.00	\$0.00	\$0.00
12/29/2017	12	0.000	0.000	\$164.70	\$281.02	\$0.00	\$0.00	\$0.00
12/29/2017	13	0.000	0.000	\$158.62	\$304.63	\$0.00	\$0.00	\$0.00
12/29/2017	14	0.000	0.000	\$146.79	\$215.90	\$0.00	\$0.00	\$0.00
12/29/2017	15	0.000	0.000	\$145.68	\$198.92	\$0.00	\$0.00	\$0.00
12/29/2017	16	0.000	0.000	\$152.76	\$175.70	\$0.00	\$0.00	\$0.00
12/29/2017	17	0.000	0.000	\$166.71	\$236.39	\$0.00	\$0.00	\$0.00
12/29/2017	18	0.000	0.000	\$212.95	\$242.70	\$0.00	\$0.00	\$0.00
12/29/2017	19	0.000	0.000	\$202.75	\$215.59	\$0.00	\$0.00	\$0.00
12/29/2017	20	0.000	0.000	\$180.90	\$185.60	\$0.00	\$0.00	\$0.00
12/29/2017	21	0.000	0.000	\$163.06	\$228.30	\$0.00	\$0.00	\$0.00
12/29/2017	22	0.000	0.000	\$152.41	\$218.44	\$0.00	\$0.00	\$0.00
12/29/2017	23	0.000	0.000	\$148.72	\$255.28	\$0.00	\$0.00	\$0.00
12/29/2017	24	0.000	0.000	\$147.57	\$142.02	\$0.00	\$0.00	\$0.00
12/30/2017	1	0.000	0.000	\$149.02	\$127.79	\$0.00	\$0.00	\$0.00
12/30/2017	2	0.000	0.000	\$146.59	\$138.88	\$0.00	\$0.00	\$0.00
12/30/2017	3	0.000	0.000	\$137.79	\$130.43	\$0.00	\$0.00	\$0.00
12/30/2017	4	0.000	0.000	\$139.19	\$142.70	\$0.00	\$0.00	\$0.00
12/30/2017	5	0.000	0.000	\$144.68	\$141.11	\$0.00	\$0.00	\$0.00
12/30/2017	6	0.000	0.000	\$155.92	\$130.33	\$0.00	\$0.00	\$0.00
12/30/2017	7	0.000	0.000	\$148.40	\$129.12	\$0.00	\$0.00	\$0.00
12/30/2017	8	0.000	0.000	\$148.47	\$137.93	\$0.00	\$0.00	\$0.00
12/30/2017	9	0.052	0.000	\$177.10	\$169.04	\$0.00	\$8.79	\$8.79
12/30/2017	10	0.111	0.000	\$198.46	\$224.64	\$0.00	\$24.94	\$24.94
12/30/2017	11	0.138	0.000	\$198.21	\$239.14	\$0.00	\$33.00	\$33.00
12/30/2017	12	0.110	0.000	\$181.35	\$227.12	\$0.00	\$24.98	\$24.98
12/30/2017	13	0.086	0.000	\$143.49	\$210.62	\$0.00	\$18.11	\$18.11
12/30/2017	14	0.026	0.000	\$133.87	\$191.17	\$0.00	\$4.97	\$4.97
12/30/2017	15	0.002	0.000	\$130.85	\$160.13	\$0.00	\$0.32	\$0.32
12/30/2017	16	0.000	0.000	\$133.93	\$157.48	\$0.00	\$0.00	\$0.00
12/30/2017	17	0.000	0.000	\$188.27	\$214.58	\$0.00	\$0.00	\$0.00
12/30/2017	18	0.000	0.000	\$199.54	\$218.13	\$0.00	\$0.00	\$0.00
12/30/2017	19	0.000	0.000	\$195.99	\$209.55	\$0.00	\$0.00	\$0.00
12/30/2017	20	0.000	0.000	\$173.45	\$202.82	\$0.00	\$0.00	\$0.00
12/30/2017	21	0.000	0.000	\$148.21	\$202.83	\$0.00	\$0.00	\$0.00
12/30/2017	22	0.000	0.000	\$133.87	\$156.72	\$0.00	\$0.00	\$0.00
12/30/2017	23	0.000	0.000	\$132.61	\$129.76	\$0.00	\$0.00	\$0.00
12/30/2017	24	0.000	0.000	\$123.66	\$110.10	\$0.00	\$0.00	\$0.00
12/31/2017	1	0.000	0.000	\$136.62	\$128.17	\$0.00	\$0.00	\$0.00
12/31/2017	2	0.000	0.000	\$145.65	\$155.00	\$0.00	\$0.00	\$0.00
12/31/2017	3	0.000	0.000	\$151.10	\$192.73	\$0.00	\$0.00	\$0.00
12/31/2017	4	0.000	0.000	\$147.45	\$165.29	\$0.00	\$0.00	\$0.00
12/31/2017	5	0.000	0.000	\$149.74	\$133.84	\$0.00	\$0.00	\$0.00
12/31/2017	6	0.000	0.000	\$165.73	\$125.13	\$0.00	\$0.00	\$0.00
12/31/2017	7	0.000	0.000	\$154.88	\$126.07	\$0.00	\$0.00	\$0.00
12/31/2017	8	0.000	0.000	\$146.94	\$106.97	\$0.00	\$0.00	\$0.00
12/31/2017	9	0.049	0.000	\$155.05	\$120.80	\$0.00	\$5.92	\$5.92
12/31/2017	10	0.267	0.000	\$192.83	\$127.73	\$0.00	\$34.10	\$34.10
12/31/2017	11	0.419	0.000	\$171.92	\$130.90	\$0.00	\$54.85	\$54.85

12/31/2017	12	0.275	0.000	\$192.73	\$137.45	\$0.00	\$37.80	\$37.80
12/31/2017	13	0.209	0.000	\$166.62	\$171.61	\$0.00	\$35.87	\$35.87
12/31/2017	14	0.218	0.000	\$154.63	\$176.44	\$0.00	\$38.46	\$38.46
12/31/2017	15	0.037	0.000	\$154.88	\$181.98	\$0.00	\$6.73	\$6.73
12/31/2017	16	0.003	0.000	\$163.77	\$202.17	\$0.00	\$0.61	\$0.61
12/31/2017	17	0.000	0.000	\$214.89	\$205.30	\$0.00	\$0.00	\$0.00
12/31/2017	18	0.000	0.000	\$229.01	\$210.98	\$0.00	\$0.00	\$0.00
12/31/2017	19	0.000	0.000	\$228.76	\$186.73	\$0.00	\$0.00	\$0.00
12/31/2017	20	0.000	0.000	\$215.97	\$188.05	\$0.00	\$0.00	\$0.00
12/31/2017	21	0.000	0.000	\$214.24	\$172.13	\$0.00	\$0.00	\$0.00
12/31/2017	22	0.000	0.000	\$181.28	\$140.26	\$0.00	\$0.00	\$0.00
12/31/2017	23	0.000	0.000	\$166.29	\$158.32	\$0.00	\$0.00	\$0.00
12/31/2017	24	0.000	0.000	\$153.41	\$129.76	\$0.00	\$0.00	\$0.00
Total		11,825.409	-13.262	\$69.57	\$78.42	\$0.00	\$329.45	\$329.45