



PJM Interconnection, L.L.C.
2750 Monroe Boulevard
Audubon, PA 19403

Steven R. Pincus
Associate General Counsel
T: (610) 666-4438 | F: (610) 666-8211
steven.pincus@pjm.com

August 24, 2017

The Honorable James Richard Perry
Secretary of the Energy
United States Department of Energy
1000 Independence Ave, SW
Washington, DC 20585

Re: Order No. 202-17-2 Renewal Application Filing

Dear Secretary Perry:

Pursuant to Section 202(c) of the Federal Power Act (“FPA”),¹ Section 301(b) of the Department of Energy Organization Act,² the Department of Energy’s (“DOE”) Rules of Practice and Procedure³ and Order No. 202-17-2 (the “Order”) issued on June 16, 2017, by the Secretary of Energy (“Secretary”), PJM Interconnection, L.L.C. (“PJM”) respectfully submits a request for a 90-day renewal of the Order. PJM incorporates by reference PJM’s application submitted on June 13, 2017 (the “Application”), and all attachments and appendices thereto. Concurrent with this renewal request, PJM along with Dominion Virginia Electric and Power Company (“Dominion Energy Virginia”) submits a separate report and data required by the Order that will allow the Secretary to review past action under the Order to support the continued need for the emergency relief.

BACKGROUND

In the Application, PJM stated the need to request renewals of the Order on a rolling basis until the PJM ordered Regional Transmission Expansion Planning Process (“RTEPP”) Skiffes Creek Transmission Project is placed into service, which was at that time anticipated to

¹ 16 U.S.C. § 824a(c)

² 42 U.S.C. § § 7101 and 7151(b)

³ 16 C.F.R. §§ 205.370, 205.371 and 205.372 and 205.373

be completed 18-20 months once all permits are issued. The Secretary directed such renewal requests to be submitted 21 days prior to expiration of the Order (*i.e.* August 24, 2017) “if the conditions change – for example, if Dominion Energy Virginia obtains all permitting approvals for the RTEPP upgrade...”⁴

In the Order, the Secretary determined “that an emergency exists in the Commonwealth of Virginia due to a shortage of electric energy, a shortage of facilities for the generation of electric energy, and other causes, and that issuance of this Order will meet the emergency and serve the public interest.”⁵ In doing so, the Secretary directed Dominion Energy Virginia to operate Yorktown Units 1 and 2 as directed by PJM as needed to address reliability issues for the entire 90-day period, June 16, 2017 to September 14, 2017, or any renewal thereof.⁶

In the Order, the Secretary authorized PJM to operate Yorktown Units 1 and 2, with no planned transmission outages, to maintain reliability when Dominion Energy Virginia total load reaches approximately 18,400 MW (referred to as “Scenario 1” in the Application).⁷ The Order also authorized operation of the Yorktown Units 1 and 2 to maintain reliability at lower Dominion Energy Virginia load levels during various planned transmission outage to support construction of the Skiffes Creek Transmission Project (referred to as “Scenario 2”). As stated in the Application, under Scenario 2 the specific planned transmission outage condition will determine the Dominion Energy Virginia total load level at which the Yorktown Units are required to run to maintain reliability.⁸ A table in Appendix III of the Application included the

⁴ Order at page 2 (the RTEPP upgrade referenced in the Order is the “Skiffes Creek Transmission Project”)

⁵ Order at page 1

⁶ Order as page 2

⁷ Order at page 1

⁸ Appendix II of the Application includes examples of running the Yorktown Units at different Dominion Energy Virginia total load levels concurrent with planned transmission outages to ensure reliability.

then current estimates for Yorktown units run time for a planned transmission outage sequence starting in the summer of 2017, which was dependent upon the issuance of the Army Corps of Engineers' permit. The Army Corps' permit was issued July 3, 2017, and Dominion Energy Virginia started construction of the Skiffes Creek project on July 10, 2017. The planned transmission outages are coordinated between PJM and Dominion Energy Virginia to ensure the reliability of service in the area and to support the construction schedule.

RENEWAL REQUEST

As stated in the Application, the Skiffes Creek Transmission Project is expected to be completed and placed into service approximately 18-20 months after receipt of all applicable permits. Thus, given the extended nature of the emergency, PJM proposed to submit requests for renewals of the Secretary's emergency order for successive 90 day periods. Following issuance of the Army Corps' permit on July 3, 2017, Dominion Energy Virginia started construction of the Skiffes Creek project on July 10, 2017. Therefore, the emergency as set forth in the Application and as determined in the Order continues.

The attached Skiffes Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of August 18, 2017 (Attachment 1), includes a revised construction schedule and planned transmission outage sequence, and Yorktown run and emission estimates. Attachment 1 also provides actual emissions from the July 11-25 Yorktown unit runs, and the current estimated planned transmission outage time frames, transmission limiting contingencies, Dominion Zone load thresholds which trigger the need to operate Yorktown Units 1 and/or 2, estimated run time in days, and Dominion Energy Virginia's estimated emissions for the remainder of the Order period based on the run time estimates. PJM called on Yorktown Unit 2 to run on August 22, 2017 to ensure reliability in compliance with the

Order, and since the emission and water usage data is not yet available, the Attachment 1 will be updated with all actual run and emissions data for the 90 day period as directed in the Order when the next renewal request is submitted or as otherwise directed by the Secretary.

The attached spreadsheet (Attachment 2), Yorktown Projected Emissions, provides detailed estimated emissions for the Yorktown Units 1 and 2 on a monthly basis for August 2017 through December 2018 as well as actual emissions data for the July 11-25 runs. The construction schedule will likely change and, if necessary, PJM and Dominion Energy Virginia will provide DOE with revised construction schedules and estimated emissions with each renewal application under the Order. Given the extended nature of the emergency, PJM will continue to submit requests for renewals of the Secretary's emergency order for successive 90 day periods until such time as the Skiffes Creek Construction Transmission is completed and placed into service and the emergency no longer exists.

CONCLUSION

PJM respectfully requests that the Secretary grant this renewal application and order the continued generation of Yorktown Units 1 & 2 to alleviate the emergency described in the Application and hereinabove prior to the expiration of the current Order (i.e. September 14, 2017). PJM seeks an order of the Secretary under Section 202 (c) of the FPA which provides: (i) an emergency continues to exist in the Commonwealth of Virginia due to a shortage of electric energy, a shortage of facilities for the generation of electric energy, and other causes, and that issuance of a renewal Order will meet the emergency and serve the public interest; (ii) from September 14, 2017 to December 13, 2017, Dominion Energy Virginia is directed to operate Yorktown Units 1 and 2 as directed by PJM as needed to maintain grid reliability or for other

local area transmission issues; (iii) Dominion Energy Virginia shall continue to follow the dispatch methodology submitted by PJM on June 27, 2017, as required by the Order; and (iv) PJM and Dominion Energy Virginia shall report all dates on which Yorktown Units 1 and 2 are operated as well as the estimated emissions and water usage data associated with their operation to be submitted at least 14 days before the expiration of the renewal Order. PJM also respectfully requests that DOE clarify that the Order applied, and all renewal orders will apply, to all times where Yorktown Units 1 and 2 are needed to run for reliability, including the periods referred to as “Scenario 1” and “Scenario 2” in the Application.

REQUEST FOR CEII DESIGNATION

The filing consists of the following:

1. Non Public version of Attachments 1 (password protected containing Critical Energy Infrastructure (“CEII”) material).
2. Public version Attachments 1 (public version with CEII material redacted).

In regard to the Non Public version of Attachments 1, PJM respectfully requests the information submitted to the DOE be designated as CEII pursuant Federal Power Act (“FPA”) Section 215A(d) and the implementing regulations, 18 C.F.R. Section 388.113.

In FAST Act Section 215A(a)(3), CEII is specifically defined as information “designated as critical electric infrastructure information by ... the Secretary of the Department of Energy pursuant to subsection (d).”⁹ Under FPA Section 215A(a)(3), CEII includes information that is

⁹ FAST Act, Pub. L. No. 114-94, section 61,003, 129 Stat. 1312, 1776.

submitted to the DOE, and designated as such by DOE.¹⁰ The regulations define CEII in pertinent part as follows:

“1) *Critical electric infrastructure information* means information related to critical electric infrastructure ... Provided to the Commission or other Federal agency ... that is designated as critical electric infrastructure information by the Commission or the Secretary of the Department of Energy pursuant to section 215A(d) of the Federal Power Act. Such term includes information that qualifies as critical energy infrastructure information under the Commission's regulations. Critical Electric Infrastructure Information is exempt from mandatory disclosure under the Freedom of Information Act, 5 U.S.C. 552(b)(3) and shall not be made available by any Federal, State, political subdivision or tribal authority pursuant to any Federal, State, political subdivision or tribal law requiring public disclosure of information or records pursuant to section 215A(d)(1)(A) and (B) of the Federal Power Act.”

2) *Critical energy infrastructure information* means specific engineering, vulnerability, or detailed design information about ... existing critical infrastructure that:

- (i) Relates details about the production, generation, transportation, transmission, or distribution of energy;
- (ii) Could be useful to a person in planning an attack on critical infrastructure;
- (iii) Is exempt from mandatory disclosure under the Freedom of Information Act, 5 U.S.C. 552; and
- (iv) Does not simply give the general location of the critical infrastructure.”¹¹

PJM submits the redacted information in Attachment 1 is CEII because it provided details about the production, generation and transportation of energy, which if publically available could

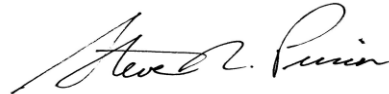
¹⁰ FAST Act, Pub. L. No. 114-94, section 61,003, 129 Stat. 1312, 1773 (“critical electric infrastructure information means information ... generated by or provided to the Commission or other Federal agency ... that is designated as critical electric infrastructure information by the Commission or the Secretary pursuant to subsection (d)”).

¹¹ 18 C.F.R. Section 388.113(c)(1) and (2).

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be useful in planning an attack on critical infrastructure in the North Hampton Road area of the Commonwealth of Virginia namely the electric transmission system.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Steven R. Pincus". The signature is fluid and cursive, with the first name being the most prominent.

Steven R. Pincus
Associate General Counsel
PJM Interconnection, L.L.C.

Craig Glazer
VP, Federal Government Policy
PJM Interconnection, L.L.C.

Cc: Pat Hoffman, U.S. Department of Energy
Catherine Jereza, U.S. Department of Energy
Rakesh Batra, U.S. Department of Energy
Michael C. Regulinski, Dominion Energy Services, Inc.
Casey Roberts, Sierra Club Environmental Law Program (Public Version of Attachment 1)

ATTACHMENT 1
Skiffes Creek outages
table_081817 with
Emissions Estimates
Renewal

Skiffes Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of August 18, 2017 (subject to change)

Outage	Outage Time Frame	Limiting Contingency	Load Threshold	Hours over Load Threshold**	Days over load threshold **	Dominion Emissions Estimates
Redacted Information is CEII	7/9/17-9/29/17	Redacted Information is CEII	Redacted Information is CEII	87	18	NOx 243.06 SO2 933.11 PM10 7.73 CO2 122,385.60 Pb 0.0100 Hg 0.0015 HCl 22.01 HF 3.56 CO 11.88
Redacted Information is CEII	9/25/17-10/29/17	Redacted Information is CEII	Redacted Information is CEII	0	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 - Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
Redacted Information is CEII	9/29/17-10/27/17	Redacted Information is CEII	Redacted Information is CEII	0	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 - Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
Redacted Information is CEII	10/27/17-01/19/18	Redacted Information is CEII	Redacted Information is CEII	21	4	NOx 54.01 SO2 207.36 PM10 1.72 CO2 27,196.80 Pb 0.0022 Hg 0.0003 HCl 4.89 HF 0.79 CO 2.64
Redacted Information is CEII	10/30/17-1/28/18	Redacted Information is CEII	Redacted Information is CEII	8	3	NOx 40.51 SO2 155.52 PM10 1.29 CO2 20,397.60 Pb 0.0017 Hg 0.0003 HCl 3.67 HF 0.59

Skiffes Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of August 18, 2017 (subject to change)

						CO 1.98
Redacted Information is CEII	11/13/17-11/17/17	Redacted Information is CEII	Redacted Information is CEII Redacted Information is CEII	7	2 0	NOx 27.01 SO2 103.68 PM10 0.86 CO2 13,598.40 Pb 0.0011 Hg 0.0002 HCl 2.45 HF 0.40 CO 1.32
Redacted Information is CEII	1/8/18-2/4/18	Redacted Information is CEII	Redacted Information is CEII	5	2	NOx 27.01 SO2 103.68 PM10 0.86 CO2 13,598.40 Pb 0.0011 Hg 0.0002 HCl 2.45 HF 0.40 CO 1.32
Redacted Information is CEII	2/5/18-2/25/18	Redacted Information is CEII	Redacted Information is CEII Redacted Information is CEII	147	10 5	NOx 202.55 SO2 777.59 PM10 6.44 CO2 101,988.00 Pb 0.0083 Hg 0.0013 HCl 18.34 HF 2.97 CO 9.90
Redacted Information is CEII	2/26/18-3/25/18	Redacted Information is CEII	Redacted Information is CEII	37	6	NOx 81.02 SO2 311.04 PM10 2.58 CO2 40,795.20 Pb 0.0033 Hg 0.0005 HCl 7.34 HF 1.19 CO 3.96
Redacted Information is CEII	3/26/18-5/6/18	Redacted Information is CEII	Redacted Information is CEII Redacted Information is CEII	16	4	NOx 54.01 SO2 207.36 PM10 1.72 CO2 27,196.80 Pb 0.0022 Hg 0.0003 HCl 4.89 HF 0.79 CO 2.64

Skiffes Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of August 18, 2017 (subject to change)

Redacted Information is CEII	4/23/18-9/23/18	Redacted Information is CEII	Redacted Information is CEII	117	21	NOx 283.57 SO2 1088.63 PM10 9.02 CO2 142,783.20 Pb 0.0116 Hg 0.0018 HCl 25.68 HF 4.16 CO 13.86
Redacted Information is CEII	10/8/18-10/14/18	Redacted Information is CEII	Redacted Information is CEII	0	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 - Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
Redacted Information is CEII	10/8/18-12/9/18	Redacted Information is CEII	Redacted Information is CEII	0	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 - Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
Redacted Information is CEII	10/8/18-12/30/18	Redacted Information is CEII	Redacted Information is CEII	3	1	NOx 13.50 SO2 51.84 PM10 0.43 CO2 6,799.20 Pb 0.0006 Hg 0.0001 HCl 1.22 HF 0.20 CO 0.66
Redacted Information is CEII	10/15/18-10/21/18	Redacted Information is CEII	Redacted Information is CEII	40	4 1	NOx 54.01 SO2 207.36 PM10 1.72 CO2 27,196.80 Pb 0.0022 Hg 0.0003 HCl 4.89 HF 0.79 CO 2.64
Redacted Information is CEII	10/22/18-10/28/18	Redacted Information is CEII	Redacted Information is CEII	0	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 -

Skiffes Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of August 18, 2017 (subject to change)

						Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
Redacted Information is CEII	10/29/18-11/11/18	Redacted Information is CEII	Redacted Information is CEII	0	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 - Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
			Total Estimate	488	81	NOx 1093.77 SO2 4199.00 PM10 34.80 CO2 550,735.20 Pb 0.0449 Hg 0.0069 HCl 99.04 HF 16.04 CO 53.47

*Outages scheduled to complete 12/30/18.

** Estimates are for both Yorktown 1 & 2 units.

		07-2017	08-2017	09-2017	10-2017	11-2017	12-2017	01-2018	02-2018	03-2018	04-2018	05-2018	06-2018	07-2018	08-2018	09-2018	10-2018	11-2018	12-2018
Days over load threshold **		9	9	0	0	2	2	7	17	4	3	1	0	10	9	2	5	0	1
Hours over Load Threshold* *		39	48	0	0	7	7	27	158	26	13	3	0	55	59	3	40	0	3
Dominion	NOx	97.89	121.53	0.0	0.0	27.01	27.01	94.52	229.56	54.01	40.51	13.50	0.0	135.03	121.53	27.01	67.52	0.0	13.50

Skiffes Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of August 18, 2017 (subject to change)

Emission Estimates (tons)	SO2	391.87	466.56	0.0	0.0	103.68	103.68	362.88	881.27	207.36	155.52	51.84	0.0	518.39	466.56	103.68	259.20	0.0	51.84
	PM10	3.72	3.87	0.0	0.0	0.86	0.86	3.01	7.30	1.72	1.29	0.43	0.0	4.30	3.87	0.86	2.15	0.0	0.43
	CO2	49,173.9	61,192.8	-	-	13,598.4	13,598.4	47,594.4	115,586.4	27,196.8	20,397.6	6,799.2	-	67,992.0	61,192.8	13,598.4	33,996.0	-	6,799.2
	Pb	0.0040	0.0050	0.0	0.0	0.0011	0.0011	0.0039	0.0094	0.0022	0.0017	0.0006	0.0	0.0055	0.0050	0.0011	0.0028	0.0	0.0006
	Hg	0.0008	0.0008	0.0	0.0	0.0002	0.0002	0.0006	0.0014	0.0003	0.0003	0.0001	0.0	0.0008	0.0008	0.0002	0.0004	0.0	0.0001
	HCl	11.48	11.00	0.0	0.0	2.45	2.45	8.56	20.79	4.89	3.67	1.22	0.0	12.23	11.00	2.45	6.11	0.0	1.22
	HF	1.43	1.78	0.0	0.0	0.40	0.40	1.39	3.37	0.79	0.59	0.20	0.0	1.98	1.78	0.40	0.99	0.0	0.20
	CO	4.78	5.94	0.0	0.0	1.32	1.32	4.62	11.22	2.64	1.98	0.66	0.0	6.60	5.94	1.32	3.30	0.0	0.66

Figures highlighted in green are actual emission data for the month

ATTACHMENT 2

Copy of Yorktown July
2017 Run Time and
Projected Emissions
Renewal

Date/Hour	YT00 PGMW1 Value	YT00 PGMW2 Value	YT00 QHIPM Value	YT00 QHIPM Missing	YT00 QNOXE Value	YT00 QNOXE Missing	YT00 QSO2	YT00 QSO2M Value	YT00 QSO2M Missing	YT00 QCO2	YT00 QCO2M	YT00 QCO2M Missing	0
07/10/2017 00	0	0	0	FALSE	0	FALSE	0	0	FALSE	0	0	FALSE	0
07/10/2017 01	0	0	0	FALSE	0	FALSE	0	0	FALSE	0	0	FALSE	0
07/10/2017 02	0	0	0	FALSE	0	FALSE	0	0	FALSE	0	0	FALSE	0
07/10/2017 03	0	0	0	FALSE	0	FALSE	0	0	FALSE	0	0	FALSE	0
07/10/2017 04	0	0	4.4	FALSE	0.141	FALSE	84.3	11.2	FALSE	1	0.5	FALSE	0
07/10/2017 05	0	0	1.1	FALSE	0.158	FALSE	52.6	0.7	FALSE	2.3	0.1	FALSE	0
07/10/2017 06	0	0	0	FALSE	0	FALSE	0	0	FALSE	0	0	FALSE	0
07/10/2017 07	0	0	0	FALSE	0	FALSE	0	0	FALSE	0	0	FALSE	0
07/10/2017 08	0	0	0	FALSE	0.001	FALSE	0	0	FALSE	0	0	FALSE	0
07/10/2017 09	0	0	0	FALSE	0.001	FALSE	0	0	FALSE	0	0	FALSE	0
07/10/2017 10	0	0	0	FALSE	0.001	FALSE	0	0	FALSE	0	0	FALSE	0
07/10/2017 11	0	0	1	FALSE	0.064	TRUE	31.1	63.4	TRUE	0	0	FALSE	56
07/10/2017 12	0	0	14	FALSE	0.064	TRUE	31.1	65.2	TRUE	0.2	1.4	FALSE	60
07/10/2017 13	0	0	30.6	FALSE	0.064	TRUE	31.1	71	TRUE	0.4	3.1	FALSE	60
07/10/2017 14	0	0	40.3	FALSE	0.064	TRUE	31.1	74.9	TRUE	0.5	4.1	FALSE	60
07/10/2017 15	0	0	59.2	FALSE	0.064	TRUE	31.1	78.6	TRUE	0.7	6.1	FALSE	60
07/10/2017 16	0	0	61.2	FALSE	0.064	TRUE	31.1	81.2	TRUE	0.7	6.3	FALSE	60
07/10/2017 17	0	0	340	FALSE	0.064	TRUE	31.1	83.1	TRUE	3.8	34.9	FALSE	60
07/10/2017 18	0	0	521.5	TRUE	0.064	TRUE	0	0	FALSE	5.8	53.5	TRUE	60
07/10/2017 19	0	0	525.7	TRUE	0.064	TRUE	0	0	FALSE	5.8	53.9	TRUE	60
07/10/2017 20	0	0	528.3	TRUE	0.064	TRUE	0	0	FALSE	5.8	54.2	TRUE	60
07/10/2017 21	0	0	526.9	TRUE	0.064	TRUE	0	0	FALSE	5.8	54.1	TRUE	60
07/10/2017 22	0	0	529.1	TRUE	0.064	TRUE	0	0	FALSE	5.8	54.3	TRUE	60
07/10/2017 23	0	0	529.2	TRUE	0.064	TRUE	0	0	FALSE	5.8	54.3	TRUE	60
07/11/2017 00	0	0	540.4	TRUE	0.064	TRUE	0.3	0.8	FALSE	5.8	55.4	TRUE	60
07/11/2017 01	0	0	581.6	TRUE	0.064	TRUE	1.1	3.3	FALSE	5.8	59.7	TRUE	60
07/11/2017 02	0	0	586.7	TRUE	0.064	TRUE	0.6	1.8	FALSE	5.8	60.2	TRUE	60
07/11/2017 03	0	0	595.2	TRUE	0.064	TRUE	0.7	2.1	FALSE	5.8	61.1	TRUE	60
07/11/2017 04	0	9	593.2	TRUE	0.064	TRUE	40.8	124.7	FALSE	5.8	60.9	TRUE	60
07/11/2017 05	0	16	583.2	TRUE	0.064	TRUE	101.5	305	FALSE	5.8	59.8	TRUE	60
07/11/2017 06	0	44	579	TRUE	0.288	TRUE	189.8	566.2	FALSE	5.8	59.4	TRUE	60
07/11/2017 07	0	65	600.6	TRUE	0.536	TRUE	275.2	851.5	TRUE	5.8	61.6	TRUE	60
07/11/2017 08	0	88	936.8	FALSE	0.342	FALSE	360.6	1310.9	FALSE	7.7	96.1	FALSE	60
07/11/2017 09	0	111	1046.9	FALSE	0.419	FALSE	411.1	1648.7	FALSE	7.8	107.4	FALSE	60
07/11/2017 10	0	101	951.9	FALSE	0.443	FALSE	443	1657.9	FALSE	7.6	97.7	FALSE	60
07/11/2017 11	0	99	946.7	FALSE	0.443	FALSE	444.9	1656	FALSE	7.6	97.1	FALSE	60
07/11/2017 12	0	117	1051.6	FALSE	0.479	FALSE	462.8	1888.6	FALSE	7.7	107.9	FALSE	60
07/11/2017 13	0	136	1187.9	FALSE	0.528	FALSE	463.3	2081.7	FALSE	7.9	121.9	FALSE	60
07/11/2017 14	0	139	1197.4	FALSE	0.52	FALSE	473	2115.4	FALSE	8	122.9	FALSE	60
07/11/2017 15	0	140	1184.2	FALSE	0.525	FALSE	482.9	2135.9	FALSE	8	121.5	FALSE	60
07/11/2017 16	0	140	1206.6	FALSE	0.512	FALSE	485.9	2136.3	FALSE	8.2	123.8	FALSE	60
07/11/2017 17	0	140	1184.2	FALSE	0.524	FALSE	486.2	2150.4	FALSE	8	121.5	FALSE	60
07/11/2017 18	0	134	1160.4	FALSE	0.51	FALSE	487.3	2111.9	FALSE	8	119.1	FALSE	60
07/11/2017 19	0	115	1049.9	FALSE	0.528	FALSE	481.4	1936.2	FALSE	7.8	107.7	FALSE	60
07/11/2017 20	0	119	1096.7	FALSE	0.506	FALSE	485.6	1989.1	FALSE	8	112.5	FALSE	60
07/11/2017 21	0	107	989.7	FALSE	0.526	FALSE	458.9	1785.6	FALSE	7.6	101.5	FALSE	60
07/11/2017 22	0	99	917.7	FALSE	0.516	FALSE	450	1690.3	FALSE	7.3	94.2	FALSE	60
07/11/2017 23	0	100	946.5	FALSE	0.506	FALSE	448.4	1690.8	FALSE	7.5	97.1	FALSE	60
07/12/2017 00	0	100	950.8	FALSE	0.502	FALSE	442.2	1675.1	FALSE	7.5	97.6	FALSE	60
07/12/2017 01	0	100	954.5	FALSE	0.507	FALSE	437.6	1664	FALSE	7.5	97.9	FALSE	60
07/12/2017 02	0	100	954.7	FALSE	0.508	FALSE	430.1	1635.9	FALSE	7.5	98	FALSE	60
07/12/2017 03	0	100	960.2	FALSE	0.51	FALSE	424.6	1624.3	FALSE	7.5	98.5	FALSE	60
07/12/2017 04	0	100	960.9	FALSE	0.51	FALSE	417.6	1598.7	FALSE	7.5	98.6	FALSE	60
07/12/2017 05	0	100	948.4	FALSE	0.515	FALSE	404.7	1549.8	FALSE	7.4	97.3	FALSE	60
07/12/2017 06	0	100	948.3	FALSE	0.519	FALSE	400.5	1533.5	FALSE	7.4	97.3	FALSE	60
07/12/2017 07	0	100	947.5	FALSE	0.522	FALSE	395.6	1513.6	FALSE	7.4	97.2	FALSE	60
07/12/2017 08	0	100	958.5	FALSE	0.515	FALSE	396.3	1513.3	FALSE	7.5	98.3	FALSE	60

07/12/2017 09	0	100	991.9	FALSE	0.493	FALSE
07/12/2017 10	0	100	1001	FALSE	0.49	FALSE
07/12/2017 11	0	100	971.9	FALSE	0.509	FALSE
07/12/2017 12	0	102	992	FALSE	0.506	FALSE
07/12/2017 13	0	114	895.3	TRUE	0.507	TRUE
07/12/2017 14	0	129	926.4	TRUE	0.511	TRUE
07/12/2017 15	0	142	961.6	TRUE	0.511	TRUE
07/12/2017 16	0	147	1020.7	TRUE	0.511	TRUE
07/12/2017 17	0	147	1018.5	TRUE	0.511	TRUE
07/12/2017 18	0	147	1305.7	TRUE	0.511	TRUE
07/12/2017 19	0	147	1425.5	TRUE	0.511	TRUE
07/12/2017 20	0	148	1434.8	TRUE	0.475	TRUE
07/12/2017 21	0	144	1430.7	TRUE	0.511	TRUE
07/12/2017 22	0	102	1223.8	TRUE	0.507	TRUE
07/12/2017 23	0	99	1215.4	TRUE	0.507	TRUE
07/13/2017 00	0	98	1218.6	TRUE	0.507	TRUE
07/13/2017 01	0	98	1284.8	TRUE	0.507	TRUE
07/13/2017 02	0	98	1318.8	TRUE	0.507	TRUE
07/13/2017 03	0	98	1324.3	TRUE	0.507	TRUE
07/13/2017 04	0	98	1324.3	TRUE	0.507	TRUE
07/13/2017 05	0	98	1308.1	TRUE	0.507	TRUE
07/13/2017 06	0	98	1303.5	TRUE	0.507	TRUE
07/13/2017 07	0	98	1300.8	TRUE	0.507	TRUE
07/13/2017 08	0	100	1303.3	TRUE	0.507	TRUE
07/13/2017 09	0	129	1471.4	TRUE	0.511	TRUE
07/13/2017 10	0	145	1546.2	TRUE	0.511	TRUE
07/13/2017 11	0	146	1537	TRUE	0.511	TRUE
07/13/2017 12	0	146	1280.9	FALSE	0.48	FALSE
07/13/2017 13	0	145	1280.9	FALSE	0.457	FALSE
07/13/2017 14	0	144	1324.8	FALSE	0.439	FALSE
07/13/2017 15	0	144	1349.8	FALSE	0.443	FALSE
07/13/2017 16	34	144	1627.7	FALSE	0.438	FALSE
07/13/2017 17	52	144	1800.9	FALSE	0.419	FALSE
07/13/2017 18	68	143	2029.2	FALSE	0.397	FALSE
07/13/2017 19	84	143	2245.9	FALSE	0.418	FALSE
07/13/2017 20	102	143	2399.8	FALSE	0.463	FALSE
07/13/2017 21	101	135	2287.5	FALSE	0.462	FALSE
07/13/2017 22	100	104	2019.9	FALSE	0.47	FALSE
07/13/2017 23	100	99	1991.6	FALSE	0.477	FALSE
07/14/2017 00	100	98	1971	FALSE	0.49	FALSE
07/14/2017 01	100	98	1972.4	FALSE	0.494	FALSE
07/14/2017 02	101	98	1980.5	FALSE	0.497	FALSE
07/14/2017 03	101	98	1984.6	FALSE	0.497	FALSE
07/14/2017 04	101	98	1986.4	FALSE	0.498	FALSE
07/14/2017 05	101	99	1962.6	FALSE	0.502	FALSE
07/14/2017 06	101	99	1984.9	FALSE	0.495	FALSE
07/14/2017 07	101	99	1985	FALSE	0.496	FALSE
07/14/2017 08	101	100	1991	FALSE	0.496	FALSE
07/14/2017 09	130	136	2582.9	FALSE	0.471	FALSE
07/14/2017 10	147	145	2755	FALSE	0.479	FALSE
07/14/2017 11	147	145	2761.4	FALSE	0.473	FALSE
07/14/2017 12	147	145	2744.1	FALSE	0.468	FALSE
07/14/2017 13	147	145	2732.9	FALSE	0.466	FALSE
07/14/2017 14	146	144	2745.3	FALSE	0.459	FALSE
07/14/2017 15	144	144	2730.5	FALSE	0.437	FALSE
07/14/2017 16	136	135	2543.6	FALSE	0.44	FALSE
07/14/2017 17	121	120	2322.2	FALSE	0.428	FALSE
07/14/2017 18	125	124	2369.6	FALSE	0.442	FALSE
07/14/2017 19	108	101	2047.6	FALSE	0.45	FALSE

395.5	1502.9	FALSE	7.8	101.8	FALSE	60
394	1491.7	FALSE	7.9	102.7	FALSE	60
391.8	1477.7	FALSE	7.7	99.7	FALSE	60
392.3	1490.8	FALSE	7.8	101.8	FALSE	60
336.9	1365.6	TRUE	6.6	91.9	TRUE	60
336.9	1413	TRUE	6.6	95	TRUE	60
336.9	1466.6	TRUE	6.6	98.7	TRUE	60
336.9	1556.7	TRUE	6.6	104.7	TRUE	60
336.9	1553.4	TRUE	6.6	104.5	TRUE	60
336.9	1991.6	TRUE	6.6	134	TRUE	60
336.9	2174.3	TRUE	6.6	146.3	TRUE	60
336.9	2188.4	TRUE	6.6	147.2	TRUE	60
336.9	2182.2	TRUE	6.6	146.8	TRUE	60
336.9	1866.6	TRUE	6.6	125.6	TRUE	60
336.9	1853.8	TRUE	6.6	124.7	TRUE	60
336.9	1858.7	TRUE	6.6	125	TRUE	60
336.9	1959.6	TRUE	6.6	131.8	TRUE	60
336.9	2011.4	TRUE	6.6	135.3	TRUE	60
336.9	2019.9	TRUE	6.6	135.9	TRUE	60
336.9	2019.8	TRUE	6.6	135.9	TRUE	60
336.9	1995.2	TRUE	6.6	134.2	TRUE	60
336.9	1988.2	TRUE	6.6	133.7	TRUE	60
336.9	1984	TRUE	6.6	133.5	TRUE	60
336.9	1987.9	TRUE	6.6	133.7	TRUE	60
336.9	2244.2	TRUE	6.6	151	TRUE	60
336.9	2358.4	TRUE	6.6	158.6	TRUE	60
336.9	2344.3	TRUE	6.6	157.7	TRUE	60
281.4	1994.5	FALSE	5.4	131.4	FALSE	60
285.2	2021.3	FALSE	5.4	131.4	FALSE	60
299.1	2114.3	FALSE	5.6	135.9	FALSE	60
290.1	2052.7	FALSE	5.7	138.5	FALSE	60
326.7	2302.9	FALSE	6.9	167	FALSE	60
377.8	2675	FALSE	7.6	184.8	FALSE	60
467.2	3372.3	FALSE	8.4	208.2	FALSE	60
502.4	3920.4	FALSE	8.6	230.4	FALSE	60
538.4	4337.9	FALSE	8.9	246.2	FALSE	60
532.4	4135.1	FALSE	8.8	234.7	FALSE	60
511.6	3632.7	FALSE	8.5	207.2	FALSE	60
509.2	3564.9	FALSE	8.5	204.3	FALSE	60
507.9	3561	FALSE	8.4	202.2	FALSE	60
506.4	3552.9	FALSE	8.4	202.4	FALSE	60
504.9	3557	FALSE	8.4	203.2	FALSE	60
503.8	3556.6	FALSE	8.4	203.6	FALSE	60
504.2	3562.7	FALSE	8.4	203.8	FALSE	60
498	3518.6	FALSE	8.3	201.4	FALSE	60
498.3	3518.3	FALSE	8.4	203.7	FALSE	60
495.9	3501.5	FALSE	8.4	203.7	FALSE	60
493.3	3493.7	FALSE	8.4	204.3	FALSE	60
523.9	4543.1	FALSE	8.9	265	FALSE	60
524	4846.7	FALSE	8.9	282.7	FALSE	60
522.9	4793.8	FALSE	9	283.3	FALSE	60
524.6	4779.2	FALSE	9	281.5	FALSE	60
523.7	4751.6	FALSE	9	280.4	FALSE	60
526	4741.4	FALSE	9.1	281.7	FALSE	60
539.4	4732	FALSE	9.3	280.1	FALSE	60
533.3	4454	FALSE	9.1	261	FALSE	60
528.3	4073	FALSE	9	238.3	FALSE	60
528.5	4157.7	FALSE	9	243.1	FALSE	60
501	3523.2	FALSE	8.7	210.1	FALSE	60

07/19/2017 18	137	145	2642.6	FALSE	0.437	FALSE	513.6	4505.9	FALSE	9	271.1	FALSE	60
07/19/2017 19	137	146	2636.3	FALSE	0.434	FALSE	512.2	4483	FALSE	9	270.5	FALSE	60
07/19/2017 20	136	145	2624.2	FALSE	0.428	FALSE	512.4	4464.2	FALSE	9	269.2	FALSE	60
07/19/2017 21	136	145	2628.8	FALSE	0.428	FALSE	510.3	4453.7	FALSE	9	269.7	FALSE	60
07/19/2017 22	135	145	2622.2	FALSE	0.426	FALSE	508.3	4425.1	FALSE	9	269	FALSE	60
07/19/2017 23	119	120	2265.8	FALSE	0.415	FALSE	485.7	3779.7	FALSE	8.7	232.5	FALSE	60
07/20/2017 00	96	98	1905.6	FALSE	0.395	FALSE	469	3179.1	FALSE	8.4	195.5	FALSE	60
07/20/2017 01	95	98	1927.5	FALSE	0.398	FALSE	469	3177.8	FALSE	8.5	197.8	FALSE	60
07/20/2017 02	98	96	1906.8	FALSE	0.41	FALSE	463.5	3143.8	FALSE	8.4	195.6	FALSE	60
07/20/2017 03	98	93	1869.5	FALSE	0.419	FALSE	458.1	3083.2	FALSE	8.3	191.8	FALSE	60
07/20/2017 04	98	96	1918.7	FALSE	0.418	FALSE	459.8	3138.3	FALSE	8.4	196.9	FALSE	60
07/20/2017 05	98	99	1879.5	FALSE	0.426	FALSE	461	3157.2	FALSE	8.2	192.8	FALSE	60
07/20/2017 06	114	114	2136	FALSE	0.427	FALSE	482.9	3625.9	FALSE	8.5	219.2	FALSE	60
07/20/2017 07	135	137	2541.3	FALSE	0.447	FALSE	492.6	4250.7	FALSE	8.8	260.7	FALSE	60
07/20/2017 08	135	144	2564.4	FALSE	0.458	FALSE	501.5	4366.7	FALSE	8.8	263.1	FALSE	60
07/20/2017 09	135	145	2572.4	FALSE	0.469	FALSE	501.7	4382.1	FALSE	8.8	263.9	FALSE	60
07/20/2017 10	135	144	2584.3	FALSE	0.458	FALSE	507.7	4405	FALSE	8.9	265.2	FALSE	60
07/20/2017 11	134	144	2583.7	FALSE	0.461	FALSE	510.5	4428.2	FALSE	8.9	265.1	FALSE	60
07/20/2017 12	134	144	2576.7	FALSE	0.464	FALSE	509.4	4406.8	FALSE	8.9	264.4	FALSE	60
07/20/2017 13	135	144	2584	FALSE	0.468	FALSE	509	4415.7	FALSE	8.9	265.1	FALSE	60
07/20/2017 14	132	148	2595.5	FALSE	0.47	FALSE	506.1	4410.2	FALSE	8.9	266.3	FALSE	60
07/20/2017 15	116	145	2407.6	FALSE	0.482	FALSE	499.4	4129.5	FALSE	8.7	247	FALSE	60
07/20/2017 16	125	145	2525.9	FALSE	0.466	FALSE	509.6	4321.5	FALSE	8.9	259.2	FALSE	60
07/20/2017 17	136	146	2592.6	FALSE	0.47	FALSE	517.4	4503.5	FALSE	8.9	266	FALSE	60
07/20/2017 18	136	146	2609.6	FALSE	0.473	FALSE	515.4	4515.5	FALSE	8.9	267.7	FALSE	60
07/20/2017 19	137	146	2613.9	FALSE	0.472	FALSE	513.6	4507.1	FALSE	8.9	268.2	FALSE	60
07/20/2017 20	137	146	2615.9	FALSE	0.471	FALSE	515.4	4526.4	FALSE	8.9	268.4	FALSE	60
07/20/2017 21	137	146	2616.5	FALSE	0.467	FALSE	520.4	4571.4	FALSE	8.9	268.5	FALSE	60
07/20/2017 22	113	113	2124.9	FALSE	0.437	FALSE	500.6	3739.3	FALSE	8.5	218	FALSE	60
07/20/2017 23	96	97	1877.8	FALSE	0.4	FALSE	494.9	3345.5	FALSE	8.3	192.7	FALSE	60
07/21/2017 00	96	98	1908.5	FALSE	0.396	FALSE	497.9	3380.2	FALSE	8.4	195.8	FALSE	60
07/21/2017 01	98	96	1894.8	FALSE	0.409	FALSE	492.1	3356.7	FALSE	8.3	194.4	FALSE	60
07/21/2017 02	98	97	1886	FALSE	0.419	FALSE	488.1	3354.4	FALSE	8.2	193.5	FALSE	60
07/21/2017 03	99	97	1890.5	FALSE	0.424	FALSE	486.2	3349.3	FALSE	8.2	194	FALSE	60
07/21/2017 04	98	98	1898.9	FALSE	0.433	FALSE	480.6	3325.5	FALSE	8.2	194.8	FALSE	60
07/21/2017 05	110	111	2094.6	FALSE	0.463	FALSE	486.9	3671.5	FALSE	8.3	214.9	FALSE	60
07/21/2017 06	134	142	2562.9	FALSE	0.471	FALSE	511.2	4499.7	FALSE	8.7	263	FALSE	60
07/21/2017 07	136	145	2589.3	FALSE	0.462	FALSE	514.8	4578	FALSE	8.7	265.7	FALSE	60
07/21/2017 08	136	145	2610.2	FALSE	0.453	FALSE	518.1	4591.9	FALSE	8.8	267.8	FALSE	60
07/21/2017 09	135	144	2593.4	FALSE	0.448	FALSE	523.7	4611.5	FALSE	8.8	266.1	FALSE	60
07/21/2017 10	136	144	2613.9	FALSE	0.441	FALSE	527	4624.8	FALSE	8.9	268.2	FALSE	60
07/21/2017 11	135	144	2589.4	FALSE	0.453	FALSE	527.1	4634.5	FALSE	8.8	265.7	FALSE	60
07/21/2017 12	135	144	2597	FALSE	0.454	FALSE	526.6	4643.6	FALSE	8.8	266.5	FALSE	60
07/21/2017 13	136	144	2600	FALSE	0.455	FALSE	528.8	4668.3	FALSE	8.8	266.8	FALSE	60
07/21/2017 14	137	144	2604.5	FALSE	0.458	FALSE	528.4	4672.9	FALSE	8.8	267.2	FALSE	60
07/21/2017 15	136	144	2619.7	FALSE	0.45	FALSE	530.4	4665	FALSE	8.9	268.8	FALSE	60
07/21/2017 16	136	145	2628.2	FALSE	0.458	FALSE	531.7	4691.6	FALSE	8.9	269.7	FALSE	60
07/21/2017 17	137	146	2610.4	FALSE	0.465	FALSE	529.7	4694.9	FALSE	8.8	267.8	FALSE	60
07/21/2017 18	137	146	2615.8	FALSE	0.467	FALSE	528.2	4691.5	FALSE	8.8	268.4	FALSE	60
07/21/2017 19	138	146	2627.8	FALSE	0.47	FALSE	525.6	4689.7	FALSE	8.8	269.6	FALSE	60
07/21/2017 20	138	147	2626	FALSE	0.472	FALSE	527.3	4701.6	FALSE	8.8	269.4	FALSE	60
07/21/2017 21	138	146	2626.9	FALSE	0.467	FALSE	527.4	4704.2	FALSE	8.8	269.5	FALSE	60
07/21/2017 22	112	115	2108.8	FALSE	0.453	FALSE	493.6	3747.3	FALSE	8.3	216.4	FALSE	60
07/21/2017 23	96	99	1875.1	FALSE	0.413	FALSE	486.5	3324	FALSE	8.2	192.4	FALSE	60
07/22/2017 00	96	97	1894.8	FALSE	0.41	FALSE	489.3	3337.6	FALSE	8.3	194.4	FALSE	60
07/22/2017 01	98	95	1878.8	FALSE	0.421	FALSE	486.5	3330.7	FALSE	8.2	192.8	FALSE	60
07/22/2017 02	98	96	1892.7	FALSE	0.426	FALSE	484.1	3338.8	FALSE	8.2	194.2	FALSE	60
07/22/2017 03	99	98	1898.2	FALSE	0.447	FALSE	476.9	3339.4	FALSE	8.1	194.8	FALSE	60
07/22/2017 04	100	98	1909.9	FALSE	0.454	FALSE	472.5	3329	FALSE	8.1	196	FALSE	60

07/22/2017 05	100	98	1889.4	FALSE	0.453	FALSE	469.4	3312.6	FALSE	8	193.9	FALSE	60
07/22/2017 06	99	98	1893.4	FALSE	0.447	FALSE	473.9	3310	FALSE	8.1	194.3	FALSE	60
07/22/2017 07	98	98	1881.5	FALSE	0.444	FALSE	474.9	3296.1	FALSE	8.1	193	FALSE	60
07/22/2017 08	99	98	1874.5	FALSE	0.441	FALSE	476.9	3297.6	FALSE	8.1	192.3	FALSE	60
07/22/2017 09	110	106	2036.3	FALSE	0.435	FALSE	492.6	3611.1	FALSE	8.3	208.9	FALSE	60
07/22/2017 10	119	120	2256.7	FALSE	0.468	FALSE	502.8	3988.6	FALSE	8.5	231.5	FALSE	60
07/22/2017 11	136	143	2587.6	FALSE	0.481	FALSE	516.9	4593.7	FALSE	8.7	265.5	FALSE	60
07/22/2017 12	136	145	2592.8	FALSE	0.473	FALSE	522.8	4602.5	FALSE	8.8	266	FALSE	60
07/22/2017 13	135	145	2594.5	FALSE	0.459	FALSE	529	4607.9	FALSE	8.9	266.2	FALSE	60
07/22/2017 14	135	145	2587.3	FALSE	0.451	FALSE	531.9	4620.3	FALSE	8.9	265.5	FALSE	60
07/22/2017 15	136	145	2586.9	FALSE	0.447	FALSE	531.9	4619.5	FALSE	8.9	265.4	FALSE	60
07/22/2017 16	136	145	2595.5	FALSE	0.447	FALSE	530.3	4620.9	FALSE	8.9	266.3	FALSE	60
07/22/2017 17	137	145	2629.7	FALSE	0.452	FALSE	528.9	4669.5	FALSE	8.9	269.8	FALSE	60
07/22/2017 18	138	146	2614.7	FALSE	0.462	FALSE	528.5	4692.1	FALSE	8.8	268.3	FALSE	60
07/22/2017 19	138	146	2639.9	FALSE	0.451	FALSE	536.6	4755.8	FALSE	8.9	270.9	FALSE	60
07/22/2017 20	139	146	2640.4	FALSE	0.453	FALSE	540.7	4793.2	FALSE	8.9	270.9	FALSE	60
07/22/2017 21	104	114	2024.5	FALSE	0.43	FALSE	503.6	3670.4	FALSE	8.3	207.7	FALSE	60
07/22/2017 22	99	98	1896.5	FALSE	0.392	FALSE	505.7	3452.5	FALSE	8.3	194.6	FALSE	60
07/22/2017 23	99	97	1900	FALSE	0.405	FALSE	508.2	3476	FALSE	8.3	194.9	FALSE	60
07/23/2017 00	99	97	1883.4	FALSE	0.423	FALSE	507	3479.4	FALSE	8.2	193.2	FALSE	60
07/23/2017 01	98	97	1888.6	FALSE	0.428	FALSE	506.4	3484.9	FALSE	8.2	193.8	FALSE	60
07/23/2017 02	97	98	1861.5	FALSE	0.437	FALSE	509	3495.3	FALSE	8.1	191	FALSE	60
07/23/2017 03	96	98	1856.4	FALSE	0.441	FALSE	515.3	3528.8	FALSE	8.1	190.5	FALSE	60
07/23/2017 04	97	98	1860.5	FALSE	0.443	FALSE	520.5	3572.3	FALSE	8.1	190.9	FALSE	60
07/23/2017 05	98	98	1865.7	FALSE	0.439	FALSE	529.4	3643.4	FALSE	8.1	191.4	FALSE	60
07/23/2017 06	98	98	1872	FALSE	0.44	FALSE	530.2	3661.3	FALSE	8.1	192.1	FALSE	60
07/23/2017 07	98	98	1885.3	FALSE	0.434	FALSE	534.4	3671.3	FALSE	8.2	193.4	FALSE	60
07/23/2017 08	98	98	1885.3	FALSE	0.434	FALSE	540.7	3714.5	FALSE	8.2	193.4	FALSE	60
07/23/2017 09	99	98	1886.3	FALSE	0.43	FALSE	543.6	3736.5	FALSE	8.2	193.5	FALSE	60
07/23/2017 10	113	114	2128.8	FALSE	0.44	FALSE	566.4	4289	FALSE	8.4	218.4	FALSE	60
07/23/2017 11	133	140	2521.7	FALSE	0.491	FALSE	575.7	5043.9	FALSE	8.6	258.7	FALSE	60
07/23/2017 12	135	147	2583.9	FALSE	0.489	FALSE	581.9	5163.9	FALSE	8.7	265.1	FALSE	60
07/23/2017 13	135	144	2549.9	FALSE	0.481	FALSE	586	5132	FALSE	8.7	261.6	FALSE	60
07/23/2017 14	135	144	2533.6	FALSE	0.479	FALSE	588.7	5122.7	FALSE	8.7	260	FALSE	60
07/23/2017 15	135	144	2558.6	FALSE	0.471	FALSE	592	5143.2	FALSE	8.8	262.5	FALSE	60
07/23/2017 16	128	128	2356.8	FALSE	0.454	FALSE	584	4727.1	FALSE	8.7	241.8	FALSE	60
07/23/2017 17	125	119	2260.4	FALSE	0.452	FALSE	581.9	4570	FALSE	8.6	231.9	FALSE	60
07/23/2017 18	125	118	2260.7	FALSE	0.451	FALSE	580.5	4569.5	FALSE	8.6	231.9	FALSE	60
07/23/2017 19	107	102	1955.3	FALSE	0.454	FALSE	555.5	3957.9	FALSE	8.2	200.6	FALSE	60
07/23/2017 20	98	98	1873.5	FALSE	0.424	FALSE	552.8	3773.8	FALSE	8.2	192.2	FALSE	60
07/23/2017 21	99	98	1878.2	FALSE	0.426	FALSE	552.6	3782	FALSE	8.2	192.7	FALSE	60
07/23/2017 22	99	98	1883.1	FALSE	0.427	FALSE	552.9	3793.9	FALSE	8.2	193.2	FALSE	60
07/23/2017 23	97	98	1890.4	FALSE	0.429	FALSE	551.7	3800.4	FALSE	8.2	194	FALSE	60
07/24/2017 00	98	98	1888.8	FALSE	0.43	FALSE	552.5	3802.7	FALSE	8.2	193.8	FALSE	60
07/24/2017 01	100	96	1884.4	FALSE	0.426	FALSE	554.6	3808.1	FALSE	8.2	193.3	FALSE	60
07/24/2017 02	100	96	1890.5	FALSE	0.424	FALSE	556.3	3832.2	FALSE	8.2	194	FALSE	60
07/24/2017 03	100	98	1898.3	FALSE	0.432	FALSE	553.5	3828.7	FALSE	8.2	194.8	FALSE	60
07/24/2017 04	101	98	1902.1	FALSE	0.435	FALSE	552.5	3829.4	FALSE	8.2	195.2	FALSE	60
07/24/2017 05	101	98	1877.4	FALSE	0.442	FALSE	548	3795.1	FALSE	8.1	192.6	FALSE	60
07/24/2017 06	101	99	1878	FALSE	0.438	FALSE	548.8	3801.9	FALSE	8.1	192.7	FALSE	60
07/24/2017 07	101	99	1898.8	FALSE	0.433	FALSE	552.4	3822.1	FALSE	8.2	194.8	FALSE	60
07/24/2017 08	101	99	1897.8	FALSE	0.431	FALSE	548.6	3793.9	FALSE	8.2	194.7	FALSE	60
07/24/2017 09	100	98	1895.6	FALSE	0.433	FALSE	544.7	3762.4	FALSE	8.2	194.5	FALSE	60
07/24/2017 10	99	98	1897.4	FALSE	0.436	FALSE	542.6	3751.5	FALSE	8.2	194.7	FALSE	60
07/24/2017 11	100	102	1926.3	FALSE	0.439	FALSE	541.4	3800.3	FALSE	8.2	197.6	FALSE	60
07/24/2017 12	110	127	2214.9	FALSE	0.494	FALSE	545.1	4294.7	FALSE	8.4	227.2	FALSE	60
07/24/2017 13	127	119	2278.8	FALSE	0.47	FALSE	552.9	4429	FALSE	8.5	233.8	FALSE	60
07/24/2017 14	132	110	2232.9	FALSE	0.486	FALSE	539	4332.8	FALSE	8.3	229.1	FALSE	60
07/24/2017 15	134	136	2465.3	FALSE	0.484	FALSE	558.5	4783.8	FALSE	8.6	252.9	FALSE	60

Date/Hour	Y101 Gross Load MW Value	Y102 Gross Load MW Value	Common Stack Heat Input (mmBtu)	Heat Input Valid	Common Stack NOx Lb/MMBtu	Common Stack NOx Lb/Hr	NOx Valid	Common Stack SO2 (Lb/MMBtu)	Common Stack SO2 (Lb/Hr)	SO2 valid	Common Stack CO2 (Percent)	Common Stack CO2 (Tons/hr)	CO2 valid	Unit Operation (minutes)	Coal tons/hr	PM-10 (lb/MMBtu)	Lead (lb/hr)	Mercury (lb/hr)	Mercury (lb/hr)	HCl (lb/MMBtu)	HCl (lb/hr)	HF (lb/hr)	CO (lb/hr)	PM10 lb/mmBtu	Lead lb/hr	Mercury lb/hr	HCl lb/hr	HF lb/hr	CO lb/hr
0710201700	0	0	0	YES	0.000	0.000	YES	0.000	0.000	YES	0	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00	0.00	0.00042	0.00083	1.2	0.15	0.5
0710201701	0	0	0	YES	0.000	0.000	YES	0.000	0.000	YES	0	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00	0.00	0.00042	0.00083	1.2	0.15	0.5
0710201702	0	0	0	YES	0.000	0.000	YES	0.000	0.000	YES	0	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00	0.00	0.00042	0.00083	1.2	0.15	0.5
0710201703	0	0	0	YES	0.000	0.000	YES	0.000	0.000	YES	0	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00	0.00	0.00042	0.00083	1.2	0.15	0.5
0710201704	0	0	0	YES	0.000	0.000	YES	0.000	0.000	YES	1	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00	0.00	0.00042	0.00083	1.2	0.15	0.5
0710201705	0	0	0	YES	0.000	0.000	YES	0.000	0.000	YES	2.3	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00	0.00	0.00042	0.00083	1.2	0.15	0.5
0710201706	0	0	0	YES	0.000	0.000	YES	0.000	0.000	YES	0	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00	0.00	0.00042	0.00083	1.2	0.15	0.5
0710201707	0	0	0	YES	0.000	0.000	YES	0.000	0.000	YES	0	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00	0.00	0.00042	0.00083	1.2	0.15	0.5
0710201708	0	0	0	YES	0.000	0.000	YES	0.000	0.000	YES	0	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00	0.00	0.00042	0.00083	1.2	0.15	0.5
0710201709	0	0	0	YES	0.000	0.000	YES	0.000	0.000	YES	0	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00	0.00	0.00042	0.00083	1.2	0.15	0.5
0710201710	0	0	0	YES	0.000	0.000	YES	0.000	0.000	YES	0	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00	0.00	0.00042	0.00083	1.2	0.15	0.5
0710201711	0	0	1	YES	0.064	0.064	NO	63.400	63.400	NO	0	0.0	YES	56	0.04	0.0168	0.00002	3.31	3.31E-06	0.047809	0.05	0.01	0.02	0.00042	0.00083	1.2	0.15	0.5	
0710201712	0	0	14	YES	0.064	0.896	NO	4.657	65.198	NO	0.2	1.4	YES	60	0.56	0.0168	0.00023	3.31	4.63E-05	0.047809	0.67	0.08	0.28	0.00042	0.00083	1.2	0.15	0.5	
0710201713	0	0	30.6	YES	0.064	1.958	NO	2.320	70.992	NO	0.4	3.1	YES	60	1.22	0.0168	0.00051	3.31	0.000101	0.047809	1.46	0.18	0.61	0.00042	0.00083	1.2	0.15	0.5	
0710201714	0	0	40.3	YES	0.064	2.579	NO	1.859	74.918	NO	0.5	4.1	YES	60	1.61	0.0168	0.00057	3.31	0.000133	0.047809	1.93	0.24	0.80	0.00042	0.00083	1.2	0.15	0.5	
0710201715	0	0	59.2	YES	0.064	3.789	NO	1.338	78.618	NO	0.7	6.1	YES	60	2.36	0.0168	0.00099	3.31	0.000196	0.047809	2.83	0.35	1.18	0.00042	0.00083	1.2	0.15	0.5	
0710201716	0	0	61.2	YES	0.064	3.917	NO	1.327	81.212	NO	0.7	6.3	YES	60	2.44	0.0168	0.00102	3.31	0.000202	0.047809	2.93	0.37	1.22	0.00042	0.00083	1.2	0.15	0.5	
0710201717	0	0	340	YES	0.064	21.760	NO	0.244	82.560	NO	3.8	34.9	YES	60	13.55	0.0168	0.00569	3.31	0.001124	0.047809	16.25	2.03	6.77	0.00042	0.00083	1.2	0.15	0.5	
0710201718	0	0	521.5	NO	0.064	33.376	NO	0.000	0.000	YES	5.8	53.5	NO	60	20.78	0.0168	0.00873	3.31	0.001724	0.047809	24.93	3.12	10.39	0.00042	0.00083	1.2	0.15	0.5	
0710201719	0	0	525.7	NO	0.064	33.645	NO	0.000	0.000	YES	5.8	53.9	NO	60	20.94	0.0168	0.00880	3.31	0.001738	0.047809	25.13	3.14	10.47	0.00042	0.00083	1.2	0.15	0.5	
0710201720	0	0	528.3	NO	0.064	33.811	NO	0.000	0.000	YES	5.8	54.2	NO	60	21.05	0.0168	0.00884	3.31	0.001747	0.047809	25.26	3.16	10.52	0.00042	0.00083	1.2	0.15	0.5	
0710201721	0	0	526.9	NO	0.064	33.722	NO	0.000	0.000	YES	5.8	54.1	NO	60	21.08	0.0168	0.00882	3.31	0.001742	0.047809	25.19	3.15	10.50	0.00042	0.00083	1.2	0.15	0.5	
0710201722	0	0	529.1	NO	0.064	33.862	NO	0.000	0.000	YES	5.8	54.3	NO	60	21.09	0.0168	0.00885	3.31	0.00175	0.047809	25.30	3.16	10.54	0.00042	0.00083	1.2	0.15	0.5	
0710201723	0	0	529.2	NO	0.064	33.860	NO	0.000	0.000	YES	5.8	54.3	NO	60	21.08	0.0168	0.00886	3.31	0.00175	0.047809	25.30	3.16	10.54	0.00042	0.00083	1.2	0.15	0.5	
0711201700	0	0	540.4	NO	0.064	34.586	NO	0.001	0.540	YES	5.8	55.4	NO	60	21.53	0.0168	0.00904	3.31	0.001787	0.047809	25.84	3.23	10.76	0.00042	0.00083	1.2	0.15	0.5	
0711201701	0	0	581.6	NO	0.064	37.222	NO	0.006	3.490	YES	5.8	59.7	NO	60	23.17	0.0168	0.00973	3.31	0.001923	0.047809	27.81	3.48	11.59	0.00042	0.00083	1.2	0.15	0.5	
0711201702	0	0	586.7	NO	0.064	37.549	NO	0.003	1.760	YES	5.8	60.2	NO	60	23.37	0.0168	0.00982	3.31	0.00194	0.047809	28.05	3.51	11.69	0.00042	0.00083	1.2	0.15	0.5	
0711201703	0	0	595.2	NO	0.064	38.093	NO	0.004	2.381	YES	5.8	61.1	NO	60	23.71	0.0168	0.00996	3.31	0.001968	0.047809	28.46	3.56	11.86	0.00042	0.00083	1.2	0.15	0.5	
0711201704	0	9	593.2	NO	0.064	37.965	NO	0.210	124.572	YES	5.8	60.9	NO	60	23.63	0.0168	0.00993	3.31	0.001962	0.047809	28.36	3.55	11.82	0.00042	0.00083	1.2	0.15	0.5	
0711201705	0	16	583.2	NO	0.064	37.325	NO	0.523	305.014	YES	5.8	59.8	NO	60	23.24	0.0168	0.00976	3.31	0.001929	0.047809	27.88	3.49	11.62	0.00042	0.00083	1.2	0.15	0.5	
0711201706	0	44	579	NO	0.288	166.752	NO	0.978	566.262	YES	5.8	59.4	NO	60	23.07	0.0168	0.00969	3.31	0.001915	0.047809	27.68	3.46	11.53	0.00042	0.00083	1.2	0.15	0.5	
0711201707	0	65	606.6	NO	0.636	321.922	NO	1.418	851.651	NO	5.8	63.6	NO	60	23.93	0.0168	0.01005	3.31	0.001986	0.047809	28.71	3.59	11.96	0.00042	0.00083	1.2	0.15	0.5	
0711201708	0	88	936.8	YES	0.342	320.386	YES	1.399	1310.583	YES	7.7	96.1	YES	60	37.32	0.0168	0.01568	3.31	0.003098	0.047809	44.79	5.60	18.66	0.00042	0.00083	1.2	0.15	0.5	
0711201709	0	111	1046.9	YES	0.419	438.651	YES	1.575	1648.888	YES	7.8	107.4	YES	60	41.71	0.0168	0.01752	3.31	0.003462	0.047809	50.05	6.26	20.85	0.00042	0.00083	1.2	0.15	0.5	
0711201710	0	101	951.9	YES	0.443	421.692	YES	1.742	1658.210	YES	7.6	97.7	YES	60	37.92	0.0168	0.01593	3.31	0.003148	0.047809	45.51	5.69	18.96	0.00042	0.00083	1.2	0.15	0.5	
0711201711	0	99	946.7	YES	0.443	419.388	YES	1.749	1655.778	YES	7.6	97.1	YES	60	37.72	0.0168	0.01584	3.31	0.003131	0.047809	45.26	5.66	18.86	0.00042	0.00083	1.2	0.15	0.5	
0711201712	0	117	1051.6	YES	0.479	503.716	YES	1.796	1888.674	YES	7.7	107.9	YES	60	41.90	0.0168	0.01760	3.31	0.003477	0.047809	50.28	6.28	20.95	0.00042	0.00083	1.2	0.15	0.5	
0711201713	0	136	1187.9	YES	0.528	627.211	YES	1.752	2081.201	YES	7.9	121.9	YES	60	47.33	0.0168	0.01988	3.31	0.003928	0.047809	56.79	7.10	23.66	0.00042	0.00083	1.2	0.15	0.5	
0711201714	0	139	1197.4	YES	0.52	622.648	YES	1.767	2115.806	YES	8	122.9	YES	60	47.71	0.0168	0.02004	3.31	0.00396	0.047809	57.25	7.16	23.85	0.00042	0.00083	1.2	0.15	0.5	
0711201715	0	140	1184.2	YES	0.525	621.705	YES	1.804	2136.297	YES	8	121.5	YES	60	47.18	0.0168	0.01982	3.31	0.003916	0.047809	56.62	7.08	23.59	0.00042	0.00083	1.2	0.15	0.5	
0711201716	0	140	1206.6	YES	0.512	617.779	YES	1.771	2136.889	YES	8.2	123.8	YES	60	48.07	0.0168	0.02019	3.31	0.003999	0.047809	57.69	7.21	24.04	0.00042	0.00083	1.2	0.15	0.5	
0711201717	0	140	1184.2	YES	0.524	620.521	YES	1.816	2150.507	YES	8	121.5	YES	60	47.18	0.0168	0.01982	3.31	0.003916	0.047809	56.62	7.08	23.59	0.00042	0.00083	1.2	0.15	0.5	
0711201718	0	134	1160.4	YES	0.51	591.804	YES	1.820	2111.928	YES	8	119.1	YES	60	46.23	0.0168	0.01942	3.31	0.003837	0.047809	55.48	6.93	23.12	0.00042	0.00083	1.2	0.15	0.5	
0711201719	0	115	1049.9	YES	0.528	554.347	YES	1.844	1936.016	YES	7.8	107.7	YES	60	41.83	0.0168	0.01757	3.31	0.003472	0.047809	50.19	6.27	20.91	0.00042	0.00083	1.2	0.15	0.5	
0711201720	0	119	1096.7																										

07132017 20	102	143	2399.8	YES	0.463	1111.107	YES	1.808	4338.838	YES	8.9	246.2	YES	60	95.61	0.0168	0.04016	3.31	0.007936	0.047809	114.73	14.34	47.80
07132017 21	101	135	2287.5	YES	0.462	1056.825	YES	1.808	4135.800	YES	8.8	234.7	YES	60	91.14	0.0168	0.03828	3.31	0.007564	0.047809	109.36	13.67	45.57
07132017 22	100	104	2019.9	YES	0.47	949.353	YES	1.798	3631.780	YES	8.5	207.2	YES	60	80.47	0.0168	0.03380	3.31	0.006679	0.047809	96.57	12.07	40.24
07132017 23	100	99	1991.6	YES	0.477	949.993	YES	1.790	3564.964	YES	8.5	204.3	YES	60	79.35	0.0168	0.03333	3.31	0.006586	0.047809	95.22	11.90	39.67
07142017 00	100	98	1971	YES	0.49	965.790	YES	1.807	3561.597	YES	8.4	202.2	YES	60	78.53	0.0168	0.03298	3.31	0.006518	0.047809	94.23	11.78	39.26
07142017 01	100	98	1972.4	YES	0.494	974.366	YES	1.801	3552.292	YES	8.4	202.4	YES	60	78.58	0.0168	0.03300	3.31	0.006522	0.047809	94.30	11.79	39.29
07142017 02	101	98	1980.5	YES	0.497	984.309	YES	1.796	3556.978	YES	8.4	203.2	YES	60	78.90	0.0168	0.03314	3.31	0.006540	0.047809	94.69	11.84	39.45
07142017 03	101	98	1984.6	YES	0.497	986.346	YES	1.792	3556.403	YES	8.4	203.6	YES	60	79.07	0.0168	0.03321	3.31	0.006563	0.047809	94.88	11.86	39.53
07142017 04	101	98	1986.4	YES	0.498	989.227	YES	1.794	3563.602	YES	8.4	203.8	YES	60	79.14	0.0168	0.03324	3.31	0.006569	0.047809	94.97	11.87	39.57
07142017 05	101	99	1962.6	YES	0.502	985.225	YES	1.793	3518.942	YES	8.3	201.4	YES	60	78.19	0.0168	0.03284	3.31	0.00649	0.047809	93.83	11.73	39.10
07142017 06	101	99	1984.9	YES	0.495	982.526	YES	1.773	3519.228	YES	8.4	203.7	YES	60	79.08	0.0168	0.03321	3.31	0.006564	0.047809	94.90	11.86	39.54
07142017 07	101	99	1985	YES	0.496	984.560	YES	1.764	3501.540	YES	8.4	203.7	YES	60	79.08	0.0168	0.03322	3.31	0.006564	0.047809	94.90	11.86	39.54
07142017 08	101	100	1991	YES	0.496	987.536	YES	1.755	3494.205	YES	8.4	204.3	YES	60	79.32	0.0168	0.03332	3.31	0.006584	0.047809	95.19	11.90	39.66
07142017 09	130	136	2582.9	YES	0.471	1216.546	YES	1.759	4543.321	YES	8.9	265.0	YES	60	102.90	0.0168	0.04322	3.31	0.008541	0.047809	123.49	15.44	51.45
07142017 10	147	145	2755	YES	0.479	1319.645	YES	1.759	4846.045	YES	8.9	282.7	YES	60	109.76	0.0168	0.04610	3.31	0.00911	0.047809	131.71	16.46	54.88
07142017 11	147	145	2761.4	YES	0.473	1306.142	YES	1.736	4793.700	YES	9	283.3	YES	60	110.02	0.0168	0.04621	3.31	0.009131	0.047809	132.02	16.50	55.01
07142017 12	147	145	2744.1	YES	0.468	1284.239	YES	1.742	4780.222	YES	9	281.5	YES	60	109.33	0.0168	0.04592	3.31	0.009074	0.047809	131.19	16.40	54.66
07142017 13	147	145	2732.9	YES	0.466	1273.531	YES	1.739	4752.513	YES	9	280.4	YES	60	108.88	0.0168	0.04573	3.31	0.009037	0.047809	130.66	16.33	54.44
07142017 14	146	144	2745.3	YES	0.459	1260.093	YES	1.727	4741.133	YES	9.1	281.7	YES	60	109.37	0.0168	0.04594	3.31	0.009078	0.047809	131.25	16.41	54.69
07142017 15	144	144	2730.5	YES	0.437	1193.229	YES	1.733	4731.957	YES	9.3	280.1	YES	60	108.78	0.0168	0.04569	3.31	0.009029	0.047809	130.54	16.32	54.39
07142017 16	136	135	2543.6	YES	0.44	1119.184	YES	1.751	4453.844	YES	9.1	261.0	YES	60	101.34	0.0168	0.04256	3.31	0.008411	0.047809	121.61	15.20	50.67
07142017 17	121	120	2322.2	YES	0.428	993.302	YES	1.754	4073.139	YES	9	236.3	YES	60	92.52	0.0168	0.03886	3.31	0.007979	0.047809	111.02	13.88	46.26
07142017 18	124	124	2368.6	YES	0.442	1047.363	YES	1.755	4158.648	YES	9	243.1	YES	60	94.41	0.0168	0.03965	3.31	0.007936	0.047809	113.29	14.16	47.21
07142017 19	108	101	2047.6	YES	0.45	921.420	YES	1.721	3523.920	YES	8.7	210.1	YES	60	81.58	0.0168	0.03426	3.31	0.006771	0.047809	97.89	12.24	40.79
07142017 20	99	99	1950.1	YES	0.47	916.547	YES	1.715	3344.422	YES	8.5	200.1	YES	60	77.69	0.0168	0.03263	3.31	0.006449	0.047809	93.23	11.65	38.85
07142017 21	69	99	1623.4	YES	0.462	750.011	YES	1.575	2556.855	YES	7.5	166.6	YES	60	64.68	0.0168	0.02716	3.31	0.005368	0.047809	77.61	9.70	32.34
07142017 22	0	98	965.2	YES	0.434	418.897	YES	1.572	1517.294	YES	4.5	99.0	YES	60	38.45	0.0168	0.01615	3.31	0.003192	0.047809	46.15	5.77	19.23
07142017 23	0	77	794.2	YES	0.293	232.701	YES	1.402	1113.468	YES	3.3	81.5	YES	60	31.64	0.0168	0.01329	3.31	0.002626	0.047809	37.97	4.75	15.82
07152017 00	0	3	388.8	YES	0.152	59.098	YES	0.958	372.470	YES	1.7	7.3	YES	11	15.49	0.0168	0.00651	3.31	0.001286	0.047809	18.59	2.32	7.75
07152017 01	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07152017 02	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07152017 03	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07152017 04	0	0	0	YES	0	0.000	YES	0	0.000	YES	1.5	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07152017 05	0	0	0	YES	0	0.000	YES	0	0.000	YES	2.8	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07152017 06	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07152017 07	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07152017 08	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07152017 09	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07152017 10	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07152017 11	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07152017 12	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07152017 13	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07152017 14	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07152017 15	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07152017 16	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07152017 17	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07152017 18	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07152017 19	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07152017 20	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07152017 21	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07152017 22	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07152017 23	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07172017 00	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07172017 01	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07172017 02	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07172017 03	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07172017 04	0	0	0	YES	0	0.000	YES	0	0.000	YES	1.5	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07172017 05	0	0	0	YES	0	0.000	YES	0	0.000	YES	2.8	0.0	YES	0	0.00	0.0168	0	0	0				

07172017 19	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07172017 20	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07172017 21	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07172017 22	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07172017 23	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07182017 00	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07182017 01	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07182017 02	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07182017 03	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07182017 04	0	0	0	YES	0	0.000	YES	0	0.000	YES	1.6	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07182017 05	0	0	0	YES	0	0.000	YES	0	0.000	YES	2.9	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07182017 06	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07182017 07	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07182017 08	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07182017 09	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.2	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07182017 10	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.3	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07182017 11	0	0	0	YES	0	0.000	YES	0	0.000	YES	0.3	0.0	YES	0	0.00	0.0168	0	0	0	0	0.00	0.00	0.00
07182017 12	0	0	45.1	YES	0	0.000	YES	0.000	0.000	YES	0.3	0.4	YES	5	1.80	0.0168	0.00075	3.31	0.000149	0.047809	2.16	0.27	0.90
07182017 13	0	0	44.7	YES	0	0.000	YES	0.000	0.000	YES	0.3	4.6	YES	60	1.78	0.0168	0.00075	3.31	0.000148	0.047809	2.14	0.27	0.89
07182017 14	0	0	46	YES	0.001	0.046	YES	0.000	0.000	YES	0.3	4.7	YES	60	1.83	0.0168	0.00077	3.31	0.000152	0.047809	2.20	0.27	0.92
07182017 15	0	0	123.4	YES	0.009	1.111	YES	0.000	0.000	YES	0.8	12.7	YES	60	4.92	0.0168	0.00206	3.31	0.000480	0.047809	5.90	0.74	2.46
07182017 16	0	0	23.6	YES	0.026	5.710	YES	0.000	0.000	YES	1.3	22.5	YES	60	8.75	0.0168	0.00367	3.31	0.000726	0.047809	10.50	1.31	4.37
07182017 17	0	0	20.4	YES	0.029	5.328	YES	0.000	0.000	YES	1.2	21.0	YES	60	8.14	0.0168	0.00342	3.31	0.000676	0.047809	9.77	1.22	4.07
07182017 18	0	0	204.5	YES	0.034	6.953	YES	0.000	0.000	YES	1.2	21.0	YES	60	8.15	0.0168	0.00342	3.31	0.000676	0.047809	9.78	1.22	4.07
07182017 19	0	0	225	YES	0.038	8.550	YES	0.000	0.000	YES	1.3	23.1	YES	60	8.96	0.0168	0.00376	3.31	0.000744	0.047809	10.76	1.34	4.48
07182017 20	0	0	230.5	YES	0.037	8.529	YES	0.000	0.000	YES	1.3	23.7	YES	60	9.18	0.0168	0.00386	3.31	0.000762	0.047809	11.02	1.38	4.59
07182017 21	0	0	248.7	YES	0.043	10.694	YES	0.000	0.000	YES	1.4	25.5	YES	60	9.91	0.0168	0.00416	3.31	0.000822	0.047809	11.89	1.49	4.95
07182017 22	0	2	301.3	YES	0.078	23.501	YES	0.133	40.073	YES	1.7	30.9	YES	60	12.00	0.0168	0.00504	3.31	0.000996	0.047809	14.40	1.80	6.00
07182017 23	0	9	400.8	YES	0.204	81.763	YES	0.586	234.869	YES	2.3	41.1	YES	60	15.97	0.0168	0.00671	3.31	0.001325	0.047809	19.16	2.40	7.98
07182017 00	0	31	560.8	YES	0.249	139.639	YES	0.983	551.266	YES	3.2	57.5	YES	60	22.34	0.0168	0.00938	3.31	0.001854	0.047809	26.81	3.35	11.17
07182017 01	0	73	838.6	YES	0.286	239.840	YES	1.278	1071.731	YES	4.5	85.0	YES	60	33.41	0.0168	0.01403	3.31	0.002773	0.047809	40.09	5.01	16.71
07182017 02	0	96	985.5	YES	0.41	404.055	YES	1.482	1460.511	YES	4.8	101.1	YES	60	39.26	0.0168	0.01649	3.31	0.003259	0.047809	47.12	5.89	19.63
07182017 03	0	103	1036.1	YES	0.428	443.451	YES	1.522	1576.944	YES	5	106.3	YES	60	41.28	0.0168	0.01734	3.31	0.003426	0.047809	49.53	6.19	20.64
07182017 04	0	103	1056	YES	0.422	445.632	YES	1.502	1586.112	YES	5	108.3	YES	60	42.07	0.0168	0.01767	3.31	0.003492	0.047809	50.49	6.31	21.04
07182017 05	9	101	1174.8	YES	0.436	512.213	YES	1.407	1652.944	YES	5.5	120.5	YES	60	46.80	0.0168	0.01966	3.31	0.003885	0.047809	56.17	7.02	23.40
07182017 06	59	101	1609	YES	0.386	621.074	YES	1.579	2540.611	YES	7.5	165.1	YES	60	64.10	0.0168	0.02692	3.31	0.005321	0.047809	76.92	9.62	32.05
07182017 07	92	101	1941.8	YES	0.366	710.699	YES	1.628	3161.250	YES	8.3	199.2	YES	60	77.36	0.0168	0.03249	3.31	0.006421	0.047809	92.84	11.60	38.68
07182017 08	101	125	2254.2	YES	0.444	1000.865	YES	1.696	3823.123	YES	8.7	231.3	YES	60	89.81	0.0168	0.03772	3.31	0.007454	0.047809	107.77	13.47	44.90
07182017 09	117	143	2556.2	YES	0.425	1086.385	YES	1.708	4365.980	YES	9.1	262.3	YES	60	101.84	0.0168	0.04277	3.31	0.008453	0.047809	122.21	15.28	50.92
07182017 10	133	145	2680.3	YES	0.434	1163.250	YES	1.723	4618.157	YES	9.1	275.0	YES	60	106.78	0.0168	0.04485	3.31	0.008863	0.047809	128.14	16.02	53.39
07182017 11	136	144	2687.5	YES	0.423	1136.813	YES	1.714	4606.375	YES	9.2	275.7	YES	60	107.07	0.0168	0.04497	3.31	0.008887	0.047809	128.49	16.06	53.54
07182017 12	136	145	2700.2	YES	0.413	1115.183	YES	1.701	4593.040	YES	9.3	277.0	YES	60	107.58	0.0168	0.04518	3.31	0.008929	0.047809	129.09	16.14	53.79
07182017 13	136	145	2686.2	YES	0.42	1128.204	YES	1.707	4585.343	YES	9.2	275.6	YES	60	107.02	0.0168	0.04495	3.31	0.008883	0.047809	128.42	16.05	53.51
07182017 14	136	145	2690.9	YES	0.426	1146.323	YES	1.702	4579.912	YES	9.2	276.1	YES	60	107.21	0.0168	0.04503	3.31	0.008898	0.047809	128.65	16.08	53.60
07182017 15	136	145	2664.4	YES	0.436	1161.678	YES	1.714	4566.782	YES	9.1	273.4	YES	60	106.15	0.0168	0.04458	3.31	0.008811	0.047809	127.38	15.92	53.08
07182017 16	136	145	2653.5	YES	0.432	1146.312	YES	1.711	4540.139	YES	9.1	272.2	YES	60	105.72	0.0168	0.04440	3.31	0.008775	0.047809	126.86	15.86	52.86
07182017 17	137	145	2651.4	YES	0.431	1142.753	YES	1.709	4511.243	YES	9.1	272.0	YES	60	105.63	0.0168	0.04437	3.31	0.008768	0.047809	126.76	15.85	52.82
07182017 18	137	145	2642.6	YES	0.437	1154.816	YES	1.705	4555.633	YES	9	271.1	YES	60	105.28	0.0168	0.04422	3.31	0.008738	0.047809	126.34	15.79	52.64
07182017 19	137	146	2636.3	YES	0.434	1144.154	YES	1.700	4481.710	YES	9	270.5	YES	60	105.03	0.0168	0.04411	3.31	0.008718	0.047809	126.04	15.75	52.52
07182017 20	136	145	2624.2	YES	0.428	1123.158	YES	1.701	4463.764	YES	9	269.2	YES	60	104.55	0.0168	0.04391	3.31	0.008678	0.047809	125.46	15.68	52.27
07182017 21	136	145	2628.8	YES	0.428	1125.126	YES	1.694	4453.187	YES	9	269.7	YES	60	104.73	0.0168	0.04399	3.31	0.008693	0.047809	125.68	15.71	52.37
07182017 22	135	145	2622.2	YES	0.426	1117.057	YES	1.688	4426.274	YES	9	269.0	YES	60	104.47	0.0168	0.04388	3.31	0.008671	0.047809	125.36	15.67	52.24
07182017 23	119	120	2265.8	YES	0.415	940.307	YES	1.668	3779.354	YES	8.7	232.5	YES	60	90.27	0.0168	0.03791	3.31	0.007492	0.047809	108.33	13.54	45.14
07202017 00	96	98	1905.6	YES	0.395	752.712	YES	1.668	3178.541	YES	8.4	195.5	YES	60	75.92	0.0168	0.03189	3.31	0.006301	0.047809	91.10	11.39	37.90
07202017 01	95	98	1927.5	YES	0.398	767.145	YES	1.649	3178.448	YES	8.5	197.8	YES	60	76.79	0.0168	0.03225	3.31	0.006374	0.047809	92.15	11.52	38.40
07202017 02	98	96	1906.8	YES	0.41	781.788	YES	1.649	3144.313	YES	8.4	195.6	YES	60	75.97	0.0168	0.03191	3.31	0.006305	0.047809	91.16	11.40	

07210017 18	137	146	2615.8	YES	0.467	1221.579	YES	1.794	4692.745	YES	8.8	268.4	YES	60	104.22	0.0168	0.04377	3.31	0.00865	0.047809	125.06	15.63	52.11
07210017 19	138	146	2627.8	YES	0.47	1235.066	YES	1.785	4690.623	YES	8.8	269.6	YES	60	104.69	0.0168	0.04397	3.31	0.00869	0.047809	125.63	15.70	52.35
07210017 20	138	147	2626	YES	0.472	1239.472	YES	1.790	4700.540	YES	8.8	269.4	YES	60	104.62	0.0168	0.04394	3.31	0.008684	0.047809	125.55	15.69	52.31
07210017 21	138	146	2626.9	YES	0.467	1226.762	YES	1.791	4704.778	YES	8.8	269.5	YES	60	104.66	0.0168	0.04396	3.31	0.008687	0.047809	125.59	15.70	52.33
07210017 22	112	115	2108.8	YES	0.453	955.286	YES	1.777	3747.338	YES	8.2	216.4	YES	60	84.02	0.0168	0.03929	3.31	0.006973	0.047809	100.82	12.60	42.01
07210017 23	96	99	1875.1	YES	0.413	774.416	YES	1.732	3324.552	YES	8.2	192.4	YES	60	74.71	0.0168	0.03138	3.31	0.006201	0.047809	89.65	11.21	37.35
07220017 00	96	97	1894.8	YES	0.41	776.868	YES	1.761	3336.743	YES	8.3	194.4	YES	60	75.49	0.0168	0.03171	3.31	0.006266	0.047809	90.59	11.32	37.75
07220017 01	98	95	1878.8	YES	0.421	790.975	YES	1.773	3331.112	YES	8.2	192.8	YES	60	74.85	0.0168	0.03144	3.31	0.006213	0.047809	89.82	11.23	37.43
07220017 02	98	96	1892.7	YES	0.426	806.290	YES	1.764	3338.723	YES	8.2	194.2	YES	60	75.41	0.0168	0.03167	3.31	0.006259	0.047809	90.49	11.31	37.70
07220017 03	99	98	1898.2	YES	0.447	848.495	YES	1.759	3338.934	YES	8.1	194.8	YES	60	75.63	0.0168	0.03176	3.31	0.006277	0.047809	90.75	11.34	37.81
07220017 04	100	98	1909.9	YES	0.454	867.095	YES	1.743	3328.956	YES	8.1	196.0	YES	60	76.09	0.0168	0.03196	3.31	0.006316	0.047809	91.31	11.41	38.05
07220017 05	100	98	1889.4	YES	0.453	855.898	YES	1.753	3312.118	YES	8.1	193.9	YES	60	75.27	0.0168	0.03162	3.31	0.006248	0.047809	90.33	11.29	37.64
07220017 06	99	98	1893.4	YES	0.447	846.350	YES	1.748	3309.663	YES	8.1	194.3	YES	60	75.43	0.0168	0.03168	3.31	0.006261	0.047809	90.52	11.32	37.72
07220017 07	96	98	1881.5	YES	0.444	835.396	YES	1.752	3296.388	YES	8.1	193.0	YES	60	74.96	0.0168	0.03148	3.31	0.006222	0.047809	89.95	11.24	37.48
07220017 08	99	98	1874.5	YES	0.441	826.655	YES	1.759	3297.246	YES	8.1	192.3	YES	60	74.68	0.0168	0.03137	3.31	0.006199	0.047809	89.62	11.20	37.34
07220017 09	110	106	2036.3	YES	0.435	885.791	YES	1.773	3610.360	YES	8.3	208.9	YES	60	81.13	0.0168	0.03407	3.31	0.006734	0.047809	97.35	12.17	40.56
07220017 10	119	120	2256.7	YES	0.468	1056.136	YES	1.767	3987.589	YES	8.5	231.5	YES	60	89.91	0.0168	0.03776	3.31	0.007462	0.047809	107.89	13.49	44.95
07220017 11	136	143	2587.6	YES	0.481	1244.636	YES	1.775	4592.990	YES	8.7	265.5	YES	60	103.09	0.0168	0.04330	3.31	0.008557	0.047809	123.71	15.46	51.55
07220017 12	136	145	2592.8	YES	0.473	1226.394	YES	1.775	4602.220	YES	8.8	266.0	YES	60	103.30	0.0168	0.04339	3.31	0.008574	0.047809	123.96	15.49	51.65
07220017 13	135	145	2594.5	YES	0.459	1190.876	YES	1.776	4607.832	YES	8.9	266.2	YES	60	103.37	0.0168	0.04341	3.31	0.008579	0.047809	124.04	15.50	51.68
07220017 14	135	145	2587.3	YES	0.451	1166.872	YES	1.786	4620.918	YES	8.9	265.5	YES	60	103.08	0.0168	0.04329	3.31	0.008556	0.047809	123.70	15.46	51.54
07220017 15	136	145	2586.9	YES	0.45	1156.344	YES	1.786	4620.203	YES	8.9	265.4	YES	60	103.06	0.0168	0.04329	3.31	0.008554	0.047809	123.68	15.46	51.53
07220017 16	136	145	2595.7	YES	0.447	1169.189	YES	1.780	4619.980	YES	8.9	266.3	YES	60	103.41	0.0168	0.04343	3.31	0.008583	0.047809	124.09	15.51	51.70
07220017 17	137	145	2629.7	YES	0.452	1188.624	YES	1.776	4670.347	YES	8.9	269.8	YES	60	104.77	0.0168	0.04400	3.31	0.008696	0.047809	125.72	15.72	52.38
07220017 18	138	146	2614.7	YES	0.462	1207.991	YES	1.795	4693.387	YES	8.8	268.3	YES	60	104.17	0.0168	0.04375	3.31	0.008646	0.047809	125.01	15.63	52.09
07220017 19	138	146	2639.9	YES	0.451	1190.595	YES	1.802	4757.100	YES	8.9	270.9	YES	60	105.18	0.0168	0.04417	3.31	0.00873	0.047809	126.21	15.78	52.59
07220017 20	139	146	2640.4	YES	0.453	1196.101	YES	1.815	4792.326	YES	8.9	270.9	YES	60	105.20	0.0168	0.04418	3.31	0.008731	0.047809	126.23	15.78	52.60
07220017 21	104	114	2024.5	YES	0.43	870.535	YES	1.813	3670.419	YES	8.3	207.7	YES	60	80.66	0.0168	0.03388	3.31	0.006695	0.047809	96.79	12.10	40.33
07220017 22	99	98	1896.5	YES	0.392	743.428	YES	1.820	3451.390	YES	8.3	194.6	YES	60	75.56	0.0168	0.03173	3.31	0.006271	0.047809	90.67	11.33	37.78
07220017 23	99	97	1900	YES	0.405	769.500	YES	1.829	3475.100	YES	8.3	194.9	YES	60	75.70	0.0168	0.03179	3.31	0.006283	0.047809	90.84	11.35	37.85
07220017 00	99	97	1883.4	YES	0.423	796.678	YES	1.847	3476.640	YES	8.2	193.2	YES	60	75.04	0.0168	0.03152	3.31	0.006238	0.047809	90.64	11.26	37.52
07220017 01	98	97	1888.6	YES	0.428	808.321	YES	1.845	3484.467	YES	8.2	193.8	YES	60	75.24	0.0168	0.03160	3.31	0.006245	0.047809	90.29	11.29	37.62
07220017 02	97	98	1861.5	YES	0.437	813.476	YES	1.878	3495.807	YES	8.1	191.0	YES	60	74.16	0.0168	0.03115	3.31	0.006156	0.047809	89.00	11.12	37.08
07220017 03	96	98	1856.4	YES	0.441	818.672	YES	1.901	3529.016	YES	8.1	190.5	YES	60	73.96	0.0168	0.03106	3.31	0.006139	0.047809	88.75	11.09	36.98
07220017 04	97	98	1860.5	YES	0.443	824.202	YES	1.920	3572.160	YES	8.1	190.9	YES	60	74.12	0.0168	0.03113	3.31	0.006152	0.047809	88.95	11.12	37.06
07220017 05	98	98	1865.7	YES	0.439	819.042	YES	1.953	3643.712	YES	8.1	191.4	YES	60	74.33	0.0168	0.03122	3.31	0.006169	0.047809	89.20	11.15	37.17
07220017 06	98	98	1872	YES	0.44	823.680	YES	1.956	3661.632	YES	8.1	192.1	YES	60	74.58	0.0168	0.03132	3.31	0.00619	0.047809	89.50	11.19	37.29
07220017 07	98	98	1885.3	YES	0.434	818.220	YES	1.947	3676.679	YES	8.2	193.4	YES	60	75.11	0.0168	0.03155	3.31	0.006234	0.047809	90.13	11.27	37.56
07220017 08	98	98	1885.3	YES	0.434	818.220	YES	1.970	3714.041	YES	8.2	193.4	YES	60	75.11	0.0168	0.03155	3.31	0.006234	0.047809	90.13	11.27	37.56
07220017 09	99	98	1886.3	YES	0.43	811.109	YES	1.981	3736.760	YES	8.2	193.5	YES	60	75.15	0.0168	0.03156	3.31	0.006238	0.047809	90.18	11.27	37.58
07220017 10	113	114	2128.8	YES	0.44	936.672	YES	2.015	4289.532	YES	8.4	218.4	YES	60	84.81	0.0168	0.03562	3.31	0.007039	0.047809	101.78	12.72	42.41
07220017 11	133	140	2521.7	YES	0.491	1238.155	YES	2.000	5043.400	YES	8.6	258.7	YES	60	100.47	0.0168	0.04220	3.31	0.008339	0.047809	120.56	15.07	50.23
07220017 12	135	147	2583.9	YES	0.489	1263.527	YES	1.998	5162.632	YES	8.7	265.1	YES	60	102.94	0.0168	0.04324	3.31	0.008544	0.047809	123.53	15.44	51.47
07220017 13	135	144	2549.9	YES	0.481	1226.502	YES	2.003	5122.949	YES	8.7	261.6	YES	60	101.59	0.0168	0.04267	3.31	0.008432	0.047809	121.91	15.24	50.79
07220017 14	135	144	2533.6	YES	0.479	1213.594	YES	2.022	5122.939	YES	8.7	260.0	YES	60	100.94	0.0168	0.04239	3.31	0.008378	0.047809	121.13	15.14	50.47
07220017 15	135	144	2558.6	YES	0.471	1205.101	YES	2.010	5142.786	YES	8.8	262.5	YES	60	101.94	0.0168	0.04281	3.31	0.008461	0.047809	122.32	15.29	50.97
07220017 16	128	128	2356.8	YES	0.454	1059.987	YES	2.006	4727.741	YES	8.7	241.8	YES	60	93.90	0.0168	0.03944	3.31	0.007793	0.047809	112.68	14.08	46.95
07220017 17	125	119	2260.4	YES	0.452	1021.701	YES	2.022	4570.529	YES	8.6	231.9	YES	60	90.06	0.0168	0.03782	3.31	0.007475	0.047809	108.07	13.51	45.03
07220017 18	125	118	2260.7	YES	0.451	1019.576	YES	2.017	4559.832	YES	8.6	231.9	YES	60	90.07	0.0168	0.03783	3.31	0.007476	0.047809	108.08	13.51	45.03
07220017 19	107	102	1955.3	YES	0.454	887.706	YES	2.024	3957.527	YES	8.2	200.6	YES	60	77.90	0.0168	0.03272	3.31	0.006466	0.047809	93.48	11.69	38.95
07220017 20	98	98	1873.5	YES	0.424	794.364	YES	2.014	3773.229	YES	8.2	192.2	YES	60	74.64	0.0168	0.03135	3.31	0.006195	0.047809	89.57	11.20	37.32
07220017 21	99	98	1878.2	YES	0.426	800.113	YES	2.014	3782.695														

MAX 2761.4 mmBtu/hr MAX hourly heat input combined, Units 1 and 2
 AVERAGE 1816.1 mmBtu/hr AVERAGE hourly heat input combined, Units 1 and 2 (used for MIN LOAD scenario)

DAILY COMBINED HEAT INPUT (16 hours min load, 8 hours max load)

MAX 22091.2 mmBtu
 MIN 29057.78 mmBtu
 TOTAL 51148.98 mmBtu/day

			PROJECTED DAILY EMISSIONS	
	FACTOR	UNITS	MAX (lb/day)	
NOx	0.528	lb/mmBtu		11664.15
SO2	2.027	lb/mmBtu		44778.86
PM-10	0.0168	lb/mmBtu		371.13
CO2	283.3	tons/hr		2266.40
Lead	0.0462	lb/hr		0.37
Mercury	3.3058	lb/° Btu		0.07
HCl	0.0478	lb/mmBtu		1056.15
HF	16.5024	lb/hr		132.02
CO	55.0080	lb/hr		440.06

880 tons coal
1088 tons coal
1968 tons coal/day

110 tons coal/hr max
68 tons coal/hr avg

			PROJECTED EMISSIONS BY OUTAGE DAYS (tons)																	ACTUALS												
MIN (lb/day)	TOTAL (lb/day)	TOTAL (tons/day)	18	0	1	4	3	2	2	15	6	4	21	81	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18
15342.51	27006.66	13.50	243.06	0.00	13.50	54.01	40.51	27.01	27.01	202.55	81.02	54.01	283.57	1093.77	97.89	121.53	0.00	0.00	27.01	27.01	94.52	229.56	54.01	40.51	13.50	0.00	135.03	121.53	27.01	67.52	0.00	13.50
58900.13	103678.99	51.84	933.11	0.00	51.84	207.36	155.52	103.68	103.68	777.59	311.04	207.36	1088.63	4199.00	391.87	466.56	0.00	0.00	103.68	103.68	362.88	881.27	207.36	155.52	51.84	0.00	518.39	466.56	103.68	259.20	0.00	51.84
488.17	859.30	0.43	7.73	0.00	0.43	1.72	1.29	0.86	0.86	6.44	2.58	1.72	9.02	34.80	3.72	3.87	0.00	0.00	0.86	0.86	3.01	7.30	1.72	1.29	0.43	0.00	4.30	3.87	0.86	2.15	0.00	0.43
4532.80	6799.20	6799.20	122,385.60	-	6,799.20	27,196.80	20,397.60	13,598.40	13,598.40	101,988.00	40,795.20	27,196.80	142,783.20	550,735.20	49,173.9	61,192.8	-	-	13,598.4	13,598.4	47,594.4	115,586.4	27,196.8	20,397.6	6,799.2	-	67,992.0	61,192.8	13,598.4	33,996.0	-	6,799.2
0.74	1.11	0.0006	0.0100	0.0000	0.0006	0.0022	0.0017	0.0011	0.0011	0.0083	0.0033	0.0022	0.0116	0.0449	0.0040	0.0050	0.0000	0.0000	0.0011	0.0011	0.0039	0.0094	0.0022	0.0017	0.0006	0.0000	0.0055	0.0050	0.0011	0.0028	0.0000	0.0006
0.10	0.17	0.0001	0.0015	0.0000	0.0001	0.0003	0.0003	0.0002	0.0002	0.0013	0.0005	0.0003	0.0018	0.0069	0.0008	0.0008	0.0000	0.0000	0.0002	0.0002	0.0006	0.0014	0.0003	0.0003	0.0001	0.0000	0.0008	0.0008	0.0002	0.0004	0.0000	0.0001
1389.22	2445.37	1.22	22.01	0.00	1.22	4.89	3.67	2.45	2.45	18.34	7.34	4.89	25.68	99.04	11.48	11.00	0.00	0.00	2.45	2.45	8.56	20.79	4.89	3.67	1.22	0.00	12.23	11.00	2.45	6.11	0.00	1.22
264.04	396.06	0.20	3.56	0.00	0.20	0.79	0.59	0.40	0.40	2.97	1.19	0.79	4.16	16.04	1.43	1.78	0.00	0.00	0.40	0.40	1.39	3.37	0.79	0.59	0.20	0.00	1.98	1.78	0.40	0.99	0.00	0.20
880.13	1320.19	0.66	11.88	0.00	0.66	2.64	1.98	1.32	1.32	9.90	3.96	2.64	13.86	53.47	4.78	5.94	0.00	0.00	1.32	1.32	4.62	11.22	2.64	1.98	0.66	0.00	6.60	5.94	1.32	3.30	0.00	0.66