

Exhibit No.: 4P
Issues: Revenue Requirement, Merger
Stipulations, MFRs, and Recovery
Mechanisms
Witness: Sheri Richard
Type of Ex: Corrected Direct Testimony
Sponsoring Party: The Empire District
Electric Company
Case No.: ER-2019-0374
Date Testimony Prepared: August 2019

**Before the Public Service Commission
of the State of Missouri**

Corrected Direct Testimony

of

Sheri Richard

on behalf of

**The Empire District Electric Company
A Liberty Utilities Company**

August 2019



TABLE OF CONTENTS
CORRECTED DIRECT TESTIMONY
OF
SHERI RICHARD
THE EMPIRE DISTRICT ELECTRIC COMPANY
BEFORE THE
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SUBJECT	PAGE
I. INTRODUCTION	1
II. GENERAL RATE CHANGE BACKGROUND.....	4
III. FILING REQUIREMENTS.....	6
IV. REVENUE REQUIREMENT	8
V. RATE BASE.....	10
VI. INCOME STATEMENT ADJUSTMENTS.....	15
VII. REBASED COSTS.....	24
VIII. RETIREMENT OF ASBURY	25
IX. JURISDICTIONAL ALLOCATION CHANGES	26
X. CONTINUATION AND IMPLEMENTATION REQUESTS FOR TRACKERS....	28
XI. RIDER FAC MINIMUM FILING REQUIREMENTS.....	29
XII. COMPLIANCE WITH STIPULATIONS AND AGREEMENTS	40
XIII. MERGER STIPULATIONS – CASE NO. EM-2016-0213.....	41
XIV. CONCLUSION.....	55

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1 **I. INTRODUCTION**

2 **Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

3 A. My name is Sheri Richard. My business address is 602 South Joplin Avenue, Joplin,
4 MO, 64802.

5 **Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?**

6 A. I am employed by Liberty Utilities Service Corp. as the Director of Rates and
7 Regulatory Affairs for Liberty Utilities Central Region, which includes The Empire
8 District Electric Company, a Liberty Utilities company (“Liberty-Empire” or
9 “Company”), as well as gas, water and wastewater utilities serving in the Central
10 Region.

11 **Q. ON WHOSE BEHALF ARE YOU TESTIFYING IN THIS PROCEEDING?**

12 A. I am testifying on behalf of Liberty-Empire.

13 **Q. PLEASE DESCRIBE YOUR EDUCATIONAL AND PROFESSIONAL**
14 **BACKGROUND.**

15 A. I have a Bachelor of Science degree in accounting and a Masters of Business
16 Administration degree. I am also a Certified Public Accountant licensed to practice in
17 Oklahoma. Prior to joining Liberty-Empire, I was employed for seven years by UICI,
18 a state regulated insurance company. I was then employed by Oklahoma Gas and
19 Electric Company (“OG&E”) for over 15 years working in Financial and Regulatory
20 Accounting, managing the Costing and Pricing department, and finally serving as

1 Director of Revenue Requirements. In 2016, I became employed by Chesapeake
2 Utilities Corporation where I served as Vice President of Rates and Regulatory Affairs.
3 In 2019, I joined Liberty-Empire in my current position.

4 **Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE MISSOURI PUBLIC**
5 **SERVICE COMMISSION OR ANY OTHER REGULATORY AGENCY?**

6 A. While I have not provided testimony before the Missouri Public Service Commission
7 (“Commission”), I have provided testimony before the Oklahoma Corporation
8 Commission in multiple proceedings including Cause Nos. PUD 201800133, PUD
9 200800059, PUD 200800398, PUD 201100087 and PUD 201400229. I have also
10 testified before the Arkansas Public Service Commission and provided testimony to the
11 Kansas Corporation Commission.

12 **Q. WHAT IS THE PURPOSE OF YOUR DIRECT TESTIMONY IN THIS**
13 **PROCEEDING?**

14 A. My testimony serves multiple purposes. After providing some general information, I
15 address how the Company has satisfied the Commission’s Minimum Filing
16 Requirements (“MFRs”) and various other filing and reporting requirements pursuant
17 to the Commission’s rules. Next, I provide and explain the basis for the Company’s
18 revenue requirement, including rate base, rate base adjustments, operating income and
19 operating income adjustments used to establish rates for the Company’s retail electric
20 customers in Missouri. I also address the accounting treatment of certain tax related
21 regulatory liabilities, costs related to the retirement of the Asbury plant, expense and
22 revenue related to jurisdictional changes, and the Company’s request to continue
23 certain trackers. In addition, my testimony addresses how the Company has satisfied
24 the Commission’s Minimum Filing Requirements regarding the Company’s request to

1 continue its Fuel Adjustment Clause (“FAC”), as well as compliance with stipulations
2 and agreements in Commission File Nos. ER-2016-0023 and EM-2016-0213.

3 **Q. ARE YOU SPONSORING ANY SCHEDULES WITH YOUR TESTIMONY?**

4 A. Yes. I am sponsoring the following schedules:

- 5 • Schedule SDR-1 – Revenue Requirement
- 6 • Schedule SDR-2 – Rate Base
- 7 • Schedule SDR-3 – Rate Base Adjustments
- 8 • Schedule SDR-4 – Operating Income
- 9 • Schedule SDR-5 – Operating Income Adjustments
- 10 • Schedule SDR-6 – Weighted Average Cost of Capital
- 11 • Schedule SDR-7 – Gross Revenue Conversion Factor
- 12 • Schedule SDR-8 – Income Taxes
- 13 • Schedule SDR-9 – MFRs
- 14 • Schedule SDR-10 – Stub Period Earnings Analysis
- 15 • Scheduled SDR-11 – Customer Notice
- 16 • Schedule SDR-12 – Sample Customer Bill
- 17 • Schedule SDR-13 – 2019 Short Term Borrowing Rate
- 18 • Schedule SDR-14 – List of Sub-Accounts Included and Excluded for FAC
- 19 • Schedule SDR-15 – Plant Efficiency Statistics
- 20 • Schedule SDR-16 – Emission Allowances
- 21 • Schedule SDR-17 – Five-Year Plant Availability Factors

22 I am also sponsoring the following adjustments:

- 23 • RB ADJ 1 – RB ADJ 10 – Rate Base (“RB”) adjustments, except RB ADJ 3

- 1 • IS ADJ 1 – IS ADJ 36 – Operating Income (“IS”) adjustments, except IS ADJs
2 13, 31 and 32

3 Company witness Tim Lyons sponsors RB ADJ 12, and Company witness Leigha
4 Palumbo sponsors RB ADJs 3, 11 and 13 as well as IS ADJs 13, 31 and 32.

5 **Q. WAS THE INFORMATION CONTAINED IN THE SCHEDULES OBTAINED**
6 **OR DERIVED FROM THE BOOKS AND RECORDS OF THE COMPANY?**

7 A. Yes. The information contained in the schedules I am sponsoring was obtained or
8 derived from the books and records of Liberty-Empire for the twelve months ended
9 March 31, 2019 and adjusted as appropriate to reflect known and measurable changes
10 through January 31, 2020.

11 **Q. DID LIBERTY-EMPIRE PROVIDE THE COMMISSION PROPER NOTICE**
12 **OF THE COMPANY’S INTENT TO FILE A GENERAL RATE CASE?**

13 A. Yes. Pursuant to Commission Rule 4 CSR 240-4.017, a utility is required to provide at
14 least 60 days’ notice to the Commission of its intent to file a case. On May 29, 2019,
15 Liberty-Empire filed its Notice of Intended Case Filing, which was assigned Case No.
16 ER-2019-0374, satisfying the requirements of Commission Rule 240-4.017(1).

17 **II. GENERAL RATE CHANGE BACKGROUND**

18 **Q. PLEASE DESCRIBE THE COMPANY’S RECENT HISTORY OF GENERAL**
19 **RATE CASE FILINGS?**

20 A. Prior to the acquisition by Liberty Utilities (Central) Co., the Company filed for a
21 general rate increase approximately every one to two years: October 2015, August
22 2014, July 2012, September 2010, October 2009 and October 2007. Tariffs which were
23 the result of Liberty-Empire’s last general rate case took effect September 14, 2016.

1 **Q. DID LIBERTY-EMPIRE AGREE TO A STAY OUT PROVISION AS PART OF**
2 **THE STIPULATIONS AND AGREEMENTS WITH THE PARTIES IN THE**
3 **ACQUISITION CASE, CASE NO. EM-2016-0213?**

4 A. Yes. The Company agreed to refrain from filing for a general rate increase for one year
5 post acquisition. Contrary to past Company history, however, Liberty-Empire has not
6 come in for a general rate increase for nearly four years.

7 **Q. WHAT IS THE AMOUNT OF THE REQUESTED GENERAL RATE CHANGE**
8 **IN THIS CASE?**

9 A. The Company is requesting that the Commission approve a \$26,516,638 base rate
10 increase.

11 **Q. HOW WAS LIBERTY-EMPIRE'S REQUESTED GENERAL RATE CHANGE**
12 **DETERMINED?**

A. The calculation of the Company's requested general rate increase is summarized in
Chart 1 and results in an overall revenue requirement increase of 4.93%.

13

Chart 1

Line No.	Reference Schedule	General Rate Change	
1	SDR-2	Total Rate Base	\$ 1,457,360,469
2	SDR-6	Required Rate of Return	7.50%
3	SDR-1	Required Operating Income	109,237,911
4	SDR-1	Operating Income Deficiency	20,195,045
5	SDR-4	Federal and State Income Tax	<u>6,321,593</u>
6	SDR-1	Revenue Deficiency	\$ <u>26,516,638</u>

1 **III. FILING REQUIREMENTS**

2 **Q. WHAT IS THE PURPOSE OF THIS PART OF YOUR TESTIMONY?**

3 A. This portion of my testimony details how the Company met the Commission’s MFRs
4 as set forth in Commission Rule 4 CSR 240-3.030 and the filing and reporting
5 requirements as set forth in Commission Rules 4 CSR 240-3.160 and 4 CSR 240-
6 20.090(2).

7 **Q. WHAT IS REQUIRED BY COMMISSION RULE 4 CSR 240-3.030?**

8 A. Commission Rule 4 CSR 240-3.030, effective July 30, 2019, sets forth the MFRs for
9 all general rate increase requests. Counsel for Liberty-Empire is providing the tariff
10 transmittal letter. All other MFRs imposed by this rule, which are set forth below, are
11 included in Schedule SDR-9:

- 12 1. The amount of dollars of the aggregate annual increase and percentage of
13 increase over current revenues;
- 14 2. Names of counties and communities affected;
- 15 3. The number of customers to be affected in each general category of service
16 and for all rate classifications within each general category of service;
- 17 4. The average change requested in dollars and percentage change from current
18 rates for each general category of service and for all rate classifications;
- 19 5. The proposed annual aggregate change by general categories of service and
20 by rate classifications, including dollar amounts and percentage change in
21 revenues;
- 22 6. Any press releases relative to the filing; and
- 23 7. A summary of the reasons for the proposed changes.

24 **Q. WHAT IS REQUIRED BY COMMISSION RULE 4 CSR 240-3.160?**

1 A. Commission Rule 4 CSR 240-3.160 contains additional filing requirements for
2 electric utility general rate increase requests: the submission of a depreciation study,
3 database, and property unit catalog under certain circumstances.

4 **Q. IS A DEPRECIATION STUDY INCLUDED WITH THE COMPANY'S**
5 **DIRECT FILING?**

6 A. No. Liberty-Empire's latest depreciation study was filed in Case No. ER-2016-0023
7 on October 16, 2015. The Commission's rule does not require the submission of a
8 depreciation study, database, and property unit catalog in this case, as it has been less
9 than five years since the Commission's Staff last received these items from Liberty-
10 Empire.

11 **Q. IS THE COMPANY REQUESTING APPROVAL FOR A NEW**
12 **DEPRECIATION RATE ON ASSETS THAT DO NOT CURRENTLY HAVE**
13 **AN APPROVED RATE?**

14 A. Yes. The Company does not have an approved rate for Charging Stations and
15 requests approval to utilize a rate of 5% until the next depreciation study is completed
16 and a rate approved by the Commission.

17 **Q. WHEN WILL THE COMPANY COMPLETE AND FILE ITS NEXT**
18 **DEPRECIATION STUDY?**

19 A. The Company will prepare and file a depreciation study in 2020 and will request
20 approval of new rates in its rate case planned to be filed the 3rd quarter of 2020.

21 **Q. WHAT IS REQUIRED BY COMMISSION RULE 4 CSR 240-20.090?**

22 A. Commission Rule 4 CSR 240-20.090 contains filing requirements for an electric
23 utility that seeks to establish, continue, or modify a Rate Adjustment Mechanism
24 ("RAM") such as the Company's FAC tariff. As described by Company witness

1 Aaron Doll, the Company is seeking modifications to its FAC tariff. Please see
2 Schedules SDR 11-17 attached to this testimony and Schedule AJD-1 attached to Mr.
3 Doll's direct testimony for the information necessary to satisfy all of the FAC-related
4 filing requirements.

5 **IV. REVENUE REQUIREMENT**

6 **Q. WHAT IS MEANT BY THE TERM "REVENUE REQUIREMENT"?**

7 A. A utility's "revenue requirement" is the sum of its Operation and Maintenance
8 ("O&M") expenses, depreciation expense, income and other taxes and a fair return on
9 the utility's rate base. The revenue requirement is determined based on a historical
10 test year with pro forma adjustments reflecting reasonably known and measurable
11 changes to revenue and expenses. When the revenue requirement exceeds the
12 utility's test year revenues, a revenue deficiency exists, and a rate increase is required.
13 This calculation is made specific to the Company's jurisdictions which include four
14 state jurisdictions and also the Federal jurisdiction.

15 **Q. WHAT ARE THE GENERAL CATEGORIES OF PRO FORMA**
16 **ADJUSTMENTS PROPOSED BY THE COMPANY?**

17 A. *Pro forma* adjustments generally fall into one of the following categories:
18 1) Normalization Adjustments - made to rate base and expenses to offset unusual
19 levels of operations recorded during the test year. An example of such an adjustment
20 would be the use of a 13 month average for materials and supplies to address the
21 variable nature of the expense.
22 2) Annualization Adjustments - made to recognize a cost which occurred during the
23 test year that will be ongoing and must be captured on a prospective basis. An
24 example of such an adjustment would be the adjustment to payroll to account for

1 salary increases during the *pro forma* period. This annualization is necessary to adjust
2 payroll costs to a level reflecting the *pro forma* salary for the entire year.

3 3) Out of Period Adjustments - which consider known and measurable changes that
4 occur outside the end of the test year. An example of such an adjustment would be
5 increases in Plant in Service based on Construction Work that is expected to be
6 complete, used and useful by the end of the pro forma period.

7 4) Costs that are not necessary to provide electric service - An example of such an
8 adjustment would be to remove common plant utilized by Liberty-Empire's gas or
9 water utilities.

10 5) Costs recovered elsewhere - made to adjust the test year to reflect any cost
11 recovery that occurs outside of base rates. An example of such an adjustment
12 is to remove franchise fees. This adjustment is necessary to ensure that customers are
13 not double charged for these costs recovered or passed through a separate mechanism
14 or tariff condition.

15 **Q. WHAT TEST YEAR IS THE COMPANY PROPOSING IN THIS CASE?**

16 A. The Company is proposing a historical test year based on twelve months ended March
17 31, 2019.

18 **Q. IS LIBERTY-EMPIRE REQUESTING THE TEST YEAR BE UPDATED?**

19 A. Yes. Liberty-Empire is requesting an update through September 30, 2019.

20 **Q. IS LIBERTY-EMPIRE REQUESTING A "TRUE-UP" PROCESS?**

21 A. Yes. Liberty-Empire is proposing a true-up through January 31, 2020. The impact of
22 the true-up process has been included in the Company's revenue requirement.

23 **Q. WHAT IS LIBERTY-EMPIRE'S CALCULATED OVERALL RATE OF**
24 **RETURN?**

1 A. Liberty-Empire's calculated overall rate of return at current rates is 6.11 percent. This
2 rate of return earned under the current rates is calculated by dividing adjusted test year
3 operating income by the adjusted test year rate base.

4 **Q. PLEASE SUMMARIZE THE RATE RELIEF THE COMPANY IS SEEKING**
5 **IN THIS PROCEEDING.**

6 A. Liberty-Empire is seeking to recover an annual revenue requirement of \$564.7 million
7 and a current revenue deficiency of \$26.5 million.

8 **Q. PLEASE DESCRIBE SCHEDULES SDR-1 THROUGH SDR-8 OF THE**
9 **REVENUE REQUIREMENT MODEL.**

10 A. Schedule SDR-1 presents Liberty-Empire's proposed revenue requirement and the
11 overall revenue requirement calculation. Schedule SDR-2 summarizes the Company's
12 test year rate base, including pro forma adjustments calculated through the proposed
13 true-up period and the resulting adjusted rate base. Schedule SDR-4 summarizes the
14 test year statement of operating income, including pro forma adjustments and the
15 resulting adjusted operating income. Schedule SDR-3 and Schedule SDR-5 summarize
16 adjustments to rate base and operating income, respectively. Schedule SDR-6 presents
17 the overall cost of capital used in the calculation of the revenue requirement, which will
18 be addressed in detail by Company Witness Robert B. Hevert. Schedule SDR-7
19 calculates the Gross Revenue Conversion Factor based on the effective state and federal
20 income tax rates, and Schedule SDR-8 calculates Liberty-Empire's income tax expense
21 based on its calculated net operating income or loss and the state and federal effective
22 tax rates presented on Schedule SDR-7.

23 **V. RATE BASE**

24 **Q. WHAT IS THE COMPANY'S PROPOSED RATE BASE IN THIS CASE?**

1 A. As shown on Schedule SDR-2, Liberty-Empire’s adjusted rate base is approximately
2 \$1.5B. It is comprised of the test year rate base of \$1.3B with pro forma adjustments
3 totaling \$156.3M.

4 **Q. PLEASE EXPLAIN RB ADJ 1.**

5 A. RB ADJ 1 increases plant in service and accumulated depreciation for projects
6 reasonably expected to be placed in service, used and useful by January 31, 2020. The
7 increase in Missouri jurisdictional plant in service is \$180,144,089, and the increase in
8 Missouri jurisdictional accumulated depreciation is \$1,379,466.

9 **Q. PLEASE EXPLAIN RB ADJ 2.**

10 A. A portion of certain common plant assets on Liberty-Empire’s books are related to non-
11 electric service and should be removed. RB ADJ 2 removes a percentage of the
12 common plant associated with the service provided to those business units. The
13 decrease in Missouri jurisdictional plant is \$4,001,090, and the associated accumulated
14 depreciation is \$2,615,671.

15 **Q. DO YOU SPONSOR RB ADJ 3?**

16 A. No. Company witness Leigha Palumbo sponsors RB ADJ 3 - Water Inventory.

17 **Q. PLEASE EXPLAIN RB ADJ 4.**

18 A. As reflected in Schedule SDR-3, RB ADJ 4 increases rate base by \$7,372,640 in
19 accordance with the pension and other post-employment benefits (“OPEB”) trackers
20 established in Case No. ER-2016-0023. Please refer to the direct testimony of
21 Company witness James A. Fallert filed in this docket for additional information
22 regarding the adjustment for pension and OPEB expenses.

23 **Q. PLEASE EXPLAIN RB ADJ 5.**

1 A. As reflected in Schedule SDR-3, RB ADJ 5 increases rate base by \$246,851. The
2 adjustment brings the Low Income Pilot Program balance to the amount the Company
3 expects to have incurred through the January 31, 2020 true-up period. The Company
4 is requesting the continuation of the tracking of customer charges in a regulatory asset.
5 Please refer to the direct testimony of Company witness Nathaniel W. Hackney filed
6 in this proceeding for additional information regarding Liberty-Empire's low income
7 pilot program including the Company's proposal to continue the program.

8 **Q. PLEASE EXPLAIN RB ADJ 6.**

9 A. As reflected in Schedule SDR-3, RB ADJ 6 increases rate base by \$301,947 to reflect
10 the discounts given to customers in accordance with the provisions of Senate Bill 564
11 related to economic development (RSMo. 393.1640).

12 **Q. PLEASE EXPLAIN RB ADJ 7.**

13 A. RB ADJ 7 increases the amount of accumulated deferred income taxes included in
14 rate base by \$522,886 to reflect the expected balance at January 31, 2020.

15 **Q. PLEASE EXPLAIN RB ADJ 8.**

16 A. As reflected in Schedule SDR-3, RB ADJ 8 updates the accumulated depreciation
17 included in Liberty-Empire's rate base through the true-up period. RB ADJ 8 decreases
18 the Company's rate base by \$57,413,779.

19 **Q. PLEASE EXPLAIN RB ADJ 9.**

20 A. RB ADJ 9 reflects a net adjustment to increase rate base by \$19,117,166 comprised of
21 a net increase in regulatory assets of \$5,362,107 and a net decrease in regulatory
22 liabilities of \$13,755,059. This adjustment reflects the removal of various regulatory
23 assets and liabilities that will be fully amortized by the time rates go into effect as a
24 result of this case, the removal of certain pension liabilities as addressed by Company

1 witness James Fallert, and the removal of a Tax Cut and Jobs Act (“TCJA”) tax
2 regulatory liability.

3 **Q. DID THE COMMISSION OPEN A DOCKET TO ADDRESS THE IMPACT**
4 **OF THE TCJA ON LIBERTY-EMPIRE AND ITS CUSTOMERS?**

5 A. Yes. The Commission opened Case Nos. ER-2018-0228 and ER-2018-0366 to consider
6 the impact of the TCJA and to adjust the Company’s rates following the passage of
7 RSMo. Section 393.137 (Senate Bill 564).

8 **Q. DID THE COMMISSION TAKE ANY ACTION IN THAT DOCKET WITH**
9 **REGARD TO THE COMPANY?**

10 A. Yes. As part of its Report and Order in Case No. ER-2018-0366 (the “Tax Order”), the
11 Commission directed Liberty-Empire to establish a regulatory liability to address the
12 impact of the TCJA on Empire’s rates for the so-called “stub period” - January 1, 2018
13 (the date of the tax rate reduction) to August 30, 2018 (the effective date of lower base
14 rates for Liberty-Empire). In that order, the Commission noted that it was “not making
15 any ratemaking decision” regarding whether the stub period revenues “can, or should
16 be returned to the company’s ratepayers.” Tax Order, p. 22. The Commission continued
17 by stating “(t)hat decision will be made in Empire’s next general rate case proceeding,
18 and a decision about the constitutionality of any ordered rate reduction also will be
19 made at that time.” *Id.* at 22. The Commission then ordered: “The Empire District
20 Electric Company shall record a regulatory liability for the financial impact of the Tax
21 Cut and Jobs Act of 2017 on the electrical corporation for the period of January 1, 2018,
22 through August 30, 2018. Recovery of the amounts deferred through the regulatory
23 liability shall be determined in Empire’s next general rate proceeding.” *Id.* at 25.

1 **Q. IS THIS LIBERTY-EMPIRE’S FIRST GENERAL RATE PROCEEDING**
2 **SINCE THE ISSUANCE OF THE TAX ORDER REQUIRING THE**
3 **ESTABLISHMENT OF THE REGULATORY LIABILITY?**

4 A. Yes.

5 **Q. HOW DOES LIBERTY-EMPIRE PROPOSE THAT THE REGULATORY**
6 **LIABILITY BE TREATED IN THIS RATE CASE?**

7 A. The Company has reviewed its financial performance for the “Stub Period” and
8 determined the Company earned less than its allowed return during that period.
9 Schedule SDR-10 shows this analysis which is based on actual earnings without any
10 adjustments. As a result, the Company does not believe that it would be equitable to
11 credit this regulatory liability to customers given that it would experience significant
12 under-earnings during this period. The Company also has concerns with regard to
13 whether returning revenues which were lawfully collected pursuant to Liberty-
14 Empire’s filed and approved tariffs would constitute retroactive ratemaking or
15 otherwise be unlawful.

16 **Q. PLEASE EXPLAIN RB ADJ 10.**

17 A. RB ADJ 10 increases rate base by \$10,217,935 for the amount of Asset Retirement
18 Obligations (“ARO”) paid out as of the test year, as well as additional AROs expected
19 to be settled and paid out by January 31, 2020.

20 **Q. PLEASE BRIEFLY DESCRIBE AN ARO.**

21 A. AROs are legal obligations associated with a tangible long-lived asset that result from
22 the acquisition, construction, development, or normal operation of a long-lived asset
23 in which the timing or method of settlement is conditional on a future event. An
24 ARO exists when the obligation to perform the asset retirement activity is

1 *unconditional* even though there may be uncertainty about whether and, if so, how
2 and when the obligation will ultimately be settled. The following are examples of
3 common AROs experienced by Liberty-Empire: (1) coal ash impoundments handling
4 and retirement and (2) abatement of asbestos-containing materials.

5 **Q. DO YOU SPONSOR RB ADJ 11?**

6 A. No. Company witness Leigha Palumbo sponsors ADJ 11 - Prepayments and
7 Materials.

8 **Q. PLEASE EXPLAIN RB ADJ 12?**

9 A. Company witness Timothy Lyons presents the lead lag study prepared for Liberty-
10 Empire and sponsors RB ADJ 12 which represents the level of CWC included in the
11 calculation of rate base.

12 **Q. PLEASE EXPLAIN RB ADJ 13.**

13 A. Company witness Leigha Palumbo sponsors ADJ 13 to Customer Advances and
14 Deposits.

15 **VI. INCOME STATEMENT ADJUSTMENTS**

16 **Q. HAS THE COMPANY PROPOSED ANY ADJUSTMENTS TO ITS TEST**
17 **YEAR OPERATING INCOME?**

18 A. Yes. As reflected in Schedule SDR-5, Liberty-Empire has proposed several
19 adjustments to its test year operating income.

20 **Q. DO ANY OF THE PROPOSED ADJUSTMENTS RELATE TO REVENUE?**

21 A. Yes. The Company has proposed adjustments to operating revenues to normalize for
22 the effects of weather, to annualize customer growth, for Investment Tax Credit
23 ("ITC") refund over collection as ordered in ER-2014-0351, to increase revenues for
24 expected load growth and the Economic Development Rider ("EDR") Revenues, and

1 to remove unbilled revenues. An adjustment was also made to increase revenues to
2 reflect only the revenue change for reduced taxes occurring during the test year
3 associated with the TCJA and as ordered in Case No. ER-2018-0366.

4 **Q. DO ANY OF THE PROPOSED ADJUSTMENTS RELATE TO EXPENSE?**

5 A. Yes. The Company has made several adjustments such as the amortization of expenses
6 deferred in trackers as well as the normalization or adjustment of expenses for out of
7 period occurrences that impact expense.

8 **Q. PLEASE EXPLAIN IS ADJ 1.**

9 A. As reflected in Schedule SDR-5, IS ADJ 1 increases uncollectible expenses by \$34,183
10 by normalizing uncollectible expense based on a 5-year historical uncollectible
11 percentage.

12 **Q. PLEASE EXPLAIN IS ADJ 2.**

13 A. As reflected in Schedule SDR-5, IS ADJ 2 decreases operating expenses by \$102,449
14 to remove merger related transition and acquisition costs incurred during the test year
15 from the revenue requirement as required in the stipulation and agreement in Case No.
16 EM-2016-0213.

17 **Q. PLEASE EXPLAIN IS ADJ 3.**

18 A. IS ADJ 3 increases operating expenses by \$1,409,581 to include additional labor costs
19 associated with open positions that the Company reasonably anticipates to fill after the
20 test year (out of period) but before the end of the true-up period.

21 **Q. PLEASE EXPLAIN IS ADJ 4.**

22 A. As reflected in Schedule SDR-5, IS ADJ 4 increases operating expenses by \$498,742
23 to reflect a normalized amount of labor costs associated with overtime based on a 5-
24 year average overtime percentage.

1 **Q. PLEASE EXPLAIN IS ADJ 5.**

2 A. IS ADJ 5 annualizes payroll based on the last pay period of the test year, March 22,
3 2019, and as a result increases operating expenses by \$621,653.

4 **Q. PLEASE DESCRIBE ADDITIONAL PAYROLL INCENTIVES NOT**
5 **CAPTURED IN IS ADJ 5.**

6 A. As further described by Liberty-Empire witness Jeff Westfall, the Company will offer
7 additional monthly pay to incentivize the Company's linemen, and other employees
8 that qualify, to continue employment with Liberty-Empire. The Company also will
9 offer incentives externally to attract linemen. The Company anticipates this increased
10 O&M cost to be approximately \$718,200. While the Company did not make a pro
11 forma adjustment for this, the increase in payroll costs will be captured when the
12 Company updates and trues-up its revenue requirement.

13 **Q. PLEASE EXPLAIN IS ADJ 6.**

14 A. As reflected in Schedule SDR-5, IS ADJ 6 decreases operating expenses by \$264,101
15 to annualize and adjust for expected changes in claims expense for healthcare (medical,
16 dental and vision) occurring after the test year.

17 **Q. PLEASE EXPLAIN IS ADJ 7.**

18 A. IS ADJ 7 increases operating expenses by \$7,915,095 to annualize depreciation
19 expense based on plant in service at the end of the true-up period including the plant
20 additions in RB ADJ 1. Liberty-Empire calculated depreciation expense based on
21 depreciation rates established in the Company's last general rate case, Case No. ER-
22 2016-0023, as reflected on Schedule A of the stipulation and agreement and as
23 requested above.

24 **Q. PLEASE EXPLAIN IS ADJ 8.**

1 A. As reflected in Schedule SDR-5, IS ADJ 8 increases operating expenses by \$410,030
2 to normalize expenses associated with maintenance of boiler plants based on a 5-year
3 historical average.

4 **Q. PLEASE EXPLAIN IS ADJ 9.**

5 A. IS ADJ 9 increases operating revenues by \$1,109,211 to adjust for anticipated load
6 growth as a result of the anticipated expansion of two industrial customers.

7 **Q. PLEASE EXPLAIN IS ADJ 10.**

8 A. IS ADJ 10 increases operating revenues by \$462,805 to account for economic
9 development discounts provided to customers in accordance with Liberty-Empire's
10 Economic Development Rider (Schedule EDR).

11 **Q. PLEASE EXPLAIN IS ADJ 11.**

12 A. IS ADJ 11 increases operating expenses by \$6,073,947 in accordance with the
13 pension and other post-employment benefits ("OPEB") trackers established in Case
14 No. ER-2016-0023, as well as changes in FAS 87 and FAS 106 expense, settlement
15 charges and Supplemental Executive Retirement Plan ("SERP") expense as discussed
16 in the direct testimony of Company witness James A. Fallert.

17 **Q. PLEASE EXPLAIN IS ADJ 12.**

18 A. IS ADJ 12 increases operating income by \$15,960,504 based on the Company's fuel
19 production model used to set an appropriate level of fuel in Liberty-Empire's base rates.
20 Company witness Todd Tarter further discusses the production model and base fuel
21 calculations.

22 **Q. PLEASE EXPLAIN IS ADJ 13.**

23 A. Company Witness Palumbo sponsors IS ADJ 13.

24 **Q. PLEASE EXPLAIN IS ADJ 14.**

1 A. IS ADJ 14 annualizes the number of Liberty-Empire customers and their related usage
2 at the end of the test year and results in an increase in operating revenues of \$2,089,780.

3 **Q. PLEASE EXPLAIN IS ADJ 15.**

4 A. IS ADJ 15 adjusts test year sales and revenues to account for the net impacts of
5 abnormal weather. The calculation of the normalized weather sales is presented in the
6 direct testimony of Company witness Eric Fox. Normalized weather revenue is
7 calculated by multiplying the weather normalized sales by the current rates for each
8 pricing plan affected by weather. IS ADJ 15 adjusts revenues for abnormal
9 temperatures during the test year which resulted in higher than normal sales and
10 revenues. As such, the weather normalization adjustment, IS ADJ 15, results in a
11 decrease to Missouri jurisdictional base rate revenue by \$18,382,302. In his direct
12 testimony, Mr. Fox further discusses test-year sales and system load weather
13 normalization.

14 **Q. PLEASE EXPLAIN IS ADJ 16.**

15 A. As reflected in Schedule SDR-5, IS ADJ 16 increases operating expenses by \$877,216
16 to reflect an out of test period anticipated increase in insurance premiums through the
17 update period.

18 **Q. PLEASE EXPLAIN IS ADJ 17.**

19 A. Schedule SDR-5 reflects the impact of the Company's adjustment, IS ADJ 17, to
20 remove \$15,233 from operating expenses for costs recorded during the test year that
21 the Company does not seek to recover from its Missouri retail customers.

22 **Q. PLEASE EXPLAIN IS ADJ 18.**

1 A. As reflected in Schedule SDR-5, IS ADJ 18 increases operating expenses by
2 \$6,335,625 to annualize increases in property taxes associated with increased plant in
3 service expected to be in service after the test period.

4 **Q. PLEASE EXPLAIN IS ADJ 19.**

5 A. In accordance with the Stipulation and Agreement in Case No. ER-2016-0023,
6 Liberty-Empire tracked the program costs associated with the Low Income Pilot
7 Program in a regulatory asset for recovery consideration by the Commission in this
8 case, the Company's next general rate case. IS ADJ 19 proposes to amortize \$246,851
9 over a 5 year period and results in an increase in annual operating costs of \$49,370.

10 **Q. PLEASE EXPLAIN IS ADJ 20.**

11 A. IS ADJ 20 reflects the amortization of \$1,401,804 related to the regulatory asset
12 previously established by the Commission for Missouri solar initiatives, including the
13 Company's pro-forma adjustment to reflect the balance of the regulatory asset at the
14 end of the true-up period. As reflected in RB ADJ 9, Liberty-Empire's projected true-
15 up balance for the Missouri solar initiatives and included in rate base is \$14,018,041.
16 The Company proposes to amortize the regulatory asset over ten years.

17 **Q. PLEASE EXPLAIN IS ADJ 21.**

18 A. IS ADJ 21 proposes an increase in annual operating revenues by \$160,218 to amortize
19 revenues associated with investment tax credits and as directed in the Report and Order
20 in ER-2014-0351.

21 **Q. PLEASE EXPLAIN IS ADJ 22.**

22 A. IS ADJ 22 increases operating expenses \$217,736 to normalize and amortize the
23 anticipated rate case expense associated with this proceeding over a 2-year amortization
24 period.

1 **Q. PLEASE EXPLAIN IS ADJ 23.**

2 A. IS ADJ 23 increases operating expenses by \$60,389 for the amortization, over five
3 years, of projected economic development discounts to be provided to customers in
4 accordance with Liberty-Empire’s Limited Large Customer Economic Development
5 Rider (Schedule SBEDR).

6 **Q. PLEASE EXPLAIN IS ADJ 24.**

7 A. IS ADJ 24 reflects the annual amortization, \$8,540,550, of unprotected excess
8 accumulated deferred income taxes (“ADIT”) calculated based on the Average Rate
9 Assumption Method or ARAM. The Company proposes to flow back to customers the
10 balance of unprotected excess ADIT over a 3 year period.

11 **Q. WHAT DID THE COMMISSION ORDER IN CASE NO. ER-2018-0366**
12 **REGARDING EXCESS ACCUMULATED DEFERRED INCOME TAX**
13 **(“ADIT”)?**

14 A. As part of the Tax Order, the Commission directed Liberty-Empire to “record a
15 regulatory liability for the difference between the excess ADIT balances included in
16 current rates, which is calculated using the 35 percent federal corporate income tax rate,
17 versus the now lower federal corporate income tax rate of 21 percent. The calculation
18 of the regulatory liability of excess ADIT shall begin as of January 1, 2018. Recovery
19 of the amounts deferred through the regulatory liability shall be determined in Empire’s
20 next general rate proceeding.”

21 **Q. HOW DOES LIBERTY-EMPIRE PROPOSE THAT THE EXCESS ADIT**
22 **REGULATORY LIABILITY BE TREATED IN THIS RATE CASE?**

23 A. Excess ADIT is divided into two groups or buckets: unprotected and protected. As
24 noted above, the Company’s proposal is to return the unprotected portion back to

1 customers over 3 years, as opposed to a longer period of 10 or 15 years as some utilities
2 in the industry have requested, in order to help minimize the rate increase impact on
3 customers. Due to IRS rules, the Company cannot accelerate the return or amortization
4 of the protected portion of the excess ADIT. As a result, the protected portion of excess
5 ADIT will flow back to customers over the average remaining life of the related assets.

6 **Q. PLEASE EXPLAIN IS ADJ 25.**

7 A. In Case No. ER-2014-0351, Liberty-Empire agreed to continue its energy efficiency
8 programs, at established funding levels and with the established recovery mechanism,
9 until Liberty-Empire has an approved Missouri Energy Efficiency Investment Act
10 (MEEIA) or until the effective date of rates in Liberty-Empire's next general rate case.
11 IS ADJ 25 proposes to amortize the Company's projected regulatory asset balance of
12 \$136,211 at the end of the true-up period, over 2 years resulting in an increase to annual
13 operating expenses of \$68,106.

14 **Q. PLEASE EXPLAIN IS ADJ 26.**

15 A. IS ADJ 26 amortizes the costs collected in the Riverton 12 Tracker established in
16 Case No. ER-2014-0351 over a 5-year amortization period and results in an increase
17 to operating expenses of \$2,933,728.

18 **Q. PLEASE EXPLAIN IS ADJ 27.**

19 A. IS ADJ 27 reflects a net decrease in operating expenses of \$117,337, to remove
20 annual amortization expense currently being collected in rates and set to be fully
21 amortized during the true-up period in this rate case related to regulatory assets and
22 liabilities.

23 **Q. PLEASE EXPLAIN IS ADJ 28.**

1 A. IS ADJ 28 reflects the annual amortization of protected excess ADIT associated with
2 the TCJA and returns \$2,263,671 to customers annually.

3 **Q. PLEASE EXPLAIN IS ADJ 29.**

4 A. As reflected in Schedule SDR-5, IS ADJ 29 increases operating expenses by \$266,228
5 for known and measurable changes occurring outside the test year associated with the
6 contracted demand charge for Liberty-Empire’s Plum Point generating unit. The new
7 demand charge will become effective in September 2019.

8 **Q. PLEASE EXPLAIN IS ADJ 30.**

9 A. Please refer to the direct testimony of Company witness Brent Baker who addresses
10 Liberty-Empire’s request to include fees associated with credit card and debit card
11 (“card”) payments, currently incurred by its customers, in base rates. IS ADJ 30
12 proposes to increase operating expenses by \$1,250,222 which represents an estimated
13 annualized amount of fees paid by residential customers based on the number of card
14 payments received in the most recent ten month period and multiplied by the per
15 transaction fee of \$2.25.

16 **Q. PLEASE EXPLAIN IS ADJs 31 and 32.**

17 A. Company witness Palumbo sponsors ADJs 31 and 32.

18 **Q. PLEASE EXPLAIN IS ADJ 33.**

19 A. Schedule SDR-4 includes the impact of IS ADJ 33 which removes \$1,034,930 of
20 revenues from test year that were not billed to or received from customers during the
21 test year and which billing determinants were not reflected in the billing determinants
22 used to calculate a weather normalized level of revenue. Therefore, this adjustment is
23 required in order to avoid a double counting of revenue.

1 In addition, the Company recorded \$6,391,485 unbilled revenue in its books and
2 records during the test year. However, a significant portion of the unbilled revenue
3 reflected a change in timing of the recording of billed revenue that occurred during the
4 test year and resulted in a one month delay in the booking of customers' revenue for all
5 of billing cycle 21 beginning in October 2018. This change resulted in unbilled revenue
6 associated with the billing in the final month of the test year for these customers totaling
7 \$5,356,555. This portion of unbilled revenue was not removed to ensure that the test
8 year revenue reflected the full 12-months of revenue for the cycle 21 customers.

9 **Q. PLEASE EXPLAIN IS ADJ 34.**

10 A. IS ADJ 34 increases Liberty-Empire's operating revenues by \$3,985,645, to reflect
11 only the deferred revenues related to the change in the federal income tax rate as a
12 result of the TCJA occurring during the test period.

13 **Q. PLEASE EXPLAIN IS ADJ 35.**

14 A. IS ADJ 35 increases operating expenses by \$2,619,326 for the annual amortization of
15 various AROs that have been paid or expected to be paid by the end of the true-up
16 period.

17 **Q. PLEASE EXPLAIN IS ADJ 36.**

18 A. IS ADJ 36 increases non-labor operating and maintenance expenses associated with
19 Liberty-Empire's Riverton 12 generation unit by \$4,798,471, to normalize the level of
20 expenses included in the calculation of base rates.

21 **VII. REBASED COSTS**

22 **Q. DOES THE COMPANY PROPOSE TO REBASE COSTS CURRENTLY**
23 **BEING RECOVERED THROUGH OTHER RATE ADJUSTMENT**
24 **MECHANISMS OR TRACKER MECHANISMS?**

1 A. Yes. The Company is proposing to rebase the amount of Riverton 12 Operation and
2 Maintenance (“O&M”) expense included in its base rates to reflect a new base
3 amount of \$8,731,672. Also, as discussed by Company witness Todd W. Tarter,
4 Liberty-Empire is proposing to adjust the FAC base factor and update the amount of
5 fuel and purchased power included in its base rates.

6 **VIII. RETIREMENT OF ASBURY**

7 **Q. AS DESCRIBED IN FILE EO-2018-0092, THE COMPANY HAS BEEN**
8 **CONSIDERING THE RETIREMENT OF ITS ASBURY POWER PLANT.**
9 **WHAT ARE THE COMPANY’S CURRENT PLANS FOR THE ASBURY**
10 **PLANT?**

11 A. Liberty-Empire recently submitted its triennial integrated resource plan (“IRP”) to the
12 Commission which reflects a preferred plan to retire Asbury. As a result of this analysis
13 and as discussed in Company witness Tim Wilson’s testimony, the Company plans to
14 retire the Asbury plant no later than June of 2020. Closing the Asbury plant by June
15 2020 enables the Company to avoid additional investment that would be required by
16 environmental regulations governing coal ash. Asbury would not be allowed to operate
17 beyond that date without making considerable investments or incurring significant
18 costs to dispose of the coal ash. Considering the age of the plant, the investments
19 needed to comply with the environmental rules, the ongoing operation and maintenance
20 costs that could be avoided or reduced, as well as how the plant has performed in recent
21 years in the Southwest Power Pool’s Integrated Marketplace, the Company determined
22 the retirement of the Asbury plant by June of 2020 to be in the best interests of its
23 customers.

1 **Q. PLEASE DESCRIBE HOW O&M EXPENSES INCLUDED IN RATES ARE**
2 **IMPACTED BY THE CLOSURE OF THE ASBURY PLANT.**

3 A. Upon closure of the Asbury plant, there will be an impact on the Company's O&M
4 expenses. Examples of this include reduced expenses to maintain the plant such as
5 materials expense. In addition, labor costs associated with the plant may be reduced
6 due to redeployment elsewhere in the Company.

7 **Q. IS THE COMPANY OPPOSED TO THE ISSUANCE OF AN AAO TO**
8 **ADDRESS THE IMPACT ON O&M EXPENSE AS A RESULT OF THE**
9 **CLOSURE OF ASBURY?**

10 A. No. Because Asbury will be retired outside of the true-up period of this rate case and
11 the O&M changes will not yet be known and measurable, an AAO is an option that
12 could be used to address the out of period changes.

13 **Q. DID THE NON-UNANIMOUS STIPULATION IN CASE NO. EA-2019-0010**
14 **CONTEMPLATE THIS APPROACH?**

15 A. Yes. In EA-2019-0010 and the predecessor docket, EO-2018-0092, the Non-
16 Unanimous Stipulations contained a provision regarding the establishment of an AAO
17 to address the change in operating expense associated with any retirement of the Asbury
18 plant. However, the Commission did not adopt that provision in either of those dockets.

19 **IX. JURISDICTIONAL ALLOCATION CHANGES**

20 **Q. IS THE COMPANY REQUESTING AN AAO OR OUT OF PERIOD**
21 **ADJUSTMENT RELATED TO JURISDICTIONAL ALLOCATION**
22 **CHANGES?**

23 A. Yes. The company will experience a significant and unusual change in its native load
24 after the end of the true-up period but prior to the expected effective date of rates in

1 this proceeding. The native load reduction will be approximately six percent when this
2 change takes place. Since the Company's native load will be decreased, there will be
3 less kWh included in the calculation to allocate costs to the Company's jurisdictions
4 which will result in additional costs allocated to Missouri's retail customers.

5 This change of load significantly affects the cost of service allocations among Liberty-
6 Empire's jurisdictions. Therefore, Liberty-Empire is requesting either an AAO to
7 capture the changes in allocated costs and associated revenues for review in the next
8 rate case or a discrete out-of-period adjustment.

9 **Q. WHEN WILL THIS CHANGE OCCUR?**

10 A. The effective date of the change in load requirements is June of 2020, after the close of
11 the true-up period in this case. Unless an out-of-period adjustment is made, any change
12 in cost of service, including any revenue streams associated with this change, will not
13 be included in the rates for Missouri customers until the effective date of rates resulting
14 from Liberty-Empire's next rate case. If a discrete out-of-period adjustment is not
15 made, the establishment of an AAO would at least allow these costs and revenues to be
16 considered in the next rate case.

17 **Q. WHAT IS CAUSING THIS REDUCTION IN NATIVE LOAD?**

18 A. In late 2017, three long term customers who are currently under a 10 year contract
19 decided not to extend their contracts as they had previously done. The customers
20 notified the Company and executed documents to stop receiving their load
21 requirements from Liberty-Empire. Since that time, the Company has worked
22 diligently to find other customers that have a need for energy and/or capacity.

23 **Q. DID THE COMPANY ENTER INTO AN AGREEMENT WITH ANOTHER**
24 **CUSTOMER?**

1 A. Yes. The Company has entered into an agreement and will sell capacity to a new
2 customer. The Company proposes to flow the revenues from this sale of capacity back
3 to its retail customers through the proposed AAO or with the discrete adjustment,
4 offsetting some of the costs associated with the jurisdictional allocation change. In
5 addition, the Company will sell generation related to this capacity on behalf of this new
6 customer into the Southwest Power Pool (“SPP”) Integrated Marketplace (“IM”) and
7 receive revenue from the purchaser for this energy. The Company is also proposing to
8 flow back to its retail customers the net revenues associated with those sales - whether
9 through an AAO or as part of a discrete adjustment.

10 **X. CONTINUATION AND IMPLEMENTATION REQUESTS FOR TRACKERS**

11 **Q. DOES LIBERTY-EMPIRE REQUEST TO CONTINUE THE RIVERTON 12**
12 **TRACKER?**

13 A. Yes. As discussed above, the operating expenses associated with the Riverton 12 long
14 term maintenance agreement have increased significantly since the tracker was
15 established in the Company’s last rate case. Liberty-Empire believes the continuation
16 of the tracker for these costs provides benefits to both the Company and its customers
17 by avoiding any over or under collection of costs incurred for maintenance of the
18 Riverton 12 unit.

19 **Q. DOES LIBERTY-EMPIRE REQUEST THE CONTINUATION OF THE**
20 **PENSION AND OPEB TRACKER?**

21 A. Yes. As discussed and supported by Company witness James Fallert, pension and
22 OPEB costs can fluctuate greatly due to a variety of circumstances. The Company
23 respectfully requests the continuation of a tracker mechanism for pension and OPEB
24 expenses.

1 **Q. DOES THE COMPANY REQUEST TO REMOVE THE ADDENDUM TO THE**
2 **TARIFFS FOR FEDERAL TAX RATE REDUCTION AND INCLUDE A**
3 **TRACKER FOR TAX AMORTIZATIONS INCLUDED IN BASE RATES?**

4 A. Yes. Liberty-Empire requests to remove the addendum to the tariffs which became
5 effective August 30, 2018 to allow the Company to pass the benefits of the TCJA back
6 to customers. The Company's proposed revenue requirement is calculated based on
7 the reduced federal income tax rate and the addendum is no longer appropriate. The
8 Company also requests a tracker for the over or under collection in rates due to changes
9 in the annual amortization of the protected portion of excess ADIT amounts due to
10 ARAM and due to usage changes for both the protected and unprotected excess ADIT.

11 **XI. RIDER FAC MINIMUM FILING REQUIREMENTS**

12 **Q. IS THE COMPANY'S REQUEST TO CONTINUE ITS RIDER FAC**
13 **DESIGNED TO COMPLY WITH THE COMMISSION'S RULES?**

14 A. Yes. Liberty-Empire has designed its Rider FAC continuation request to comply with
15 Commission Rule 4 CSR 240-20.090(2)(A)1-19 which governs the fuel adjustment
16 process. The table below displays a list of the FAC-related minimum filing
17 requirements and a description of where this information can be found in supporting
18 schedules and testimony.

4 CSR 240-20.090 Fuel and Purchased Power Rate Adjustment Mechanisms Section (2)(A), Minimum Filing Requirements		
#	Description	Reference
1.	Customer Notice	Schedule SDR-11
2.	Sample Customer Bills	Schedule SDR-12
3.	Proposed FAC Tariff	Schedule AJD-1
4.	Description and Operation	Richard Direct Testimony
5.	Equity Return	Richard Direct Testimony
6.	True-up	Richard Direct Testimony
7.	Short-term Borrowing Rate	Schedule SDR-13
8.	Prudence Reviews	Richard Direct Testimony
9.	Power Supply Costs/Rev.	Schedule SDR-14
10.	Fuel Costs/Rev.	Schedule SDR-14
11.	Incentive Features	Richard Direct Testimony
12.	Rate Volatility Mitigation	Richard Direct Testimony
13.	Cost Recovery Prudence	Richard Direct Testimony
14.	Business Risk	Richard Direct Testimony
15.	Plant Efficiency Stats	Schedule SDR-15
16.	IRP Schedule	EO-2013-0547 (“2019 IRP”)
17.	Emission Allowances	Schedule SDR-16
18.	Five-year Plant Availability	Schedule SDR-17
19.	Authorization	Richard Direct Testimony

1

2 **Q. WILL LIBERTY-EMPIRE CUSTOMERS BE NOTIFIED OF THE REQUEST**
3 **TO CONTINUE THE FAC (4 CSR 240-20.090 (2) (A) 1)?**

4 A. Yes. In addition to the normal notice requirements for a general rate case filing, the
5 Company has prepared a notice that describes the request to continue the existing FAC.
6 Please see an exemplar copy of the notice attached as Schedule SDR-11.

7 **Q. DOES THE ACCOUNTING AND BILLING PROCESS IN THE PROPOSED**
8 **FAC ENABLE LIBERTY-EMPIRE TO TRACK FAC REVENUES AS A**
9 **DISCRETE LINE ITEM ON CUSTOMERS’ BILLS (4 CSR 240-20.090 (2) (A)**
10 **2)?**

11 A. Yes. FAC changes/credits have been, and will continue to be, shown as a separate line
12 item on each customer’s bill, and the FAC revenue will continue to be segregated on

1 the Company's books and records to facilitate the accounting and audit process. Please
2 see Schedule SDR-12 for an example of a customer bill.

3 **Q. ARE THE PROPOSED FAC TARIFF SHEETS PROVIDED (4 CSR 240-20.090**
4 **(2) (A) 3)?**

5 A. Yes. Please see Company witness Doll's Schedule AJD-1.

6 **Q. PLEASE DESCRIBE THE OPERATION OF LIBERTY-EMPIRE'S FAC (4**
7 **CSR 240-20.090 (2) (A) 4).**

8 A. The application of the tariff involves the accumulation of actual Missouri jurisdictional
9 net energy costs over a six-month period and comparing that cost accumulation to the
10 base cost of energy recovery of net costs eligible for the FAC. Please also see the
11 testimony of Company witness Todd Tarter. Ninety-five percent of this over/under
12 recovery balance is then billed/credited to Liberty-Empire's Missouri retail customers
13 over a six-month billing period that immediately follows the six-month accumulation
14 period. The first six-month accumulation period is September through February, and
15 the associated recovery or billing period is the following June through November. The
16 process in the FAC involves changing the energy cost recovery factor twice each year,
17 once in June and again in December. Liberty-Empire files for energy cost recovery
18 changes under the FAC in April and October of each year. Please also see Company
19 witness Doll's Schedule AJD-1.

20 **Q. WHAT IS THE TIMING OF THE SEMI-ANNUAL FAC FILINGS IN THE FAC**
21 **TARIFF?**

22 A. The proposed tariff incorporates the following timing of actions, which are the same as
23 those included in Liberty-Empire's existing FAC:

24 • Filing for a change in the fuel adjustment rate ("FAR") on April 1st and October 1st

1 each year;

- 2 • Staff recommendation on the filed FAR by May 1st and November 1st each year;
- 3 • Commission action on the FAR by June 1st and December 1st or FAR as filed is
- 4 allowed to go into effect on June 1st and December 1st each year.

5 **Q. DOES THE TIMING OF THESE ACTIONS COMPLY WITH THE**

6 **COMMISSION'S RULES GOVERNING THE FILING OF PERIODIC**

7 **ADJUSTMENTS TO THE FAC?**

8 A. Yes. The Staff has thirty days from the date of a FAR filing to make its

9 recommendation, and the Commission has sixty days from the FAR filing date in which

10 it can render a decision concerning the cost recovery factor or allow it to go into effect

11 by operation of law.

12 **Q. DOES THE PROPOSED FAC TARIFF AND THE RECOVERY/REFUND**

13 **MECHANISM PROVIDE LIBERTY-EMPIRE SUFFICIENT OPPORTUNITY**

14 **TO EARN A FAIR RETURN ON EQUITY (4 CSR 240-20.090 (2) (A) 5)?**

15 A. Yes and no. The proposed FAC mechanism is a significant improvement over the

16 recovery of these costs only through base rates. Additionally, the Company is

17 proposing some changes to its existing FAC as described by witness Doll. These

18 changes, such as the proposed inclusion of all RTO transmission expense, would

19 improve the Company's opportunity to earn a fair return as compared with base rate

20 recovery. The proposed FAC will recover 95 percent of the changes in energy costs,

21 which means that the Missouri retail customers will reimburse Liberty-Empire for a

22 significant portion of its actual, prudently incurred, fuel and energy costs when above

23 the base level. Although, overall, the FAC is a great improvement over the situation

24 that existed prior to the FAC, any negative adjustment to the 95% / 5% sharing

1 mechanism could deprive the Company of a sufficient opportunity to earn a fair
2 return on equity and thereby deny the Company one of the major benefits an FAC
3 was designed to provide. During periods when fuel and purchased power costs
4 increase between rate cases, the sharing mechanism requires Liberty-Empire to
5 absorb five percent of those cost increases – which directly reduces the Company’s
6 earnings – even though all those costs were prudently incurred. If the percentage of
7 costs the Company is required to absorb under the FAC’s sharing mechanism is
8 increased above the current level, the resulting effect on net income could deprive
9 Liberty-Empire of an opportunity to earn a fair return on equity. Likewise, if energy
10 costs would happen to fall below the FAC base, Liberty-Empire’s customers could be
11 adversely impacted.

12 **Q. HOW DOES THE TRUE-UP OF ENERGY COST RECOVERY TAKE PLACE**
13 **(4 CSR 240-20.090 (2) (A) 6)?**

14 A. The true-up of recovered energy costs takes place every six months. Any refunds
15 ordered by the Commission will include interest at the Company’s short-term
16 borrowing rate.

17 **Q. PLEASE DESCRIBE HOW THE FAC MONTHLY SHORT-TERM**
18 **BORROWING RATE IS DEFINED AND APPLIED TO OVER-UNDER**
19 **BILLED AMOUNTS AND DISALLOWANCES AS PRESCRIBED BY THE**
20 **COMMISSION’S RULES (4 CSR 240-20.090 (2) (A) 7)?**

21 A. The interest rates for Liberty-Empire’s FAC accounts are calculated monthly at a rate
22 equal to the weighted average interest paid on the Company’s short term debt, applied
23 to the average balance of the under or over recovery calculations for periods including
24 the current accumulation period and all prior accumulation periods net of

1 recoveries/refunds from/to customers. A sample calculation of the short-term rate is
2 shown on Schedule SDR-13.

3 **Q. PLEASE DESCRIBE HOW THE FAC COMPLIES WITH THE PRUDENCE**
4 **REVIEW PROCEDURES PRESCRIBED BY THE COMMISSION'S RULES (4**
5 **CSR 240-20.090 (2) (A) 8)?**

6 A. Liberty-Empire's proposed FAC is flexible and allows the Commission to adjust the
7 amount of FAC recovery if any cost is disallowed as the result of a prudence review.
8 The accounting procedures used by Liberty-Empire will involve an audit trail that should
9 facilitate the audit process associated with those periodic prudence reviews. The exact
10 timing of the prudence review has not been explicitly set out in the tariff, but the tariff
11 specifies that prudence reviews will take place no less than every eighteen (18) months.
12 Liberty-Empire's operation of the FAC has been audited by the Commission Staff
13 through February 28, 2018, and no disallowances have been recommended by Staff.

14 **Q. PLEASE EXPLAIN ALL OF THE COSTS AND REVENUES THAT SHALL BE**
15 **CONSIDERED FOR RECOVERY IN THE PROPOSED FAC (4 CSR 240-20.090**
16 **(2) (A) 9 and 4 CSR 240-20.090 (2) (A) 10).**

17 A. Liberty-Empire is proposing to continue with the same FAC components as Liberty-
18 Empire's existing FAC as well as those requested by Mr. Doll. Liberty-Empire's
19 current FAC consists of net FPP energy costs (including FPP costs associated with the
20 SPP IM, fuel related costs such as unit train, undistributed and other, variable natural
21 gas transportation expenses and Plum Point PPA O&M), plus the cost of the AQCS
22 consumables, a portion of the Regional Transmission Operator ("RTO") transmission
23 expense and net emissions cost, if any, less the net sales of RECs.

24 Liberty-Empire's proposed FAC includes the addition of net Auction Revenue Rights

1 and Transmission Congestion Rights, all of the RTO transmission expense and other
2 items including the revised definition of off-system sales revenue (“OSSR”) as
3 proposed by Mr. Doll.

4 The FAC base is then calculated on a per unit basis utilizing net system input expressed
5 in kilowatt hours or megawatt hours. Please also see Company witness Todd Tarter’s
6 Schedule TWT-3.

7 Finally, accounts, especially subaccounts, can change from time to time. They exist as
8 a way to track and manage costs. Therefore, some flexibility should be retained to
9 handle changing business conditions. An example of specific accounts and definitions
10 from Liberty-Empire’s existing and proposed FAC are attached as Schedule SDR-14.

11 **Q. DO THE ENERGY COSTS ELIGIBLE FOR RECOVERY THROUGH THE**
12 **PROPOSED FAC INCLUDE THE COSTS AND/OR BENEFITS ASSOCIATED**
13 **WITH LIBERTY-EMPIRE’S FUEL RISK MANAGEMENT (HEDGING)**
14 **PROGRAM?**

15 A. Yes. As indicated on Schedule SDR-14, the costs eligible for recovery through the
16 tariff include Liberty-Empire’s fuel risk management costs, which are recorded in
17 FERC accounts 501, 547, and 555.

18 **Q. PLEASE DESCRIBE ANY INCENTIVE FEATURES IN THE PROPOSED FAC**
19 **(4 CSR 240-20.090 (2) (A) 11).**

20 A. As with the existing FAC, Liberty-Empire is proposing to maintain the 95% / 5%
21 sharing mechanism, which operates as an incentive feature. It is my understanding
22 that when this sharing mechanism was initially instituted, it was designed to
23 incentivize the Company to maintain low energy costs. If prudently incurred FAC
24 eligible costs are higher than the FAC base factor, the Company would absorb five

1 percent of the costs higher than the FAC base. Alternately, if the prudently incurred
2 FAC eligible costs are lower than the FAC base factor, the Company would retain
3 five percent of the costs lower than the FAC base.

4 **Q. ARE THERE BENEFITS ASSOCIATED WITH THE CONTINUED USE OF A**
5 **FAC FOR LIBERTY-EMPIRE (4 CSR 240-20.090 (2) (A) 11)?**

6 A. Yes. There are benefits for all of the Company's stakeholders. First, Liberty-Empire
7 benefits by being able to recover most of its actual fuel and energy costs through the
8 FAC. This strengthens Liberty-Empire's financial profile and enhances its ability to
9 attract the financing necessary to meet its customers' needs and to obtain that financing
10 at the best rates possible. In addition, the need to file general rate cases for the purpose
11 of recovering ongoing fuel and energy costs in base electric rates has essentially been
12 eliminated. Fewer general rate case filings lowers the Company's regulatory costs and,
13 as such, the cost to serve Liberty-Empire's Missouri customers.

14 **Q. DOES THE FAC BENEFIT THE CUSTOMER (4 CSR 240-20.090 (2) (A) 11)?**

15 A. Yes, the customer benefits from the implementation and continuation of a properly
16 designed FAC. The customer will only reimburse Liberty-Empire for the actual cost
17 of fuel and energy, not an estimate of future energy costs. Thus, depending on the
18 sharing mechanism and the actual costs incurred, there may be no over or under
19 recovery of cost. Liberty-Empire could also have a stronger financial profile and an
20 enhanced ability to attract the capital necessary to operate its utility system at the best
21 rates possible. Ultimately, this should lower the cost of operations from what it would
22 have been without the FAC. In addition, the FAC conveys a more accurate cost of
23 electric energy to Liberty-Empire's customers. If energy costs increase, the customer
24 will know within six months and will be in a position to make an informed decision

1 concerning any energy efficiency measures that could be implemented in an effort to
2 lower consumption. The fixed energy pricing system that Missouri used prior to the
3 FAC tended to shield the customer from the true cost of electric energy, which may
4 hamper the customers' adoption of or participation in energy efficiency programs.

5 **Q. DOES THE PROPOSED FAC INCLUDE ANY RATE VOLATILITY**
6 **MITIGATION FEATURES (4 CSR 240-20.090 (2) (A) 12)?**

7 A. Yes. The energy cost changes that occur during the accumulation period will be spread
8 over six months. This feature will fix the FAC component of a customer's bill for six
9 months and will tend to smooth out energy price volatility.

10 **Q. DOES THE EMPIRE FAC TARIFF INCLUDE PROVISIONS THAT ARE**
11 **DESIGNED TO LIMIT EMPIRE'S FAC RECOVERIES TO PRUDENTLY**
12 **INCURRED COST OF ENERGY (4 CSR 240-20.090 (2) (A) 13)?**

13 A. Yes. The Liberty-Empire FAC and the Commission's rule governing FACs include
14 two safeguards that limit FAC recovery to actual, prudently-incurred energy costs. The
15 first safeguard is a true-up process that ensures that the FAC collections during the
16 Recovery Period do not exceed actual energy costs incurred during the Accumulation
17 Period. The second safeguard involves a requirement that Liberty-Empire's energy
18 costs be subjected to periodic Prudence Reviews, which ensure that only prudently-
19 incurred energy costs are passed through to customers.

20 **Q. DOES LIBERTY-EMPIRE HAVE PROCEDURES IN PLACE DESIGNED TO**
21 **ENSURE THAT ITS FUEL PURCHASING IS PRUDENT (4 CSR 240-20.090 (2)**
22 **(A) 13)?**

23 A. Yes, it does. Liberty-Empire plans its fuel procurement activity using long-term

1 planning and maintains an active Risk Management Policy.

2 **Q. IN ITS DIRECT FILING, HAS THE COMPANY PROVIDED ANY**
3 **INFORMATION ABOUT THE CHANGE IN BUSINESS RISK RESULTING**
4 **FROM THE IMPLEMENTATION OF THE PROPOSED FAC (4 CSR 240-**
5 **20.090 (2) (A) 14)?**

6 A. Yes, please refer to the direct testimony of Company witness Robert B. Hevert starting
7 on page 29.

8 **Q. HAS LIBERTY-EMPIRE CONDUCTED ANY HEAT RATE TESTING ON ITS**
9 **GENERATION UNITS DURING THE PREVIOUS TWENTY-FOUR MONTHS**
10 **(4 CSR 240-20.090 (2) (A) 15)?**

11 A. Yes. The heat rate test results are included as Schedule SDR-15. Additionally, the
12 documentation of the test monitoring procedures are found in files contained in folder
13 FAC MFR #15 which will be provided to the parties in this case as part of the
14 workpapers it provides in connection with its direct case filing. Heat rate testing
15 information, as required by Rule subpart 20.090(2)(A)(15), is being providing for
16 twelve of Liberty-Empire's thirteen generating units. Heat rate testing, however, was
17 performed on Liberty-Empire's Riverton 11 generating unit just outside the 24-month
18 time period prescribed by the Rule, and, as such, a partial waiver is being requested.

19 **Q. PLEASE PROVIDE ANY INFORMATION THAT DEMONSTRATES THAT**
20 **EMPIRE HAS A LONG-TERM RESOURCE PLANNING PROCESS IN**
21 **PLACE (4 CSR 240-20.090 (2) (A) 16).**

22 A. Liberty-Empire filed its most recently completed IRP in Missouri on June 28, 2019, in
23 Case No. EO-2019-0049 ("2019 IRP").

24 **Q. PLEASE PROVIDE A DESCRIPTION OF THE COMPANY'S EMISSION**

1 **MANAGEMENT POLICY AND FORECASTED ENVIRONMENTAL**
2 **INVESTMENTS AND ALLOWANCES PURCHASES AND SALES (4 CSR 240-**
3 **20.090 (2) (A) 17).**

4 A. Empire is currently subject to two sets of regulations which utilize emissions allowances.
5 They are the Acid Rain program and the Cross State Air Pollution Rule (“CSAPR”).
6 Under these programs, each year, a set number of emissions allowances are provided to
7 Empire for each of the affected plants. Empire anticipates being able to comply with
8 these regulations with the allowances provided. At this time, Empire has no plans to sell
9 any banked allowances, which are used to help ensure compliance with existing
10 regulations. Therefore, based on current market conditions, the Company expects little
11 to no costs or revenue over the next four years related to emissions allowances.

12 **Q. PLEASE PROVIDE DATA AND ILLUSTRATIONS DETAILING**
13 **GENERATING PLANT AVAILABILITY FOR THE PRECEDING FIVE YEARS**
14 **FOR EACH PLANT LIBERTY-EMPIRE OWNS EITHER IN PART OR IN ITS**
15 **ENTIRETY(4 CSR 240-20.090 (2) (A) 18).**

16 A. The plant availability data is included as Schedule SDR-17.

17 **Q. DOES LIBERTY-EMPIRE GRANT AUTHORIZATION FOR THE**
18 **COMMISSION TO RELEASE TO ALL PARTIES TO THE GENERAL RATE**
19 **CASE THE PREVIOUS FIVE YEARS OF HISTORICAL SURVEILLANCE**
20 **MONITORING REPORTS LIBERTY-EMPIRE HAS SUBMITTED THROUGH**
21 **THE ELECTRONIC FILING INFORMATION SYSTEM? (4 CSR 240-20.090 (2)**
22 **(A) 19).**

23 A. Yes.

24

1 **XII. COMPLIANCE WITH STIPULATIONS AND AGREEMENTS**

2 **Q. HAS THE COMPANY COMPLIED WITH THE STIPULATIONS AND**
3 **AGREEMENTS AS ORDERED BY THE COMMISSION IN FILE NO. ER-**
4 **2016-0023?**

5 A. Yes, the Company is in compliance with the Stipulation and Agreement approved by
6 the Commission by Order dated August 10, 2016, as well as the DSM Stipulation and
7 Agreement approved by Order dated May 17, 2017 (“DSM”). Among the major areas
8 are the following:

9 **DSM Regulatory Asset**

10 The Signatories agreed that the Company will continue amortization of the DSM
11 regulatory asset for costs incurred during the Regulatory Plan, File No. EO-2005-0263,
12 for a total term of ten (10) years.

13 **DSM Program Cost**

14 The Signatories agreed that the Company will continue amortization for the DSM
15 program costs incurred after the end of the Regulatory Plan and prior to any program
16 implementation under MEEIA for a total term of six (6) years.

17 **Low Income Weatherization**

18 Please see the direct testimony of Company witness Nathaniel W. Hackney who will
19 address the stipulations and agreements regarding Low Income Weatherization.

20 **Volumetric Rate Design / Block Rates**

21 Staff, OPC, DE, and the Company agreed to work together to develop an analysis
22 regarding responsible energy use as related to residential block rates, with said analysis
23 to be filed by the Company in its next general rate case. Please refer to the direct
24 testimony of Company witness Timothy S. Lyons for this analysis.

1 **Reporting**

2 The Company agreed to and has continued to provide monthly quality of service
3 reporting, submit monthly revenue and usage reports to Staff, and provide the following
4 information as part of its monthly FAC reports (as agreed to in the Non-Unanimous
5 Stipulation and Agreement filed May 12, 2010, in File No. ER-2010-0130):

- 6 a. Monthly SPP market settlements and revenue neutrality uplift charges;
- 7 b. Notify Staff within 30 days of entering a new long-term contract for
8 transportation, coal, natural gas or other fuel; natural gas spot transactions are
9 specifically excluded;
- 10 c. Provide Staff with a monthly natural gas fuel report that includes all
11 transactions, spot and longer term; the report will include term, volumes, price
12 and analysis of number of bids;
- 13 d. Notify Staff within 30 days of any material change in the Company's fuel
14 hedging policy, and provide the Staff with access to new written policy;
- 15 e. Provide Staff its Missouri Fuel Adjustment Interest calculation work papers
16 in electronic format with all formulas intact when the Company files for a
17 change in the cost adjustment factor;
- 18 f. Notify Staff within 30 days of any change in Liberty-Empire's internal
19 policies for participating in the SPP; and
- 20 g. Continue to provide Staff access to all contracts and policies upon Staff's
21 request, at the Company's corporate office in Joplin, Missouri.

22 **XIII. MERGER STIPULATIONS – CASE NO. EM-2016-0213**

23 **Q. HAS LIBERTY-EMPIRE COMPLIED WITH THE CONDITIONS SET**
24 **FORTH IN THE STIPULATIONS AND AGREEMENTS WITH THE STAFF**

1 **AND OFFICE OF THE PUBLIC COUNSEL (“OPC”) REGARDING**
2 **FINANCING?**

3 A. Yes. Liberty-Empire has complied with the following conditions regarding financing:

4 • The Company agreed to provide notice to the Commission, including a filing
5 with required information, in the event The Empire District Electric Company
6 (“Empire”), and/or the affiliate on which it relies on for its debt financing
7 (“Financing Affiliate”), should have its Standard & Poor’s (“S&P”) Corporate
8 Credit Rating downgraded to below BBB-. *The Company has not been*
9 *downgraded below a BBB-.*

10 • The Company agreed in the event Empire’s affiliation with Algonquin Power
11 & Utilities Corp. and its companies should cause Empire’s and/or the Financing
12 Affiliate’s S&P Corporate Credit Rating to be downgraded to below BBB-,
13 Empire, or the Financing Affiliate, shall pursue additional legal and structural
14 separation, if necessary, from the affiliate(s) causing the downgrade, to ensure
15 Empire continues to have access to capital at the least cost. Empire shall not
16 pay a dividend to its upstream parent companies until there is sufficient
17 evidence that Empire’s S&P Corporate Credit Rating has been restored to the
18 rating Empire had before the event. *The Company has not been downgraded*
19 *below a BBB-.*

20 • The Company agreed if Empire’s S&P Corporate Credit Rating declines, and/or
21 the credit rating of the Financing Affiliate declines, Empire shall file with the
22 Commission a comprehensive risk management plan that assures Empire’s
23 access to and cost of capital will not be further impaired. The plan shall include

1 a non-consolidation opinion if required by S&P. *The S&P Corporate Credit*
2 *Rating has not declined.*

- 3 • The Company agreed that Empire shall not seek an increase to the cost of capital
4 as a result of this Transaction or Empire's ongoing affiliation with Algonquin
5 Power & Utilities Corp. and its affiliates other than Empire after the
6 Transaction. Any net increase in the cost of capital Empire seeks shall be
7 supported by documentation that: (a) the increases are a result of factors not
8 associated with the Transaction or the post Transaction operations of Algonquin
9 Power & Utilities Corp. or its non-Empire affiliates; (b) the increases are not a
10 result of changes in business, market, economic or other conditions caused by
11 the Transaction or the post Transaction operations of Algonquin Power &
12 Utilities Corp. or its non-Empire affiliates; and (c) the increases are not a result
13 of changes in the risk profile of Empire caused by the Transaction or the post
14 Transaction operations of Algonquin Power & Utilities Corp. or its non-Empire
15 affiliates. The provisions of this section are intended to recognize the
16 Commission's authority to consider, in appropriate proceedings, whether this
17 Transaction or the post Transaction operations of Algonquin Power & Utilities
18 Corp. or its non-Empire affiliates has resulted in capital cost increases for
19 Empire. Nothing in this agreement shall restrict the Commission from
20 disallowing such capital cost increases from recovery in Empire's rates. *The*
21 *Company has not attempted to seek an increase to the cost of capital as a result*
22 *of the Transaction. Please refer to the testimony of Company witness Robert*
23 *Hevert.*

- 1 • The Company agreed if Empire’s per books capital structure is different from
2 that of the entity or entities in which Empire relies for its financing needs,
3 Empire shall be required to provide evidence in subsequent rate cases as to why
4 Empire’s per book capital structure is the most economical for purposes of
5 determining a fair and reasonable allowed rate of return for purposes of
6 determining Empire’s revenue requirement. *Please refer to the testimony of*
7 *Company witness Robert Hevert.*
- 8 • The Company agreed the Joint Applicants will not obtain Empire financing
9 services from an affiliate, unless such services comply with Missouri’s Affiliate
10 Transaction Rules. *Any financing provided to Empire from an affiliate has been*
11 *in compliance with Missouri’s Affiliate Transaction Rules.*
- 12 • The Company agreed to the extent the goodwill arising from the Transaction
13 which is assigned to LU Central becomes impaired and such impairment
14 negatively effects Empire’s cost of capital, all net costs associated with the
15 decline in Empire’s credit quality specifically attributed to the goodwill
16 impairment, considering all other capital cost effects of the Transaction and the
17 impairment, shall be excluded from the determination of its rates. *The goodwill*
18 *impairment analysis was completed on January 26, 2018.*
- 19 • The Company agreed for the first five years after closing of the Transaction, LU
20 Central shall provide Staff and OPC, its annual goodwill impairment analysis in
21 a format that includes spreadsheets in their original format with formulas and
22 links to other spreadsheets intact and any printed materials within 30 days after
23 it is performed. Thereafter, this analysis will be made available to Staff and OPC

1 upon request. *The Company filed the annual goodwill impairment analysis for*
2 *2017 on April 2, 2018 and for 2018 on May 7, 2019.*

3 **Q. HAS LIBERTY-EMPIRE COMPLIED WITH THE CONDITIONS SET**
4 **FORTH IN THE STIPULATIONS AND AGREEMENTS WITH THE STAFF**
5 **AND OPC REGARDING DEPRECIATION?**

6 A. Yes. Liberty-Empire has complied with the following conditions regarding
7 depreciation of electric assets:

- 8 • The Company agreed that for purposes of accruing depreciation expense,
9 Liberty-Empire shall use the ordered depreciation rates from File No. ER-2016-
10 0023 until they are changed in a subsequent rate proceeding. *The Company is*
11 *accruing depreciation expense at rates ordered in Docket ER-2016-0023.*
- 12 • Liberty-Empire agreed to continue to book all plant and depreciation reserve
13 records in compliance with the format set forth in Title 18: Conservation of
14 Power and Water Resources, Part 101—Uniform System Of Accounts
15 Prescribed For Public Utilities and Licensees Subject To The Provisions Of The
16 Federal Power Act (FERC USOA). *Liberty-Empire's plant and depreciation*
17 *reserve are recorded in the format set forth in Title 18: Conservation of Power*
18 *and Water Resources, Part 101—Uniform System Of Accounts Prescribed For*
19 *Public Utilities and Licensees Subject To The Provisions Of The Federal Power*
20 *Act (FERC USOA).*
- 21 • Liberty-Empire agreed to continue to prepare and maintain its books in
22 accordance with the FERC Uniform System of Accounts (USOA). *Liberty-*
23 *Empire continues to prepare and maintain its books in accordance with the*
24 *FERC Uniform System of Accounts (USOA).*

- 1 • The Company agreed to submit the following information in accordance with 4
2 CSR 240-3.175 - Submission Requirements for Electric Utility Depreciation
3 Studies. *While Liberty-Empire has not included a depreciation study as part of*
4 *this filing, once completed it will be submitted in accordance with 4 CSR 240-*
5 *3.175 - Submission Requirements for Electric Utility Depreciation Studies.*

6 **Q. HAS LIBERTY-EMPIRE COMPLIED WITH THE CONDITIONS SET**
7 **FORTH IN THE STIPULATIONS AND AGREEMENTS WITH THE STAFF**
8 **AND OPC REGARDING RATEMAKING AND ACCOUNTING**
9 **CONDITIONS?**

10 A. Yes. Liberty-Empire has met the following conditions relating to ratemaking:

- 11 • The Company agreed Goodwill associated with the premium over book value
12 of the assets paid for the shares of Empire stock (referred to for purposes of this
13 stipulation as “Acquisition Premium”) will be maintained on the books of LU
14 Central and the amount of any acquisition premium paid will not be recovered
15 in retail rates. Liberty-Empire agreed it would not seek direct or indirect
16 recovery or recognition of any acquisition premium through any purported
17 acquisition savings “sharing” adjustment (or similar adjustment) in future rate
18 cases. *The Acquisition Premium has been recorded on the books of LU Central*
19 *and Empire did not include for recovery any acquisition premium either directly*
20 *or indirectly in this case.*
- 21 • The Company agreed it would not seek either direct or indirect rate recovery or
22 recognition of any transaction costs through any purported acquisition savings
23 “sharing” adjustment (or similar adjustment) in any future rate cases. *Liberty-*

1 *Empire’s filing does not include any merger-related transactions costs to be*
2 *recovered by Missouri customers.*

- 3 • The Company agreed transition costs are those costs incurred to integrate
4 Empire under the ownership of LU Central and includes integration planning
5 and execution, and “costs to achieve.” Transition costs include capital and non-
6 capital costs. Non-capital transition costs can be ongoing costs or one- time
7 costs. Non-capital transition costs were allowed to be deferred on the books of
8 the Company to be considered for recovery in future rate cases. If the Company
9 seeks to recover these costs in subsequent rate recovery it will have the burden
10 of proving that the recoveries of any transition costs are just and reasonable and
11 the costs provide benefits to its customers. *Liberty-Empire is not seeking to*
12 *recover transition costs in this rate case.*

13 **Q. HAS LIBERTY-EMPIRE COMPLIED WITH THE CONDITIONS SET**
14 **FORTH IN THE STIPULATIONS AND AGREEMENTS WITH THE STAFF**
15 **AND OPC REGARDING AFFILIATE TRANSACTIONS?**

16 A. Yes. Liberty-Empire has met the following conditions:

- 17 • The parties agreed that the Company is to be operated after the purchase in
18 compliance with the affiliate transaction rule, or will obtain any necessary
19 variances from the MoPSC’s affiliate transaction rule as defined in 4 CSR 240-
20 20-015(10) and 4 CSR 240-40-015(10). *Empire is operating in compliance with*
21 *the affiliate transaction rule.*
- 22 • The parties agreed Algonquin Power & Utilities Corp. and its subsidiaries will
23 commit that all information related to an affiliate transaction consistent with 4
24 CSR 240-20.015(5)(A)(1)-(2) and 4 CSR 240-40.015(5)(A)(1)-(2) charged to

1 Liberty-Empire will be treated in the same manner as if that information is
2 under the control of Liberty-Empire. *The Company continues to treat*
3 *information related to affiliate transactions as if that information is under the*
4 *control of Liberty-Empire.*

- 5 • The parties agreed that Liberty-Empire will provide no preferential service,
6 information, or treatment to an affiliated entity over another party at any other
7 time, consistent with 4 CSR 240-20.015(2) and 4 CSR 240-40.015(2). *Liberty-*
8 *Empire continues to provide no preferential service, information, or treatment*
9 *to an affiliated entity over another party.*

10 **Q. HAS THE COMPANY COMPLIED WITH THE CONDITIONS REGARDING**
11 **ACCESS TO RECORDS?**

12 A. Yes. Liberty-Empire has complied with the following conditions:

- 13 • The Company agrees to provide Staff and OPC with access, upon reasonable
14 written notice during working hours and subject to appropriate confidentiality
15 and discovery procedures, to all written information provided to common stock,
16 bond or bond rating analysts which directly or indirectly pertains to Liberty-
17 Empire or any affiliate that exercises influence or control over Liberty-Empire
18 or has affiliate transactions with Liberty-Empire. *The Company will make*
19 *available any information related to common stock, bond, or bond rating*
20 *analysts which directly or indirectly pertains to Empire or any affiliate that*
21 *exercises influence or control over Empire or has affiliate transactions with*
22 *Empire.*
- 23 • Empire agrees to make available to Staff and OPC, upon written notice during
24 normal working hours and subject to appropriate confidentiality and discovery

1 procedures, all books, records and employees as may be reasonably required to
2 verify compliance with Liberty-Empire's cost allocation manual ("CAM").
3 Liberty-Empire also agreed to provide Staff and OPC any other such
4 information (including access to employees) relevant to the Commission's
5 ratemaking, financing, safety, quality of service and other regulatory authority
6 over Liberty-Empire. *The Company will make available all such relevant*
7 *records and related documents required to verify compliance.*

- 8 • The Company agrees to provide Staff and OPC access to and copies of, if
9 requested by Staff or OPC, the complete Liberty Utilities Co, LU Central and
10 Empire Board of Directors' meeting minutes, including all agendas and related
11 information distributed in advance of the meeting, presentations and handouts,
12 provided that privileged information shall continue to be subject to protection
13 from disclosure and Liberty-Empire shall continue to have the right to object to
14 the provision of such information on relevancy grounds. *Empire agrees to*
15 *provide access to and copies of the relevant, non-privileged documents.*

- 16 • The Company agrees to maintain records supporting its affiliated transactions
17 for at least five years. *Empire has and will continue to maintain records*
18 *supporting its affiliated transactions for at least five years.*

- 19 • The Joint Parties agreed that should it be deemed necessary for Staff employees
20 to travel to locations outside of the State of Missouri to examine any records
21 deemed relevant to the subject matter at hand Liberty-Empire shall bear all
22 reasonable expense incurred by the employees, provided, however, that before
23 any such expense shall be incurred by Staff, the Company shall be given
24 reasonable notice to produce the records requested for inspection and

1 examination at the office of the Commission at Jefferson City, Missouri or at
2 Empire's offices in Joplin, Missouri, or at such other point in Missouri, as may
3 be mutually agreed, in which case Liberty-Empire shall make available at that
4 place, at that time, a person(s) who is acquainted with the records. *Empire will*
5 *continue to comply with this agreement if it is deemed necessary for Staff*
6 *employees to travel to locations outside of the State of Missouri to examine any*
7 *records deemed relevant to the subject matter at hand.*

8 **Q. HAS EMPIRE COMPLIED WITH ADDITIONAL CONDITIONS**
9 **CONTAINED IN THE OPC STIPULATION?**

10 A. Yes. Liberty-Empire has complied with the following additional conditions:

- 11 • In ensuring that the transaction is rate-neutral, the Joint Parties commit that
12 there will be no establishment of regulatory assets as part of the merger, unless
13 approved by the Commission. *Liberty-Empire has not established a regulatory*
14 *asset as part of the merger.*
- 15 • The Company agrees that Liberty-Empire's parent company will indemnify
16 Liberty-Empire for any federal or local income tax liability in excess of Liberty-
17 Empire's standalone liability for any period in which Liberty-Empire is
18 included in a consolidated income tax filing. *Although it has been included in*
19 *consolidated income tax filings, Liberty-Empire has not incurred any federal*
20 *or local income tax liability in excess of its standalone liability as a result. If*
21 *this circumstance occurs, Liberty-Empire's parent company will indemnify*
22 *Liberty-Empire for any federal or local income tax liability in excess of Liberty-*
23 *Empire's standalone liability for any period in which Liberty-Empire is*
24 *included in a consolidated income tax filing.*

- 1 • The Company agreed to record on its books all deferred taxes related to income
2 tax deductions or credits created by Liberty-Empire's operations. *Liberty-*
3 *Empire has recorded on its books all deferred taxes related to income tax*
4 *deductions or credits created by Liberty-Empire's operations.*
- 5 • The Company agrees to not assume liability for the debts assumed by
6 Algonquin, Liberty Utilities, or any of their subsidiaries or affiliates. *Liberty-*
7 *Empire has not assumed liability for the debts issued by Algonquin, Liberty*
8 *Utilities or any other subsidiary or affiliate.*
- 9 • The Company agrees to maintain corporate officers who have a fiduciary duty
10 to Empire. *Liberty-Empire has maintained corporate officers which have a*
11 *fiduciary duty to the Company.*
- 12 • The Company agrees to maintain separate books and records, and make them
13 available for review by Staff and OPC. *Liberty-Empire continues to maintain*
14 *separate books and records, which are available for review.*
- 15 • The Company agrees it would not pay a dividend if its equity to total
16 capitalization ratio, based on a 12-month rolling average, falls below 40%, or if
17 payment of dividends would cause Liberty-Empire's equity to total
18 capitalization ratio to fall below that threshold. *Liberty-Empire's equity level*
19 *has not fallen below 40 percent.*
- 20 • The Company agrees to provide copies to Staff and OPC of the portions of any
21 external audit reports performed for Algonquin Power & Utilities Corp. and
22 Liberty Utilities Co.'s shared services pertaining directly or indirectly to
23 determinations of direct billings and cost allocations to Empire. *There have not*
24 *been any such determinations and therefore nothing has been provided.*

- 1 • The Company agrees to provide upon request a list of proceedings, if any, where
2 Liberty Utilities Co.'s cost allocation practices have been audited in any other
3 jurisdictions. Liberty-Empire will also make any such audit reports available to
4 the Commission, its Staff, and the OPC upon request. *There have not been any*
5 *such audits and therefore nothing has been provided.*
- 6 • The Company agreed to notify the Commission Staff and OPC within thirty
7 days anytime there is 1.) an addition or deletion of an affiliated entity that
8 provides services to, or receives services from, Liberty-Empire; 2.) an addition
9 or deletion of an unregulated service provided by Liberty-Empire ; or 3.) an
10 addition or deletion of a regulated service by Liberty-Empire for which a tariff
11 has not been approved. *These events have not occurred, so no such notifications*
12 *have been made.*
- 13 • The Company agrees to provide an independent attestation engagement of the
14 CAM related to non-regulated affiliates and activities if requested by Staff or
15 OPC. If approved by the Commission, the costs of any independent attestation
16 engagement related to the CAM shall be shared by the regulated and non-
17 regulated operations consistent with the allocation of similar costs. *There have*
18 *not been any such engagements and therefore nothing has been provided.*
- 19 • The Company agrees to not file a rate case until at least one full year of financial
20 and operational information was available following the close of the
21 Transaction on January 1, 2017. *Liberty-Empire did not file a rate case within*
22 *one year following the close of the merger.*

23 **Q. HAS EMPIRE COMPLIED WITH THE CONDITIONS IN THE AGREEMENT**
24 **WITH THE EMPIRE DISTRICT ELECTRIC SERP RETIREES?**

1 A. Yes. Empire has complied with the following conditions:

- 2 • The Company agrees to engage within one year after the Transaction closes, an
3 actuarial analysis with the intention of determining whether a SERP funded via
4 a Rabbi trust according to the SERP plan is less expensive to ratepayers than
5 benefits paid from Empire's general funds for the life of the plan (the "Study").
6 The current SERP recipients shall be included in the development of all
7 assumptions and allowed review and analysis of the Study. If the Study
8 concludes the annual costs and expenses of funds contributed by Empire using
9 a Rabbi trust (including contributions to the trust) to provide benefits are
10 essentially the same or less than the costs and expenses to ratepayers of
11 providing the alternate of SERP benefits from Empire's general funds, Empire
12 will discuss the results of the Study with Staff and OPC, and to the extent
13 neither party oppose the rate recovery of the Rabbi trust in place of the SERP
14 funded from general funds, Empire will fund a Rabbi trust according to the plan.
15 Any trust documents shall be subject to review by the SERP recipients' counsel.
16 *On June 13, 2017, the Company engaged Towers Watson to perform an*
17 *actuarial analysis with the intention of determining whether a Supplemental*
18 *Executive Retirement Plan ("SERP") funded via a Rabbi trust according to the*
19 *SERP plan is less expensive to customers than benefits paid from Empire's*
20 *general funds for the life of the plan. Liberty-Empire and the current SERP*
21 *recipients continue to work together to review the assumptions and the analysis*
22 *of the study. On November 28, 2018, and again on February 25, 2019, Liberty-*
23 *Empire met with Staff, OPC and the retirees. Prior to implementing any*

1 *changes in funding of the SERP or seeking recovery in rates, the Company will*
2 *discuss the proposed changes with Staff and OPC.*

3 **Q. HAS EMPIRE COMPLIED WITH THE CONDITIONS IN THE AGREEMENT**
4 **WITH THE MISSOURI DIVISION OF ENERGY (“DE”) AND RENEW**
5 **MISSOURI?**

6 A. Yes. Empire has complied with the following conditions:

- 7 • The Company agrees that within six (6) months following the completion of the
8 Transaction and the publication of best practices recommendations for microgrid
9 interconnection by the Missouri University of Science and Technology’s Microgrid
10 Industrial Consortium, Empire will meet with DE to consider a microgrid
11 interconnection strategy consistent with the best practices recommendations of the
12 Microgrid Industrial Consortium. *On June 29, 2017 following the completion of*
13 *the acquisition and the publication of best practices recommendations for*
14 *microgrid interconnection by the Missouri University of Science and Technology’s*
15 *Microgrid Industrial Consortium, the Company met with DE to consider a*
16 *microgrid interconnection strategy consistent with the best practices*
17 *recommendations of the Microgrid Industrial Consortium. The Company has*
18 *reviewed the viability of offering a community solar or solar subscription program*
19 *that provides its customers with the option of purchasing blocks of electricity*
20 *generated from solar installations constructed and/or owned by Empire within the*
21 *state of Missouri. On June 11, 2019 Liberty-Empire met with stakeholders to solicit*
22 *input and feedback on its proposal. The Company is in the process of finalizing*
23 *and submitting a formal proposal to the Commission.*

1 **XIV. CONCLUSION**

2 **Q. DOES THIS CONCLUDE YOUR CORRECTED DIRECT TESTIMONY?**

3 A. Yes.

AFFIDAVIT OF SHERI RICHARD

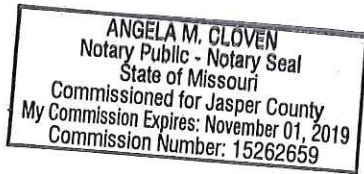
STATE OF MISSOURI)
) ss
COUNTY OF JASPER)

On the 22 day of August, 2019, before me appeared Sheri Richard, to me personally known, who, being by me first duly sworn, states that she the Director of Rates and Regulatory Affairs of The Empire District Electric Company – Liberty Utilities Central and acknowledges that she has read the above and foregoing document and believes that the statements therein are true and correct to the best of her information, knowledge and belief.



Sheri Richard

Subscribed and sworn to before me this 22 day of August, 2019.





Notary Public

My commission expires: 11/01/19.



The Empire District Electric Company

Missouri Jurisdiction

Docket No. ER-2019-0374

Schedule SDR-1 Revenue Requirement

Line No.	Description (a)	Reference (b)	3/31/2019 Test Year End (c)	Pro Forma Adjustments (d)	Adjusted Test Year End (e) = (c) + (d)
1	Rate Base	Schedules 2 & 3	1,301,068,347	156,292,122	1,457,360,469
2	Revenues	Schedules 4 & 5	538,554,855	(409,586)	538,145,269
3	Expenses	Schedules 4 & 5	395,553,192	50,492,361	446,045,553
4	Operating Income (Loss) Before Taxes	(Line 2 - Line 3)	143,001,663	(50,901,947)	92,099,716
5	Income Taxes	Schedule 4	9,911,046	(6,854,196)	3,056,850
6	Operating Income (Loss) After Taxes	(Line 4 - Line 5)	133,090,617	(44,047,751)	89,042,866
7	Current Rate of Return	(Line 6 / Line 1)	10.23%		6.11%
8	Rate of Return Requested	Schedule 6	7.50%	7.50%	7.50%
9	Required Net Operating Income	(Line 1 x Line 8)	97,522,879	11,715,032	109,237,911
10	Income Deficiency	(Line 9 - Line 6)	(35,567,738)	55,762,783	20,195,045
11	Gross Revenue Conversion factor	Schedule 7	1.313027	1.313027	1.313027
12	Revenue Deficiency	(Line 10 x Line 11)	(46,701,398)	73,218,036	26,516,638
13	Revenue Deficiency %	(Line 12 / Line 2)	-8.67%		4.93%
14	Revenue Requirement	(Line 2 + Line 12)	491,853,457	72,808,450	564,661,907



The Empire District Electric Company

Missouri Jurisdiction

Docket No. ER-2019-0374

Schedule SDR-2 Rate Base

Line No.	Description (a)	Reference (b)	3/31/2019 Test Year End (c)	Pro Forma Adjustments (d)	Adjusted Test Year End (e) = (c) + (d)
1	Plant in Service:				
2	Plant in Service	WP 2.1	2,450,631,524	176,143,000	2,626,774,524
3	Accumulated Depreciation/Amortization	WP 2.2	(871,165,685)	(56,177,574)	(927,343,259)
4	Net Plant in Service		1,579,465,839	119,965,426	1,699,431,265
5	Working Capital:				
6	Cash Working Capital	WP 2.10	-	(1,060,829)	(1,060,829)
7	Prepayments (13-Month Average)	WP 2.4	7,478,372	174,360	7,652,732
8	Materials, Supplies, and Fuel Inventories (13-Month Average)	WP 2.3	46,853,981	27,388	46,881,369
9	Additions and Deductions:				
10	Customer Deposits	WP 2.8	(13,427,551)	189,103	(13,238,448)
11	Customer Advances	WP 2.9	(4,103,516)	263,021	(3,840,495)
12	Regulatory Assets	WP 2.6	63,409,608	26,919,655	90,329,263
13	Regulatory Liabilities	WP 2.7	(153,525,684)	10,336,884	(143,188,799)
14	Accumulated Deferred Income Taxes	WP 2.5	(225,082,702)	(522,886)	(225,605,588)
15	Total Rate Base		1,301,068,347	156,292,122	1,457,360,469



The Empire District Electric Company

Missouri Jurisdiction

Docket No. ER-2019-0374

Schedule SDR-3 Rate Base Adjustments

Line No.	Description (a)	Reference (b)	3/31/2019 Test Year End (c)	Plant Additions RB ADJ 1 (d)	Common Plant RB ADJ 2 (e)
1	Plant in Service:				
2	Plant in Service	WP 2.1	2,450,631,524	180,144,089	(4,001,090)
3	Accumulated Depreciation/Amortization	WP 2.2	(871,165,685)	(1,379,466)	2,615,671
4	Net Plant in Service		1,579,465,839	178,764,623	(1,385,418)
5	Working Capital:				
6	Cash Working Capital	WP 2.10	-	-	-
7	Prepayments	WP 2.4	7,478,372	-	-
8	Materials, Supplies, and Fuel Inventories	WP 2.3	46,853,981	-	-
9	Additions and Deductions:				
10	Customer Deposits	WP 2.8	(13,427,551)	-	-
11	Customer Advances	WP 2.9	(4,103,516)	-	-
12	Regulatory Assets	WP 2.6	63,409,608	-	-
13	Regulatory Liabilities	WP 2.7	(153,525,684)	-	-
14	Accumulated Deferred Income Taxes	WP 2.5	(225,082,702)	-	-
15	Total		1,301,068,347	178,764,623	(1,385,418)



The Empire District Electric Company

Missouri Jurisdiction

Docket No. ER-2019-0374

Schedule SDR-3 Rate Base Adjustments

Line No.	Description (a)	Reference (b)	3/31/2019 Test Year End (c)	Water Inventory RB ADJ 3 (f)	Pension/OPEB RB ADJ 4 (g)	Low Income Pilot Program RB ADJ 5 (h)	EDR RB ADJ 6 (i)
1	Plant in Service:						
2	Plant in Service	WP 2.1	2,450,631,524	-	-	-	-
3	Accumulated Depreciation/Amortization	WP 2.2	(871,165,685)	-	-	-	-
4	Net Plant in Service		1,579,465,839	-	-	-	-
5	Working Capital:						
6	Cash Working Capital	WP 2.10	-	-	-	-	-
7	Prepayments	WP 2.4	7,478,372	-	-	-	-
8	Materials, Supplies, and Fuel Inventories	WP 2.3	46,853,981	(55,635)	-	-	-
9	Additions and Deductions:						
10	Customer Deposits	WP 2.8	(13,427,551)	-	-	-	-
11	Customer Advances	WP 2.9	(4,103,516)	-	-	-	-
12	Regulatory Assets	WP 2.6	63,409,608	-	10,790,815	246,851	301,947
13	Regulatory Liabilities	WP 2.7	(153,525,684)	-	(3,418,175)	-	-
14	Accumulated Deferred Income Taxes	WP 2.5	(225,082,702)	-	-	-	-
15	Total		1,301,068,347	(55,635)	7,372,640	246,851	301,947



The Empire District Electric Company

Missouri Jurisdiction

Docket No. ER-2019-0374

Schedule SDR-3 Rate Base Adjustments

Line No.	Description	Reference	3/31/2019 Test Year End	ADIT True-Up RB ADJ 7	A/D True-up RB ADJ 8	Regulatory Assets/Liabilities True-Up RB ADJ 9
	(a)	(b)	(c)	(j)	(k)	(l)
1	Plant in Service:					
2	Plant in Service	WP 2.1	2,450,631,524	\$ -	\$ -	\$ -
3	Accumulated Depreciation/Amortization	WP 2.2	(871,165,685)	-	(57,413,779)	-
4	Net Plant in Service		1,579,465,839	-	(57,413,779)	-
5	Working Capital:					
6	Cash Working Capital	WP 2.10	-	-	-	-
7	Prepayments	WP 2.4	7,478,372	-	-	-
8	Materials, Supplies, and Fuel Inventories	WP 2.3	46,853,981	-	-	-
9	Additions and Deductions:					
10	Customer Deposits	WP 2.8	(13,427,551)	-	-	-
11	Customer Advances	WP 2.9	(4,103,516)	-	-	-
12	Regulatory Assets	WP 2.6	63,409,608	-	-	5,362,107
13	Regulatory Liabilities	WP 2.7	(153,525,684)	-	-	13,755,059
14	Accumulated Deferred Income Taxes	WP 2.5	(225,082,702)	(522,886)	-	-
15	Total		1,301,068,347	\$ (522,886)	\$ (57,413,779)	\$ 19,117,166



The Empire District Electric Company

Missouri Jurisdiction

Docket No. ER-2019-0374

Schedule SDR-3 Rate Base Adjustments

Line No.	Description	Reference	3/31/2019 Test Year End	Asset Retirement Obligations RB ADJ 10	Prepayments & Materials RB ADJ 11	CWC RB ADJ 12
	(a)	(b)	(c)	(m)		
1	Plant in Service:					
2	Plant in Service	WP 2.1	2,450,631,524	\$ -	\$ -	\$ -
3	Accumulated Depreciation/Amortization	WP 2.2	(871,165,685)	-	-	-
4	Net Plant in Service		1,579,465,839	-	-	-
5	Working Capital:					
6	Cash Working Capital	WP 2.10	-	-	-	(1,060,829)
7	Prepayments	WP 2.4	7,478,372	-	174,360	-
8	Materials, Supplies, and Fuel Inventories	WP 2.3	46,853,981	-	83,023	-
9	Additions and Deductions:					
10	Customer Deposits	WP 2.8	(13,427,551)	-	-	-
11	Customer Advances	WP 2.9	(4,103,516)	-	-	-
12	Regulatory Assets	WP 2.6	63,409,608	10,217,935	-	-
13	Regulatory Liabilities	WP 2.7	(153,525,684)	-	-	-
14	Accumulated Deferred Income Taxes	WP 2.5	(225,082,702)	-	-	-
15	Total		1,301,068,347	\$ 10,217,935	\$ 257,383	\$ (1,060,829)



The Empire District Electric Company

Missouri Jurisdiction

Docket No. ER-2019-0374

Schedule SDR-3 Rate Base Adjustments

Line No.	Description (a)	Reference (b)	3/31/2019 Test Year End (c)	Customer Advances & Deposits RB ADJ 13	Total Pro Forma Adjustments (n) = (d) thru (m)	Adjusted Test Year End (o) = (c) + (n)
1	Plant in Service:					
2	Plant in Service	WP 2.1	2,450,631,524		176,143,000	2,626,774,524
3	Accumulated Depreciation/Amortization	WP 2.2	(871,165,685)		(56,177,574)	(927,343,259)
4	Net Plant in Service		1,579,465,839	-	119,965,426	1,699,431,265
5	Working Capital:					
6	Cash Working Capital	WP 2.10	-		(1,060,829)	(1,060,829)
7	Prepayments	WP 2.4	7,478,372		174,360	7,652,732
8	Materials, Supplies, and Fuel Inventories	WP 2.3	46,853,981		27,388	46,881,369
					-	-
9	Additions and Deductions:					
10	Customer Deposits	WP 2.8	(13,427,551)	189,103	189,103	(13,238,448)
11	Customer Advances	WP 2.9	(4,103,516)	263,021	263,021	(3,840,495)
12	Regulatory Assets	WP 2.6	63,409,608		26,919,655	90,329,263
13	Regulatory Liabilities	WP 2.7	(153,525,684)		10,336,884	(143,188,799)
14	Accumulated Deferred Income Taxes	WP 2.5	(225,082,702)		(522,886)	(225,605,588)
15	Total		1,301,068,347	\$ 452,124	156,292,122	1,457,360,469



The Empire District Electric Company
 Missouri Jurisdiction
 Docket No. ER-2019-0374
 Schedule 4 Operating Income

Line No.	Description (a)	Reference (b)	3/31/2019 Test Year End (c)	Pro Forma Adjustments (d)	Adjusted Test Year End Current Rates (e) = (c) + (d)	Rate Increase Requested (f)	Adjusted Test Year End Proposed Rates (g) = (e) + (f)
REVENUES							
1	Residential	Schedule 5	\$ 247,334,429	(24,815,988)	\$ 222,518,442		
2	Commercial	Schedule 5	171,333,658	(11,503,458)	159,830,200		
3	Industrial	Schedule 5	81,413,350	(1,841,705)	79,571,645		
4	Public Street & Hwy Lighting	Schedule 5	3,864,366	(24,987)	3,839,379		
5	Other Public Authorities	Schedule 5	10,991,502	(382,921)	10,608,582		
6	Resale - Municipalities	Schedule 5	-	-	-		
7	Interdepartmental	Schedule 5	329,179	(11,072)	318,107		
8	Other Revenues	Schedule 5	(1,500,536)	30,795	(1,469,741)		
9	Total On-System Revenues:		<u>513,765,949</u>	<u>(38,549,335)</u>	<u>475,216,614</u>		
10	Resale - SPP Integrated Market	Schedule 5	24,788,906	38,139,748	62,928,655		
11	Total Electric Operating Revenues		<u>\$ 538,554,855</u>	<u>(409,586)</u>	<u>\$ 538,145,269</u>	<u>\$ 26,516,638</u>	<u>\$ 564,661,907</u>
OPERATION AND MAINTENANCE EXPENSES							
12	Production Expenses	Schedule 5	185,955,973	32,746,343	218,702,316	-	218,702,316
13	Transmission Expenses	Schedule 5	22,316,120	(1,489,781)	20,826,339	-	20,826,339
14	Distribution Expenses	Schedule 5	22,641,086	483,082	23,124,168	-	23,124,168
15	Customer Accounts Expenses	Schedule 5	8,414,222	1,559,052	9,973,274	-	9,973,274
16	Customer Assistance Expenses	Schedule 5	4,253,278	1,774,556	6,027,833	-	6,027,833
17	Sales Expenses	Schedule 5	141,448	5,425	146,873	-	146,873
18	Administrative and General Expenses	Schedule 5	866,381	217,736	1,084,117	-	1,084,117
19	Other Administrative and General Expenses	Schedule 5	47,859,335	7,216,361	55,075,697	-	55,075,697
20	Depreciation Expense	Schedule 5	68,165,979	7,875,008	76,040,987	-	76,040,987
21	Amortization Expense	Schedule 5	3,598,034	2,659,413	6,257,447	-	6,257,447
22	Taxes other than Income Taxes	Schedule 5	31,341,337	(3,418,516)	27,922,821	-	27,922,821
23	Interest on Customer Deposits		-	863,681	863,681	-	863,681
24	Total Operation and Maintenance Expenses		<u>\$ 395,553,192</u>	<u>50,492,361</u>	<u>\$ 446,045,553</u>	<u>\$ -</u>	<u>\$ 446,045,553</u>
	Operating Income/(Loss) Before Taxes		<u>\$ 143,001,663</u>	<u>\$ (50,901,947)</u>	<u>\$ 92,099,716</u>	<u>\$ 26,516,638</u>	<u>\$ 118,616,354</u>
	Income Taxes		<u>9,911,046</u>	<u>(6,854,196)</u>	<u>3,056,850</u>	<u>6,321,601</u>	<u>9,378,451</u>
	Operating Income/(Loss) After Taxes		<u>\$ 133,090,617</u>	<u>\$ (44,047,751)</u>	<u>\$ 89,042,866</u>	<u>\$ 20,195,038</u>	<u>\$ 109,237,904</u>

SCHEDULE SDR-5



The Empire District Electric Company
 Missouri Jurisdiction
 Docket No. ER-2019-0374
 Schedule SDR-5 Operating Income Adjustment Summary

Line No.	Description (a)	Reference (b)	3/31/2019 Test Year End (c)	FAC Revenues WP 4.1 (d)	Uncollectible Expense WP IS ADJ 1 (e)	Acquisition Costs WP IS ADJ 2 (f)	Open Positions WP IS ADJ 3 (g)	Overtime WP IS ADJ 4 (h)	Payroll WP IS ADJ 5 (i)	Medical, Dental, Vision WP IS ADJ 6 (j)
REVENUES										
1	Residential	WP 4.1	\$ 247,334,429	(6,673,969)						
2	Commercial	WP 4.1	171,333,658	(6,101,463)						
3	Industrial	WP 4.1	81,413,350	(3,794,537)						
4	Public Street & Hwy Lighting	WP 4.1	3,864,366	(79,718)						
5	Other Public Authorities	WP 4.1	10,991,502	(386,449)						
6	Resale - Municipalities	WP 4.1	-							
7	Interdepartmental	WP 4.1	329,179	(11,072)						
8	Other Revenues	WP 4.1	(1,500,536)							
9	Total On-System Revenues		<u>513,765,949</u>	<u>(17,047,207)</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
10	Resale - SPP Integrated Market	WP 4.1	24,788,906							
11	Total Electric Operating Revenues		<u>\$ 538,554,855</u>	<u>(17,047,207)</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
OPERATION AND MAINTENANCE EXPENSES										
12	Production Expenses	WP 4.2	185,955,973				373,895	163,968	206,165	
13	Transmission Expenses	WP 4.2	22,316,120				59,418	26,112	32,832	
14	Distribution Expenses	WP 4.2	22,641,086				236,741	109,128	137,213	
15	Customer Accounts Expenses	WP 4.2	8,414,222		34,183		133,828	62,383	78,437	
16	Customer Assistance Expenses	WP 4.2	4,253,278				44,090	19,408	24,403	
17	Sales Expenses	WP 4.2	141,448				2,624	1,241	1,560	
18	Administrative and General Expenses	WP 4.2	866,381							
19	Other Administrative and General Expenses	WP 4.2	47,859,335			(102,449)	482,524	66,585	97,872	(264,101)
20	Depreciation Expense	WP 4.3	68,165,979							
21	Amortization Expense	WP 4.4	3,598,034							
22	Taxes other than Income Taxes	WP 4.5	31,341,337				76,460	49,917	43,171	
23	Interest on Customer Deposits		-							
24	Total Operation and Maintenance Expenses		<u>\$ 395,553,192</u>		<u>\$ 34,183</u>	<u>\$ (102,449)</u>	<u>\$ 1,409,581</u>	<u>\$ 498,742</u>	<u>\$ 621,653</u>	<u>\$ (264,101)</u>
25	Operating Income/(Loss) Before Taxes		<u>\$ 143,001,663</u>	<u>\$ (17,047,207)</u>	<u>\$ (34,183)</u>	<u>\$ 102,449</u>	<u>\$ (1,409,581)</u>	<u>\$ (498,742)</u>	<u>\$ (621,653)</u>	<u>\$ 264,101</u>
26	Income Taxes		9,911,046							
27	Operating Income/(Loss) After Taxes		<u>\$ 133,090,617</u>	<u>\$ (17,047,207)</u>	<u>\$ (34,183)</u>	<u>\$ 102,449</u>	<u>\$ (1,409,581)</u>	<u>\$ (498,742)</u>	<u>\$ (621,653)</u>	<u>\$ 264,101</u>

SCHEDULE SDR-5



The Empire District Electric Company
 Missouri Jurisdiction
 Docket No. ER-2019-0374
 Schedule SDR-5 Operating Income Adjustment Summary

Line No.	Description (a)	Reference (b)	3/31/2019 Test Year End (c)	Annualize Depreciation Expense WP IS ADJ 7 (k)	Normalize Maintenance of Boiler Plant WP IS ADJ 8 (l)	Customer Load Growth WP IS ADJ 9 (m)	EDR Revenues WP IS ADJ 10 (n)	Pension and OPEB WP IS ADJ 11 (o)	Fuel & Purchased Power WP IS ADJ 12 (p)
REVENUES									
1	Residential	WP 4.1	\$ 247,334,429						
2	Commercial	WP 4.1	171,333,658						
3	Industrial	WP 4.1	81,413,350			1,109,211	462,805		
4	Public Street & Hwy Lighting	WP 4.1	3,864,366						
5	Other Public Authorities	WP 4.1	10,991,502						
6	Resale - Municipalities	WP 4.1	-						
7	Interdepartmental	WP 4.1	329,179						
8	Other Revenues	WP 4.1	(1,500,536)						30,795
9	Total On-System Revenues		513,765,949	-	-	1,109,211	462,805	-	30,795
10	Resale - SPP Integrated Market	WP 4.1	24,788,906						\$ 38,139,748
11	Total Electric Operating Revenues		\$ 538,554,855	\$ -	\$ -	\$ 1,109,211	\$ 462,805	\$ -	\$ 38,170,543
OPERATION AND MAINTENANCE EXPENSES									
12	Production Expenses	WP 4.2	185,955,973		410,030				23,818,181
13	Transmission Expenses	WP 4.2	22,316,120						(1,608,142)
14	Distribution Expenses	WP 4.2	22,641,086						
15	Customer Accounts Expenses	WP 4.2	8,414,222						
16	Customer Assistance Expenses	WP 4.2	4,253,278						
17	Sales Expenses	WP 4.2	141,448						
18	Administrative and General Expenses	WP 4.2	866,381						
19	Other Administrative and General Expenses	WP 4.2	47,859,335					6,073,947	
20	Depreciation Expense	WP 4.3	68,165,979	7,875,008					
21	Amortization Expense	WP 4.4	3,598,034	40,087					
22	Taxes other than Income Taxes	WP 4.5	31,341,337						
23	Interest on Customer Deposits		-						
24	Total Operation and Maintenance Expenses		\$ 395,553,192	\$ 7,915,095	\$ 410,030	\$ -	\$ -	\$ 6,073,947	\$ 22,210,039
25	Operating Income/(Loss) Before Taxes		\$ 143,001,663	\$ (7,915,095)	\$ (410,030)	\$ 1,109,211	\$ 462,805	\$ (6,073,947)	\$ 15,960,504
26	Income Taxes		9,911,046						
27	Operating Income/(Loss) After Taxes		\$ 133,090,617	\$ (7,915,095)	\$ (410,030)	\$ 1,109,211	\$ 462,805	\$ (6,073,947)	\$ 15,960,504

SCHEDULE SDR-5



The Empire District Electric Company
 Missouri Jurisdiction
 Docket No. ER-2019-0374
 Schedule SDR-5 Operating Income Adjustment Summary

Line No.	Description	Reference	3/31/2019 Test Year End	Interest on Customer Deposits WP IS ADJ 13	Customer Annualization WP IS ADJ 14	Weather Normalized Revenue WP IS ADJ 15	Insurance Premiums WP IS ADJ 16	Non-Deductible WP IS ADJ 17	Property Tax WP IS ADJ 18	Low Income Pilot Amortization WP IS ADJ 19
	(a)	(b)	(c)	(q)	(r)	(s)	(t)	(u)	(v)	(w)
REVENUES										
1	Residential	WP 4.1	\$ 247,334,429		\$ 1,229,663	\$ (13,576,167)				
2	Commercial	WP 4.1	171,333,658		860,116	(4,806,135)				
3	Industrial	WP 4.1	81,413,350		-	-				
4	Public Street & Hwy Lighting	WP 4.1	3,864,366							
5	Other Public Authorities	WP 4.1	10,991,502							
6	Resale - Municipalities	WP 4.1	-							
7	Interdepartmental	WP 4.1	329,179							
8	Other Revenues	WP 4.1	(1,500,536)							
9	Total On-System Revenues		513,765,949	-	2,089,780	(18,382,302)	-	-	-	-
10	Resale - SPP Integrated Market	WP 4.1	24,788,906							
11	Total Electric Operating Revenues		\$ 538,554,855	\$ -	\$ 2,089,780	\$ (18,382,302)	\$ -	\$ -	\$ -	\$ -
OPERATION AND MAINTENANCE EXPENSES										
12	Production Expenses	WP 4.2	185,955,973							
13	Transmission Expenses	WP 4.2	22,316,120							
14	Distribution Expenses	WP 4.2	22,641,086							
15	Customer Accounts Expenses	WP 4.2	8,414,222							
16	Customer Assistance Expenses	WP 4.2	4,253,278							49,370
17	Sales Expenses	WP 4.2	141,448							
18	Administrative and General Expenses	WP 4.2	866,381							
19	Other Administrative and General Expenses	WP 4.2	47,859,335				877,216	(15,233)		
20	Depreciation Expense	WP 4.3	68,165,979							
21	Amortization Expense	WP 4.4	3,598,034							
22	Taxes other than Income Taxes	WP 4.5	31,341,337						6,335,625	
23	Interest on Customer Deposits		-	\$ 863,681						
24	Total Operation and Maintenance Expenses		\$ 395,553,192	\$ 863,681	\$ -	\$ -	\$ 877,216	\$ (15,233)	\$ 6,335,625	\$ 49,370
25	Operating Income/(Loss) Before Taxes		\$ 143,001,663	\$ (863,681)	\$ 2,089,780	\$ (18,382,302)	\$ (877,216)	\$ 15,233	\$ (6,335,625)	\$ (49,370)
26	Income Taxes		9,911,046							
27	Operating Income/(Loss) After Taxes		\$ 133,090,617	\$ (863,681)	\$ 2,089,780	\$ (18,382,302)	\$ (877,216)	\$ 15,233	\$ (6,335,625)	\$ (49,370)

SCHEDULE SDR-5



The Empire District Electric Company
 Missouri Jurisdiction
 Docket No. ER-2019-0374
 Schedule SDR-5 Operating Income Adjustment Summary

Line No.	Description	Reference	3/31/2019 Test Year End	MO Solar Initiative Amortization Expense WP IS ADJ 20	MO ITC Revenues WP IS ADJ 21	Rate Case Expense WP IS ADJ 22	SBEDR Amortization WP IS ADJ 23	Unprotected Excess ADIT WP IS ADJ 24	MEEIA Amortization WP IS ADJ 25	Reg. Asset Amortization WP IS ADJ 26
	(a)	(b)	(c)	(x)	(y)	(z)	(aa)	(ab)	(ac)	(ad)
REVENUES										
1	Residential	WP 4.1	\$ 247,334,429		\$ 62,897					
2	Commercial	WP 4.1	171,333,658		57,811					
3	Industrial	WP 4.1	81,413,350		35,148					
4	Public Street & Hwy Lighting	WP 4.1	3,864,366		835					
5	Other Public Authorities	WP 4.1	10,991,502		3,528					
6	Resale - Municipalities	WP 4.1	-							
7	Interdepartmental	WP 4.1	329,179							
8	Other Revenues	WP 4.1	(1,500,536)							
9	Total On-System Revenues		513,765,949	-	160,218	-	-	-	-	-
10	Resale - SPP Integrated Market	WP 4.1	24,788,906							
11	Total Electric Operating Revenues		\$ 538,554,855	\$ -	\$ 160,218	\$ -	\$ -	\$ -		\$ -
OPERATION AND MAINTENANCE EXPENSES										
12	Production Expenses	WP 4.2	185,955,973							2,933,728
13	Transmission Expenses	WP 4.2	22,316,120							
14	Distribution Expenses	WP 4.2	22,641,086							
15	Customer Accounts Expenses	WP 4.2	8,414,222							
16	Customer Assistance Expenses	WP 4.2	4,253,278	1,401,804						
17	Sales Expenses	WP 4.2	141,448				60,389		68,106	
18	Administrative and General Expenses	WP 4.2	866,381			217,736	-			
19	Other Administrative and General Expenses	WP 4.2	47,859,335							
20	Depreciation Expense	WP 4.3	68,165,979							
21	Amortization Expense	WP 4.4	3,598,034							
22	Taxes other than Income Taxes	WP 4.5	31,341,337							
23	Interest on Customer Deposits		-							
24	Total Operation and Maintenance Expenses		\$ 395,553,192	\$ 1,401,804	\$ -	\$ 217,736	\$ 60,389	\$ -	\$ 68,106	\$ 2,933,728
25	Operating Income/(Loss) Before Taxes		\$ 143,001,663	\$ (1,401,804)	\$ 160,218	\$ (217,736)	\$ (60,389)	\$ -	\$ (68,106)	\$ (2,933,728)
26	Income Taxes		9,911,046					(8,540,550)		
27	Operating Income/(Loss) After Taxes		\$ 133,090,617	\$ (1,401,804)	\$ 160,218	\$ (217,736)	\$ (60,389)	\$ 8,540,550	\$ (68,106)	\$ (2,933,728)

SCHEDULE SDR-5



The Empire District Electric Company
 Missouri Jurisdiction
 Docket No. ER-2019-0374
 Schedule SDR-5 Operating Income Adjustment Summary

Line No.	Description	Reference	3/31/2019 Test Year End	O&M Trackers Amortization WP IS ADJ 27	Protected Excess ADIT WP IS ADJ 28	Plum Point Contract WP IS ADJ 29	Credit Card Fees WP IS ADJ 30	Franchise Fees WP IS ADJ 31	Franchise Taxes WP IS ADJ 32	Unbilled Revenue WP IS ADJ 33
	(a)	(b)	(c)	(ae)	(af)	(ag)	(ah)	(ai)	(aj)	(ak)
REVENUES										
1	Residential	WP 4.1	\$ 247,334,429					(6,942,826)		(1,116,929)
2	Commercial	WP 4.1	171,333,658					(2,792,987)		39,196
3	Industrial	WP 4.1	81,413,350					(187,537)		42,803
4	Public Street & Hwy Lighting	WP 4.1	3,864,366							-
5	Other Public Authorities	WP 4.1	10,991,502							-
6	Resale - Municipalities	WP 4.1	-							-
7	Interdepartmental	WP 4.1	329,179							-
8	Other Revenues	WP 4.1	(1,500,536)							-
9	Total On-System Revenues		<u>513,765,949</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>(9,923,350)</u>	<u>-</u>	<u>(1,034,930)</u>
10	Resale - SPP Integrated Market	WP 4.1	24,788,906							
11	Total Electric Operating Revenues		<u>\$ 538,554,855</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ (9,923,350)</u>	<u>\$ -</u>	<u>\$ (1,034,930)</u>
OPERATION AND MAINTENANCE EXPENSES										
12	Production Expenses	WP 4.2	185,955,973	(224,322)		266,228				
13	Transmission Expenses	WP 4.2	22,316,120							
14	Distribution Expenses	WP 4.2	22,641,086							
15	Customer Accounts Expenses	WP 4.2	8,414,222				1,250,222			
16	Customer Assistance Expenses	WP 4.2	4,253,278	106,985		-				
17	Sales Expenses	WP 4.2	141,448							
18	Administrative and General Expenses	WP 4.2	866,381							
19	Other Administrative and General Expenses	WP 4.2	47,859,335							
20	Depreciation Expense	WP 4.3	68,165,979							
21	Amortization Expense	WP 4.4	3,598,034							
22	Taxes other than Income Taxes	WP 4.5	31,341,337						(9,923,690)	
23	Interest on Customer Deposits		-							
24	Total Operation and Maintenance Expenses		<u>\$ 395,553,192</u>	<u>\$ (117,337)</u>	<u>\$ -</u>	<u>\$ 266,228</u>	<u>\$ 1,250,222</u>	<u>\$ -</u>	<u>\$ (9,923,690)</u>	<u>\$ -</u>
25	Operating Income/(Loss) Before Taxes		<u>\$ 143,001,663</u>	<u>\$ 117,337</u>	<u>\$ -</u>	<u>\$ (266,228)</u>	<u>\$ (1,250,222)</u>	<u>\$ (9,923,350)</u>	<u>\$ 9,923,690</u>	<u>\$ (1,034,930)</u>
26	Income Taxes		9,911,046		(2,263,671)					
27	Operating Income/(Loss) After Taxes		<u>\$ 133,090,617</u>	<u>\$ 117,337</u>	<u>\$ 2,263,671</u>	<u>\$ (266,228)</u>	<u>\$ (1,250,222)</u>	<u>\$ (9,923,350)</u>	<u>\$ 9,923,690</u>	<u>\$ (1,034,930)</u>

SCHEDULE SDR-5



The Empire District Electric Company
 Missouri Jurisdiction
 Docket No. ER-2019-0374
 Schedule SDR-5 Operating Income Adjustment Summary

Line No.	Description	Reference	3/31/2019 Test Year End	Tax Rate Change Jan-Mar WP IS ADJ 34	Asset Retirement Obligations WP IS ADJ 35	Riverton O&M Adjustment WP IS ADJ 36	Income Tax Adjustment WP IS ADJ 37	Total Missouri Pro Forma Adjustments (ap) = (d) thru (ao)	Adjusted Test Year End (aq) = (c) + (ap)
	(a)	(b)	(c)	(al)	(am)	(an)	(ao)		
REVENUES									
1	Residential	WP 4.1	\$ 247,334,429	2,201,343				(24,815,988)	\$ 222,518,442
2	Commercial	WP 4.1	171,333,658	1,240,004				(11,503,458)	\$ 159,830,200
3	Industrial	WP 4.1	81,413,350	490,402				(1,841,705)	\$ 79,571,645
4	Public Street & Hwy Lighting	WP 4.1	3,864,366	53,896				(24,987)	\$ 3,839,379
5	Other Public Authorities	WP 4.1	10,991,502					(382,921)	\$ 10,608,582
6	Resale - Municipalities	WP 4.1	-					-	\$ -
7	Interdepartmental	WP 4.1	329,179					(11,072)	\$ 318,107
8	Other Revenues	WP 4.1	(1,500,536)					30,795	\$ (1,469,741)
9	Total On-System Revenues		513,765,949	3,985,645				(38,549,335)	475,216,614
10	Resale - SPP Integrated Market	WP 4.1	24,788,906					\$ 38,139,748	\$ 62,928,655
11	Total Electric Operating Revenues		\$ 538,554,855	\$ 3,985,645	\$ -	\$ -	\$ -	\$ (409,586)	\$ 538,145,269
OPERATION AND MAINTENANCE EXPENSES									
12	Production Expenses	WP 4.2	185,955,973			4,798,471		32,746,343	\$ 218,702,316
13	Transmission Expenses	WP 4.2	22,316,120					(1,489,781)	\$ 20,826,339
14	Distribution Expenses	WP 4.2	22,641,086					483,082	\$ 23,124,168
15	Customer Accounts Expenses	WP 4.2	8,414,222					1,559,052	\$ 9,973,274
16	Customer Assistance Expenses	WP 4.2	4,253,278					1,774,556	\$ 6,027,833
17	Sales Expenses	WP 4.2	141,448					5,425	\$ 146,873
18	Administrative and General Expenses	WP 4.2	866,381					217,736	\$ 1,084,117
19	Other Administrative and General Expenses	WP 4.2	47,859,335					7,216,361	\$ 55,075,697
20	Depreciation Expense	WP 4.3	68,165,979					7,875,008	\$ 76,040,987
21	Amortization Expense	WP 4.4	3,598,034		2,619,326			2,659,413	\$ 6,257,447
22	Taxes other than Income Taxes	WP 4.5	31,341,337					(3,418,516)	\$ 27,922,821
23	Interest on Customer Deposits		-					863,681	\$ 863,681
24	Total Operation and Maintenance Expenses		\$ 395,553,192	\$ -	\$ 2,619,326	\$ 4,798,471	\$ -	\$ 50,492,361	\$ 446,045,553
25	Operating Income/(Loss) Before Taxes		\$ 143,001,663	\$ 3,985,645	\$ (2,619,326)	\$ (4,798,471)	\$ -	\$ (50,901,947)	\$ 92,099,716
26	Income Taxes		9,911,046				3,950,024	\$ (6,854,196)	\$ 3,056,850
27	Operating Income/(Loss) After Taxes		\$ 133,090,617	\$ 3,985,645	\$ (2,619,326)	\$ (4,798,471)	\$ (3,950,024)	\$ (44,047,751)	\$ 89,042,866



The Empire District Electric Company

Missouri Jurisdiction

Docket No. ER-2019-0374

Schedule SDR-6 Weighted Average Cost of Capital

Line No.	Description (a)	Capital Per Books 3/31/2019 (b)	Pro Forma Adjustments (c)	Adjusted Capital 3/31/2019 (d) = (b) + (c)	Capital Ratio (e)	Cost Rate (f)	Rate of Return (g) = (e) x (f)
1	Long Term Debt	\$ 780,000,000	\$ -	\$ 780,000,000	48.09%	4.85%	2.33%
2	Trust Preferred Stock	-	-	-	0.00%	0.00%	0.00%
3	Common Equity	842,107,842	-	842,107,842	51.91%	9.95%	5.17%
4	Total Capital	<u>\$ 1,622,107,842</u>	<u>\$ -</u>	<u>\$ 1,622,107,842</u>	<u>100.00%</u>		<u>7.50%</u>



The Empire District Electric Company
 Missouri Jurisdiction
 Docket No. ER-2019-0374
 Schedule SDR-7 Gross Revenue Conversion Factor

Line No.	Description (a)	Reference (b)	Rate (c)	Factor (d)
1	Effective State Income Tax	WP 7.1	3.60%	3.60%
2	Federal Taxable Income	1 - Line 1		96.40%
3	Effective Federal Income Tax	WP 7.1	20.25%	20.25%
4	Operating Income	Line 2 - Line 3		76.16%
5	Gross Revenue Conversion Factor	1 / Line 4		1.3130



The Empire District Electric Company
 Missouri Jurisdiction
 Docket No. ER-2019-0374
 Schedule SDR-8 Income Tax Calculation

Line No.	Description (a)	Reference (b)	Adjusted Federal (c)	Adjusted State (d)	Total Taxes (e) = (c) + (d)
1	Net Operating Income/(Loss) Before Tax		\$ 92,099,716	\$ 92,099,716	
2	Effective Tax Rates		20.25%	3.60%	
3	Tax - Subtotal	Line 1 x Line 2	18,645,614	3,311,076	
4	Interest Synchronization - Tax Impact	WP 8.1	(6,874,798)	(1,220,822)	
5	Taxes - Total	Line 3 + Line 4	\$ 11,770,816	\$ 2,090,254	\$ 13,861,070
6	Deferred Taxes	Schedule 2	225,605,588	-	225,605,588
7	Current Taxes	Line 5 - Line 6	(213,834,772)	2,090,254	(211,744,518)
8	Taxes - Total	Line 7 + Line 6	\$ 11,770,816	\$ 2,090,254	13,861,070
9	Excess ADIT Amortization	Schedule 5	\$ (10,804,220)	\$ -	(10,804,220)
10	Adjusted Taxes - Total		\$ 966,596	\$ 2,090,254	3,056,850

MINIMUM FILING REQUIREMENTS

The Empire District Electric Company

ER-2019-0374

**The Empire District Electric Company
ER-2019-0374**

Statement of Missouri Revenue Increase Request

The amount of annual revenue, from Missouri electric customers, which would result from the application of the proposed rates in this case, would be \$26,516,638 more than the annual revenue under existing rates. This would represent an overall increase of 4.93% for Missouri jurisdictional revenues.

4 CSR-240-3.030 (3)(B)(1)

Explanation of Why Rate Relief is Needed

In accordance with RSMo. 386.266.4(3), the Company is required to file a general rate case with the effective date of new rates to be no later than four years after the effective date of the Commission's order for the continuation of the Company's Fuel Adjustment Clause. The last order for the FAC continuance was effective September 9th, 2016 so new general rates need to be effective no later than September 9th, 2020.

To recover the capital improvements the Company has made since the last rate case. As a result of the increased additional capital investments, the Company has also seen increased costs for property taxes and depreciation expense, as well as, normal and inflationary increases to operating costs. There has also been a significant increase in the Riverton Unit 12's Long Term Service Agreement "LTSA" costs.

4 CSR-240-3.030 (3)(B)(7)

Missouri Counties and Communities Affected

Barry County	Greene County (cont.)	Lawrence County (cont.)	Newton County (cont.)
Butterfield	Willard	Hoberg	Stella
Purdy		Marionville	Wentworth
	Hickory County	Miller	
Barton County	Cross Timbers	Phelps *	Polk County
Golden City	Hermitage	Pierce City	Aldrich
Kenoma *	Preston	Stotts City	Bolivar
	Weaubleau	Verona	Brighton*
Cedar County	Wheatland		Dunnegan*
Caplinger Mills *		McDonald County	Fair Play
Stockton	Jasper County	Anderson	Flemington
	Airport Drive	Ginger Blue	Halfway
Christian County	Alba	Goodman	Humansville
Billings	Asbury	Lanagan	Morrisville
Clever	Avilla	Noel	Pleasant Hope
Fremont Hills	Brooklyn Heights	Pineville	
Nixa	Carl Junction	Southwest City	St Clair County
Ozark	Carterville		Collins
Sparta	Carthage	Newton County	Gerster
	Carytown	Cliff Village	Vista
Dade County	Duneweg	Dennis Acres	
Arcola	Duquesne	Diamond	Stone County
Everton	Fidelity	Fairview	Branson West
Greenfield	Jasper	Fort Crowder *	Galena
South Greenfield	Joplin	Granby	Hurley
	LaRussell	Grand Falls Plaza	Reeds Spring
Dallas County	Neck City	Leawood	
Buffalo	Oronogo	Loma Linda	Taney County
Louisburg	Purcell	Neosho	Branson
Urbana	Reeds	Newtonia	Bull Creek
	Sarcoxie	Redings Mill	Forsyth
Greene County	Waco	Ritchey	Forsyth Sub*
Ash Grove	Webb City	Saginaw	Hollister
Bois D'Arc *		Seneca	Kirbyville
Fair Grove	Lawrence County	Shoal Creek Drive	Mount Branson*
Republic	Aurora	Shoal Creek Estates	Powersite *
Strafford	Freistatt	Silver Creek	
Walnut Grove	Halltown	Stark City	

* Not Incorporated

4 CSR-240-3.030 (3)(B)(2)

Schedule 3, Page 1 of 1
 4 CSR 240-3.030(3)(B)(3)(4)(5)

Class	Average Customer Count	[1] Average Annual Customer Impact		Aggregate Annual Change	[1] Aggregate Annual % Change
		Average Annual Bill Change \$	Average Annual Bill Change %		
RG-Residential	130,887	\$ 96.24	5.8%	\$ 12,596,881	5.8%
CB-Commercial	18,072	\$ 125.82	5.2%	\$ 2,273,755	5.2%
SH-Small Heating	3,028	\$ 164.22	5.0%	\$ 497,260	5.0%
GP-General Power	1,793	\$ 1,476.02	3.1%	\$ 2,646,498	3.1%
SC-P PRAXAIR Transmission	1	\$ 212,414.31	5.1%	\$ 212,414	5.1%
TEB-Total Electric Bldg	946	\$ 1,172.45	3.0%	\$ 1,109,335	3.0%
PFM-Feed Mill/Grain Elev	10	\$ 115.67	1.6%	\$ 1,157	1.6%
LP-Large Power	40	\$ 81,320.65	5.2%	\$ 3,246,049	5.2%
MS-Miscellaneous	3	\$ 282.94	5.8%	\$ 849	5.8%
SPL-Municipal St Lighting	7	\$ 29,358.47	9.4%	\$ 205,509	9.4%
PL-Private Lighting	252	\$ 553.88	3.4%	\$ 139,347	3.4%
LS-Special Lighting	126	\$ 72.13	6.9%	\$ 9,076	6.9%
Total Customers	155,165			\$ 22,938,132	4.9%

The proposed annual bill reflects a Fuel Adjustment Charge of \$0.00259 per kWh; and EECR charge of \$0.00039 per kWh
 The current annual bill reflects a Tax Reform Credit of \$0.00516 per kWh; a Fuel Adjustment Charge of \$0.00351 per kWh; and a EECR of \$0.00039 per kWh

RG-Residential (Monthly)	\$	8.02	5.8%
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FOR IMMEDIATE RELEASE

LIBERTY UTILITIES FILES FOR MISSOURI ELECTRIC RATE UPDATES

JOPLIN, MO – August 14, 2019 – On Wednesday, August 14, 2019, Liberty Utilities - The Empire District Electric Company (Liberty-Empire) submitted a request to the Missouri Public Service Commission (MPSC) for updated Missouri electric rates. If approved by the MPSC, residential customers with an average monthly usage of 1,000 kWh will see an approximate increase of \$7.85 per month, a change of 5.9 percent.

Customers qualifying for the Low Income Pilot Program will see an approximate increase of \$1.85 per month.

It has been nearly four years since Liberty-Empire filed its last general rate case for Missouri electric customers. The MPSC will have up to 11 months to review this request. If approved, updated rates will go into effect by summer 2020.

Investments in Infrastructure and Reliability (Project Toughen Up)

Since April 2016, Liberty-Empire has invested approximately \$338 million in upgrades to its Missouri electric transmission and distribution system. This investment includes the replacement of over 6,400 poles and the installation of over 11,000 sectionalizing devices, which has improved reliability of the system and helped significantly decrease the number of customers impacted during outages.

Other Components of Filing

- **Tax Cuts and Jobs Act** – A portion of this filing proposes to return \$11 million tax dollars to customers.
- **Savings Opportunities for Customers** – Liberty-Empire has requested a continuation of the Low Income Pilot Program, which provides a credit for the customer charge for qualifying Missouri customers. Liberty-Empire has also proposed to continue its current energy efficiency programs, including rebate opportunities for Missouri electric customers.
- **Environmental Benefits** – Liberty-Empire will continue to offer its Solar Rebate Program, which has provided over \$16 million to qualifying Missouri electric customers since its inception in 2015.

- **High Bill Protection During Harsh Temperatures** – Liberty-Empire is requesting the inclusion of a Weather Normalization Rider (WNR) to the bills of Missouri electric customers. The purpose of the WNR is to adjust customer bills to reflect normal weather conditions. For weather periods that are milder than normal, a WNR charge will be applied to the bill. For weather periods that are harsher than normal, a credit will be applied to the bill. This rider would prevent over or under-collection by the Company during abnormal weather conditions.

A Quote from Our President

“These investments are a necessary part of delivering the safe and reliable power that our Missouri electric customers expect. As a utility, the way we deliver power is changing at a rapid pace. It’s important for us to innovate to ensure we’re meeting our customers’ needs now and in the future,” says David Swain, President, Liberty Utilities-Central Region.

About Liberty Utilities

Liberty Utilities Co. owns and operates regulated water, wastewater, natural gas and electric transmission and distribution utilities in 12 states, delivering responsive and reliable essential services to nearly 780,000 customers across the United States. With a local approach to management, service and support, we deliver efficient, dependable services to meet the needs of our customers. Liberty Utilities provides a superior customer experience through walk-in customer centers, locally focused conservation and energy efficiency initiatives, and programs for businesses and residential customers. We measure our performance in terms of service reliability, an enjoyable customer experience, and an unwavering dedication to public and workplace safety. Liberty Utilities currently operates in Arizona, Arkansas, California, Georgia, Illinois, Iowa, Kansas, Massachusetts, Missouri, New Hampshire, Oklahoma and Texas. For more information, please visit www.LibertyUtilities.com.

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Contact:

Jillian Curtis
Central Region Marketing & Communications
417-625-5180
Jillian.Curtis@libertyutilities.com



Liberty Utilities

Missouri:

Rate case at a glance



- over 150,000 customers served
- Total request of \$26.5 million
- Approximate monthly increase of \$7.85 for an average customer using 1,000 kwh per month
- Serving Barton, Jasper, Newton, McDonald, St. Clair, Cedar, Dade, Lawrence, Barry, Hickory, Polk, Greene, Christian, Stone, Taney, and Dallas Counties

On August 14, 2019, Liberty Utilities - Empire District submitted a request to the Missouri Public Service Commission (MPSC) to update the company's electric rates. If approved, an average residential customer using 1,000 kWh per month would see an approximate increase of \$7.85 on their monthly bill. Qualifying low income customers would see an approximate increase of \$1.85.

Components of Filing:



Providing Savings Opportunities for our Customers

In order to provide savings opportunities for customers, we have requested the continuation of our Low Income Pilot Program, which provides a credit for the customer charge for qualifying Missouri electric customers. In addition, we plan to continue offering energy efficiency rebate opportunities, as well as solar rebate opportunities, to our Missouri electric customers.



Making Power More Reliable for our Customers

At Liberty Utilities, we are committed to providing our customers with the safe and reliable power they expect. This means investing in our infrastructure and hardening our system against extreme weather and other causes of outages. Since 2016, we have invested approximately \$338 million in our Missouri electric transmission and distribution system to help increase safety and reliability.



Normalizing Bills for Customers During Irregular Weather

Missouri weather can be unpredictable and this can affect customer bills. In this filing, we are requesting the inclusion of a Weather Normalization Rider (WNR) which will appear on bills as a credit during harsh weather periods and as a charge during mild weather periods. If approved, this would prevent over or under collection by the company during irregular weather. Credits would also benefit the customer during harsher than normal weather.





What is a rate case?

A rate case is a public regulatory review process in which a utility must demonstrate to its state public service commission why a proposed change in rates is needed. This independent public process helps ensure transparency and fair rates based on the costs to serve customers.

Who sets the rates customers pay for electricity?

Liberty Utilities is required to provide every customer in our service area with reliable electricity at rates approved by the public service commission of each state. In exchange, the utility is allowed the opportunity (not a guarantee) to earn a fair return for investors. Even though our regulators will ultimately determine any changes to customer rates, we pledge to do our part to keep rates as reasonable as possible.

What is the process? Will customers have a chance to share input?

First, Liberty Utilities must demonstrate to state utility regulators why a rate change is needed. The Missouri Public Service Commission and other interested stakeholders review our filings and vet the company's request. The commission then thoroughly reviews our request and holds public hearings to allow customers to comment. This process will take up to 11 months.

What is Liberty Utilities doing to help their customers reduce energy and manage their bills?

Liberty Utilities has implemented a variety of payment options to help customers manage their monthly bills. One option, the Average Payment Plan, creates an average based on the customer's previous year of energy usage, making their bill the same each month, despite fluctuations in temperatures. This allows customers to budget more easily. Liberty Utilities has also launched an Energy Analysis program that notifies customers when their bill is \$30 higher or lower than the previous month and provides them tips through email to reduce their energy use.



Stub Period Earnings Analysis

Tax Reform Revenue Requirement Impact Calculation

Page 1 of 1

Line No.	Description	Missouri
	Revenue Requirement Component	21% Federal Income Tax Rate
1	Operating Expense	265,408,206
2	Rate Base	1,362,690,378
3	ROR	7.33%
4	Return on Rate Base	99,925,874
5	Interest Sync:	
6	Rate Base	1,362,690,378
7	Weighted Cost of Debt	2.72%
8	Interest Deduct	37,119,686
9	Return on Rate Base	99,925,874
10	Interest Deduct	(37,119,686)
11	Net Income (Equity Portion of Return)	62,806,188
12	Composite Tax Rate	25.12%
13	Equity x Tax Rate	15,775,972
14	GRCF	1.3354
15	Taxes	21,067,917
16	Total Revenue Requirement	386,401,997
17	Total Revenue YTD August 31, 2018	386,269,192
18	Deficiency	132,805
19	Stub Period Regulatory Liability	11,728,453
20	Total Deficiency	<u>11,861,258</u>

EXEMPLARY NOTICE

On August XX, 2019 The Empire District Electric Company, a Liberty Utilities Company, filed revised electric service tariff sheets with the Missouri Public Service Commission (PSC) which would increase the Company's Missouri jurisdictional annual gross revenues by \$26.5 million or approximately 4.93 percent. For a residential customer using 1,000 kilowatt-hours of electricity a month, the proposed increase would be approximately \$7.85 each month.

The Company is also asking to continue the use of the Fuel Adjustment Clause (FAC) with an updated base cost of energy. The difference between actually incurred fuel costs and base cost will be billed or credited to each customer based on the customer's monthly energy usage. The continuation of the FAC will allow the Company to adjust customers' bills twice each year, on June 1st and December 1st, based on the varying costs of fuel used to generate electricity at the Company's generating units and electric energy the Company purchases on behalf of its customers.

Local public hearings have been set before the PSC as follows:

dates, times, locations

Each public hearing will begin with a question-and-answer session.

If you wish to comment or secure information, you may contact the Office of the Public Counsel, P.O. Box 2230, Jefferson City, Missouri 65102, telephone (866) 922-2959, email opcservice@ded.mo.gov or the Missouri Public Service Commission, Post Office Box 360 Jefferson City, Missouri 65102, telephone 800-392-4211, email pscinfo@psc.mo.gov.

The Commission will also conduct an evidentiary hearing at its offices in Jefferson City during the weeks of (month) (day) through (month) (day), and (month) (day) through (month) (day), beginning at 8:30 a.m.

The hearings and local public hearings will be held in buildings that meet accessibility standards required by the Americans with Disabilities Act. If a customer needs additional accommodations to participate in these hearings, please call the Public Service Commission's Hotline at 1-800-392-4211 (voice) or Relay Missouri at 711 prior to the hearing.

Date Mailed: 02/09/18

1 Account Number: 000011-11-0


TOTAL AMOUNT DUE	\$135.00
Delinquent after 2/27/18, add late fee of	\$0.73
After 2/27/18, Pay	\$135.73
TOTAL AMOUNT ENCLOSED	\$ _____

2 
 JOHN A. CUSTOMER
 101 MAIN STREET
 ANYWHERE, MO 11111

3 Remit to:
 LIBERTY UTILITIES - EMPIRE DISTRICT
 PO BOX 650689
 DALLAS, TX 75265-0689

1294820394000000880000000088441

For account questions, call 800-206-2300. To pay your bill by phone, call 888-631-8973.

 Liberty Utilities - Empire District (www.empiredistrict.com)
 PO BOX 650689
 Dallas, TX 75265-0689

4 Account Number: 000011-11-0

Summary as of 02/08/18:

5	Previous Bill	01/08/18		\$135.00
	Payment Received	01/24/18	Check	(\$135.00) Thank you
	Balance Forward			\$0.00
	Electric		000011-11-001	\$135.00 ***
6	TOTAL AMOUNT DUE			\$135.00

*** see Account Detail following message(s).

7 If you have a question or problem with billing or service or need help managing your charges with a delayed payment agreement, we welcome your call or visit to your local office. The address and toll-free number are shown above.

 You may pay your bill by credit or debit card by calling 888-631-8973 or online at www.empiredistrict.com. Select the Customer Service tab and Payment Information. There is a convenience fee for this service.

-
- 1)** Nine-digit account number needed to make a payment.
 - 2)** Customer and billing location information.
 - 3)** Liberty Utilities - Empire's District's mailing address to remit payment. Information on additional payment methods can be found on the company's Web site, www.empiredistrict.com.
 - 4)** Customer account number.
 - 5)** Previous balance, recent payments, and remaining balance.
 - 6)** Total amount due for current month – detailed explanation on customer charges can be found on the back of the bill.
 - 7)** This area has important messages from the company.

Account Detail

8	Electric 000011-11-001	9 For Service at 101 Main Street, Anywhere, MO 11111	Rate: RG-Residential
10	Read for: 00118237 From 01/05/18 to 01/30/18 (25 Days), Curr Read - 13701 Prev Read - 12701. Totaling 1,000 Kwh		
11	02/05/18	Customer Charge	1 x 13.00 \$13.00
12	02/05/18	Usage Charge	600kwh x .13006 \$78.04
13	02/05/18	Usage Charge	400kwh x .10574 \$42.30
14	02/05/18	Energy Efficiency Program Cost	1000kwh x .00039 \$0.39
15	02/05/18	Tax Cuts and Jobs Act	600kwh x .00516 CR \$3.10
16	02/05/18	Franchise Fee	111.18 x .02 \$2.22
17	02/05/18	Fuel Adjust Charge	1000kwh x .00758 \$7.58
	02/05/18	Anywhere County Tax	111.18 x .00875 \$0.97
		18 Current Months Charges:	\$141.40 \$135.00
		20 Billed Charges:	\$135.00
	02/05/18	19 APP Installment	
Contract Update			
	APP	21 Status before payment is \$141.40, after payment in full \$6.40. This account will be reevaluated in October.	

- 8) 11-digit location number to report outages or to use automated account information by phone.
- 9) Service address - this is important for customers who have multiple accounts with the company.
- 10) Meter number, previous meter read, current meter read, and usage information.
- 11) The company service includes a fixed monthly customer charge, no matter how much electricity is used.
- 12) The usage charge is for the kilowatt hours (kwh) used by a customer. The charge for each kwh used by a customer from June 16 through September 16 is \$0.13006 per kwh. The charge for electricity for the other eight months of each year is \$0.13006 per kwh for the first 600kwh and \$0.10574 for each kwh thereafter.
- 13) The cost to provide programs for customers to improve the energy efficiency of their homes and businesses.
- 14) This credit is the result of a Missouri rate decrease stemming from the Tax Cuts and Jobs Act of 2017.
- 15) A contractual fee required for the company to use the city public right-of-ways.
- 16) The charge for the difference between fuel and purchased power costs established in the current rate structure and the actual fuel and purchased power costs incurred by the company. This rate changes twice a year. If fuel costs are less than what is established by the current rates, customers will see a credit in the Fuel Charge line. The cost includes no mark-up or profit for the company.
- 17) Taxes, fees, and other assessments.
- 18) Total charges for the billing period.
- 19) APP, average payment plan, is a payment contract that calculates a customer's expected annual usage and divides it into 12 equal payments. Each month one payment installment is due from the customer. At the end of 12 months the actual usage is reviewed and a customer's contract and installments are adjusted for the next 12 months.
- 20) The amount due from the customer by the due date.
- 21) Important information about a customer's payment contract.

2019 SHORT TERM DEBT SUMMARY

	ACTUAL				MODEL*		VARIANCE		ENERGY TRADING CASH PD OUT	
	End of Period	Average	Interest Expense	Effective Cost	End of Month Balance	Interest Cost	End of Month Balance	Interest Cost	Margin Account	Derivative OTC Settlements
JANUARY	18,750,000	13,362,903	32,366	2.81%	15,382,000	27,000	3,368,000	5,366	(75,000)	0
FEBRUARY	5,500,000	9,196,429	19,846	2.77%	23,972,000	49,000	(18,472,000)	(29,154)	0	0
MARCH	0	830,645	1,947	2.72%	5,691,000	14,000	(5,691,000)	(12,053)	0	0
1ST QTR	0	7,750,000	54,159	2.83%	15,015,000	90,000	(15,015,000)	(35,841)	(75,000)	0
APRIL	0	0	0	0.00%	31,139,000	0	(31,139,000)	0	(225,300)	(6,040)
MAY	4,000,000	1,838,710	4,266	2.69%	9,500,000	12,000	(5,500,000)	(7,734)	0	(34,840)
JUNE	1,250,000	4,806,667	10,658	2.66%	11,200,000	19,000	(9,950,000)	(8,342)	(1,123,875)	(29,240)
2ND QTR	1,250,000	2,210,989	14,924	2.67%	17,279,667	31,000	(16,029,667)	(16,076)	(1,349,175)	(70,120)
YTD	1,250,000		69,083		16,147,333	121,000	(14,897,333)	(51,917)	(1,424,175)	(70,120)
JULY							0	0		
AUGUST							0	0		
SEPTEMBER							0	0		
3RD QTR	0		0		0	0	0	0	0	0
YTD	0		69,083		10,764,889	121,000	(10,764,889)	(51,917)	(1,424,175)	(70,120)
OCTOBER							0	0		
NOVEMBER							0	0		
DECEMBER							0	0		
4TH QTR	0		0		0	0	0	0	0	0
YTD			69,083		8,073,667	121,000	(8,073,667)	(51,917)	(1,424,175)	(70,120)

Proposed List of Sub-Accounts Included and Excluded for FAC

<u>GL</u>	<u>Descriptions</u>	<u>GL</u>	<u>Descriptions</u>	<u>GL</u>	<u>Descriptions</u>
<u>501</u>	<u>Included:</u>	<u>506</u>	<u>Included:</u>	<u>555</u>	<u>Included:</u>
501042	Fuel -Coal	506127	Limestone Expense -Iatan	555430	Direct Purchases
501045	Fuel -Oil	506128	Powdered Activated Carbon	555431	Purchase Power Tolling Fees
501054	Fuel -Natural Gas	506129	Ammonia Expense	555432	Energy Imbalance
501183	Sales Of Ash	506201	Limestone Expense	555437	Interrupt Svc Compensation
501211	Ineffect (Gain)Loss Deri Steam	506202	Ammonia Expense	555 800	DA Asset Energy
501212	Effective (Gn)Lss Deriv Steam	506203	Powdered Activated Carbon	555810	DA Non-Asset Energy
501216	NonFAS133Deriv(Gain)/LossSteam	506204	Lime Expense	555820	DA Virtual Energy
501300	Fuel -Tires			555840	DA Reg -Up
501401	Ops Mtls-Fuel Handling	<u>548</u>	<u>Included:</u>	555850	DA Reg -Down
501607	Fuel Adm E Trader Commission	548202	Ammonia Expense	555860	DA Spinning
				555870	DA Supplemental
<u>501</u>	<u>Excluded:</u>	<u>447</u>	<u>Included:</u>	555880	DA Other
501011	Conv & Seminar-Fuel	447113	Gen Ark Off-Sys Sale-Resale	555900	RT Asset Energy
501400	Ops Labor-Fuel Handling	447124	Gen Ks Off-System Sale-Resale	555910	RT Non-Asset Energy
501601	Fuel Administration -Asbury	447133	Gen Mo Off -Sys Sale -Resale	555920	RT Virtual Energy
501604	Fuel Administration -Riverton	447143	Gen Ok Off -Sys Sales-Resale	555940	RT Reg-Up
501605	Fuel Administration Plum Point	447810	SPP IM Revenue -AR	555950	RT Reg-Down
		447820	SPP IM Revenue -KS	555960	RT Spinning
<u>547</u>	<u>Included:</u>	447830	SPP IM Revenue -MO	555970	RT Supplemental
547205	Natural Gas SLCC Tolling	447840	SPP IM Revenue -OK	555980	RT Other
547206	Nat Gas-Tolling SLCC In effectiv	447850	SPP IM Revenue	555990	TCR Activity
547207	Nat Gas-Tolling SLCC Effective	447860	Bilateral/ Off Line Aux Revenue	555995	ARR Activity
547208	Comb Turb Fuel Sales -Nat Gas				
547210	Combust Turb Fuel Natural Gas	<u>447</u>	<u>Excluded:</u>		
547211	Ineffect (Gain)Loss Deriv Gas	447430	Aec -Off-Sys-Missouri	<u>565</u>	<u>Included:</u>
547212	Effective (Gain)Loss Deriv Gas	447540	Oklahoma GRDA Off-System	565413	Trans Of Electricity By Others
547213	Fuel -No 2 Oil Fuel	447610	Energy Imbalance -Arkansas	565414	SPP Fixed Chg -Native Load
547301	NonFAS133 Deriv (Gain)/Loss	447620	Energy Imbalance -Kansas	565415	SPP Var Chg Schedule 12
547607	Fuel Adm E Traders Commission	447630	Energy Imbalance -Missouri	565416	Non SPP Fixed Chg -Native Load
		447640	Energy Imbalance -Oklahoma	565417	PP Non SPP Var -Native Load
<u>547</u>	<u>Excluded:</u>			565418	Gen Non SPP Var -Native Load
547605	Fuel Adm State Line	<u>457</u>	<u>Excluded:</u>	565419	Off Sys Sales Trans Costs
547606	Fuel Adm Energy Center	457137	Ot El RvOffSys LTFSTF PTP Trns		
547210	Natural gas fix ed transportation & fixed storage only	457138	Ot El RvOffSys NnFrm PTP Trns	<u>456</u>	<u>Included:</u>
		457139	Ot El RvOffSys NITS Rev	456071	Misc Elec Rev-Green Credits-AR
		457140	0th El Rev-Off-Sys Losses	456072	Misc Elec Rev-Green Credits-KS
		457141	Sch 11 NITS	456073	Misc Elec Rev-Green Credits-MO
<u>411</u>	<u>Included:</u>	457142	Sch 11 PTP	456074	Misc Elec Rev-Green Credits-OK
411800	Gains-Disposition Emmi ss Allow	457160	Sch 1 PTP	456075	REC Revenue
<u>509</u>	<u>Included:</u>				
509052	Emission Allowance Exp				

**** Confidential In Its Entirety ****

Environmental Matters

We are subject to various federal, state, and local laws and regulations with respect to air and water quality and with respect to hazardous and toxic materials and hazardous and other wastes, including their identification, transportation, disposal, record-keeping and reporting, as well as remediation of contaminated sites and other environmental matters. We believe that our operations are in material compliance with present environmental laws and regulations. While we are not in a position to accurately estimate compliance costs for any new requirements, we expect these costs to be material, although recoverable in rates.

Electric Segment

The federal Clean Air Act (CAA) and comparable state laws regulate air emissions from stationary sources such as electric power plants through permitting and/or emission control and related requirements. These requirements include maximum emission limits on our facilities for sulfur dioxide (SO₂), particulate matter, nitrogen oxides (NO_x), and hazardous air pollutants including mercury. In the future the requirements will include limitations on greenhouse gases (GHG) such as carbon dioxide (CO₂) from our coal-fired plant.

Liberty-Empire also operates under the Kansas and Missouri Water Pollution Plans that were implemented in response to the Federal Clean Water Act ("CWA"). Liberty-Empire operates its generation facilities in compliance with applicable regulations, and all facilities have received necessary discharge permits.

Liberty-Empire operates under the Missouri Public Service Commission's renewable energy standards (RES) rule, 4 CSR 240-20.100(8). Liberty-Empire complies with the non-solar portion of the RES through purchased power contracts with Elk River Windfarm, LLC and generation from the Ozark Beach Hydroelectric facility. For the solar portion of the RES, Liberty-Empire expects to obtain solar renewable energy credits transferred from qualified customer-generator's operational solar electric systems as a condition of receiving the solar rebate.

Compliance Plan

In order to comply with current and forthcoming environmental regulations, we will implement our Integrated Resource Plan (IRP) filed with the MPSC in 2019. The Air Emissions, Water Related Impacts, and Renewable Energy sections below describe the regulations and actions of the EPA and states with anticipated responses. Compliance costs we have incurred associated with the regulations are being recovered in our rates and we anticipate any future costs to continue to be recoverable in our rates.

Air Emissions

National Ambient Air Quality Standards

The Clean Air Act ("CAA") requires the EPA to set National Ambient Air Quality Standards ("NAAQS") for four air pollutants associated with fossil-fuel generation, including particulate matter, ground-level ozone, sulfur dioxide (SO₂), and nitrogen dioxides (NO_x). These air pollutants are regulated by setting human health-based or environmentally-based criteria for permissible levels. The EPA is reviewing the current 2015 ozone NAAQS to evaluate whether to reconsider, modify or maintain the standards by the required five-year deadline (October 2020).

Particulate Matter

In 2013, the EPA strengthened the PM standard. The Jasper County area is currently in attainment of the 2013 PM NAAQS. No additional emission control equipment is currently needed to comply with this standard. It is not known whether the Jasper County area will remain in attainment of a future revision of the standard. Future non-attainment of revised standards could require additional reduction technologies, emission limits, or both on fossil-fueled units.

Ozone

In 2015, the EPA strengthened the NAAQS for ground-level ozone. The Jasper County area is currently in attainment of the 2015 Ozone NAAQS. No additional emission control equipment is currently needed to comply with this standard.

Future non-attainment of revised standards could result in regulations requiring additional NO_x reduction technologies, emission limits, or both on fossil-fueled units.

Sulfur Dioxide

In 2010, the EPA strengthened the NAAQS for SO₂. The Jasper County area is currently in attainment of the 2010 SO₂ NAAQS. No additional emission control equipment is currently needed to comply with this standard. Future non-attainment of revised standards could result in regulations requiring additional SO₂ reduction technologies, emission limits or both on fossil-fueled units.

Nitrogen Dioxides

In 2010, the EPA strengthened the NAAQS for NO_x. The Jasper County area is currently in attainment of the 2010 NO_x NAAQS. No additional emission control equipment is currently needed to comply with this standard. Future non-attainment of revised standards could result in regulations requiring additional NO_x reduction technologies, emission limits or both on fossil-fueled units.

Cross-State Air Pollution Rule

In 2011, the EPA finalized the Cross-State Air Pollution Rule ("CSAPR"), requiring eastern and central states to significantly reduce power plant emissions that cross state lines and contribute to ground-level ozone and fine particle pollution in other states. The CSAPR Update Rule took effect in 2017 with more stringent ozone-season NO_x emission budgets for electric generating units ("EGUs") in many states to address significant contribution and maintenance issues with respect to the ozone NAAQS established in 2008. No additional emission control equipment is currently needed to comply with this rule. The Company complies through a combination of trading allowances within or outside its system in addition to changes in operations as necessary. Future, strengthened ozone, NO_x, or SO₂ standards could result in additional cross-state rule updates requiring additional trading of allowances, emission reduction technologies or reduced generation on fossil-fueled units.

Regional Haze

In June 2005, the EPA finalized amendments to the July 1999 Regional Haze Rule. These amendments apply to the provisions of the Regional Haze Rule that require emission controls known as best available retrofit technology ("BART") for industrial facilities emitting air pollutants that reduce visibility by causing or contributing to regional haze.

The pollutants that reduce visibility include PM_{2.5} and compounds which contribute to PM_{2.5} formation, such as NO_x, SO₂, and under certain conditions, volatile organic compounds and ammonia. Under the 1999 Regional Haze Rule, states are required to set periodic goals for improving visibility in natural areas. As states work to reach these goals, they must develop regional haze implementation plans that contain enforceable measures and strategies for reducing visibility-impairing pollution.

The Regional Haze Rule directs state air quality agencies to identify whether visibility-reducing emissions from sources subject to BART are below limits set by the state or whether retrofit measures are needed to reduce emissions. It also directs these agencies to file Regional Haze plans with the EPA for approval.

Future visibility progress goals could result in additional SO₂, NO_x, and PM controls or reduction technologies on fossil-fired units.

Affordable Clean Energy Rule

On Wednesday, June 19, 2019, EPA issued the Affordable Clean Energy rule (ACE), an effort to provide existing coal-fired electric utility generating units, or EGUs, with achievable and realistic standards for reducing greenhouse gas (GHG) emissions. This action was finalized in conjunction with related rulemakings including the repeal of the Clean Power Plan (CPP), the revised implementing regulations for ACE, ongoing emission guidelines, and all future emission guidelines for existing sources issued under the authority of Clean Air Act (CAA) section 111(d).

ACE provides states with new emission guidelines that will inform the state's development of standards of performance to reduce carbon dioxide (CO₂) emissions from existing coal-fired EGUs.

Mercury and Air Toxics Standards

In 2011, the EPA finalized a rule to reduce emissions of toxic air pollutants from power plants. These MATS for power plants reduced emissions from new and existing coal and oil-fired electric EGUs. Control equipment was installed at Liberty-Empire facilities to comply with this rule. No additional emission control equipment is currently needed to comply with this standard. It is not known whether the rule will be strengthened in the future. Future strengthening of the rule could require additional reduction technologies, emission limits, or both on coal and oil-fired units.

Water Related Impacts

Clean Water Act Section 316(b)

On September 17, 2018, the Kansas Department of Health and Environment ("KDHE") issued a Certificate of Determination stating that the Riverton Generating Station cooling water intake structure ("CWIS") is in compliance with Section 316(b) of the CWA. The location, design, construction and capacity of the CWIS reflects the best technology available ("BTA") for minimizing adverse environmental impacts. Additionally, Iatan 2 and Plum Point Unit 1 also meet the BTA standard. Future modifications at the Iatan 1 facility could range from flow velocity reductions, traveling screen modifications, or the installation of a closed cycle cooling tower retrofit.

Surface Impoundments

Liberty-Empire owns and maintains a coal ash impoundment at the Asbury Power Plant. Additionally, Liberty-Empire owns a 12 percent interest in a coal ash impoundment at the Iatan Generating Station and a 7.52 percent interest in a coal ash impoundment at Plum Point. Future closure of all surface impoundments is anticipated.

Effluent Limitation Guidelines ("ELGs") for Steam Electrical Power Generating Point Sources are currently incorporated into all facilities' wastewater discharge permits. The EPA rule defines bottom ash transport water, fly ash transport water, and scrubber wastes as wastewaters which cannot be discharged after December 21, 2023.

Coal Combustion Residuals

In compliance with the EPA published final rule to regulate the disposal of coal combustion residuals ("CCRs") as a non-hazardous solid waste under subtitle D of the Resource Conservation and Recovery Act, Liberty-Empire has published a Closure Plan for the Asbury Plant CCR Impoundment. The plan schedule assumes Closure Initiation in November 2020 with completion of closure by October 2025. Liberty-Empire will need to construct at least one cell of a new landfill and complete the conversion of the existing bottom ash handling from a wet to a dry system at a potential cost of up to \$3 million and \$17 million, respectively, if Asbury continues to operate. The closure cost of the existing impoundment is estimated at \$15 million.

Liberty-Empire has posted a \$5.5 million asset retirement obligation ("ARO") for the Asbury pond closure costs. Liberty-Empire expects resulting costs to be recoverable in rates. Final closure of the other existing ash impoundment, for which an asset retirement obligation of \$4.4 million has been recorded for Liberty-Empire's interest in the coal ash impoundment at the Iatan Generating Station, has been accounted for in Liberty-Empire's ARO. In December 2016, The Missouri Department of Natural Resources ("MDNR") granted Liberty-Empire a Utility Waste Disposal Area Construction Permit that can be used for CCR waste disposal. Construction of the landfill is not expected in the immediate future, as Liberty-Empire anticipates that the existing Asbury impoundment will be closed by leaving all accumulated CCR in place.

In 2014, the former Riverton Plant impoundment was closed as a CCR landfill in accordance with Kansas Department of Health and Environment regulations.

Water Discharges

We operate under the Kansas and Missouri Water Pollution Plans pursuant to the Federal Clean Water Act (CWA). Our plants are in material compliance with applicable regulations and have received all necessary discharge permits. On September 17, 2018 KDHE issued a Certificate of Determination stating the Riverton Generating Station cooling water intake structure (CWIS) is in compliance with the EPA final rule under the CWA Section 316(b) for existing CWIS, which became effective on October 14, 2014, to meet new regulatory requirements for aquatic life protections. An industry coalition has filed an appeal of the rule and additional court challenges are expected. Impacts at latan 1 could range from flow velocity reductions, traveling screen modifications or the installation of a closed cycle cooling tower retrofit. latan Unit 2 and Plum Point Unit 1 are covered by the regulation, but were constructed with cooling towers, the proposed Best Technology Available. We expect them to be unaffected or minimally affected by the final rule.

Renewable Energy

Missouri

On November 4, 2008, Missouri voters approved the Clean Energy Initiative (Proposition C) which currently requires Liberty-Empire and other investor-owned utilities in Missouri to generate or purchase electricity from renewable energy sources, such as solar, wind, biomass and hydro power, or purchase Renewable Energy Credits (RECs), in amounts equal to at least 5 percent of retail sales in 2014, increasing to at least 15 percent by 2021. Liberty-Empire is currently in compliance with this regulatory requirement as a result of generation from the Ozark Beach Hydroelectric Project and purchased power agreements with Elk River Windfarm, LLC. Proposition C also requires that 2 percent of the energy from renewable energy sources must be solar. Liberty-Empire complies with this requirement utilizing customer-generated Solar Renewable Energy Credits (SRECs) which Liberty-Empire retains as a requirement of the rebate agreement. By the end of 2018, a total of 1,829 Missouri solar net metering customers have been connected to the Liberty-Empire system. In addition, rebate applications resulting in solar rebate-related costs totaled approximately \$15.9 million under the tariff. The law provides a number of methods that may be utilized to recover the associated expenses. Liberty-Empire expects any costs to be recoverable in rates.

Missouri passed SB 564 in 2018 which impacts renewable energy development and energy efficiency programming for Missouri’s investor owned utilities including Liberty-Empire. Additional solar rebates are mandated for new or expanded solar systems for residential and non-residential customers. Liberty-Empire will also be required to invest in utility scale solar facilities. It is anticipated a portion of the solar renewable energy credits from these additions can be used for compliance with the RES. The bill also changes the rate-making policy for Liberty-Empire, allowing decoupling revenue from electric sales. It is anticipated that costs for these initiatives will be recoverable in rates

For future compliance, Liberty-Empire’s Customer Savings Plan will add additional wind energy resources which will generate RECs. A portion of these credits can be used for compliance with the RES in the future.

Kansas

Legislation was adopted that altered the Kansas renewable portfolio standard (RPS), ending all mandatory requirements in 2015. The mandate, which required 20 percent of Liberty-Empire’s Kansas retail customer peak capacity requirements to be sourced from renewables by 2020, has been changed to a voluntary goal. One of the reasons for the change is that Kansas utilities have certified that they are already meeting the 20 percent target. Liberty-Empire is currently in compliance as a result of purchased power agreements with Cloud County Windfarm, LLC and Elk River Windfarm, LLC.

Projected Position for Allowances 2019-2022

SO₂ Acid Rain

	2019	2020	2021	2022
Allowances allocated	11,741	11,741	11,741	11,741
Estimated allowances needed for emissions	1,230	1,020	1,095	1,085
Allowances allocated less allowances needed for emissions	10,511	10,721	10,646	10,656

SO₂ CSAPR Group 1

	2019	2020	2021	2022
Allowances allocated	4,688	4,574	4,574	4,574
Estimated allowances needed for emissions	1,227	1,017	1,092	1,082
Allowances allocated less allowances needed for emissions	3,461	3,557	3,482	3,492

SO₂ CSAPR Group 2

	2019	2020	2021	2022
Allowances allocated	1,079	678	1	1
Estimated allowances needed for emissions	3	3	3	3
Allowances allocated less allowances needed for emissions	1,076	675	-2	-2

NO_x Annual CSAPR

	2019	2020	2021	2022
Allowances allocated	2,077	1,818	1,416	1,416
Estimated allowances needed for emissions	1,594	1,584	1,639	1,617
Allowances allocated less allowances needed for emissions	483	234	-179	-201

NO_x Ozone Season CSAPR

	2019	2020	2021	2022
Allowances allocated	674	674	674	627
Estimated allowances needed for emissions	577	619	647	625
Allowances allocated less allowances needed for emissions	97	55	27	2

SO₂ Acid Rain, all units included
 SO₂ CSAPR group 1 includes all MO units
 SO₂ CSAPR group 2, Riverton only
 Plum Point is not included in this summary

SCHEDULE SDR-17

Unit: Asbury
Data: Equivalent Availability Factor (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	97.5%	98.3%	92.6%	63.0%	99.9%	98.5%	100.0%	89.6%	38.8%	0.0%	67.1%	78.0%	76.9%
2015	69.5%	99.4%	100.0%	68.0%	80.8%	93.2%	99.9%	79.1%	73.3%	41.1%	94.6%	96.0%	82.8%
2016	96.3%	75.2%	88.3%	11.2%	74.4%	95.6%	94.2%	99.1%	42.5%	48.2%	94.8%	54.2%	73.0%
2017	89.0%	81.0%	76.0%		84.0%	100.0%	100.0%	99.0%	67.0%	94.0%	96.0%	100.0%	82.3%
2018	94.0%	81.0%	44.0%	98.0%	89.0%	97.0%	89.0%	95.0%	100.0%	59.0%	16.0%		71.8%
2019	76.0%	85.0%	90.0%	57.0%	43.0%	98.0%							

Unit: Asbury
Data: Equivalent Forced Outage Rate (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	2.5%	1.7%		2.7%							20.8%	25.7%	6.0%
2015	30.0%				19.0%	7.0%		21.0%	22.0%		6.0%	4.0%	9.9%
2016		32.2%	6.9%		25.1%		1.6%		46.7%	29.1%		35.7%	15.7%
2017	11.2%	24.9%		100.0%	13.2%			0.6%		2.7%			9.4%
2018	1.6%	13.0%	7.6%	1.3%	5.6%	3.8%	11.1%	4.8%		35.7%	89.1%	100.0%	26.1%
2019	16.0%	7.0%	8.0%	9.0%	12.0%	2.0%							

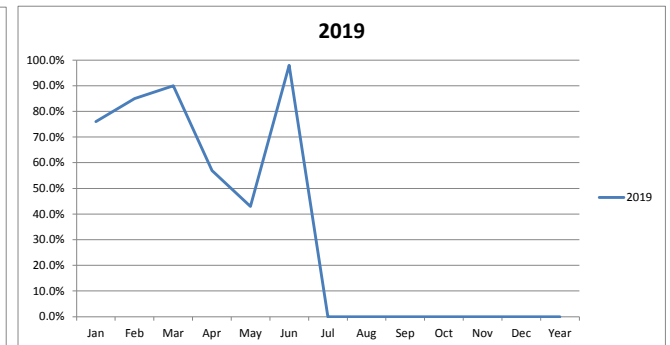
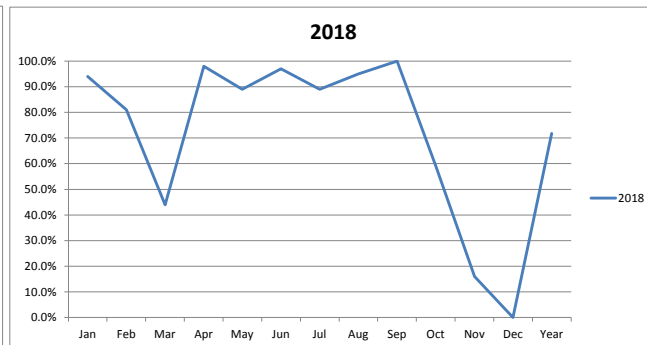
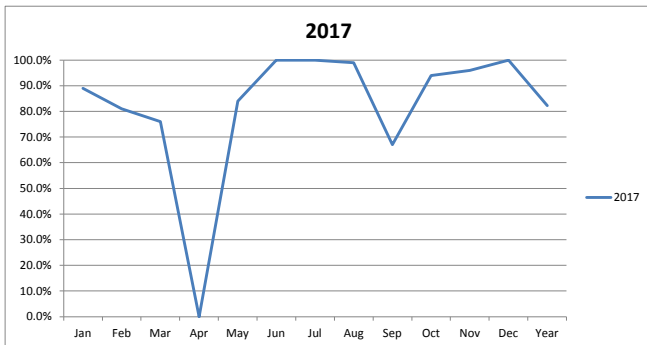
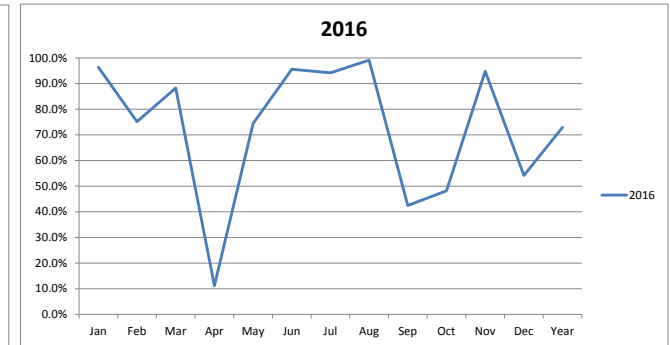
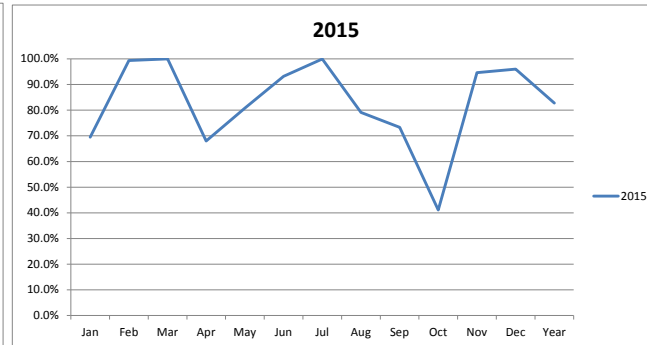
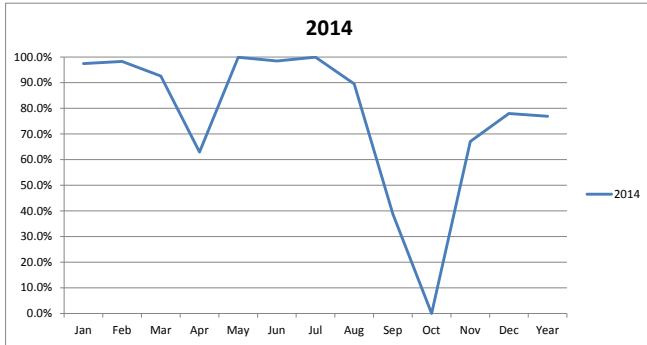
Unit: Asbury
Data: Length and timing of planned outages - Scheduled Outage Hours

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	-	-	-	260	-	-	-	61	432	744	110	-	1,607
2015	-	-	-	227	-	-	-	-	40	438	-	-	705
2016	-	-	-	640	-	-	-	-	-	216	-	-	856
2017	-	-	169	552	-	-	-	-	192	24	-	-	937
2018	37	65	399	-	48	-	-	-	-	91	-	-	640
2019	99	60	-	263	398	-							

Data through June, 2019

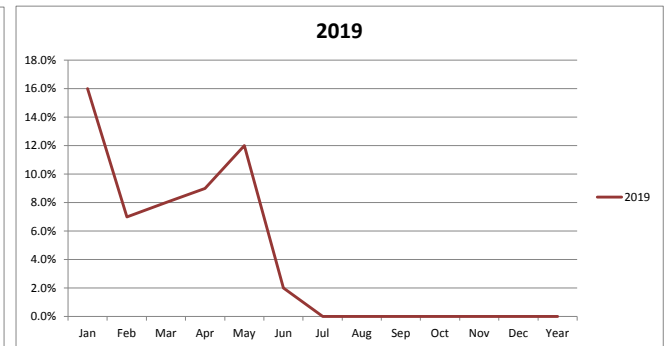
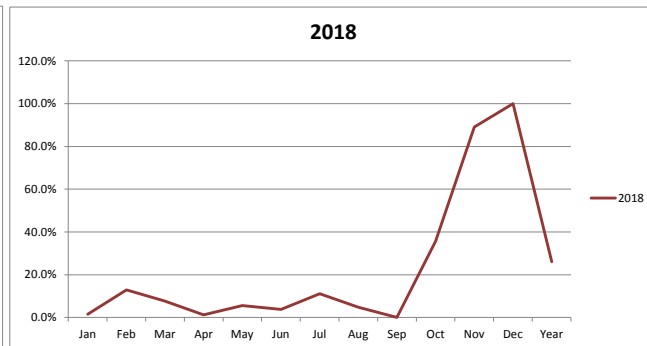
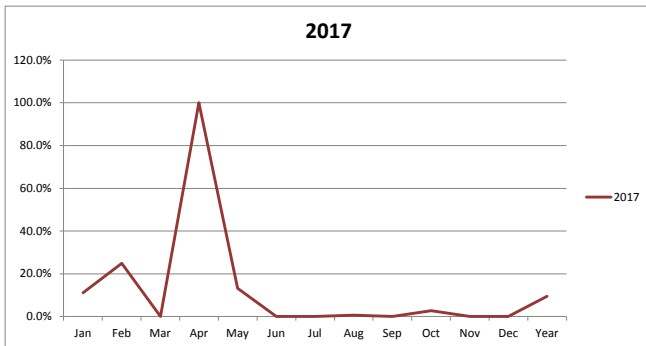
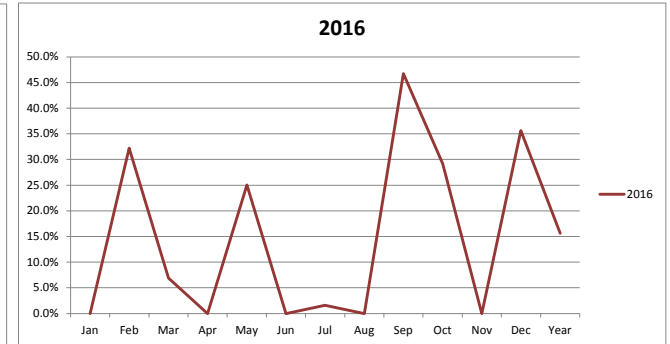
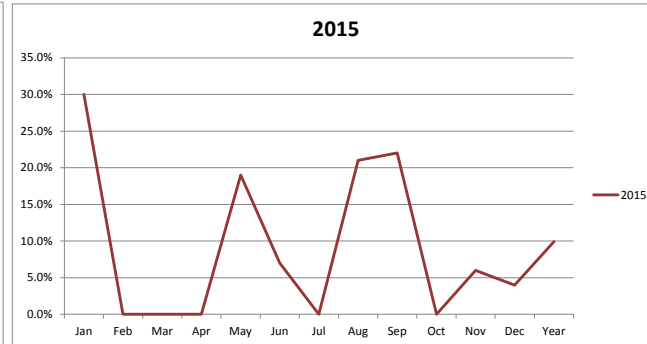
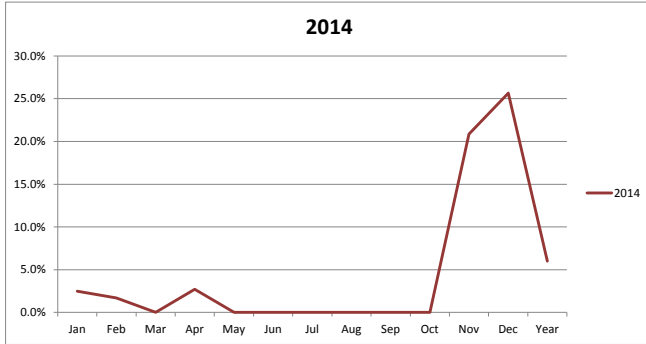
SCHEDULE SDR-17

Unit: Asbury
Data: Equivalent Availability Factor (%)



SCHEDULE SDR-17

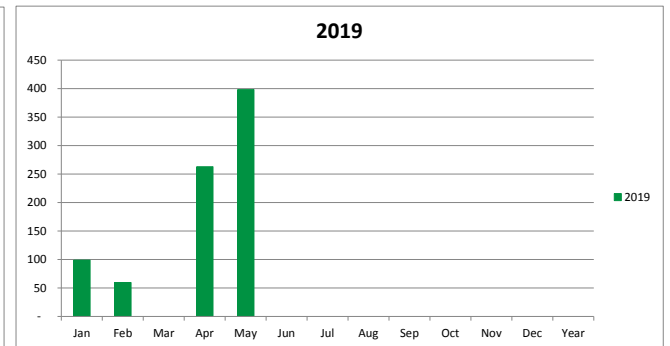
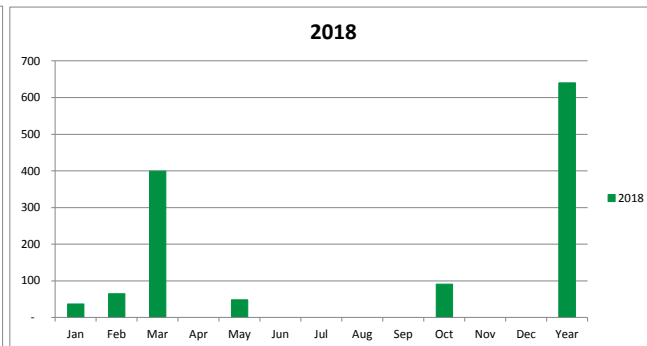
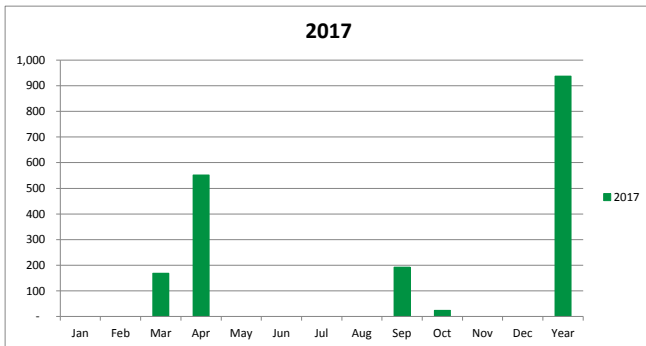
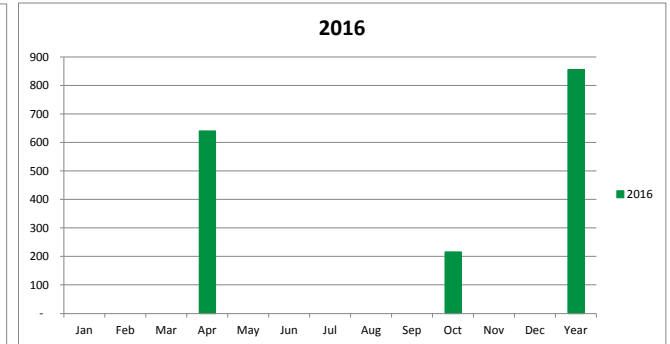
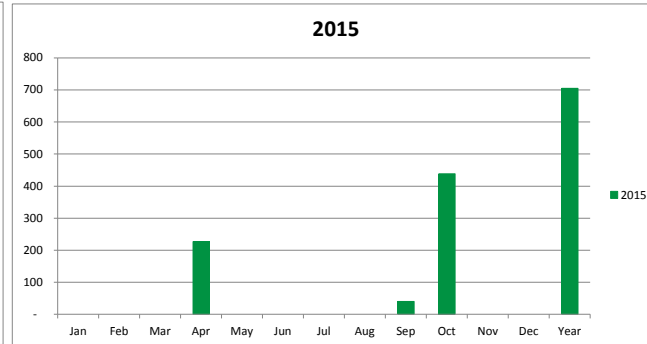
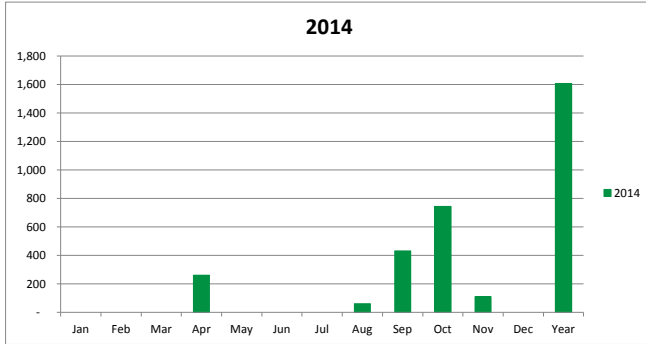
Unit: Asbury
 Data: Equivalent Forced Outage Rate (%)



SCHEDULE SDR-17

Unit: Asbury

Data: Length and timing of planned outages - Scheduled Outage Hours



Data through June, 2019

SCHEDULE SDR-17

Unit: Energy Center 1

Data: Equivalent Availability Factor (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	100.0%	100.0%	29.9%	91.4%	99.1%	100.0%	100.0%	10.6%	45.4%	97.2%	7.8%	50.3%	69.1%
2015	97.8%	100.0%	100.0%	76.7%	98.8%	99.7%	90.2%	100.0%	100.0%	100.0%	95.1%	100.0%	96.5%
2016	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	98.7%	100.0%	100.0%	100.0%	99.9%
2017	100.0%	100.0%	100.0%	89.0%	100.0%	71.0%	100.0%	100.0%	58.0%	-	-	-	68.0%
2018	5.0%	14.0%	99.0%	100.0%	67.0%	100.0%	100.0%	100.0%	93.0%	100.0%	100.0%	100.0%	81.9%
2019	100.0%	100.0%	99.0%	100.0%	48.0%	11.0%							

Unit: Energy Center 1

Data: Equivalent Forced Outage Rate (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014									50.5%	100.0%			34.4%
2015	68.0%					4.0%	55.0%						27.9%
2016		32.2%	6.9%		25.1%		1.6%		46.7%	29.1%		35.7%	1.3%
2017										100.0%	100.0%	100.0%	83.7%
2018		97.0%											82.5%
2019				8.0%	97.0%								

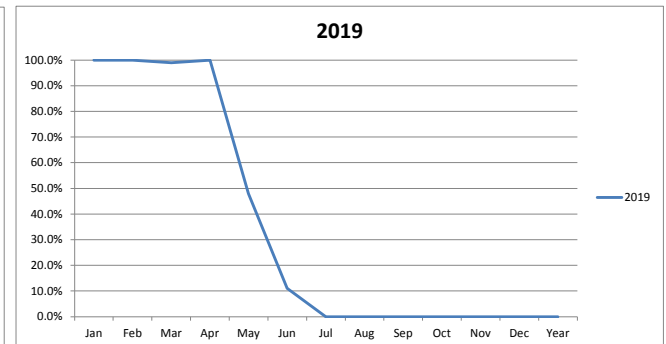
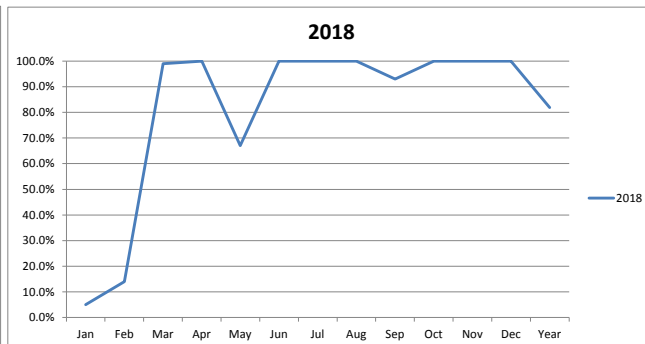
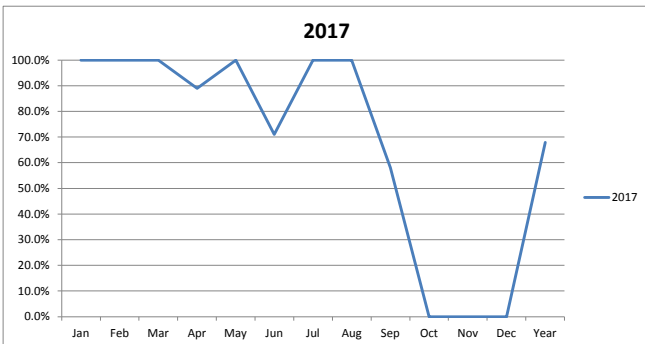
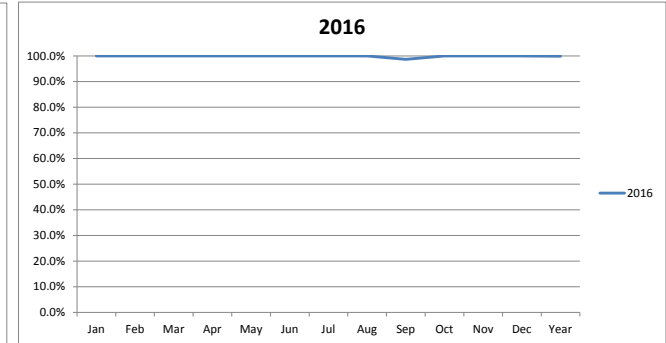
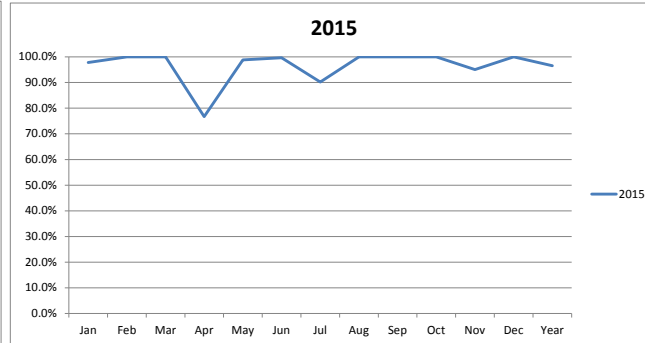
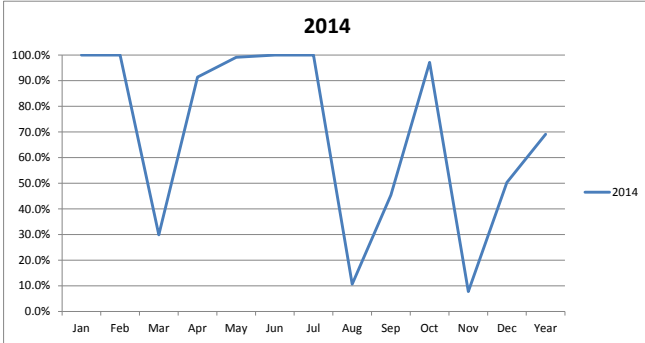
Unit: Energy Center 1

Data: Length and timing of planned outages - Scheduled Outage Hours

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	-	-	521	62	7	-	-	665	377	-	665	370	2,666
2015	6	-	-	168	9	-	-	-	-	-	36	-	219
2016	-	-	-	-	-	-	-	-	6	-	-	-	6
2017	-	-	-	83	-	207	-	3	306	648	-	-	1,247
2018	709	-	8	3	243	-	-	-	52	-	-	-	1,014
2019	-	-	4	-	-	638							

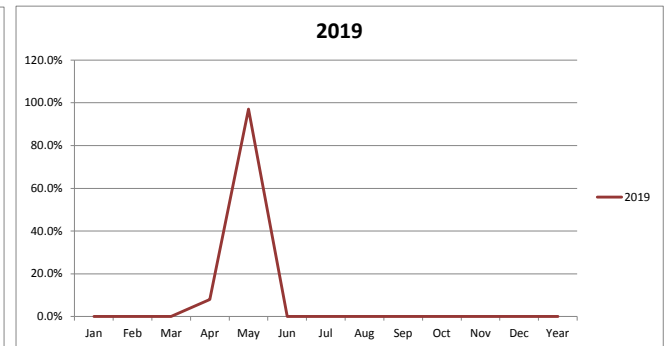
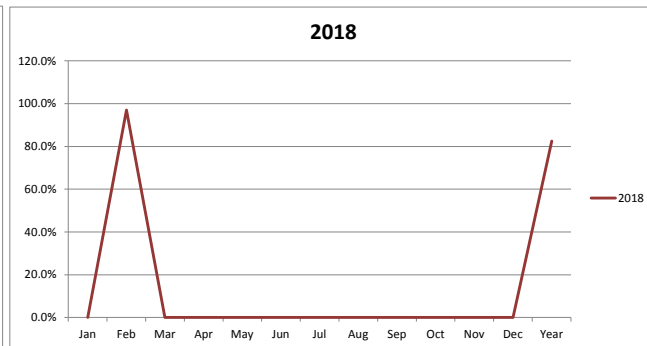
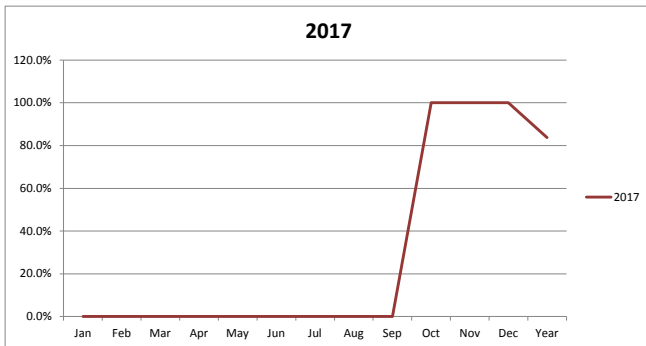
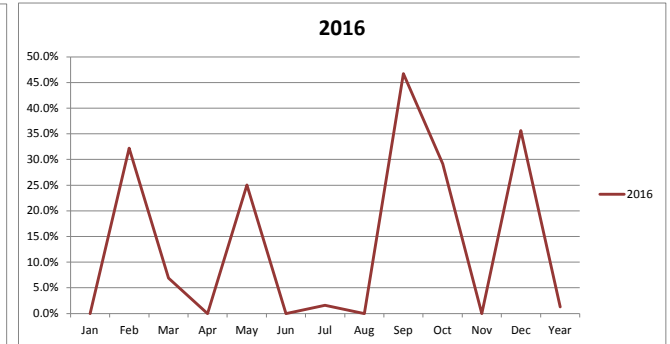
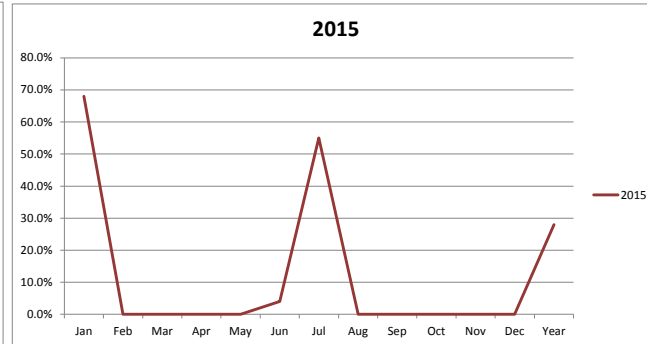
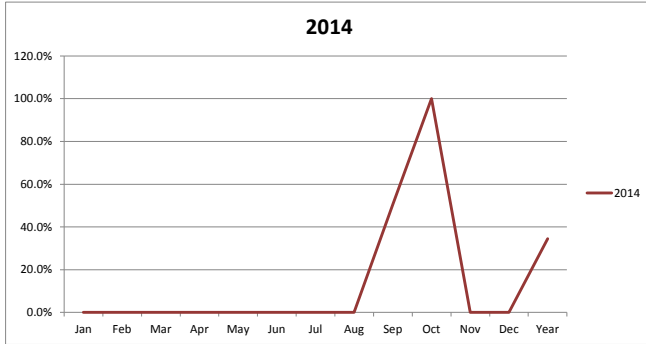
Data through June, 2019

Unit: Energy Center 1
 Data: Equivalent Availability Factor (%)



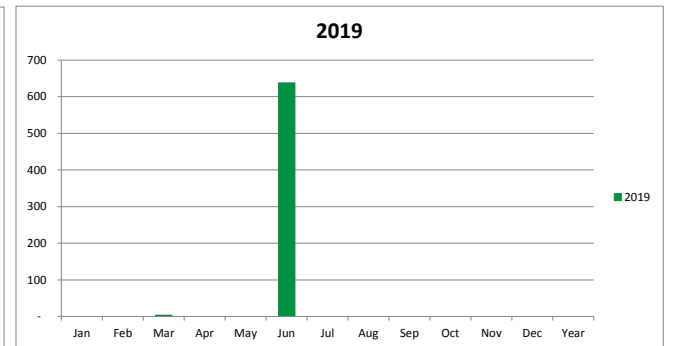
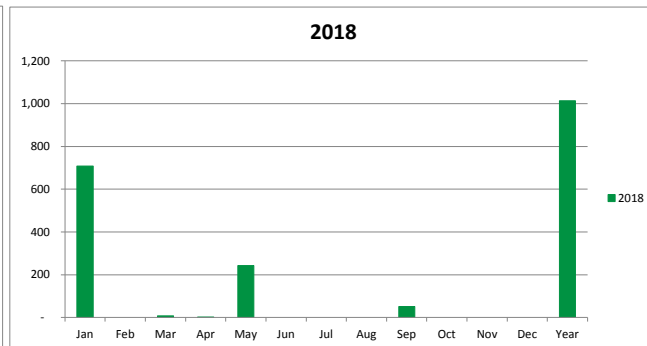
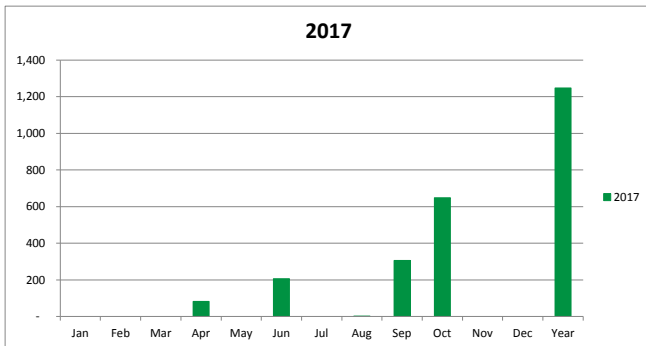
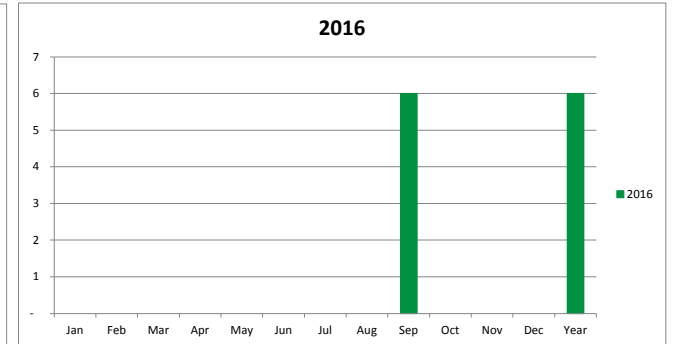
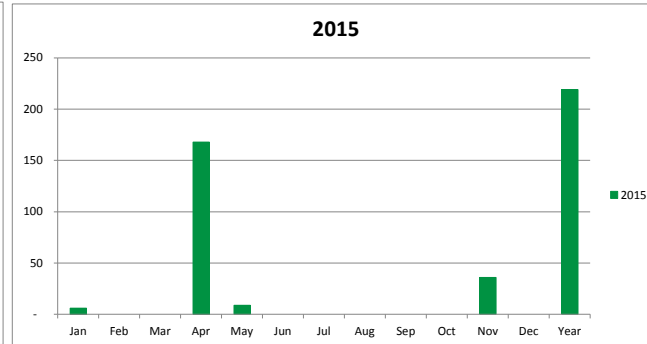
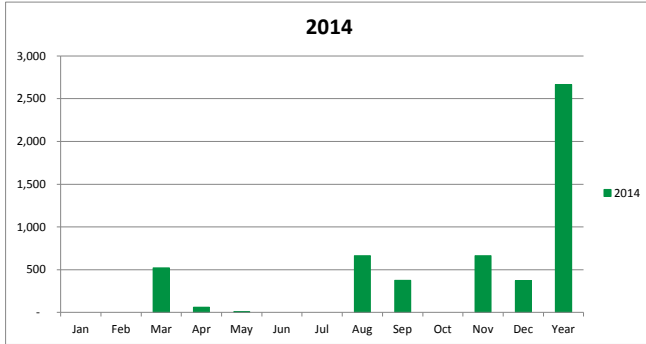
SCHEDULE SDR-17

Unit: Energy Center 1
 Data: Equivalent Forced Outage Rate (%)



Unit: Energy Center 1

Data: Length and timing of planned outages - Scheduled Outage Hours



Data through June, 2019

SCHEDULE SDR-17

Unit: Energy Center 2

Data: Equivalent Availability Factor (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	97.5%	99.8%	29.9%	98.9%	96.3%	12.2%	8.6%	93.7%	100.0%	96.1%	100.0%	95.4%	77.2%
2015	96.3%	95.2%	100.0%	100.0%	98.8%	100.0%	100.0%	95.7%	99.8%	89.1%	100.0%	100.0%	97.9%
2016	100.0%	100.0%	100.0%	100.0%	100.0%	95.3%	68.8%	68.8%	68.8%	64.4%	92.2%	100.0%	88.1%
2017	100.0%	99.0%	92.0%	98.0%	100.0%	70.0%	69.0%	100.0%	82.0%	78.0%	68.0%	99.0%	87.9%
2018	76.0%	94.0%	100.0%	100.0%	68.0%	100.0%	100.0%	100.0%	89.0%	100.0%	100.0%	96.0%	93.5%
2019	100.0%	97.0%	32.0%										

Unit: Energy Center 2

Data: Equivalent Forced Outage Rate (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	97.2%					100.0%	99.3%	74.4%				79.5%	91.4%
2015	30.0%	71.0%							100.0%				27.5%
2016						36.4%							20.6%
2017			1.0%						74.8%	58.7%	67.3%		35.0%
2018	4.5%												2.7%
2019		58.0%											

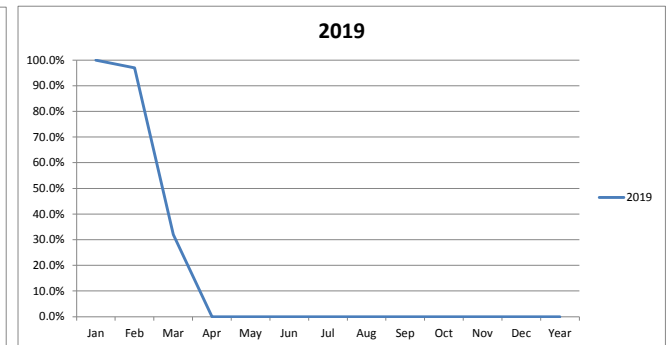
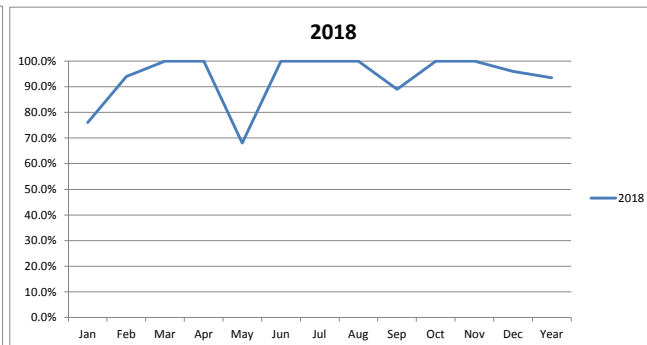
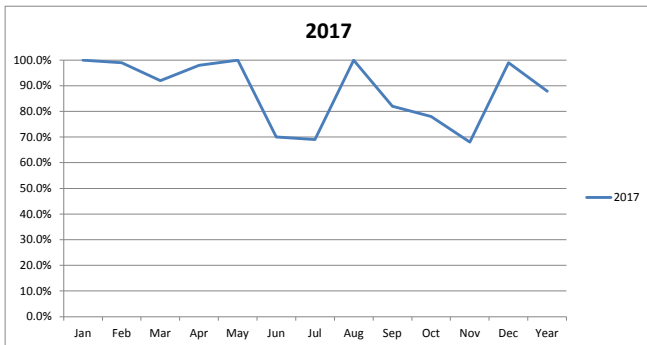
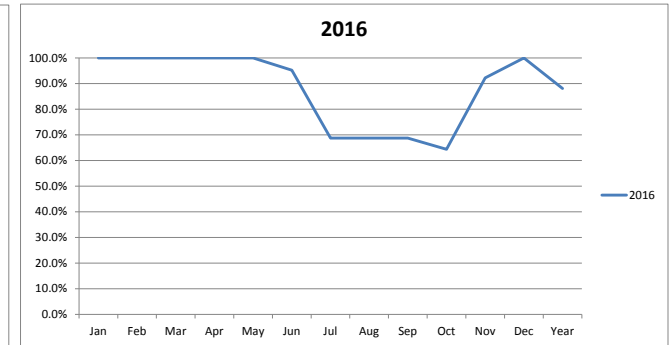
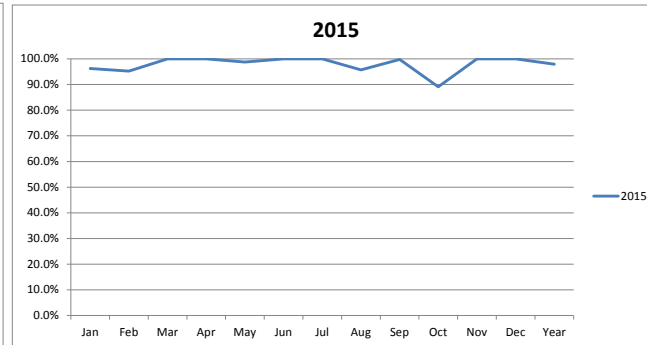
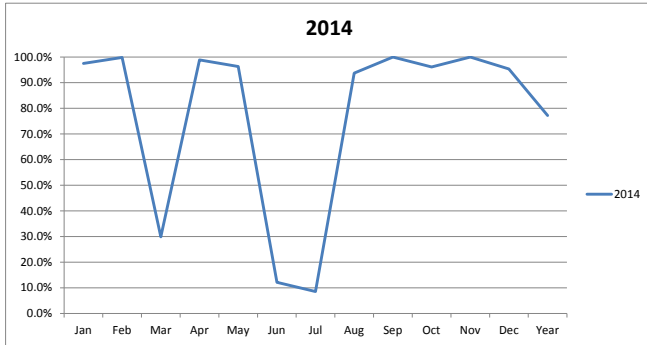
Unit: Energy Center 2

Data: Length and timing of planned outages - Scheduled Outage Hours

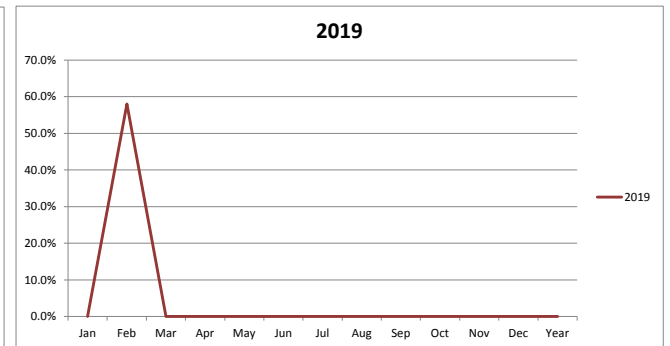
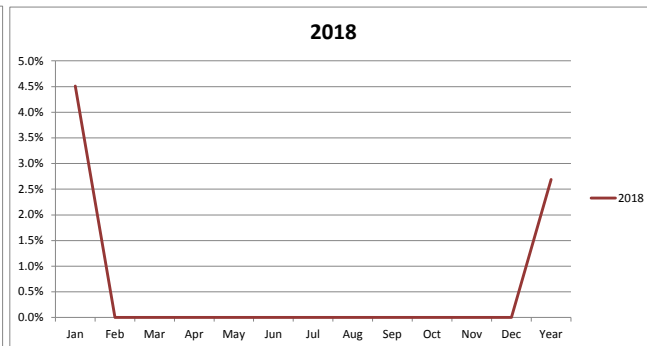
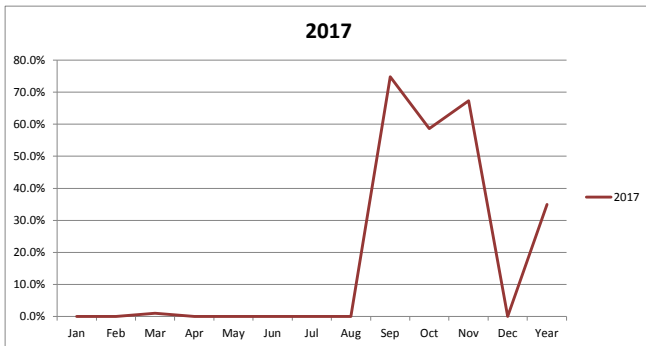
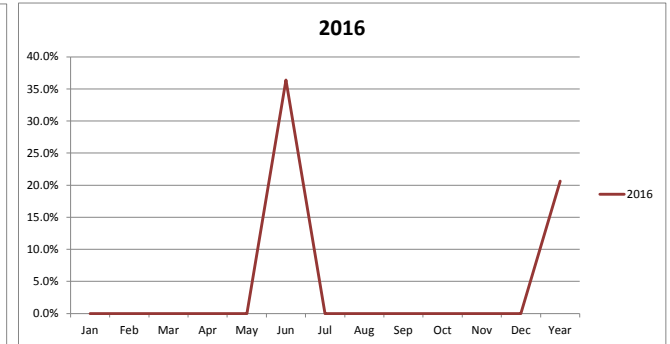
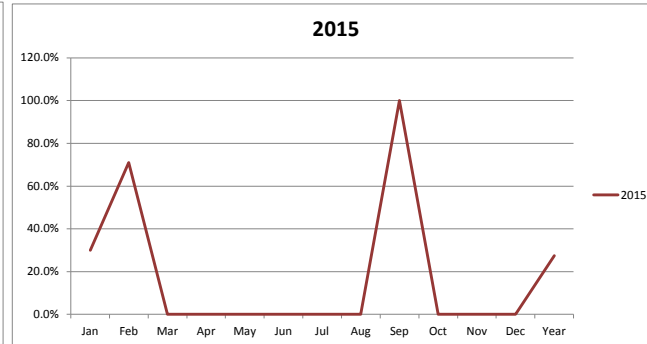
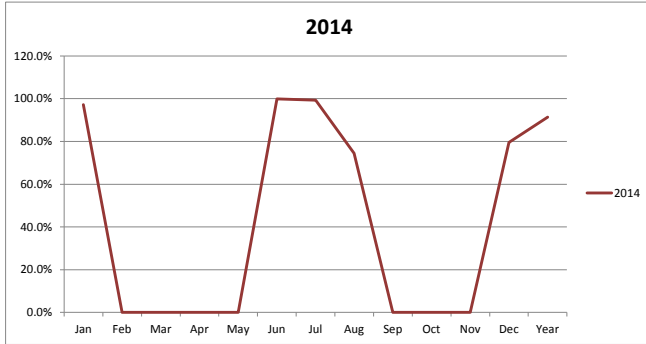
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	2	1	521	8	27	-	-	-	-	29	-	-	588
2015	24	-	-	-	9	-	-	32	-	81	-	-	146
2016	-	-	-	-	-	-	-	-	-	33	9	-	42
2017	-	5	56	12	-	216	232	3	86	-	-	11	621
2018	168	39	-	-	241	-	-	-	82	-	-	30	560
2019	-	-	504	720	744	720							

Data through June, 2019

Unit: Energy Center 2
 Data: Equivalent Availability Factor (%)

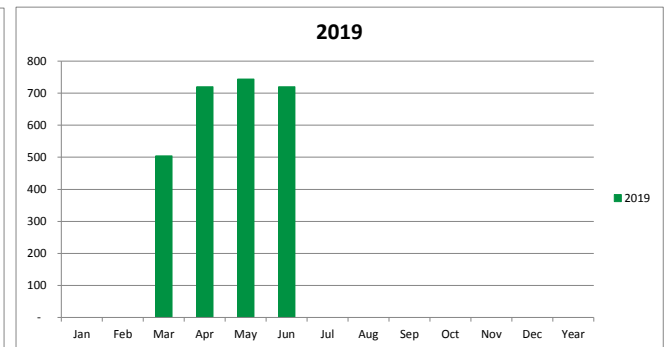
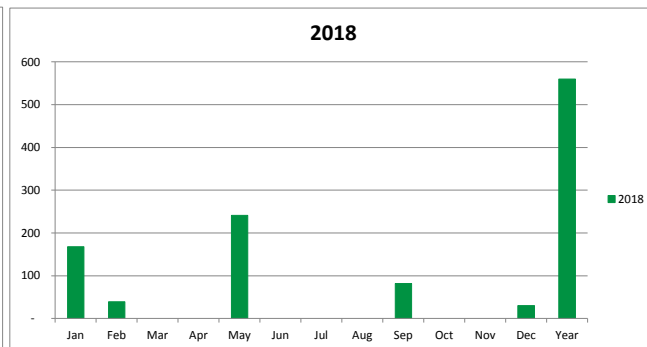
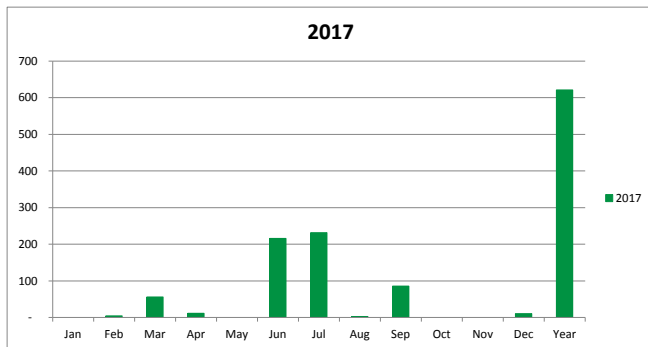
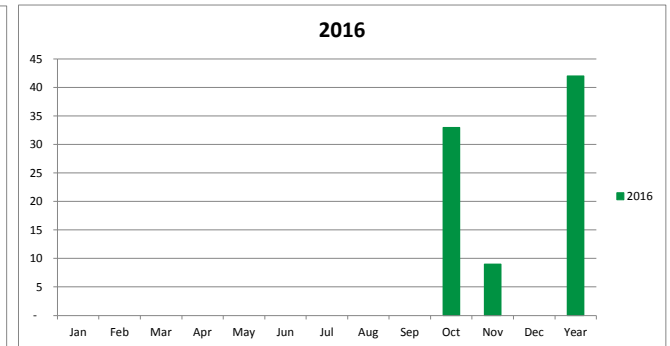
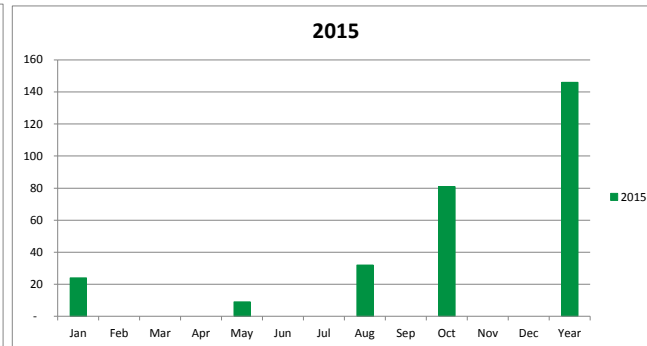
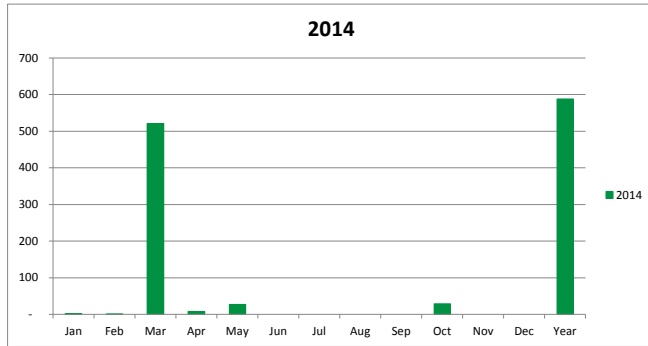


Unit: Energy Center 2
 Data: Equivalent Forced Outage Rate (%)



Unit: Energy Center 2

Data: Length and timing of planned outages - Scheduled Outage Hours



Data through June, 2019

SCHEDULE SDR-17

Unit: Energy Center 3

Data: Equivalent Availability Factor (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	100.0%	98.5%	97.4%	88.6%	97.4%	99.8%	99.9%	99.3%	99.0%	95.1%	99.0%	100.0%	97.8%
2015	100.0%	93.2%	76.2%	99.3%	98.8%	95.1%	92.8%	99.0%	99.6%	89.1%	99.1%	100.0%	95.2%
2016	99.5%	98.4%	100.0%	99.4%	20.8%	100.0%	100.0%	98.4%	90.7%	77.6%	50.1%	50.0%	82.0%
2017	91.0%	100.0%	100.0%	100.0%	93.0%	99.0%	100.0%	99.0%	100.0%	15.0%	20.0%	20.0%	77.9%
2018	76.0%	78.0%	27.0%	62.0%	86.0%	87.0%	87.0%	87.0%	87.0%	79.0%	91.0%	90.0%	78.1%
2019	37.0%	72.0%	90.0%	91.0%	91.0%	91.0%							

Unit: Energy Center 3

Data: Equivalent Forced Outage Rate (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014			2.3%		1.2%					2.8%			0.6%
2015		26.0%				15.0%	22.0%	1.0%			5.0%		6.2%
2016								3.3%		34.3%			6.7%
2017	40.6%							0.5%					43.4%
2018	40.4%	56.2%	90.8%	77.4%	42.9%	29.3%	31.0%	36.9%	44.7%	37.5%	20.9%	41.6%	46.4%
2019	44.0%	45.0%	27.0%	18.0%	13.0%	22.0%							

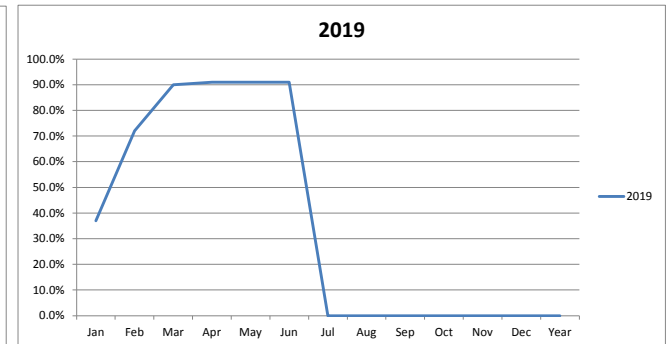
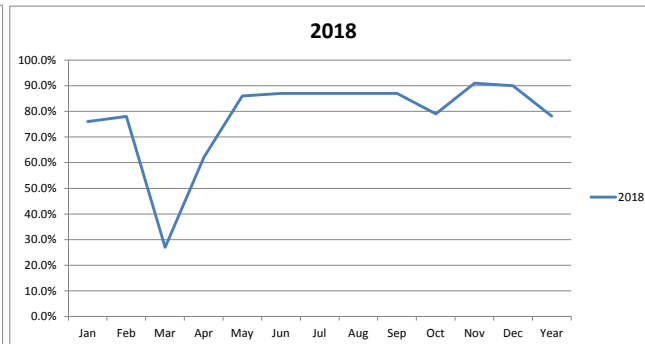
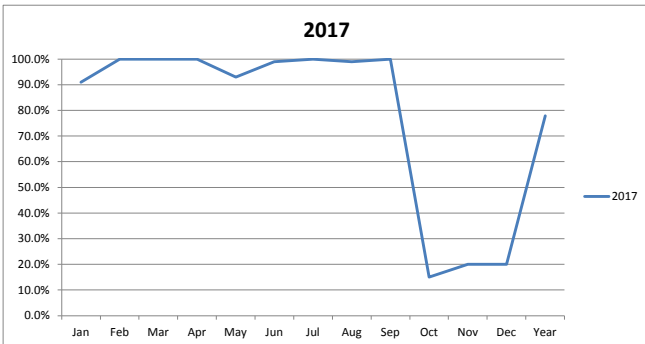
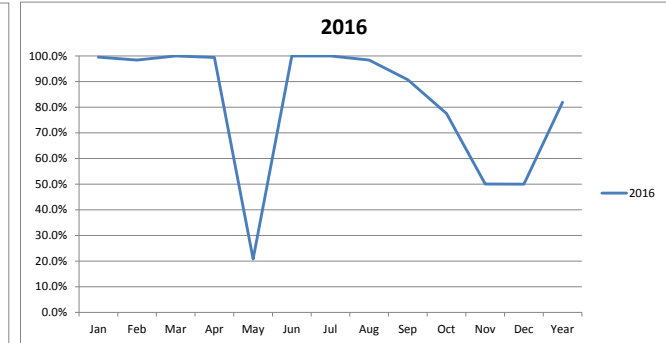
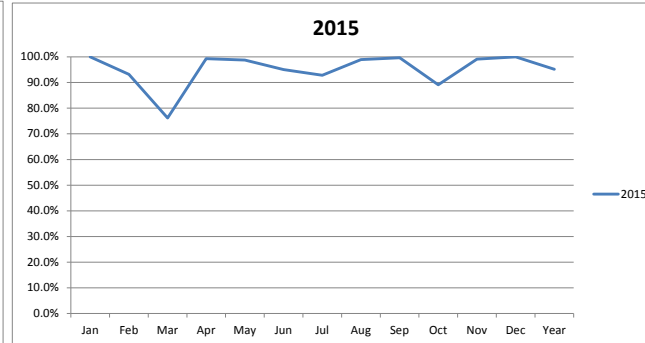
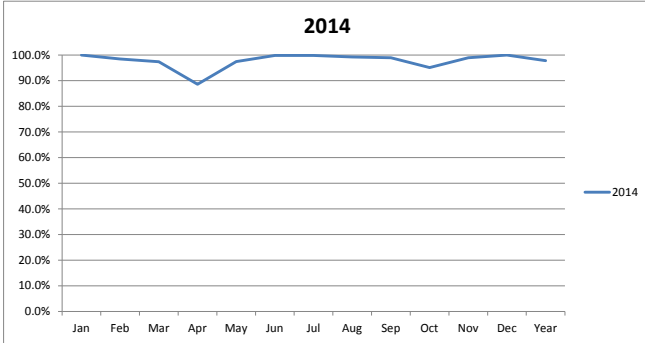
Unit: Energy Center 3

Data: Length and timing of planned outages - Scheduled Outage Hours

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	-	10	17	82	18	1	-	6	8	33	8	-	182
2015	-	3	177	5	9	-	-	7	-	81	5	-	286
2016	-	7	-	4	589	-	-	9	-	18	-	-	627
2017	-	-	-	-	48	7	-	10	-	40	3	-	108
2018	1	5	254	31	7	-	-	-	-	84	-	12	394
2019	444	111	4	-	-	-							

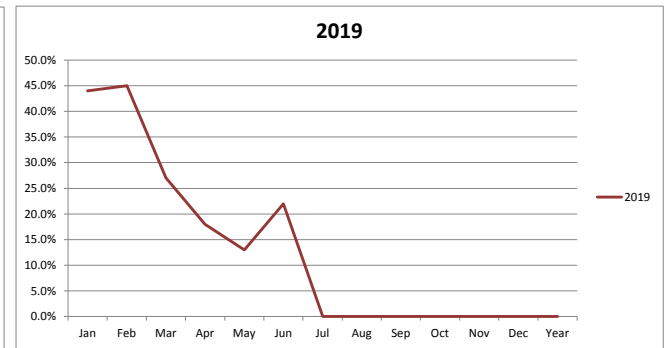
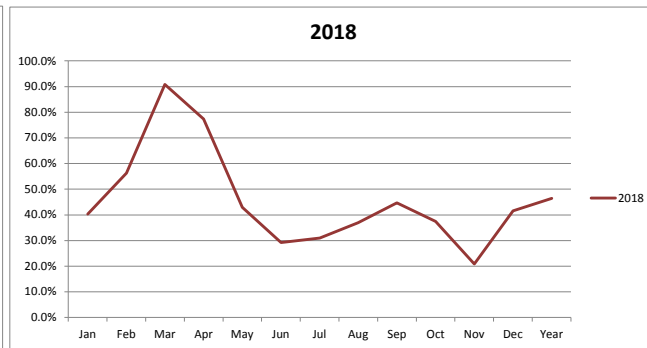
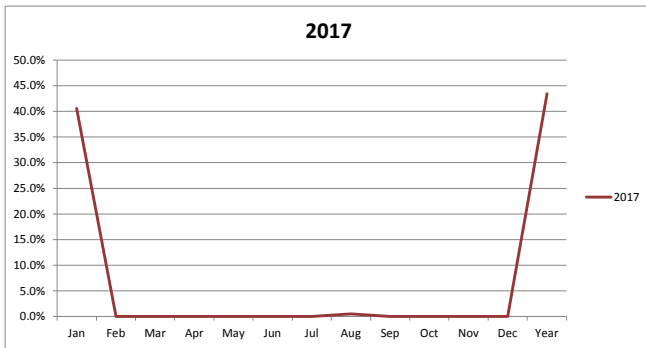
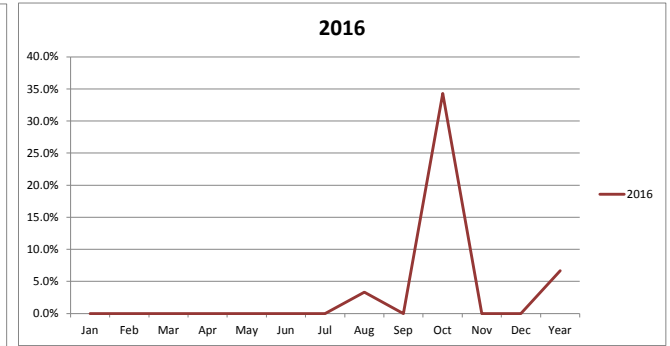
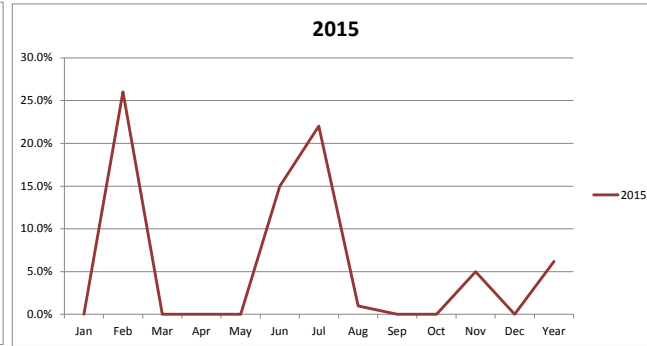
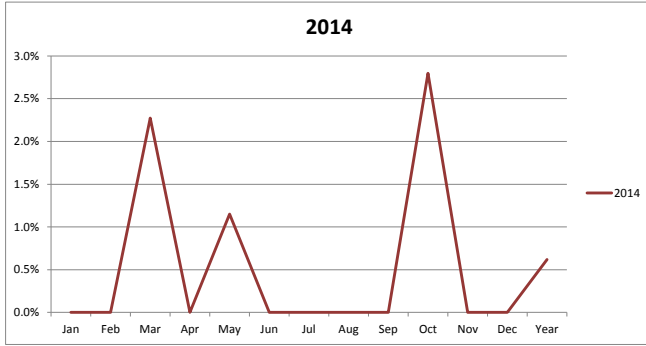
Data through June, 2019

Unit: Energy Center 3
 Data: Equivalent Availability Factor (%)



SCHEDULE SDR-17

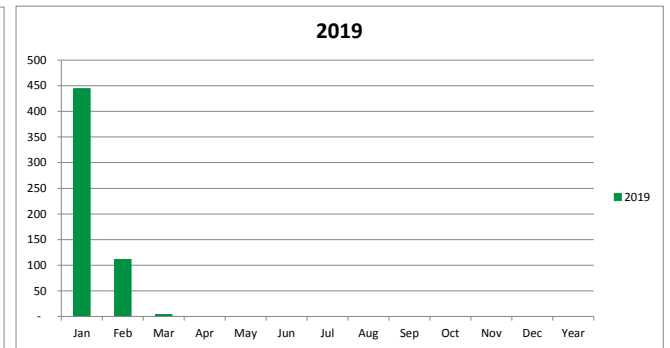
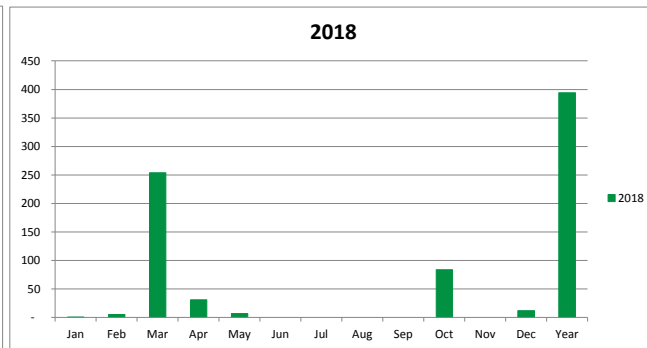
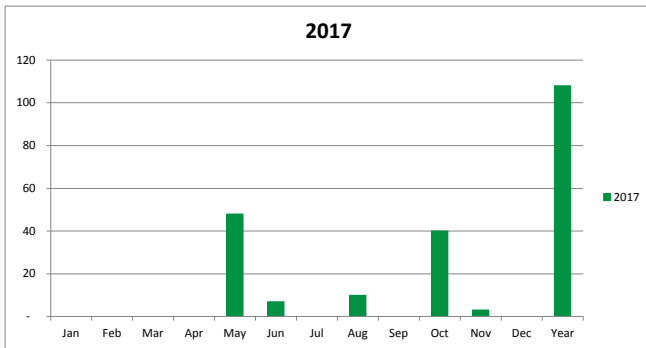
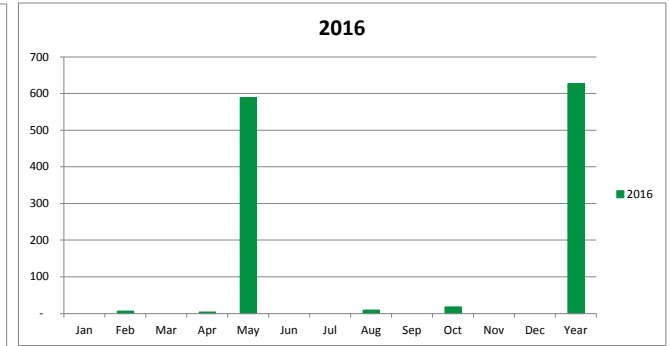
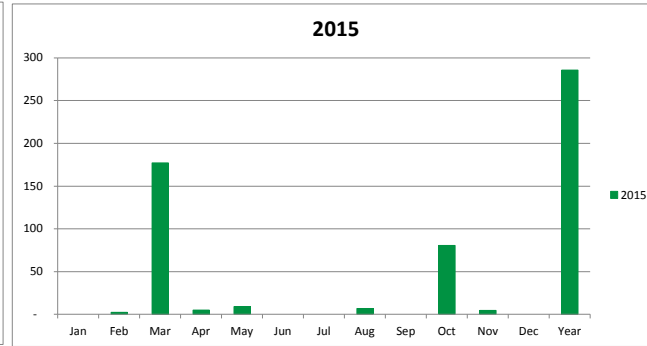
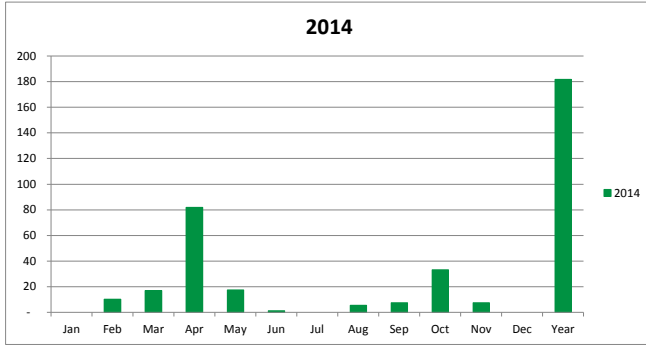
Unit: Energy Center 3
 Data: Equivalent Forced Outage Rate (%)



SCHEDULE SDR-17

Unit: Energy Center 3

Data: Length and timing of planned outages - Scheduled Outage Hours



Data through June, 2019

SCHEDULE SDR-17

Unit: Energy Center 4

Data: Equivalent Availability Factor (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	100.0%	98.9%	100.0%	95.4%	98.5%	100.0%	100.0%	99.5%	99.2%	94.9%	99.3%	100.0%	98.8%
2015	100.0%	98.2%	99.5%	64.4%	45.2%	49.7%	45.5%	51.1%	60.1%	90.9%	98.6%	100.0%	75.2%
2016	99.5%	99.0%	98.9%	99.7%	68.6%	100.0%	100.0%	99.1%	99.0%	89.9%	100.0%	100.0%	96.1%
2017	100.0%	98.0%	94.0%	100.0%	96.0%	99.0%	100.0%	99.0%	100.0%	4.0%	89.0%	28.0%	83.6%
2018	80.0%	82.0%	73.0%	64.0%	41.0%	41.0%	70.0%	83.0%	83.0%	77.0%	72.0%	86.0%	70.9%
2019	87.0%	31.0%	9.0%			53.0%							

Unit: Energy Center 4

Data: Equivalent Forced Outage Rate (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014													0.3%
2015		11.0%			83.0%	73.0%	80.0%	87.0%	78.0%				1.0%
2016										34.0%			5.3%
2017								3.8%			0.8%	1.9%	34.6%
2018	34.4%	49.7%	46.3%	78.3%	87.1%	80.2%	49.6%	45.2%	54.9%	37.6%	48.3%	52.6%	58.0%
2019	51.0%	38.0%	35.0%			58.0%							

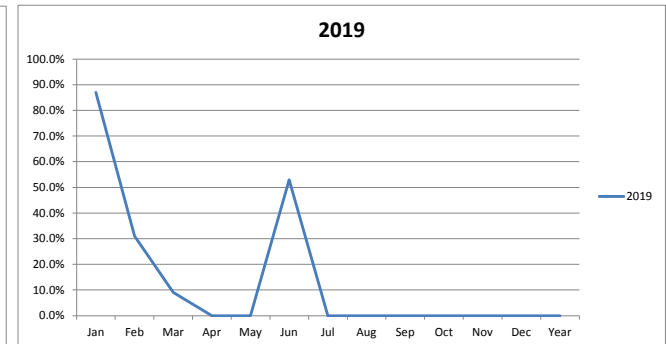
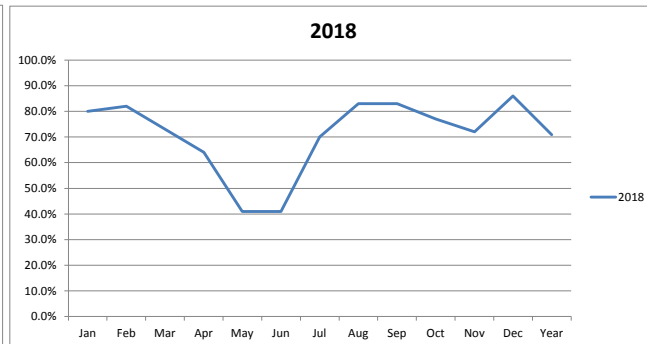
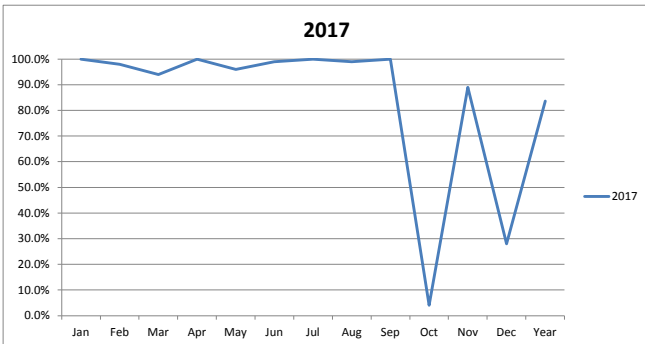
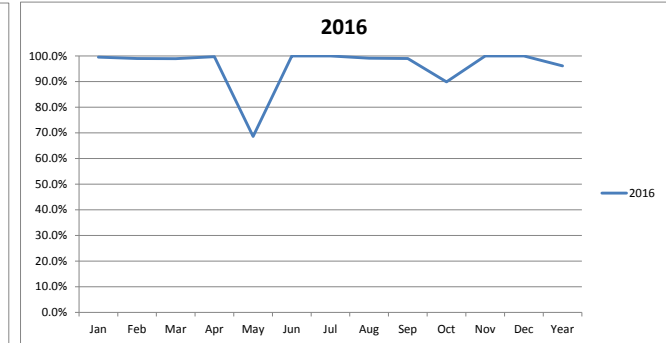
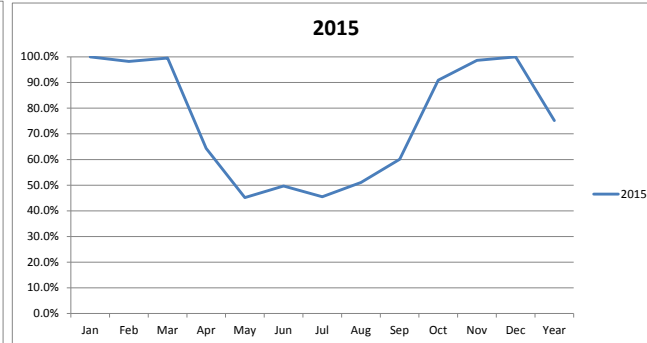
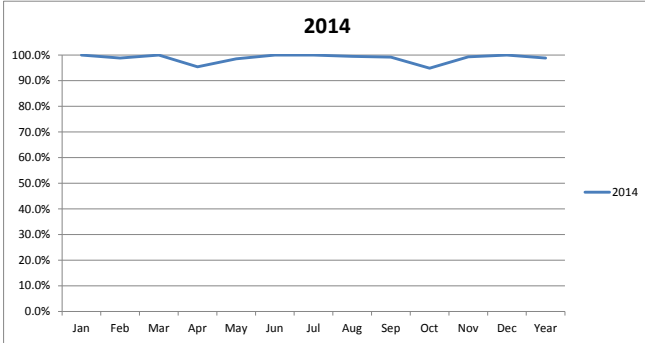
Unit: Energy Center 4

Data: Length and timing of planned outages - Scheduled Outage Hours

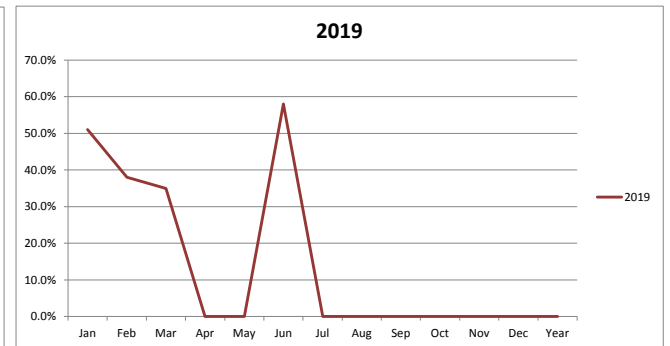
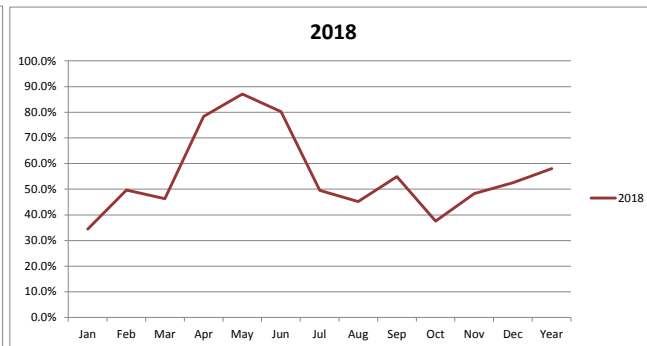
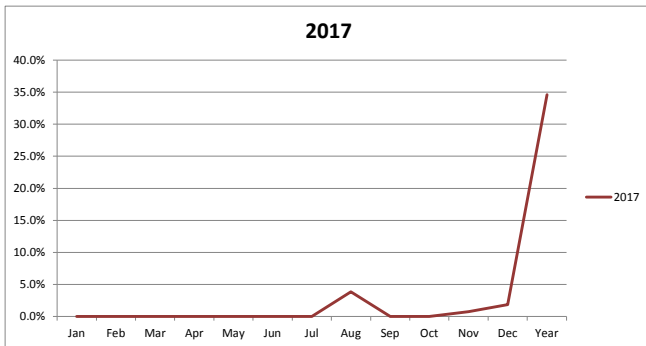
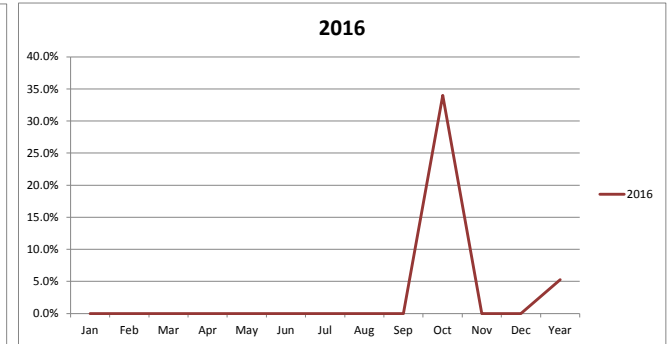
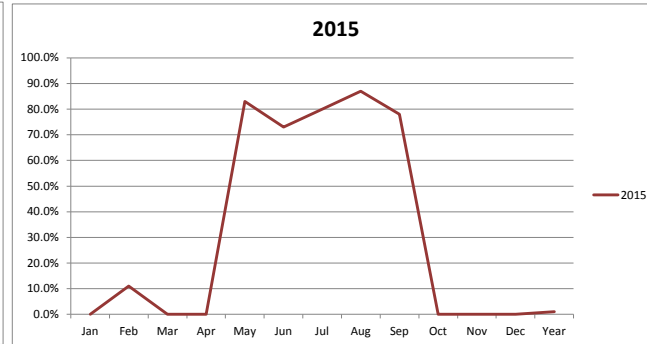
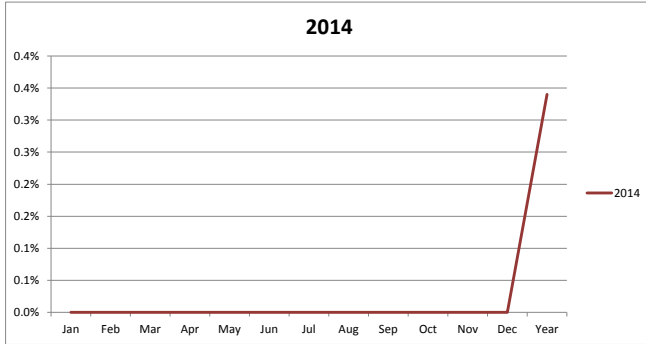
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	-	8	-	33	11	-	-	4	6	33	5	-	100
2015	-	3	3	257	92	3	-	4	33	68	10	-	473
2016	-	-	8	2	234	-	-	7	4	9	-	-	264
2017	-	-	12	-	30	6	-	6	-	94	3	5	156
2018	-	4	87	10	4	-	20	-	-	83	14	5	227
2019	-	436	668	720	744	270							

Data through June, 2019

Unit: Energy Center 4
 Data: Equivalent Availability Factor (%)



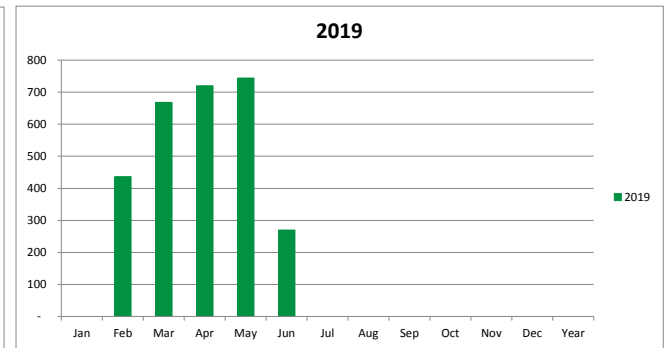
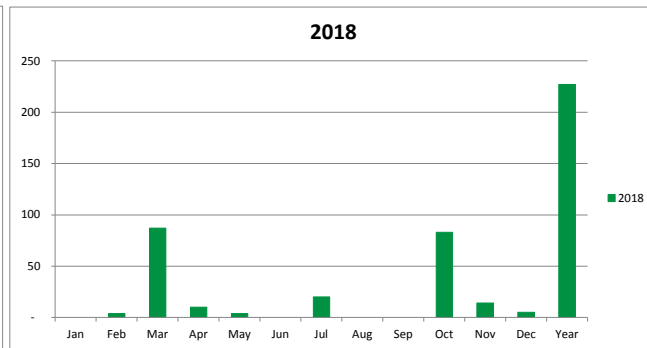
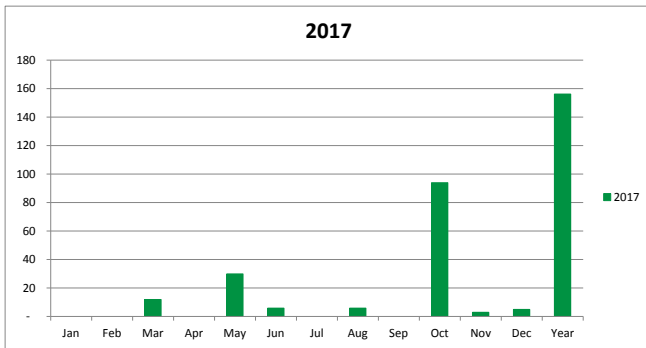
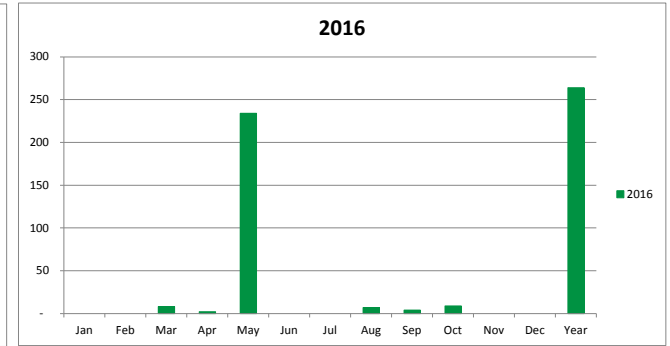
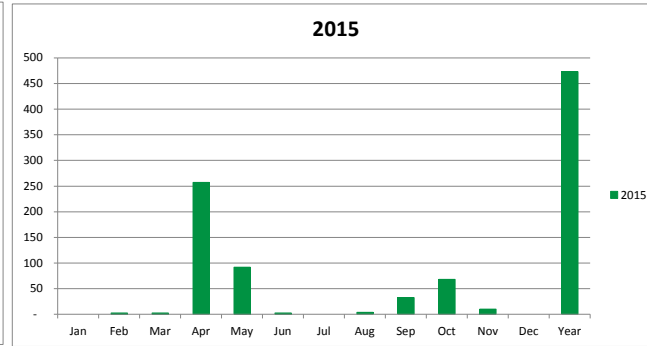
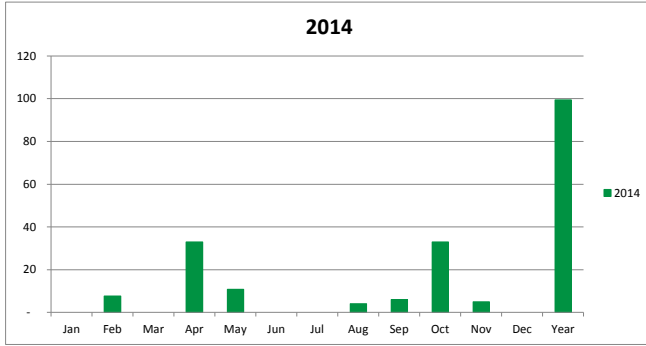
Unit: Energy Center 4
 Data: Equivalent Forced Outage Rate (%)



SCHEDULE SDR-17

Unit: Energy Center 4

Data: Length and timing of planned outages - Scheduled Outage Hours



Data through June, 2019

SCHEDULE SDR-17

Unit: Iatan 1
 Data: Equivalent Availability Factor (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	48.5%	54.4%	76.6%	99.3%	98.3%	77.9%	94.1%	98.6%	92.4%	69.4%	77.9%	97.2%	82.3%
2015	92.9%	85.6%			55.3%	96.1%	92.5%	82.3%	99.7%	72.6%	53.3%	70.8%	66.7%
2016	88.2%	99.8%	99.6%	68.1%	94.2%	99.9%	99.9%	74.2%	98.9%	92.2%	100.0%	98.2%	92.8%
2017	98.0%	86.0%	99.0%	99.0%	93.0%	99.0%	99.0%	100.0%	84.0%	14.0%	1.0%	72.0%	78.8%
2018	72.0%	99.0%	98.0%	100.0%	100.0%	100.0%	96.0%	97.0%	69.0%	33.0%	68.0%	2.0%	77.6%
2019	74.0%	79.0%	68.0%	70.0%	89.0%	99.0%							

Unit: Iatan 1
 Data: Equivalent Forced Outage Rate (%)

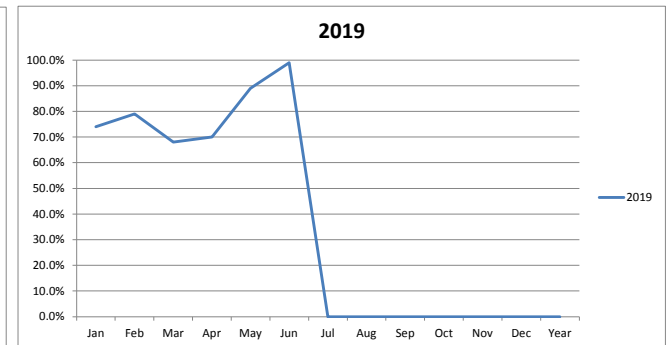
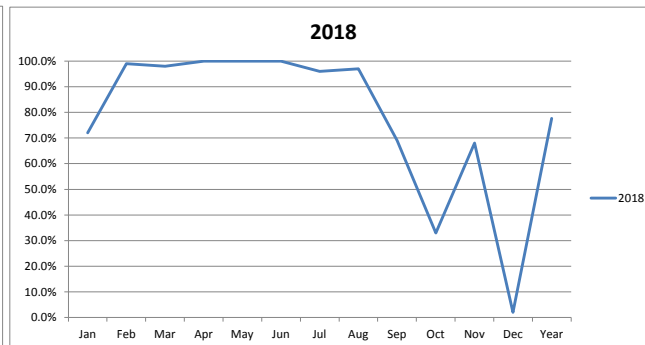
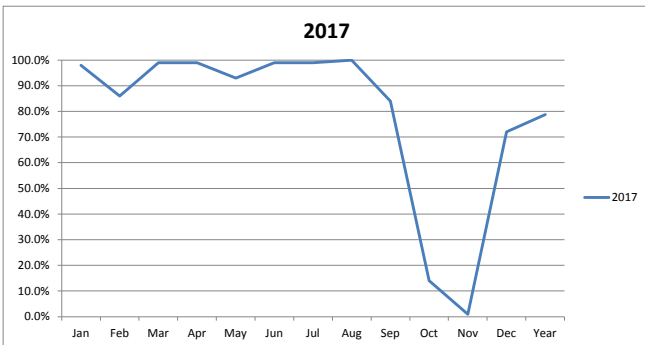
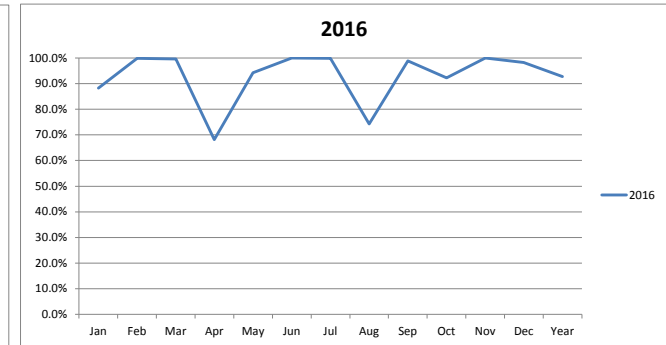
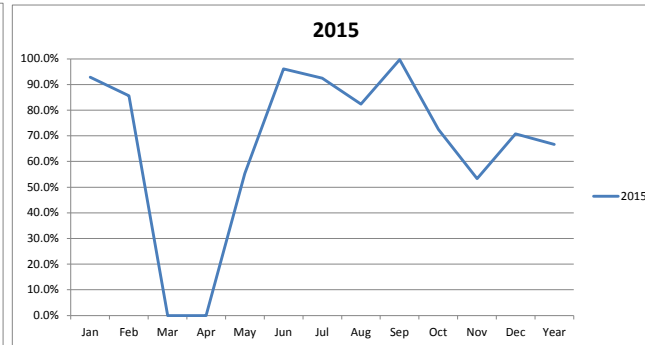
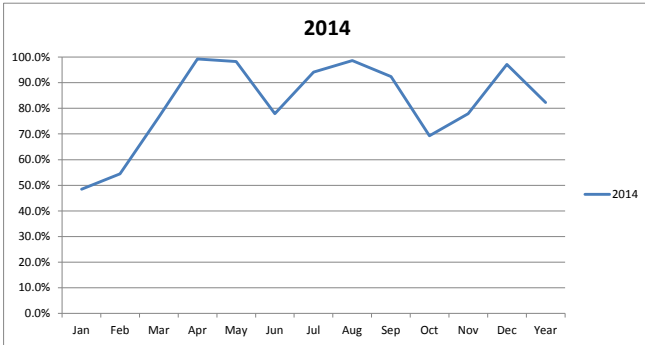
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	50.1%	43.6%	23.6%	0.0%	1.7%	21.1%	0.0%	1.2%	5.0%	1.2%	17.7%	2.0%	15.3%
2015	7.0%	10.0%			43.0%	4.0%	6.0%	17.0%		15.0%	47.0%	25.0%	14.2%
2016	6.2%				1.4%			25.8%					2.9%
2017		12.0%			4.1%				15.2%	27.9%	88.6%	3.2%	8.0%
2018	19.5%	0.7%	1.6%				3.6%	3.2%	20.8%	67.6%	25.9%	97.4%	20.3%
2019	22.0%	21.0%	32.0%	30.0%	11.0%	2.0%							

Unit: Iatan 1
 Data: Length and timing of planned outages - Scheduled Outage Hours

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	-	1	-	-	-	-	-	-	-	200	-	-	202
2015	-	24	743	720	-	-	-	-	-	111	-	-	1,598
2016	-	-	-	227	-	-	-	-	-	-	-	-	227
2017	-	-	-	-	-	-	-	-	-	599	629	-	1,228
2018	42	-	-	-	-	-	-	-	89	-	-	-	131
2019	-	-	-	-	-	-							

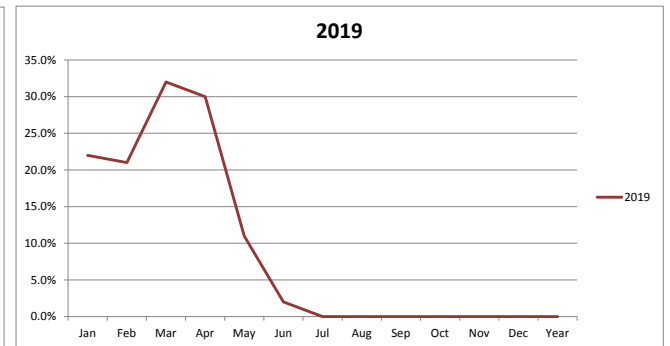
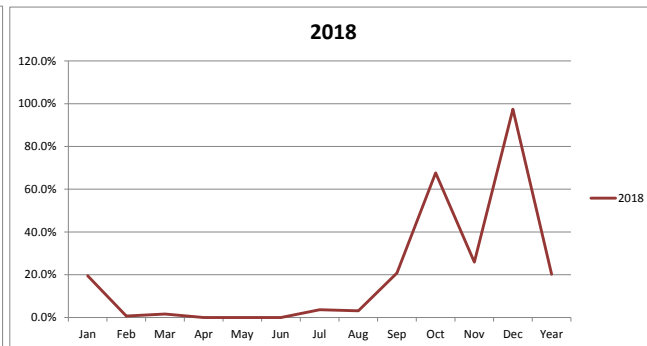
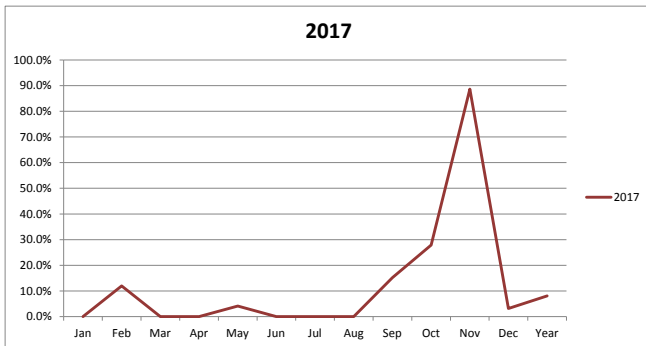
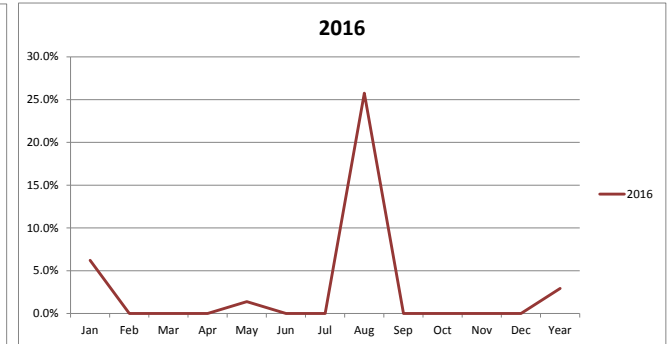
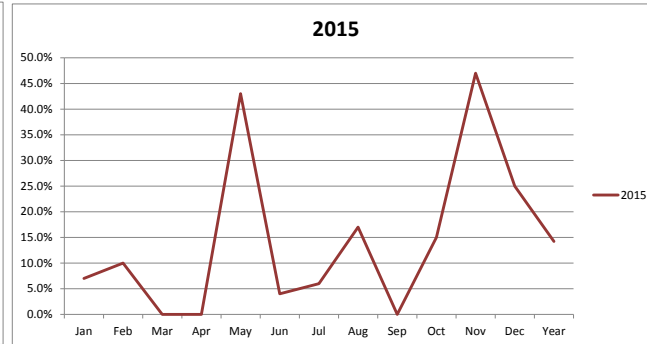
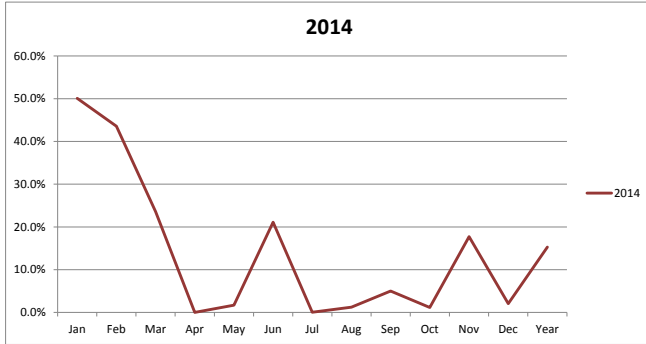
Data through June, 2019

Unit: Iatan 1
 Data: Equivalent Availability Factor (%)



SCHEDULE SDR-17

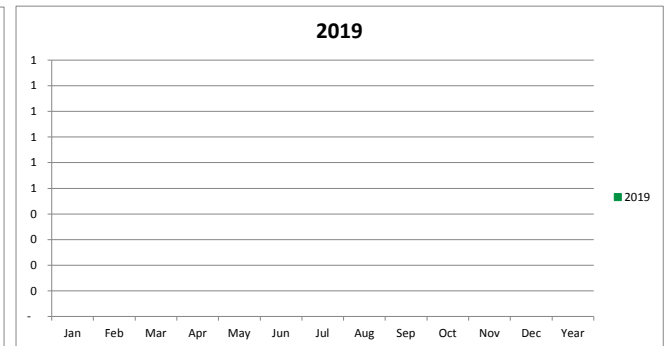
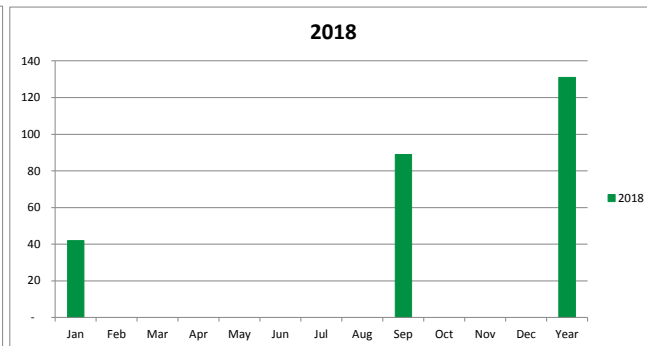
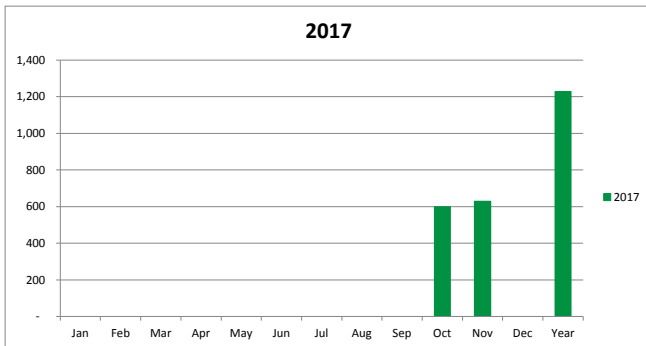
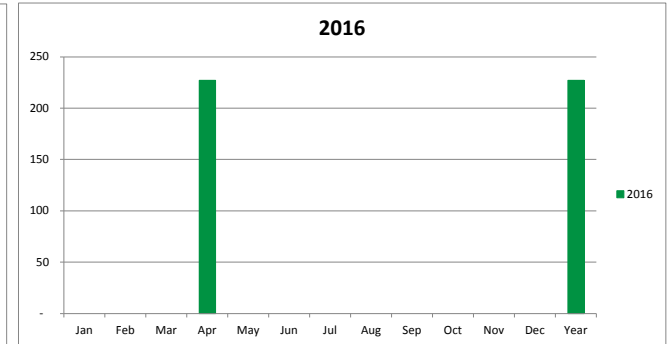
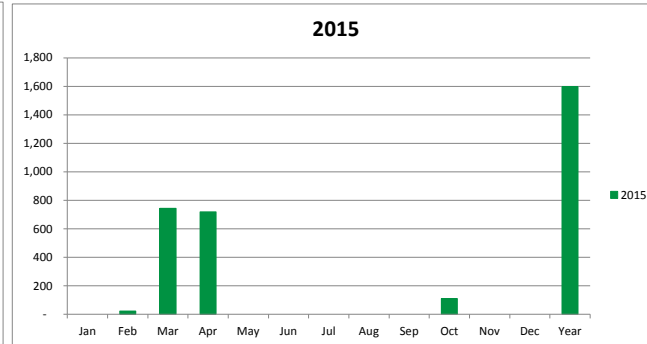
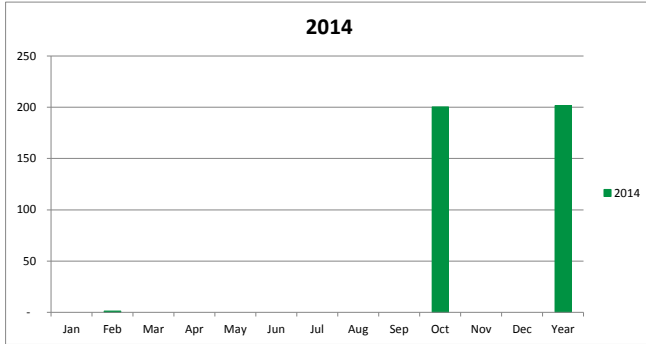
Unit: Iatan 1
 Data: Equivalent Forced Outage Rate (%)



SCHEDULE SDR-17

Unit: Iatan 1

Data: Length and timing of planned outages - Scheduled Outage Hours



Data through June, 2019

SCHEDULE SDR-17

Unit: Iatan 2
 Data: Equivalent Availability Factor (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	99.5%	99.6%	99.8%	57.3%	49.8%	83.8%	70.4%	98.5%	63.6%		10.1%	70.0%	66.7%
2015	74.7%	85.8%	100.0%	99.7%	47.0%	83.6%	41.6%	96.5%	96.5%	96.3%	59.6%	100.0%	81.7%
2016	81.2%	29.2%	99.6%	84.8%	82.7%	100.0%	100.0%	100.0%	85.9%		1.9%	41.0%	67.4%
2017	100.0%	86.0%	98.0%	99.0%	99.0%	100.0%	99.0%	100.0%	100.0%	99.0%	100.0%	75.0%	96.4%
2018	90.0%	79.0%	6.0%			4.0%	68.0%	100.0%	100.0%	100.0%	51.0%	100.0%	58.2%
2019	98.0%	95.0%	91.0%	39.0%		74.0%							

Unit: Iatan 2
 Data: Equivalent Forced Outage Rate (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	0.5%				43.3%	11.9%	10.9%	1.5%			82.4%	29.3%	16.1%
2015	25.0%	14.0%			43.0%	16.0%	57.0%	3.0%	3.0%	4.0%	40.0%		15.6%
2016	18.8%	69.0%		14.9%	16.5%				14.1%	100.0%	96.0%	57.0%	24.1%
2017		13.8%	1.5%							0.7%		23.6%	3.6%
2018	9.6%	20.5%				89.2%	31.6%				13.7%		15.8%
2019	2.0%	5.0%	8.0%	21.0%		28.0%							

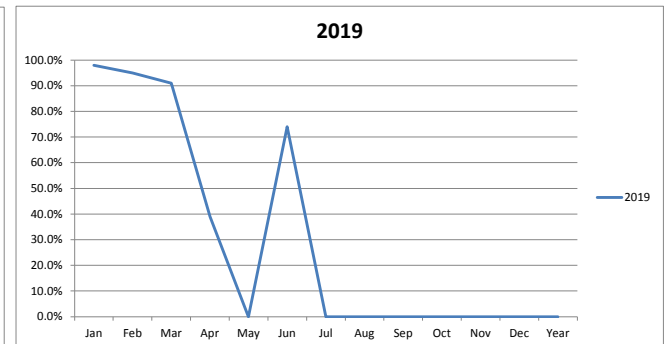
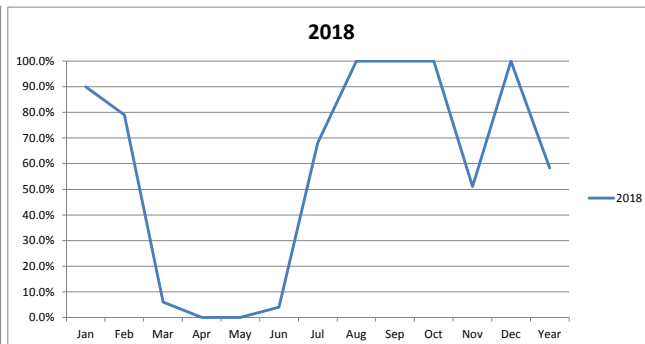
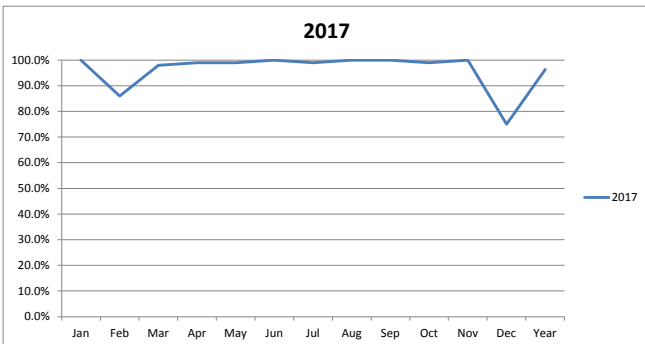
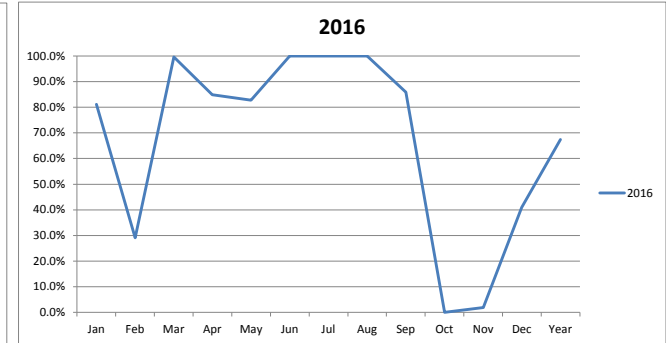
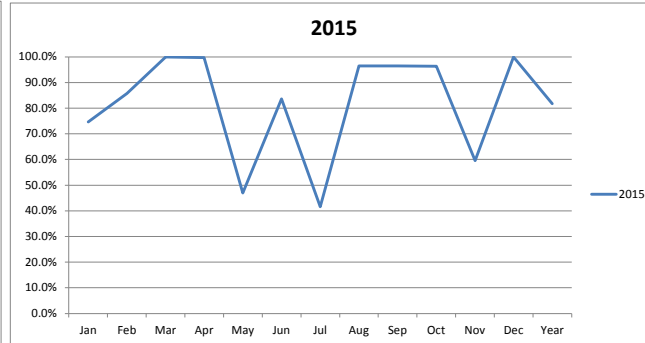
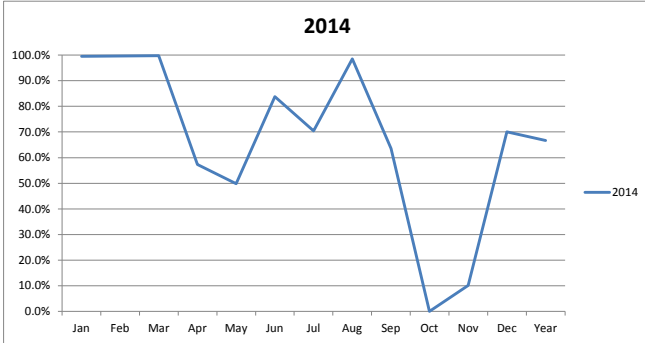
Unit: Iatan 2
 Data: Length and timing of planned outages - Scheduled Outage Hours

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	-	-	-	308	106	-	96	-	262	744	252	-	1,768
2015	-	-	-	-	132	-	-	-	-	-	-	-	132
2016	-	-	-	-	-	-	-	-	-	696	232	-	928
2017	-	-	-	-	-	-	-	-	-	-	-	-	-
2018	-	-	700	720	744	234	-	-	-	-	296	-	2,694
2019	-	-	-	353	-	-							

Data through June, 2019

SCHEDULE SDR-17

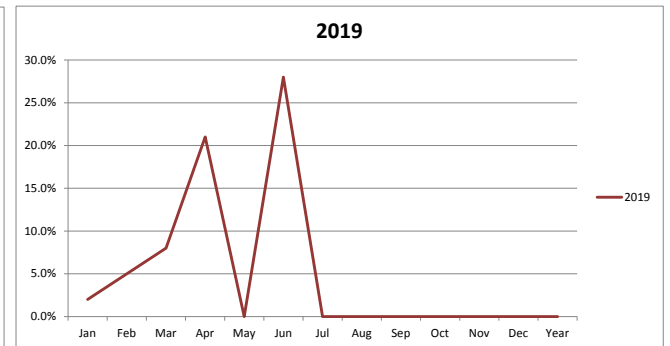
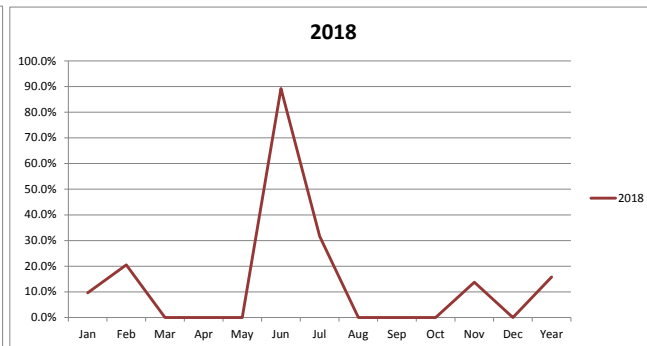
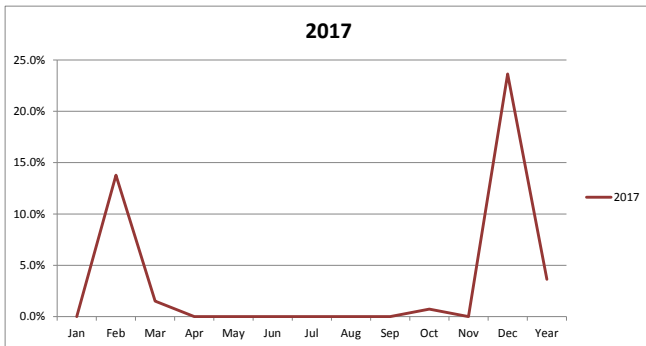
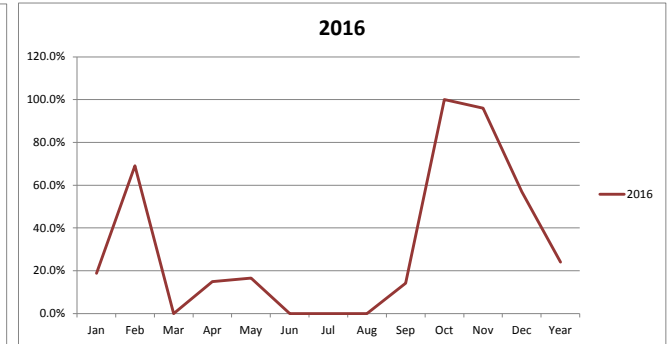
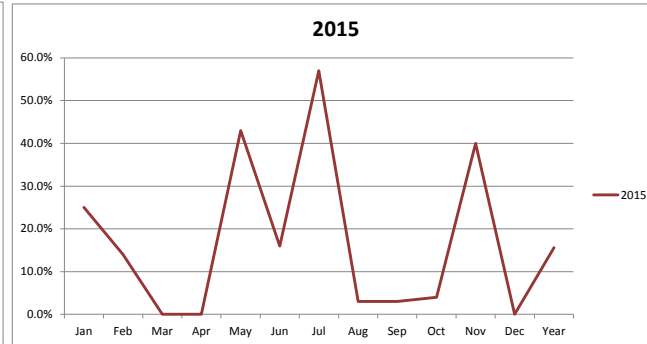
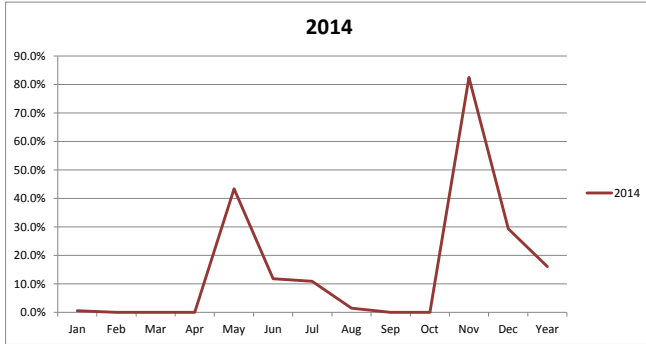
Unit: Iatan 2
 Data: Equivalent Availability Factor (%)



SCHEDULE SDR-17

Unit: Iatan 2

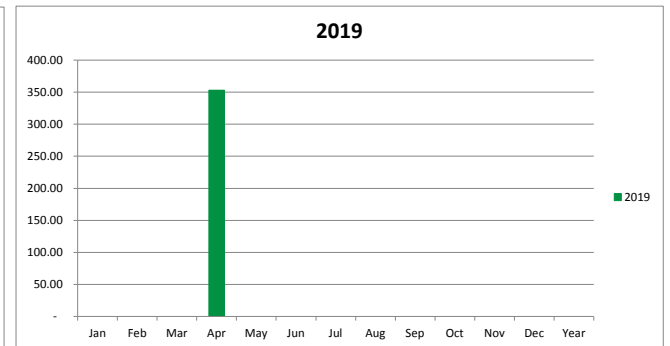
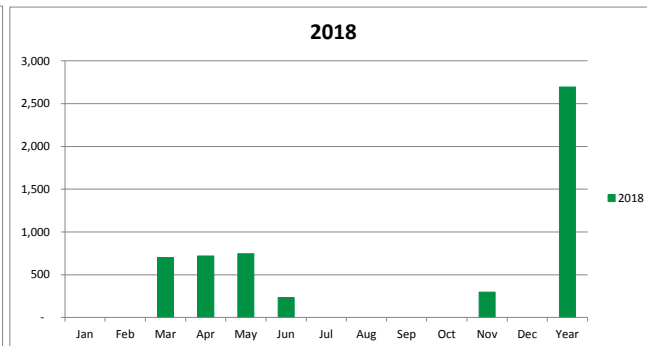
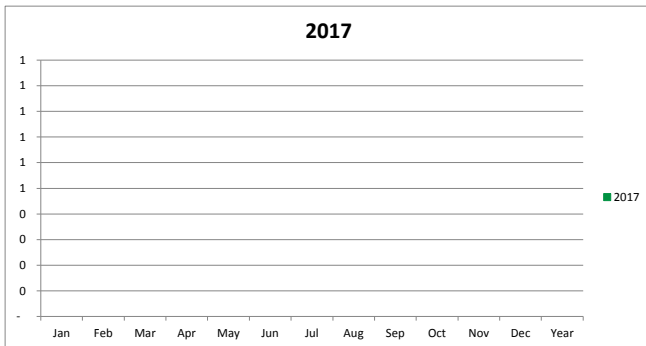
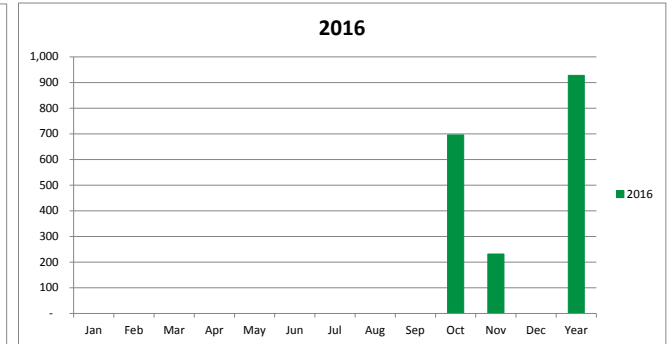
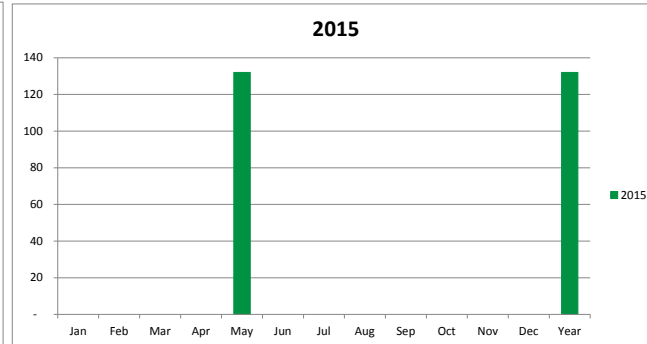
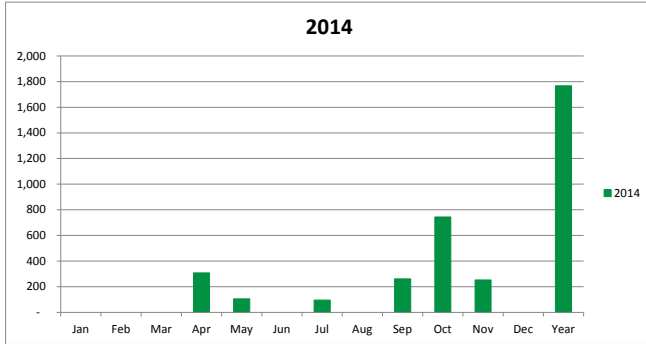
Data: Equivalent Forced Outage Rate (%)



SCHEDULE SDR-17

Unit: Iatan 2

Data: Length and timing of planned outages - Scheduled Outage Hours



Data through June, 2019

SCHEDULE SDR-17

Unit: Ozark Beach

Data: Equivalent Availability Factor (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	88.3%	75.0%	75.0%	75.0%	75.0%	75.0%	100.0%	100.0%	100.0%	100.0%	75.0%	100.0%	88.7%
2015	100.0%	100.0%	99.8%	100.0%	99.4%	65.7%	0.0%	0.0%	39.5%	99.6%	99.8%	84.8%	73.8%
2016	100.0%	100.0%	83.8%	87.7%	94.7%	99.7%	99.8%	100.0%	98.4%	100.0%	70.0%	100.0%	92.1%
2017	99.2%	100.0%	36.7%	100.0%	4.7%	0.0%	0.0%	47.4%	75.0%	74.6%	99.9%	99.7%	61.1%
2018	74.0%	75.0%	75.0%	74.0%	63.0%	77.0%	95.0%	81.0%	100.0%	98.0%	100.0%	100.0%	84.4%
2019	100.0%	100.0%	100.0%	96.0%	50.2%	0.0%							

Unit: Ozark Beach

Data: Equivalent Forced Outage Rate (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	11.8%	30.0%	0.0%	0.0%	32.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	15.0%
2015	0.0%	0.0%	0.0%	0.0%	1.0%	38.0%	100.0%	100.0%	65.0%	1.0%	0.0%	16.0%	34.6%
2016	91.4%	1.4%	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	0.3%	0.3%	0.3%	0.0%	10.8%
2017	3.1%	0.0%	0.0%	0.0%	95.3%	100.0%	100.0%	49.3%	30.1%	40.7%	0.0%	0.4%	47.4%
2018	30.3%	29.8%	0.0%	0.1%	13.8%	28.9%	10.4%	39.0%	0.0%	6.6%	0.0%	0.0%	14.0%
2019	0.0%	0.0%	0.0%	4.0%	48.2%	100.0%							

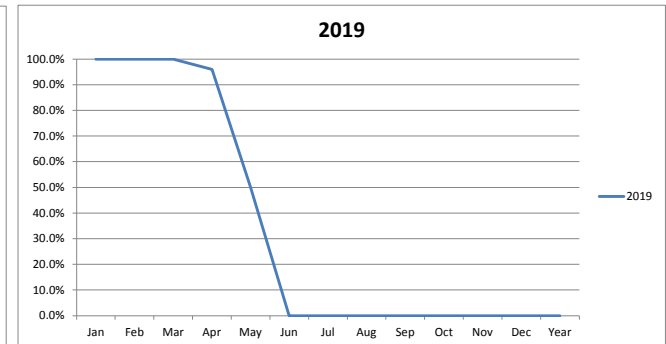
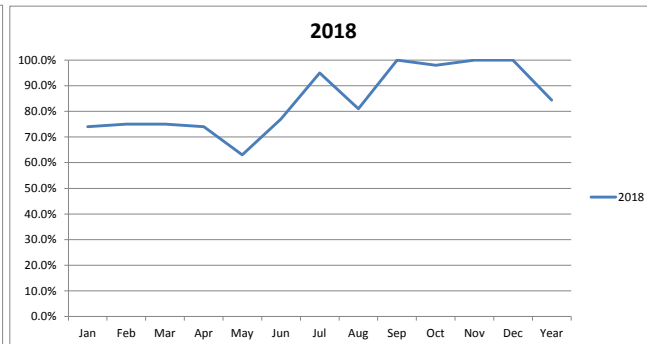
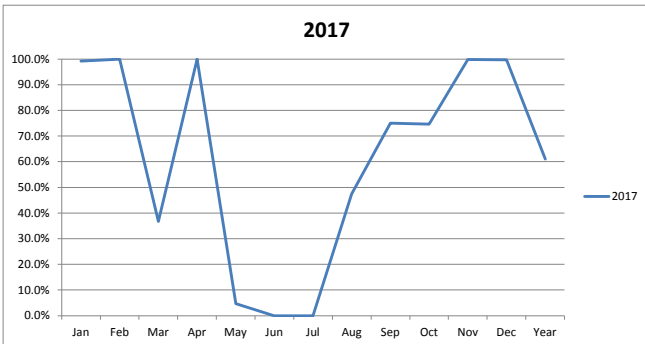
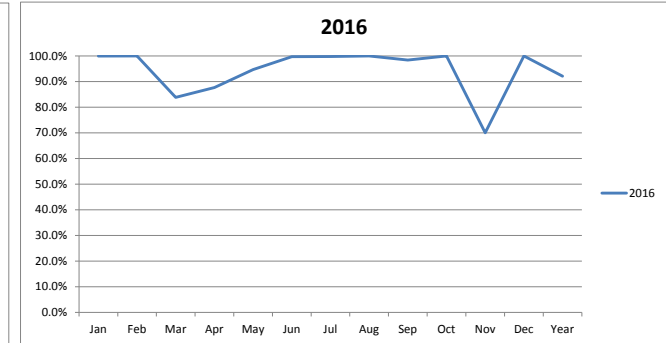
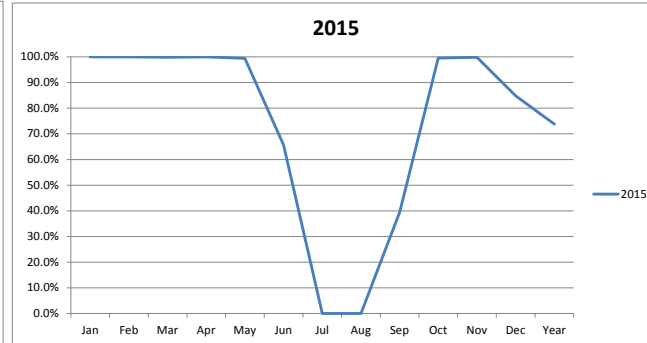
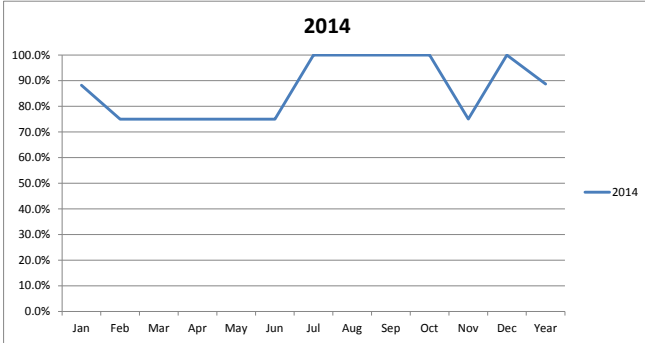
Unit: Ozark Beach

Data: Length and timing of planned outages - Scheduled Outage Hours

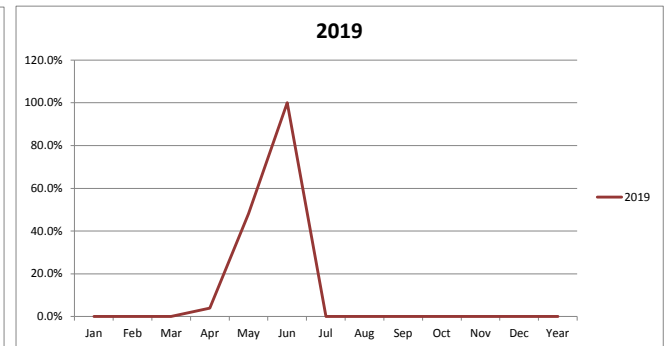
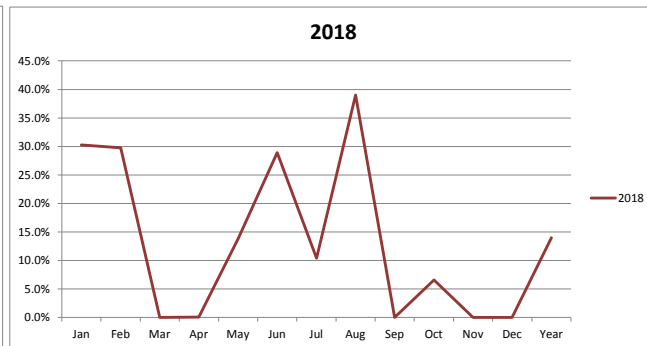
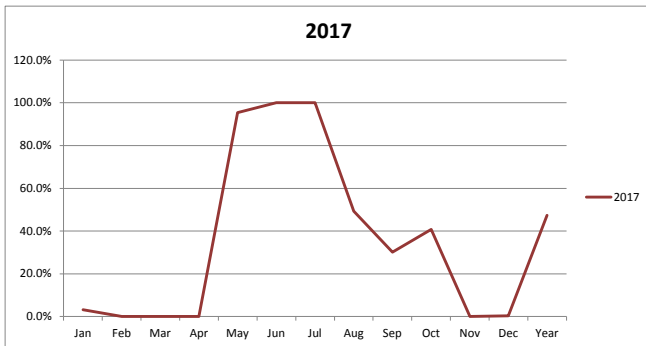
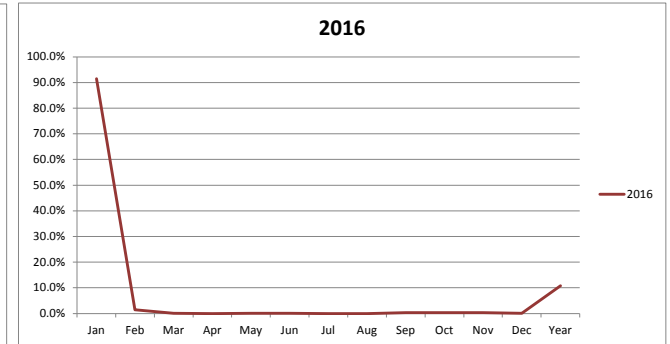
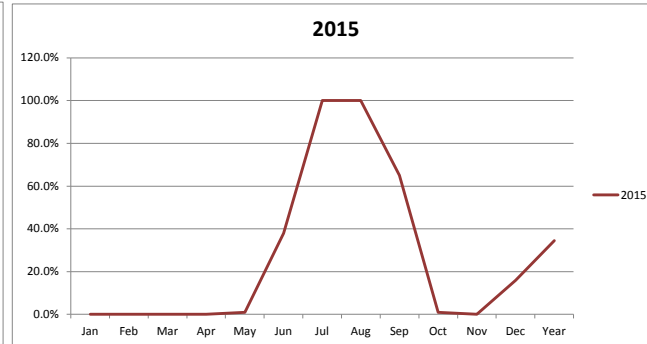
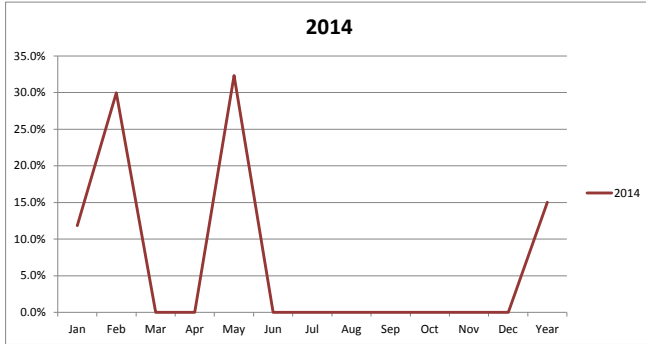
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	-	-	-	288	90	-	-	-	6	-	-	35	418
2015	-	-	-	-	-	-	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-	-	-	3	-	-	3
2018	-	-	-	8	-	-	-	-	-	-	-	-	8
2019	-	-	-	-	2	-							

Data through June, 2019

Unit: Ozark Beach
 Data: Equivalent Availability Factor (%)

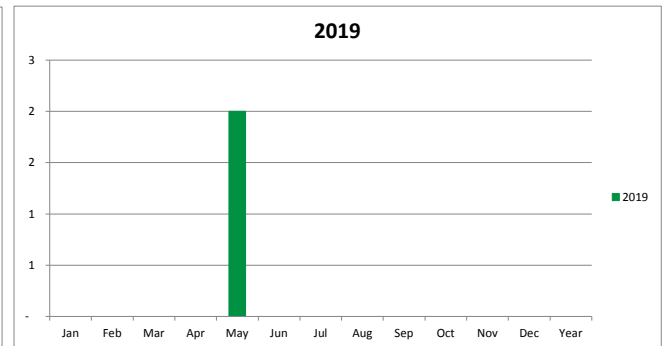
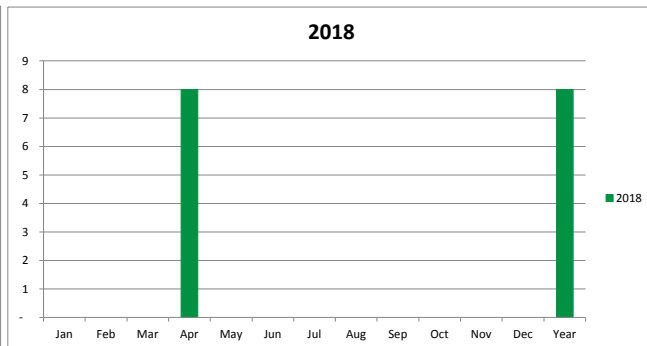
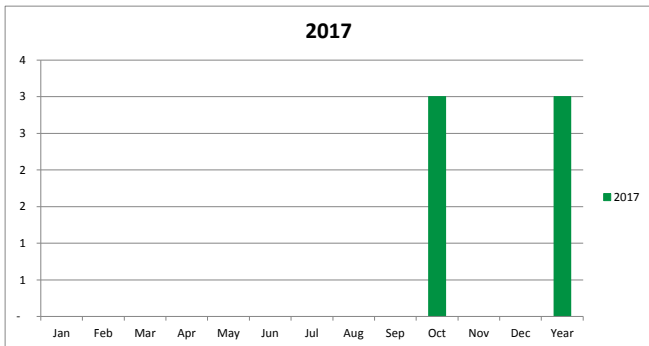
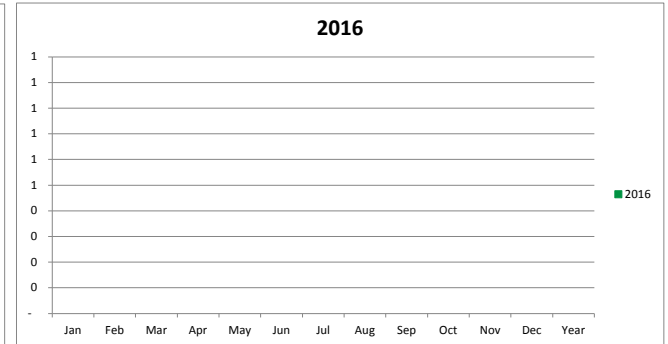
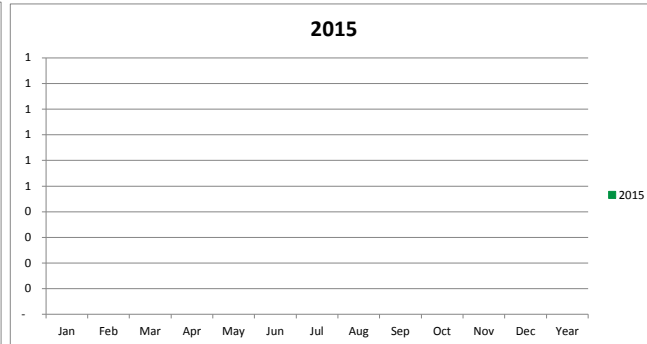
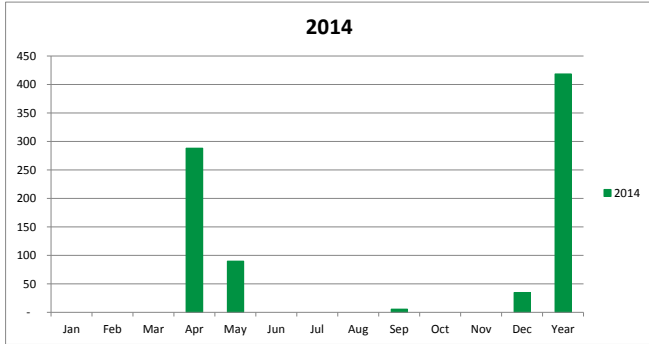


Unit: Ozark Beach
 Data: Equivalent Forced Outage Rate (%)



Unit: Ozark Beach

Data: Length and timing of planned outages - Scheduled Outage Hours



Data through June, 2019

SCHEDULE SDR-17

Unit: Plum Point

Data: Equivalent Availability Factor (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	96.8%	97.6%	98.0%	96.9%	32.9%			78.6%	99.9%	99.3%	79.9%		64.9%
2015	13.1%	100.0%	99.9%	74.7%	81.1%	100.0%	100.0%	100.0%	89.2%	48.1%	70.8%	67.3%	78.5%
2016	99.8%	100.0%	99.9%	73.1%	48.7%	74.8%	100.0%	97.5%	99.1%	99.4%	99.8%	97.7%	90.8%
2017	60.0%	69.0%	4.0%	-	23.0%	89.0%	84.0%	97.0%	100.0%	73.0%	100.0%	100.0%	66.3%
2018	99.0%	100.0%	99.0%	39.0%	99.0%	99.0%	99.0%	83.0%	100.0%	100.0%	100.0%	99.0%	93.1%
2019	53.0%	100.0%	70.0%	5.0%	65.0%	100.0%							

Unit: Plum Point

Data: Equivalent Forced Outage Rate (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	3.1%	2.3%			65.4%	100.0%	100.0%	20.8%			14.6%	100.0%	32.0%
2015	87.0%			1.0%	19.0%				11.0%	7.0%		32.0%	13.5%
2016					26.5%	19.5%							3.5%
2017	38.8%				74.6%	5.9%	14.5%						14.5%
2018	0.8%		0.7%	0.9%		1.2%	1.3%	17.2%				0.6%	2.0%
2019	44.0%		1.0%		4.0%								

Unit: Plum Point

Data: Length and timing of planned outages - Scheduled Outage Hours

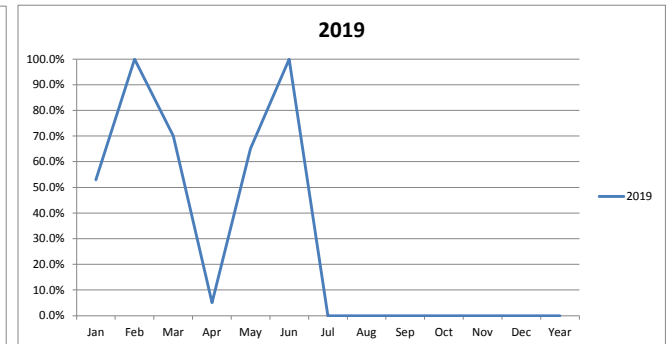
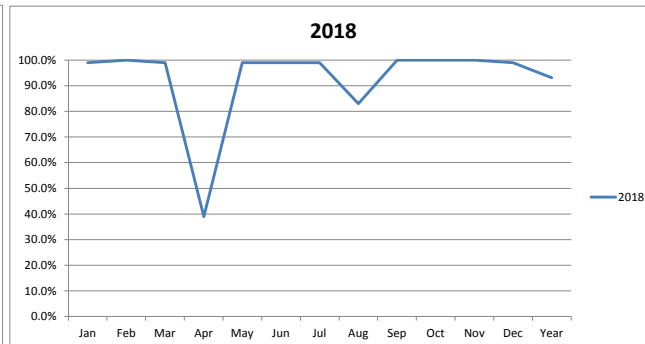
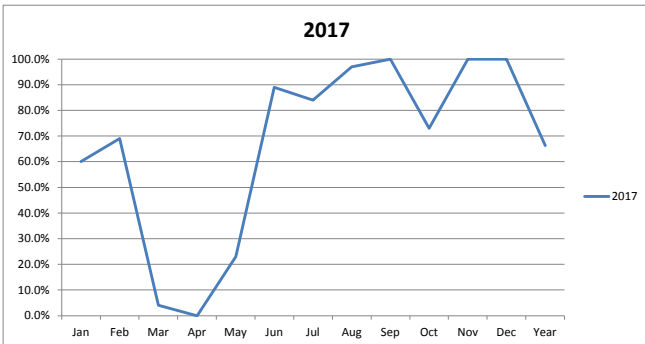
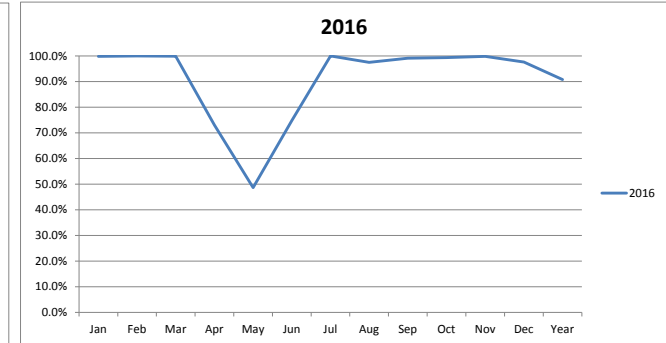
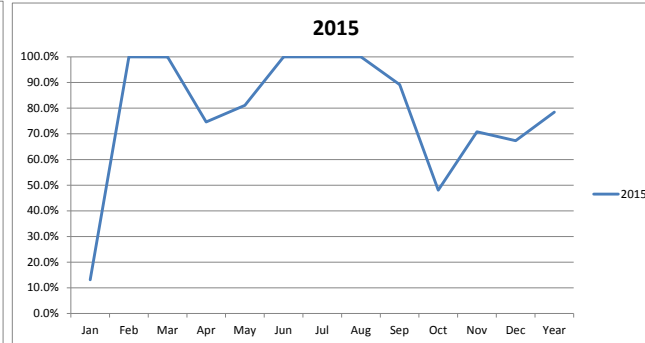
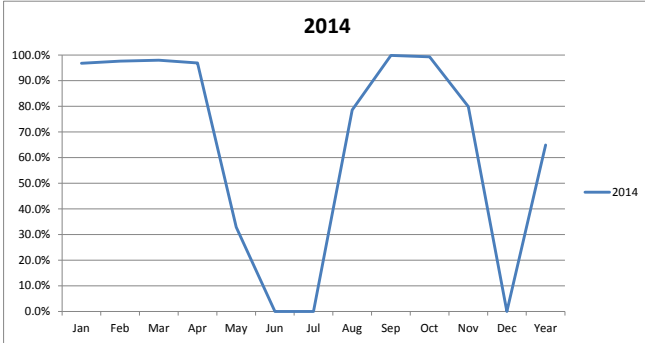
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	-	-	-	-	-	-	-	-	-	-	46	314	360
2015	-	-	-	177	-	-	-	-	-	359	210	-	746
2016	-	-	-	192	68	-	-	-	-	-	-	-	260
2017	-	-	671	720	-	-	-	-	-	155	-	-	1,546
2018	-	-	-	435	-	-	-	-	-	-	-	-	435
2019	-	-	118.00	648.00	239.00	-							

Data through June, 2019

SCHEDULE SDR-17

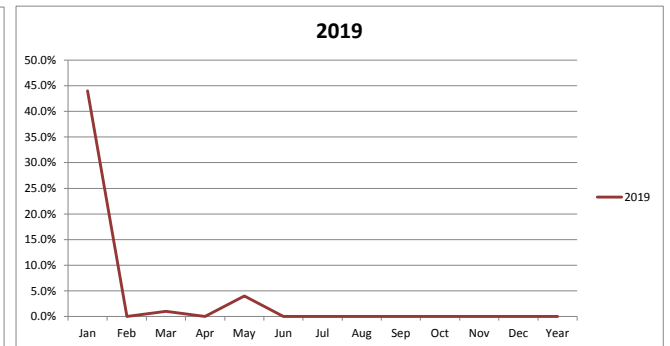
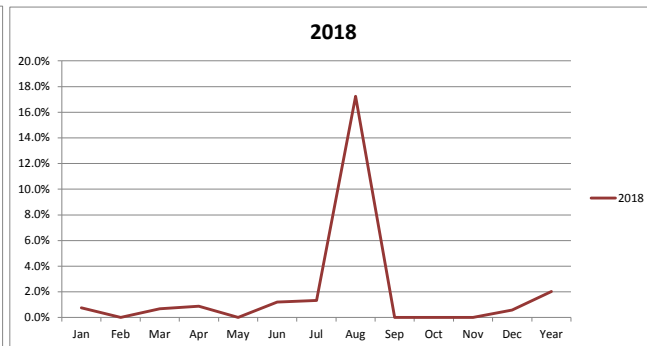
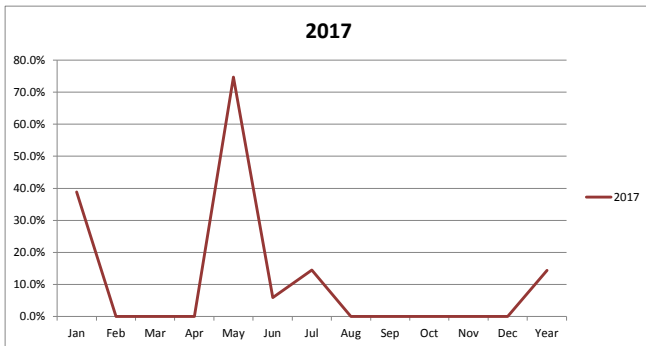
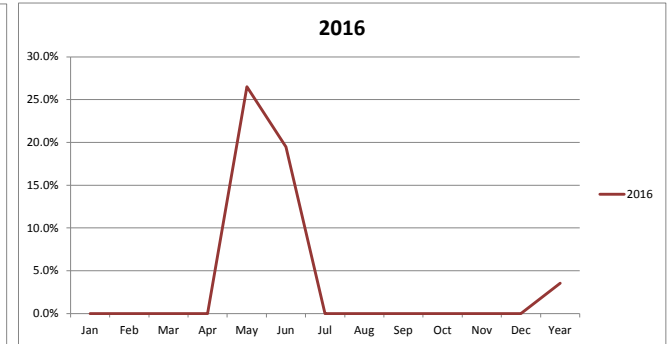
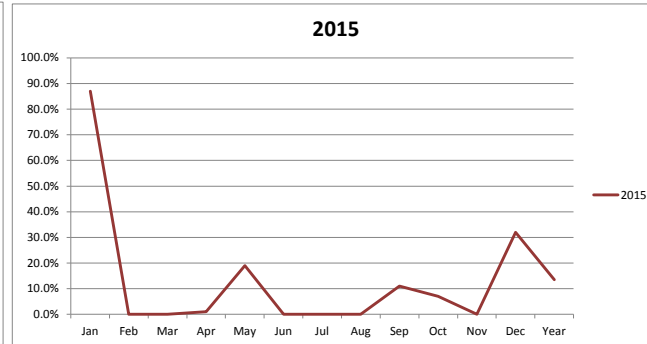
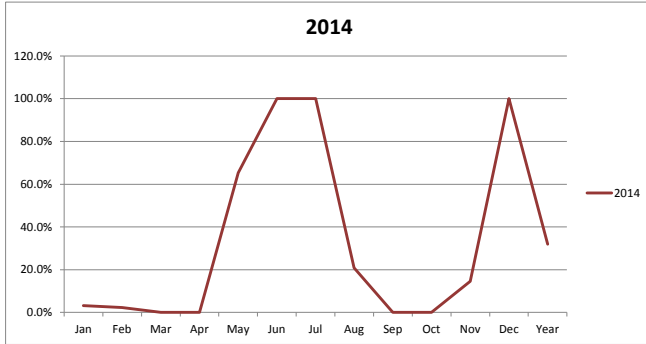
Unit: Plum Point

Data: Equivalent Availability Factor (%)



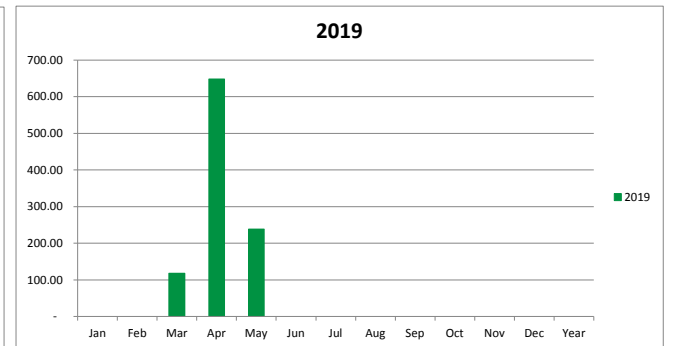
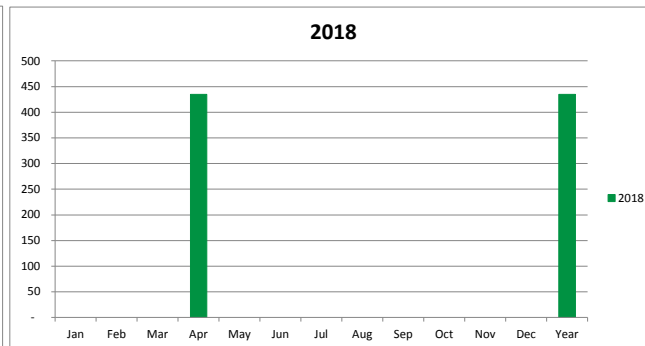
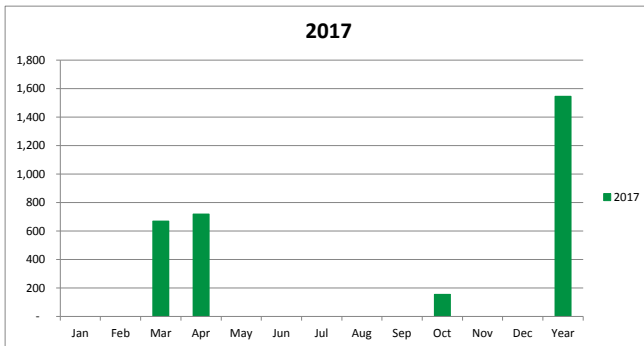
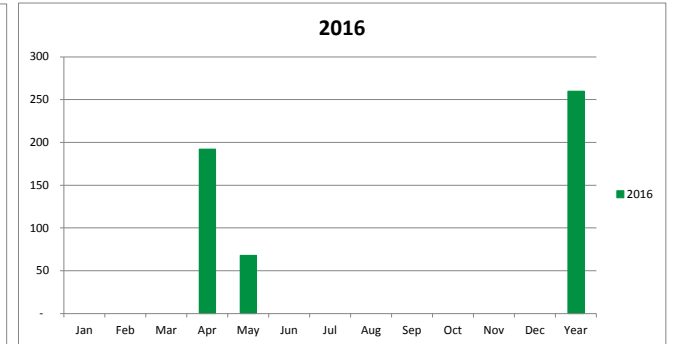
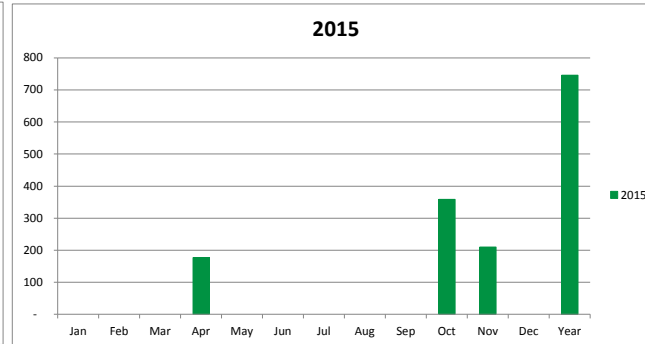
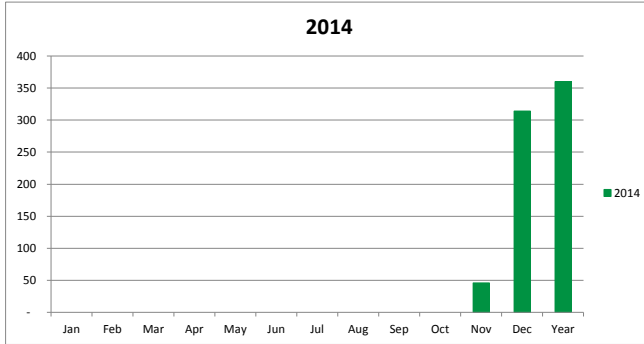
SCHEDULE SDR-17

Unit: Plum Point
 Data: Equivalent Forced Outage Rate (%)



Unit: Plum Point

Data: Length and timing of planned outages - Scheduled Outage Hours



Data through June, 2019

SCHEDULE SDR-17

Unit: Riverton 7

Data: Equivalent Availability Factor (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	100.0%	92.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%					0.0%
2015													0.0%
2016													0.0%
2017													0.0%
2018													0.0%
2019													0.0%

Unit: Riverton 7

Data: Equivalent Forced Outage Rate (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014		100.0%	100.0%	100.0%	100.0%	100.0%							0.0%
2015													0.0%
2016													0.0%
2017													0.0%
2018													0.0%
2019													0.0%

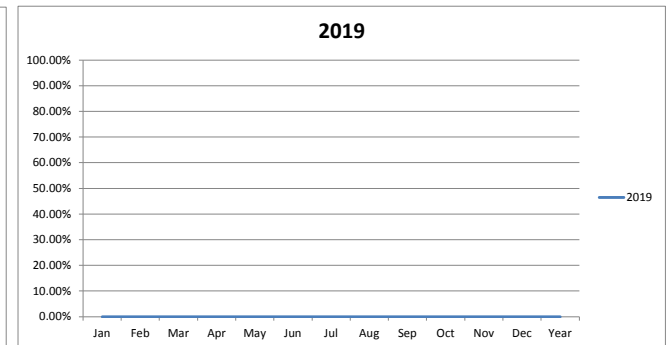
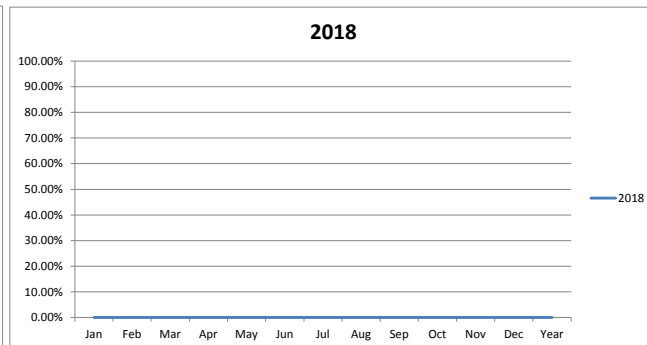
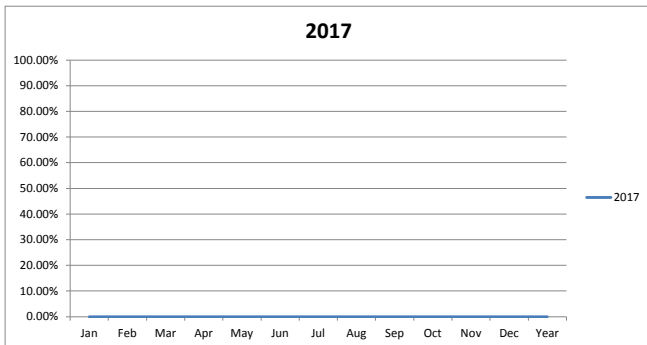
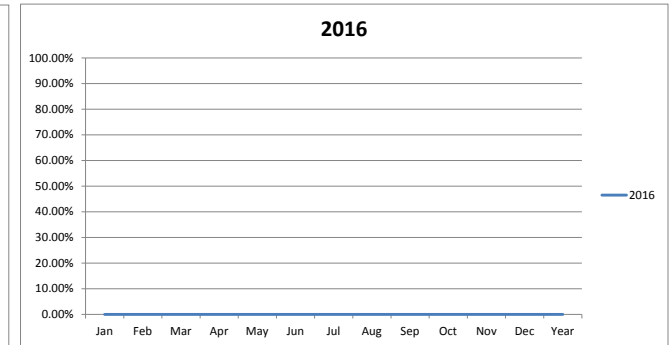
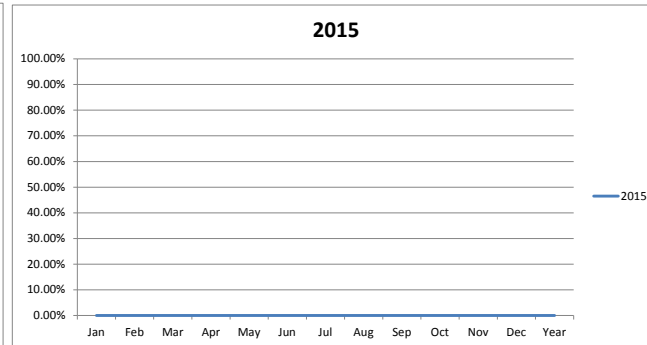
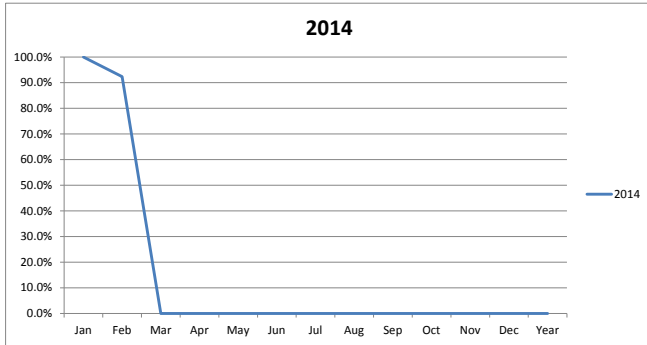
Unit: Riverton 7

Data: Length and timing of planned outages - Scheduled Outage Hours

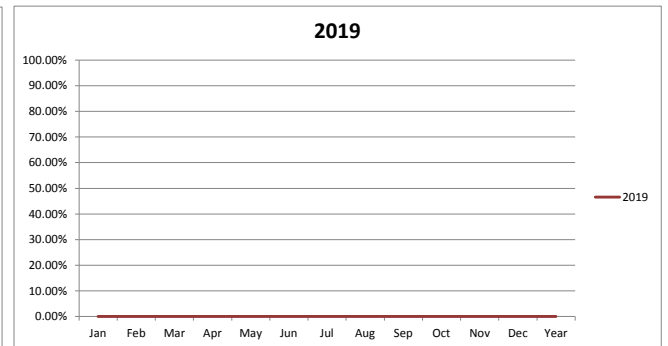
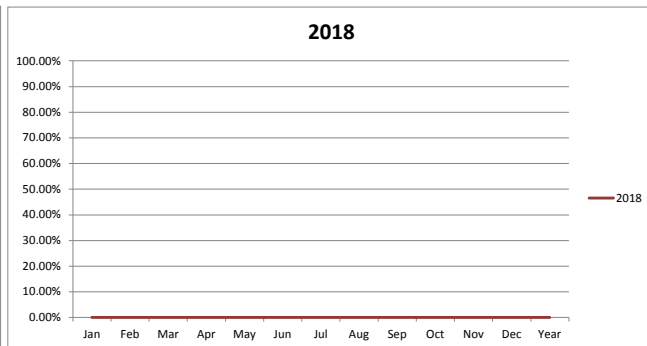
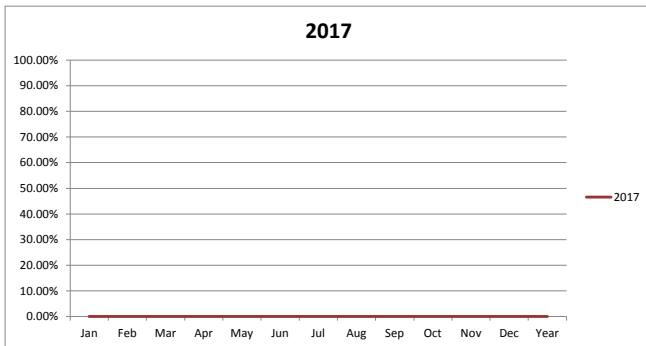
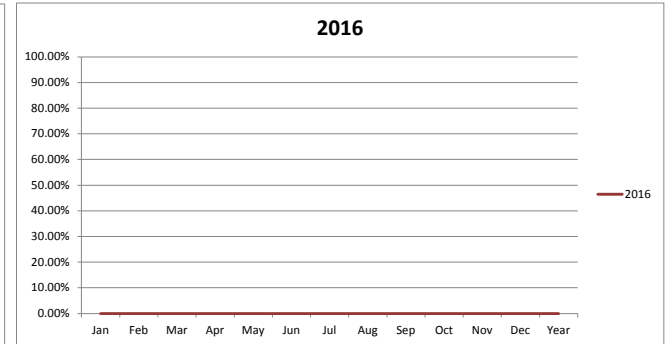
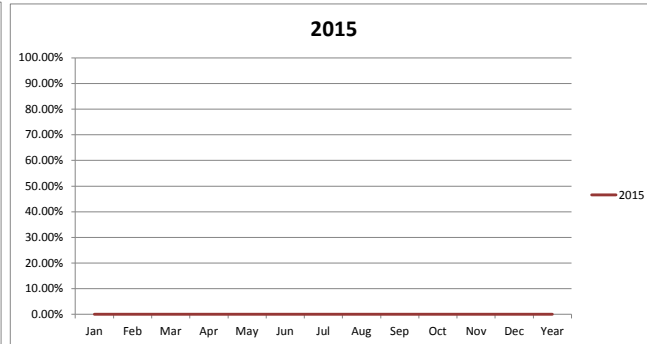
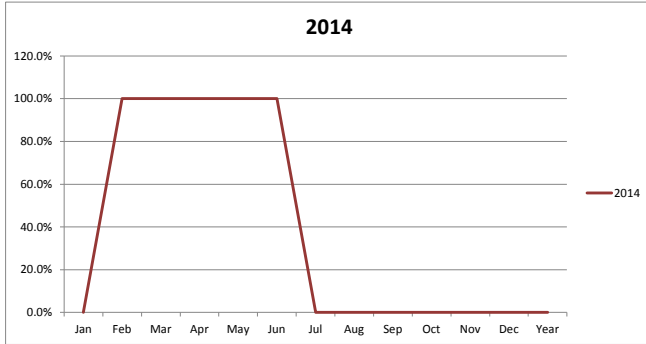
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	-	-	-	-	-	-	-	-					-
2015													-
2016													-
2017													-
2018													-
2019													-

Riverton Unit 7 retired on June 30, 2014 following its transition to natural gas only operation in September, 2012

Unit: Riverton 7
 Data: Equivalent Availability Factor (%)

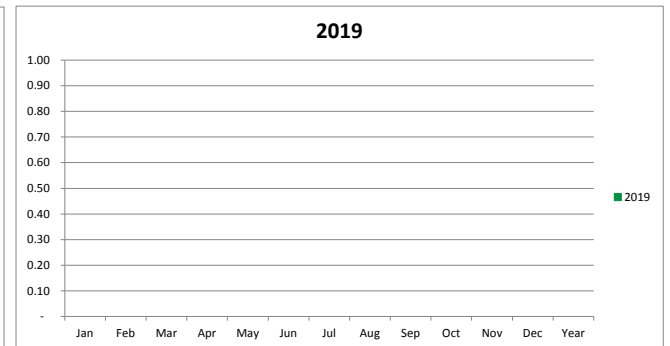
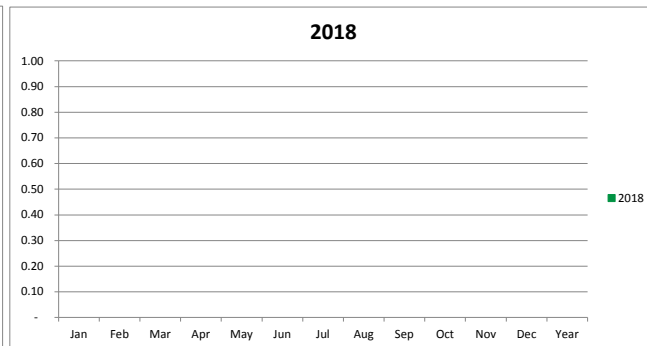
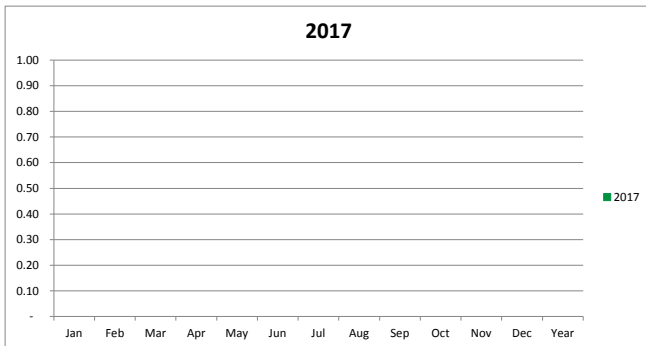
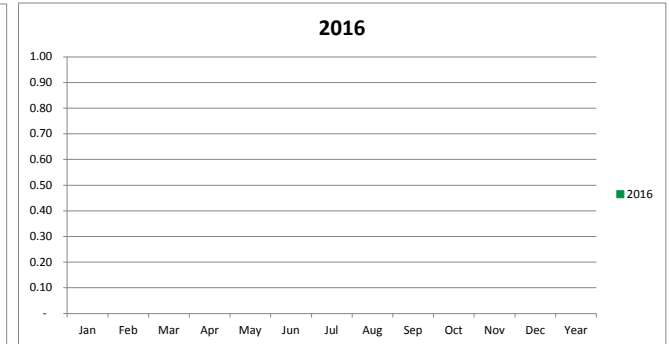
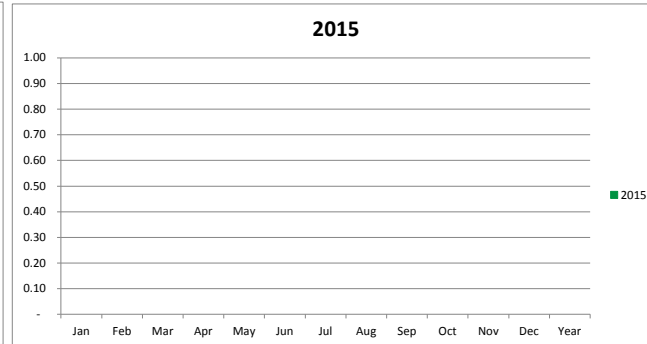
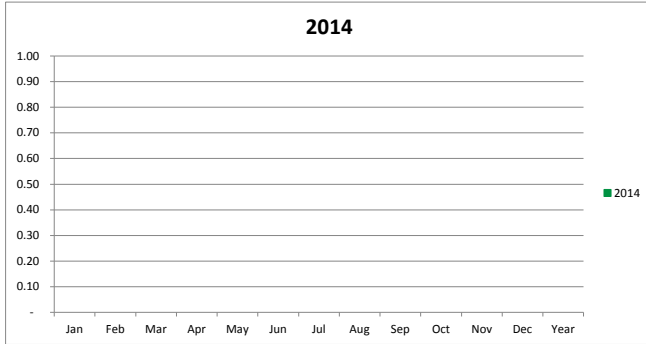


Unit: Riverton 7
 Data: Equivalent Forced Outage Rate (%)



Unit: Riverton 7

Data: Length and timing of planned outages - Scheduled Outage Hours



Riverton Unit 7 retired on June 30, 2014 following its transition to natural gas only operation in September, 2012

SCHEDULE SDR-17

Unit: Riverton 8

Data: Equivalent Availability Factor (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	100.0%	79.7%	100.0%	100.0%	100.0%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%	98.0%	98.3%
2015	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
2016													0.0%
2017													0.0%
2018													0.0%
2019													0.0%

Unit: Riverton 8

Data: Equivalent Forced Outage Rate (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014		100.0%				100.0%	0.0%		0.0%			100.0%	89.4%
2015	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%							100.0%
2016													0.0%
2017													0.0%
2018													0.0%
2019													0.0%

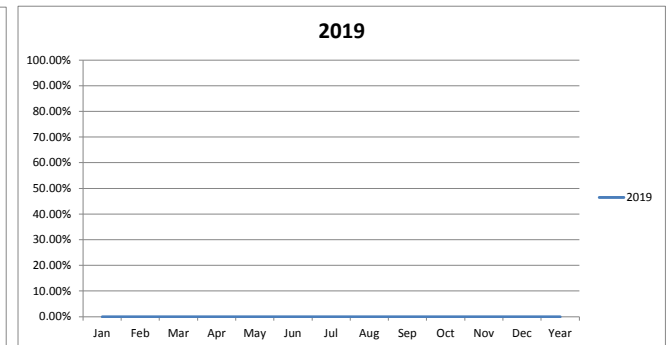
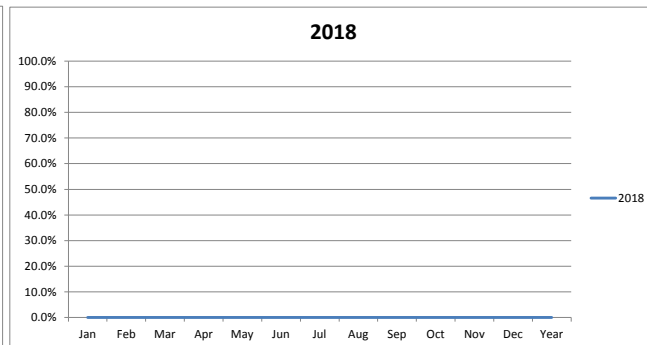
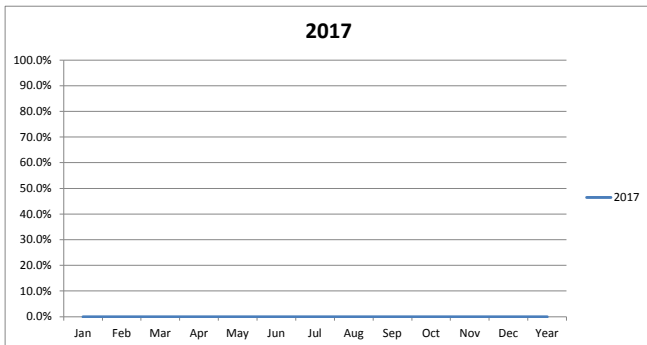
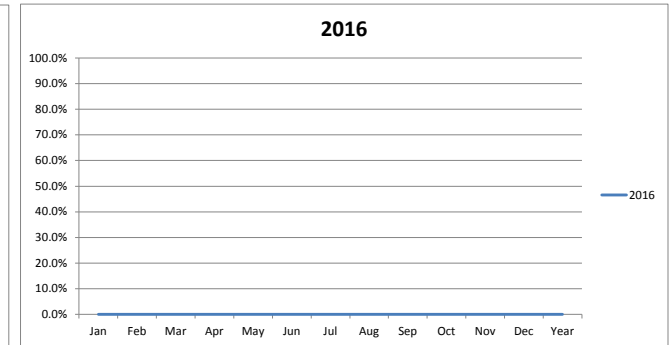
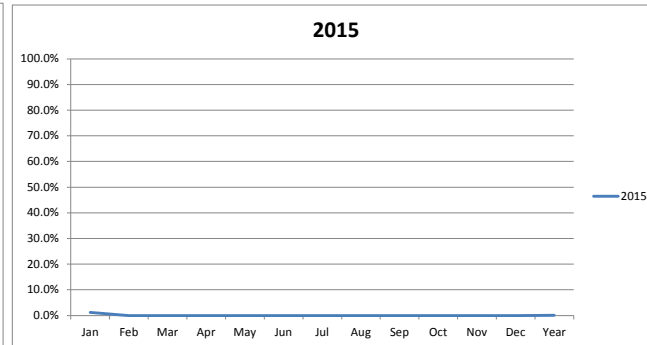
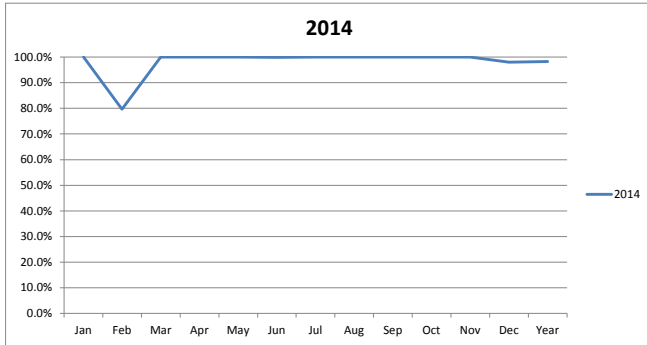
Unit: Riverton 8

Data: Length and timing of planned outages - Scheduled Outage Hours

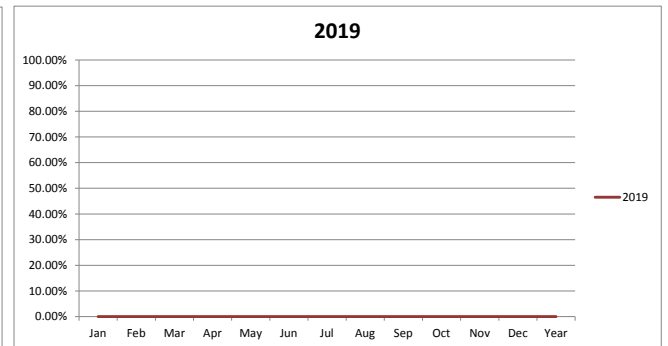
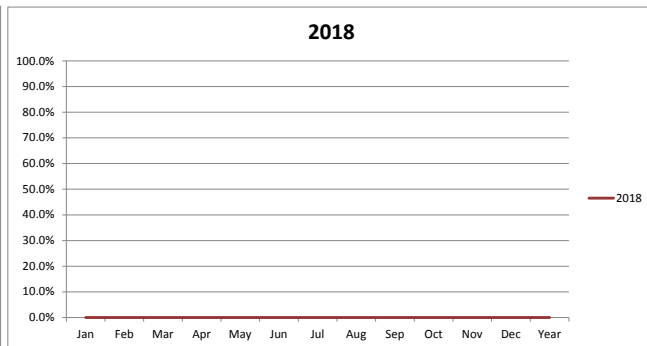
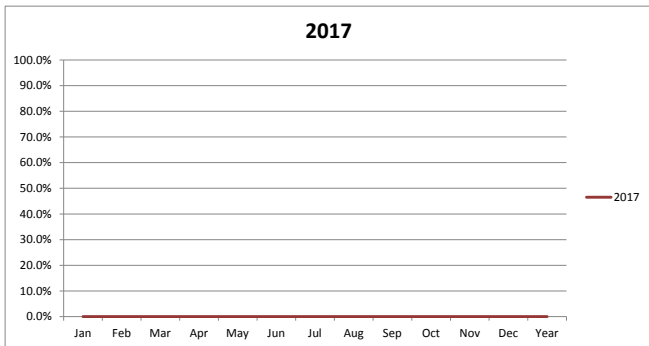
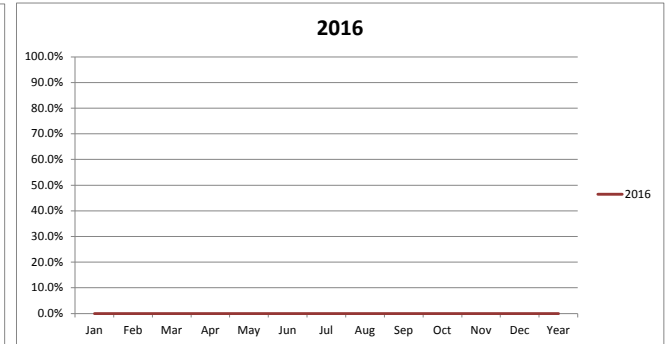
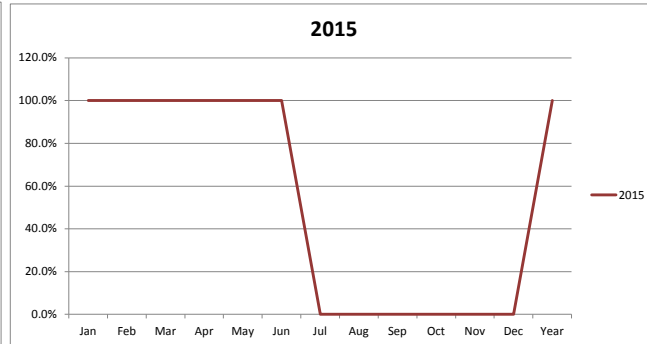
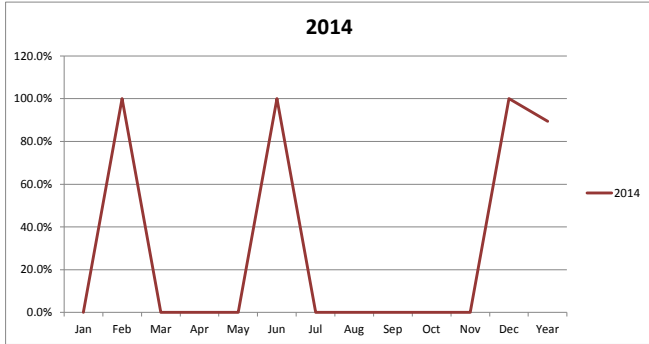
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	-	-	-	-	-	-	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-	-	-	-	-	-	-
2016													-
2017													-
2018													-
2019													-

Riverton Units 8 and 9 retired on June 30, 2015. Unit 8 transitioned to natural gas only operation in September, 2012

Unit: Riverton 8
 Data: Equivalent Availability Factor (%)

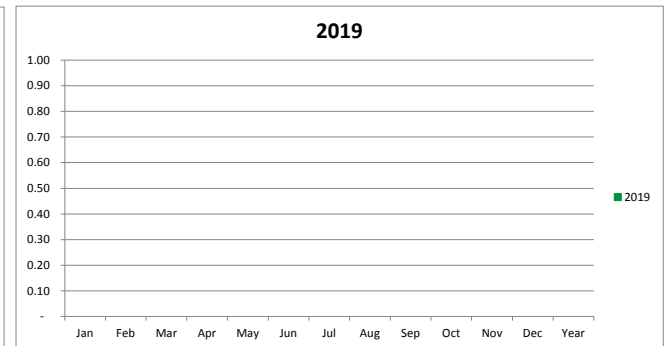
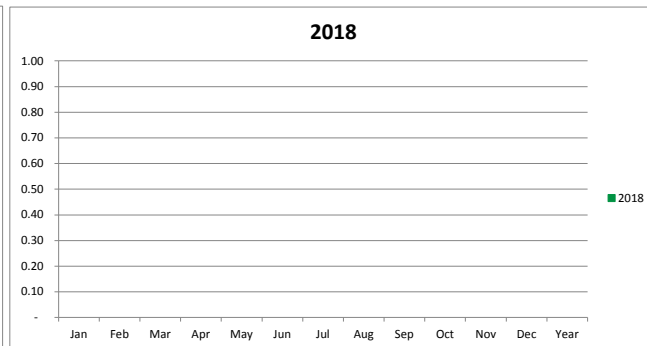
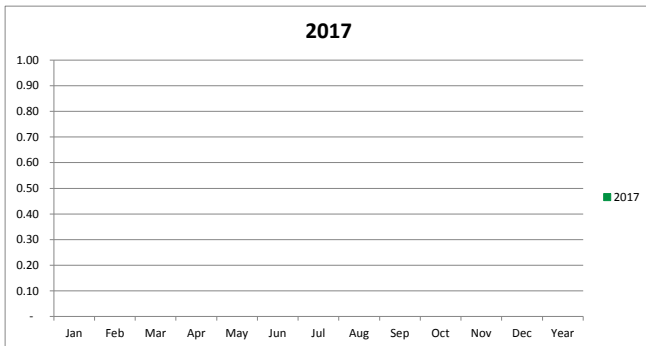
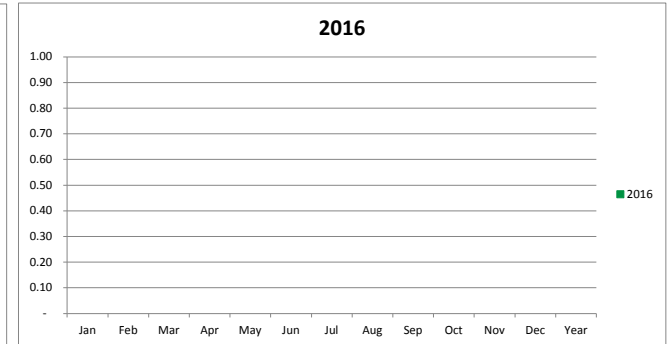
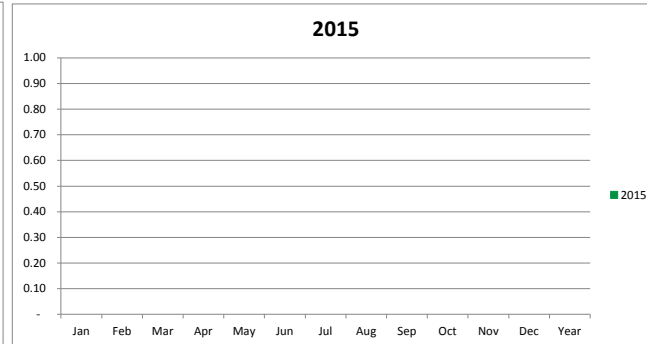
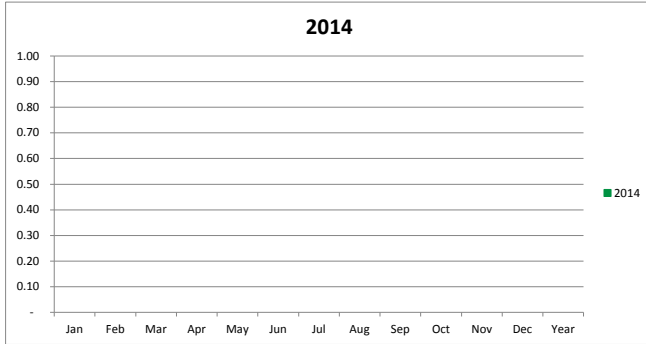


Unit: Riverton 8
 Data: Equivalent Forced Outage Rate (%)



Unit: Riverton 8

Data: Length and timing of planned outages - Scheduled Outage Hours



Riverton Units 8 and 9 retired on June 30, 2015. Unit 8 transitioned to natural gas only operation in September, 2012

SCHEDULE SDR-17

Unit: Riverton 9

Data: Equivalent Availability Factor (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	100.0%	79.7%	100.0%	100.0%	100.0%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%	98.0%	98.3%
2015	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
2016													0.0%
2017													0.0%
2018													0.0%
2019													0.0%

Unit: Riverton 9

Data: Equivalent Forced Outage Rate (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014		100.0%				100.0%	0.0%		0.0%			100.0%	89.4%
2015	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%							100.0%
2016													0.0%
2017													0.0%
2018													0.0%
2019													0.0%

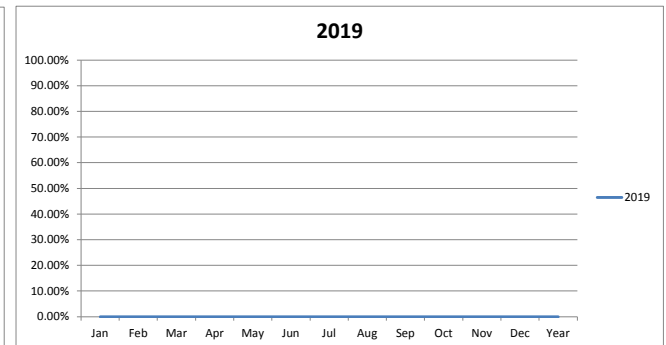
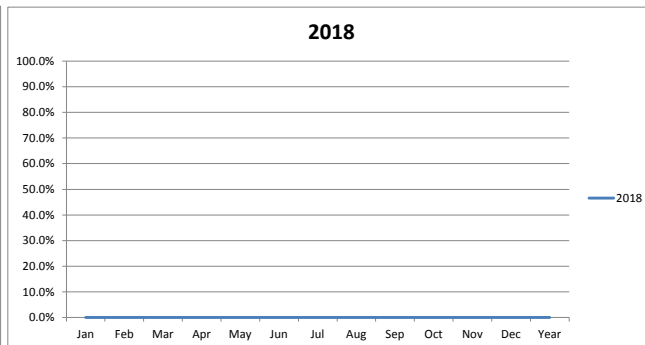
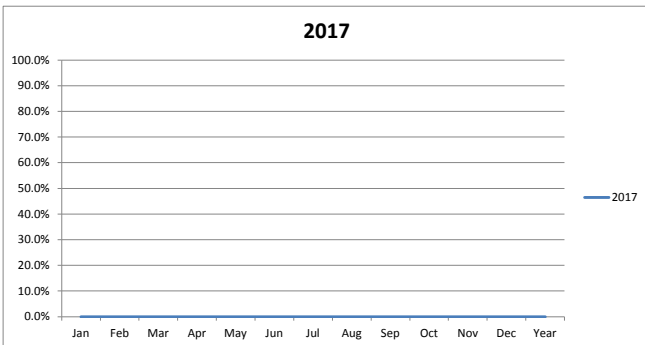
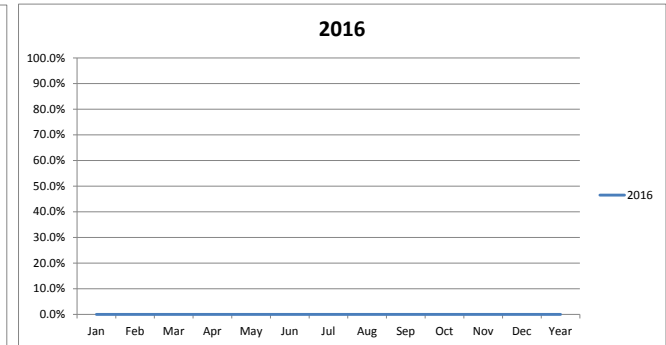
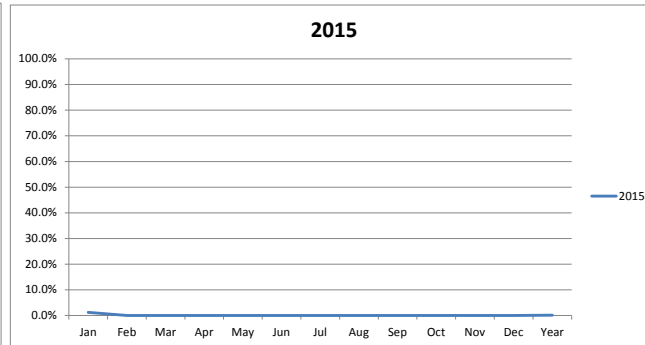
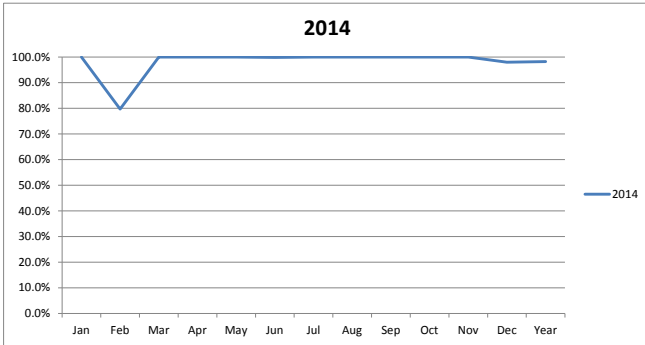
Unit: Riverton 9

Data: Length and timing of planned outages - Scheduled Outage Hours

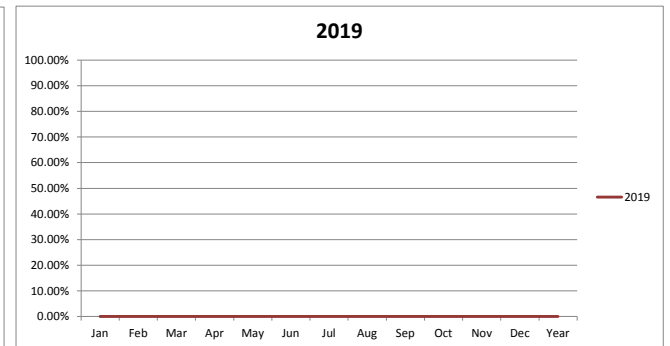
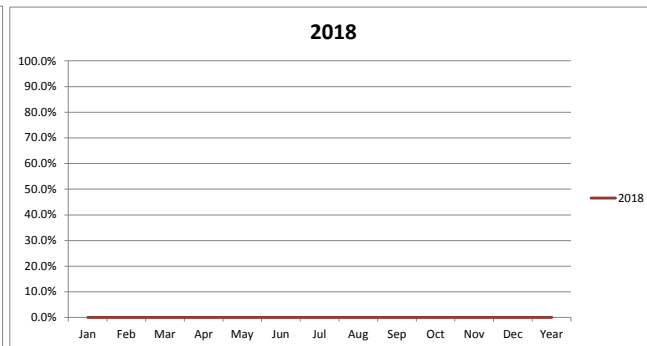
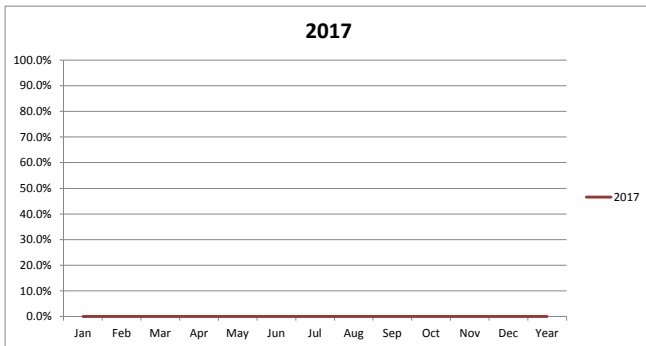
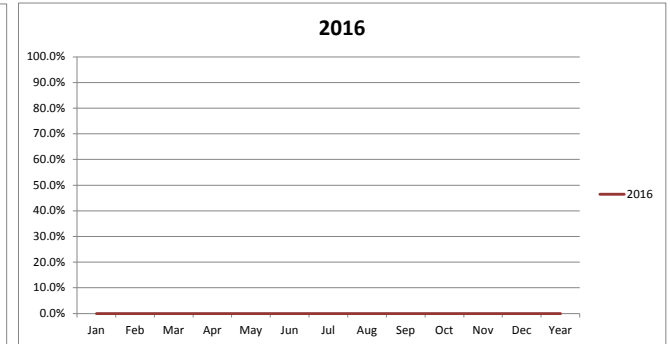
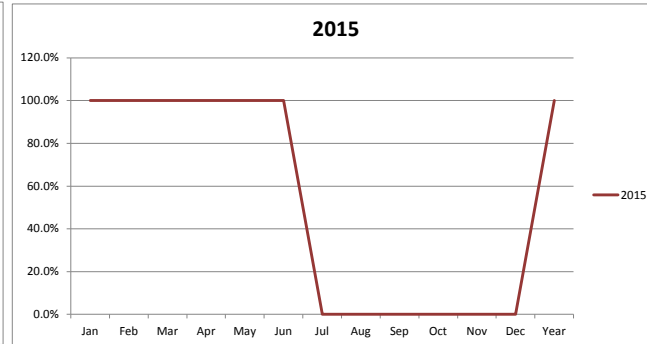
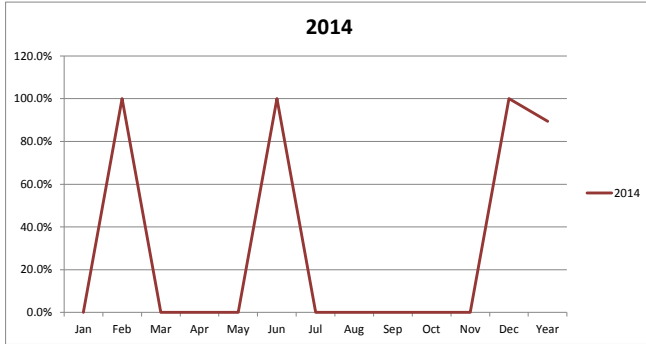
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	-	-	-	-	-	-	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-	-	-
2017													-
2018													-
2019													-

Riverton Units 8 and 9 retired on June 30, 2015. Unit 8 transitioned to natural gas only operation in September, 2012

Unit: Riverton 9
 Data: Equivalent Availability Factor (%)

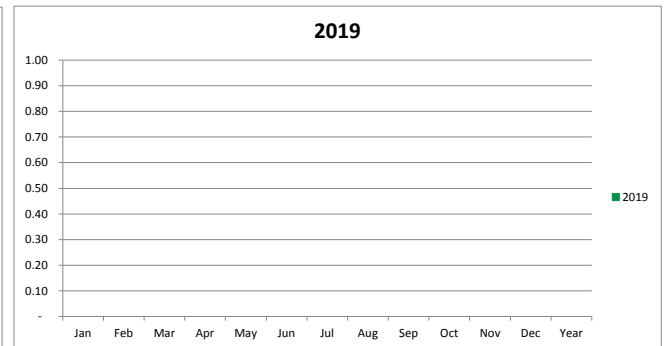
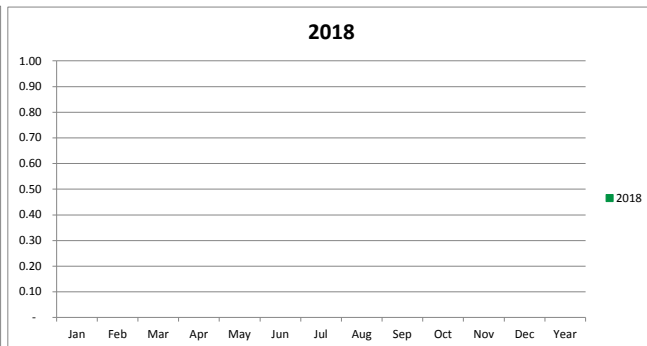
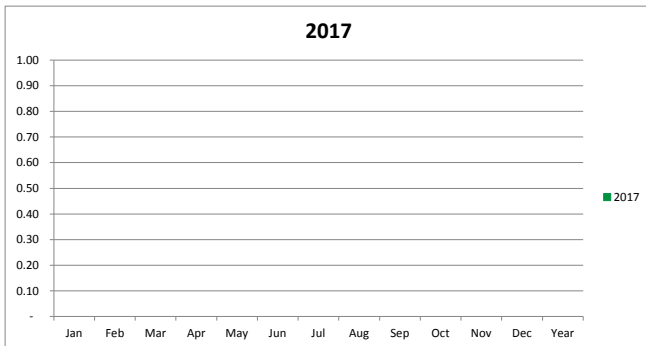
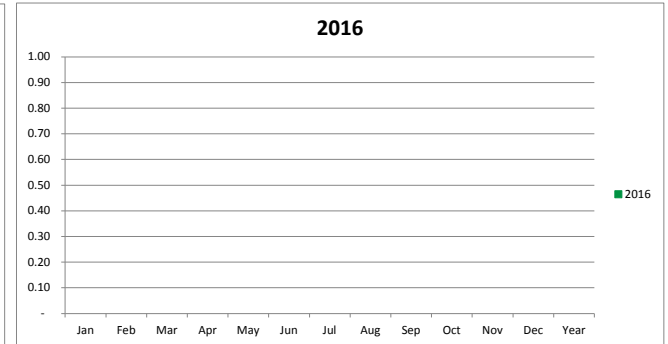
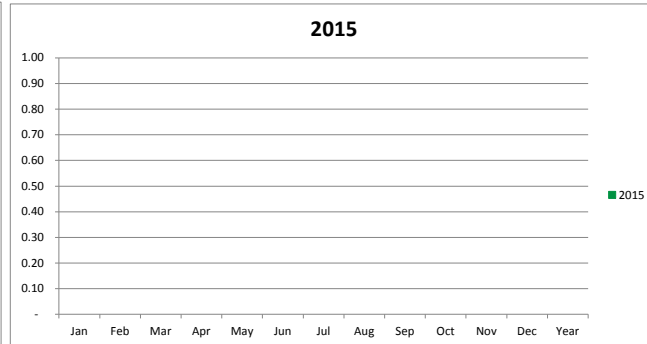
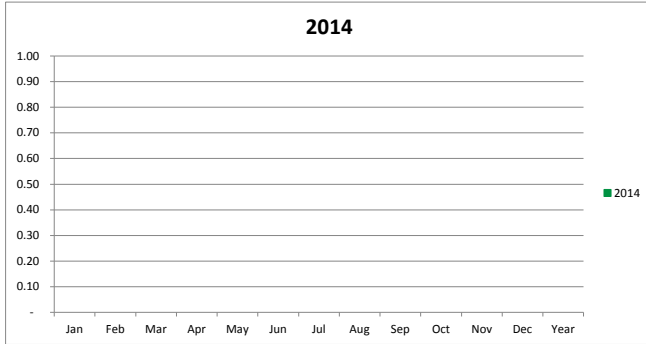


Unit: Riverton 9
 Data: Equivalent Forced Outage Rate (%)



Unit: Riverton 9

Data: Length and timing of planned outages - Scheduled Outage Hours



Riverton Units 8 and 9 retired on June 30, 2015. Unit 8 transitioned to natural gas only operation in September, 2012

SCHEDULE SDR-17

Unit: Riverton 10

Data: Equivalent Availability Factor (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	100.0%	100.0%	100.0%	99.4%	100.0%	100.0%	100.0%	100.0%	36.0%	99.3%	100.0%	100.0%	94.6%
2015	100.0%	0.0%	94.9%	0.0%	0.0%	0.0%	0.0%	98.7%	11.9%	59.8%	100.0%	93.5%	47.2%
2016	42.5%	100.0%	100.0%	100.0%	100.0%	97.3%	100.0%	99.5%	100.0%	93.1%	4.7%	100.0%	86.5%
2017	79.0%	45.3%	97.9%	99.7%	100.0%	84.1%	100.0%	97.4%	88.6%	93.5%	73.9%	97.6%	88.5%
2018	98.8%	99.0%	100.0%	99.9%	54.2%	0.0%	14.2%	56.1%	100.0%	100.0%	92.1%	99.6%	76.0%
2019	99.7%	100.0%	82.2%	100.0%	100.0%	100.0%							

Unit: Riverton 10

Data: Equivalent Forced Outage Rate (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014				0.0%	0.0%				99.1%			0.0%	97.2%
2015				100.0%	100.0%	100.0%	100.0%	100.0%	99.5%	100.0%		100.0%	99.9%
2016	100.0%	0.0%				90.5%			0.0%	100.0%			96.4%
2017	99.5%	99.8%		0.0%	0.0%			98.8%	88.3%	0.0%		88.8%	92.8%
2018	28.6%		0.0%		0.0%			0.0%	0.0%	0.0%			9.0%
2019			94.8%	0.0%	0.0%								

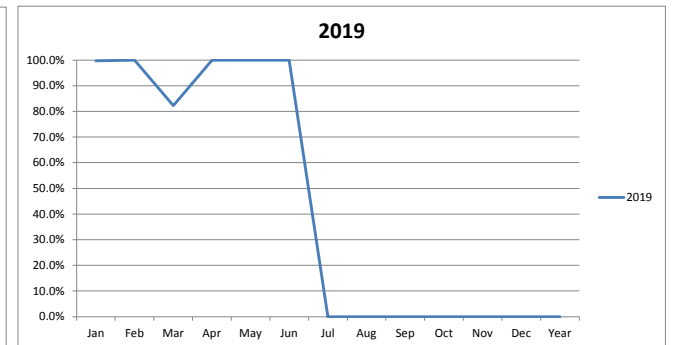
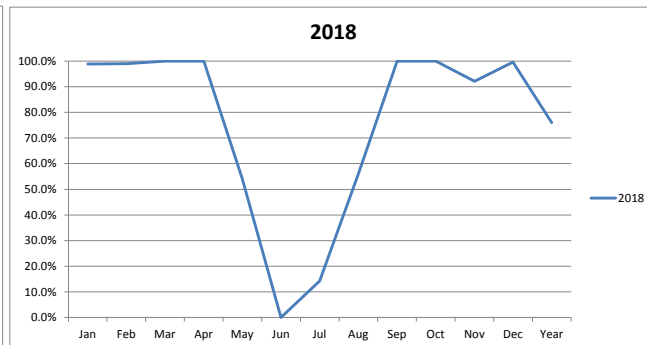
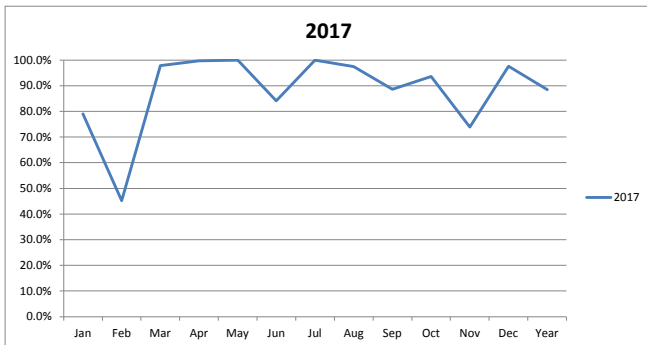
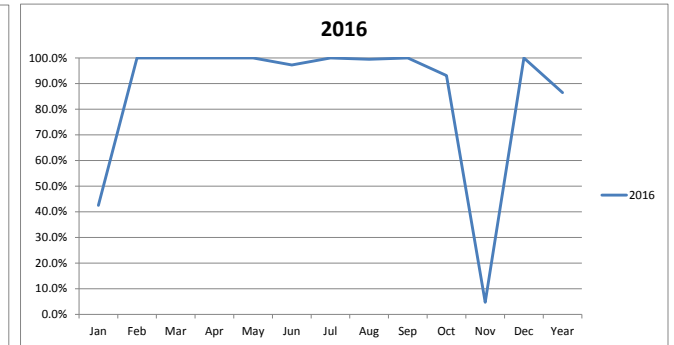
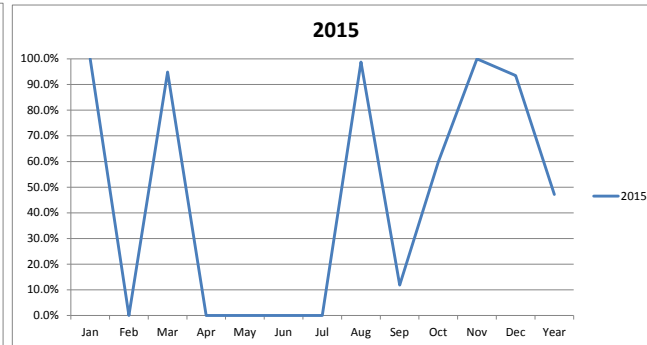
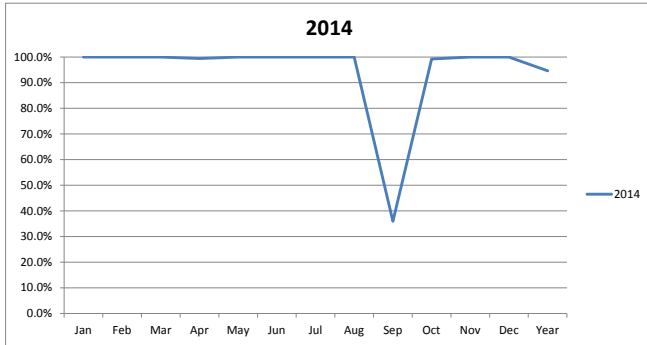
Unit: Riverton 10

Data: Length and timing of planned outages - Scheduled Outage Hours

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	-	-	-	-	-	-	-	-	-	5.50	-	-	5.50
2015	-	-	38.00	199.50	-	-	-	-	-	27.83	-	-	265.33
2016	-	-	-	-	-	-	-	3.92	-	28.25	686.91	-	719.08
2017	-	-	15.83	2.05	-	114.25	-	-	6.00	48.00	188.00	-	374.13
2018	-	7.00	-	0.67	340.83	720.00	638.22	326.60	-	-	57.30	3.00	2,093.62
2019	2.00	-	-	-	-	-							

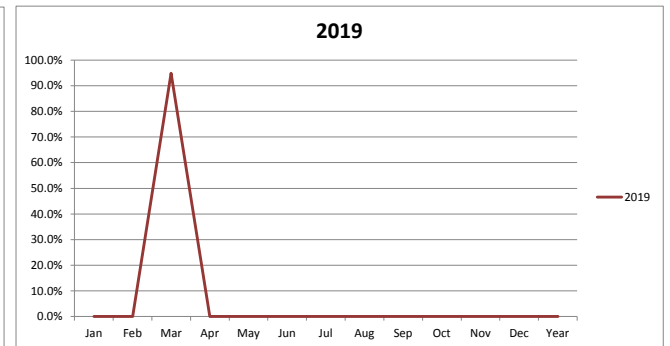
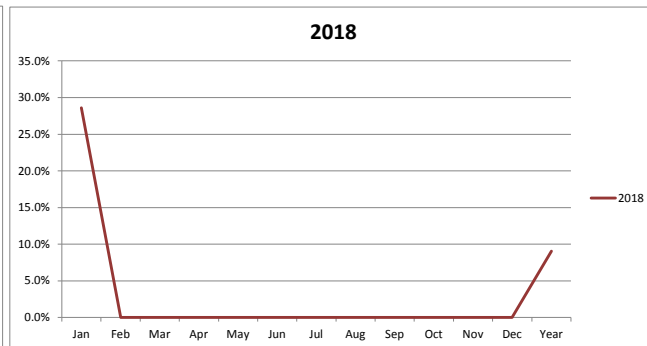
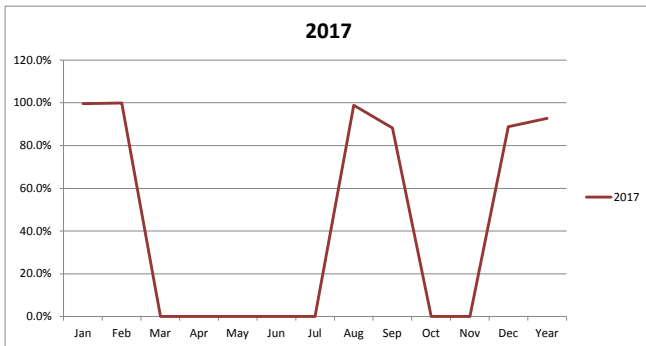
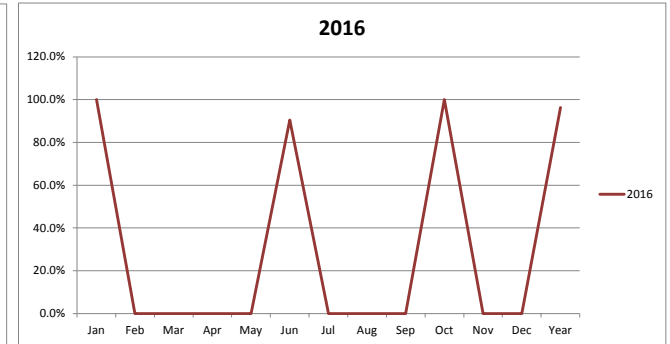
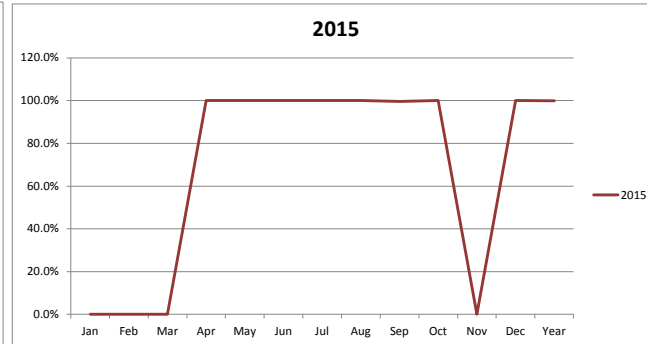
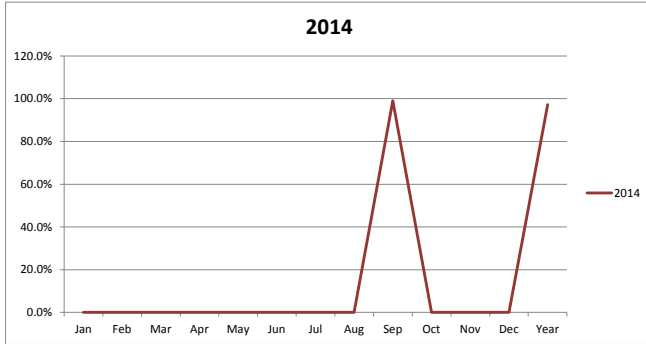
Data through June, 2019

Unit: Riverton 10
 Data: Equivalent Availability Factor (%)



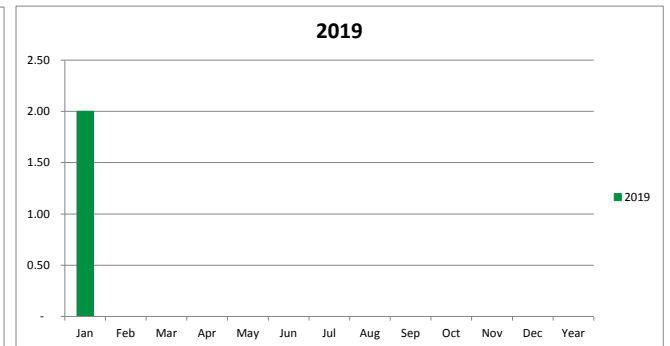
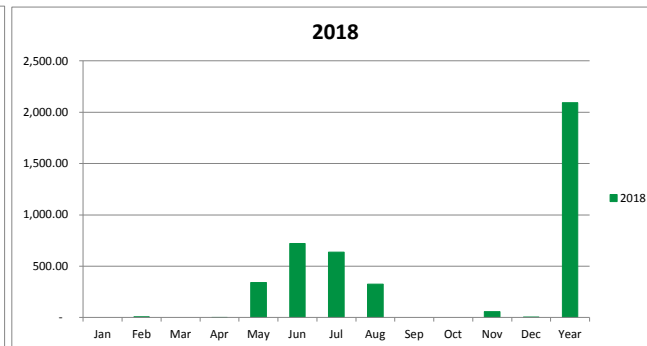
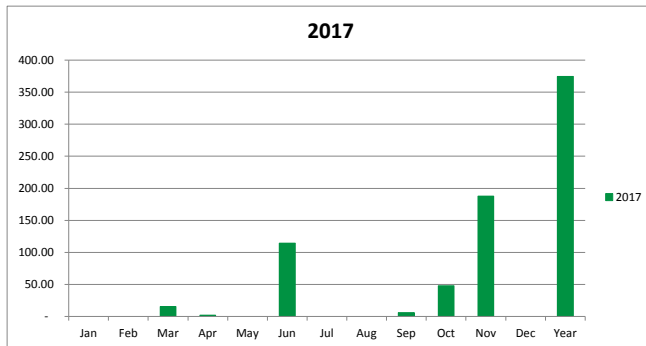
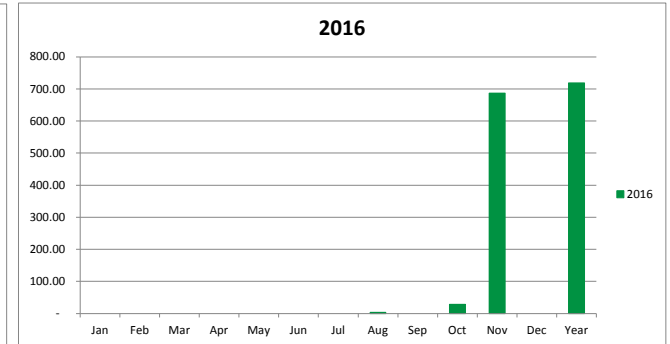
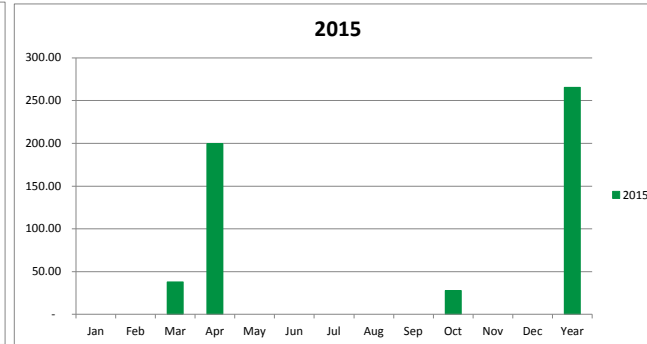
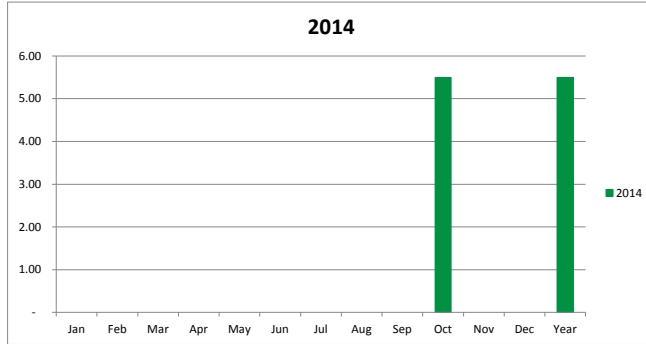
SCHEDULE SDR-17

Unit: Riverton 10
 Data: Equivalent Forced Outage Rate (%)



Unit: Riverton 10

Data: Length and timing of planned outages - Scheduled Outage Hours



Data through June, 2019

SCHEDULE SDR-17

Unit: Riverton 11

Data: Equivalent Availability Factor (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	99.1%	99.3%	100.0%	95.5%	99.5%
2015	100.0%	0.0%	94.9%	69.9%	35.3%	73.3%	37.7%	0.0%	4.5%	59.8%	100.0%	93.5%	56.1%
2016	100.0%	100.0%	100.0%	100.0%	100.0%	97.3%	100.0%	99.5%	100.0%	93.1%	4.7%	0.3%	82.9%
2017	17.0%	62.9%	75.5%	99.7%	100.0%	84.1%	100.0%	100.0%	88.6%	97.4%	100.0%	65.8%	82.6%
2018	0.0%	0.0%	18.9%	100.0%	54.2%	0.0%	14.0%	94.2%	0.0%	0.0%	0.0%	0.0%	23.6%
2019	0.0%	0.0%	0.0%	0.0%	0.0%	75.3%							

Unit: Riverton 11

Data: Equivalent Forced Outage Rate (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014									61.3%	0.0%		97.6%	82.8%
2015							100.0%	100.0%	99.7%	100.0%		100.0%	99.9%
2016	0.0%	0.0%				90.7%			0.0%	100.0%		99.7%	97.1%
2017	100.0%	99.5%	99.8%	0.0%	0.0%			0.0%	100.0%	47.7%		99.0%	97.2%
2018	100.0%	100.0%	99.7%		0.0%		0.0%	80.5%	100.0%	100.0%	100.0%	100.0%	99.7%
2019		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%						

Unit: Riverton 11

Data: Length and timing of planned outages - Scheduled Outage Hours

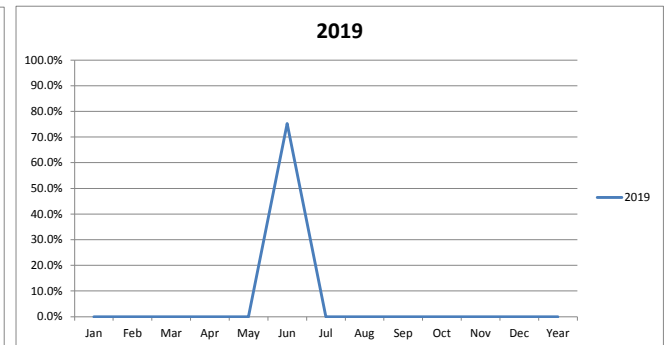
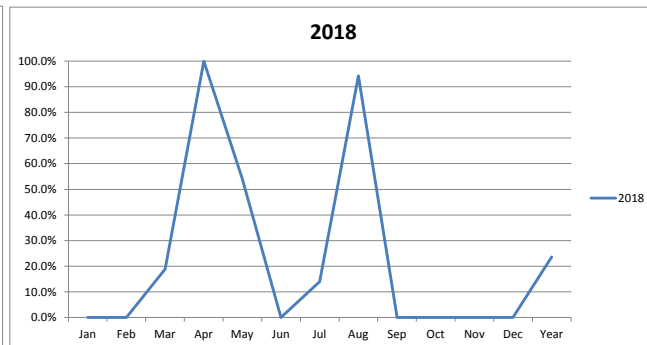
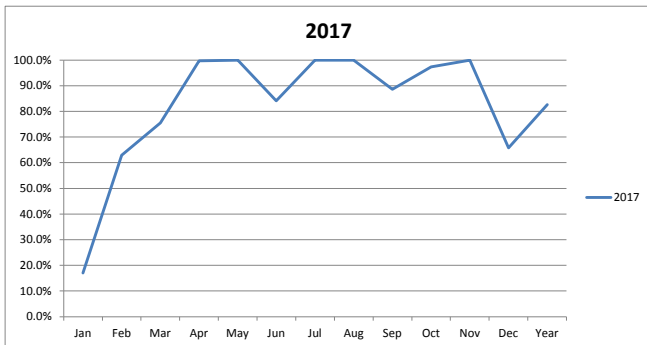
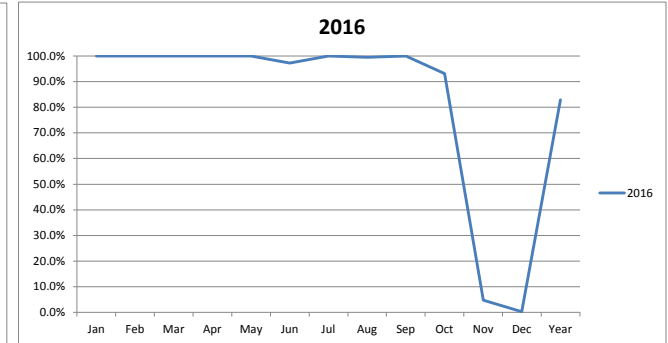
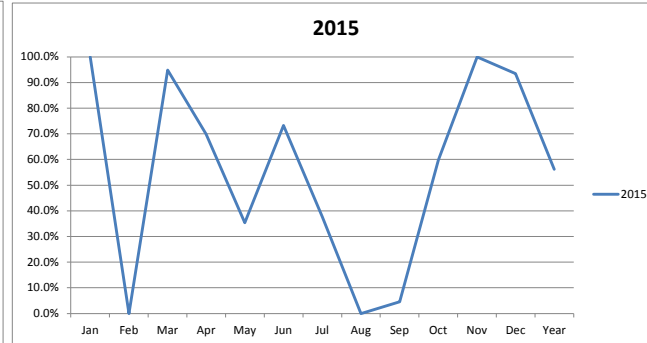
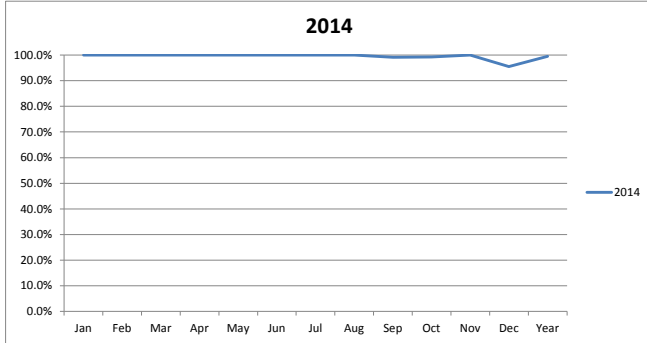
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	-	-	-	-	-	-	-	-	-	6	-	-	6
2015	-	-	38	217	481	192	-	-	-	28	-	-	956
2016	-	-	-	-	-	-	-	4	-	28	687	14	733
2017	-	-	16	2	-	114	-	-	6	2	-	-	140
2018	-	-	-	-	341	720	640	15	-	-	-	-	1,715
2019	744	-	-	-	-	-							

Data through June, 2019

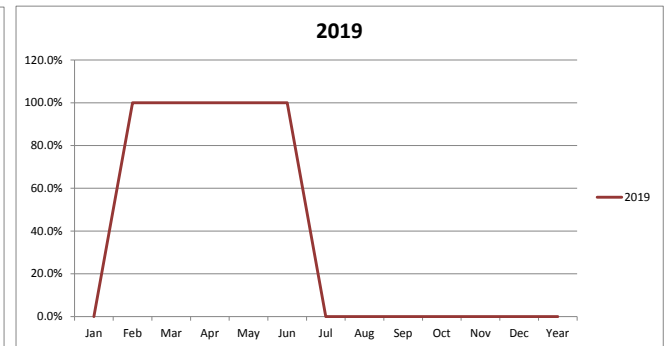
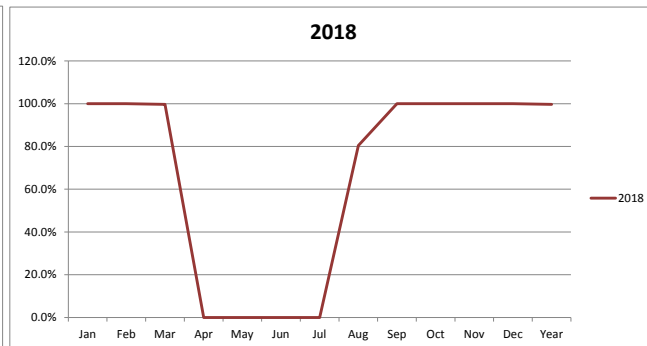
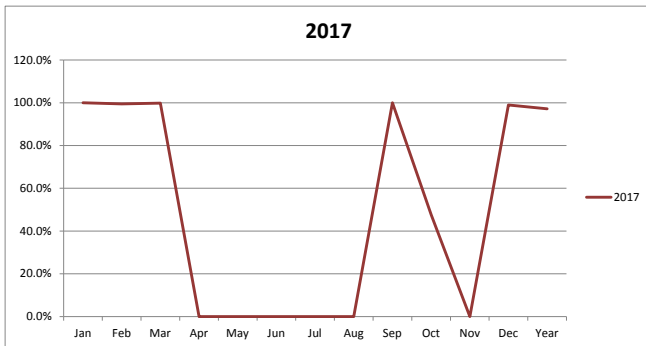
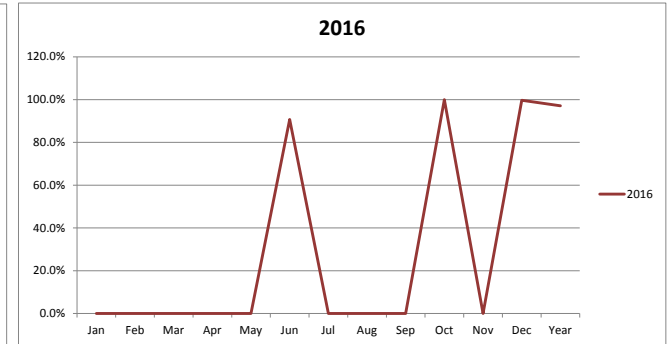
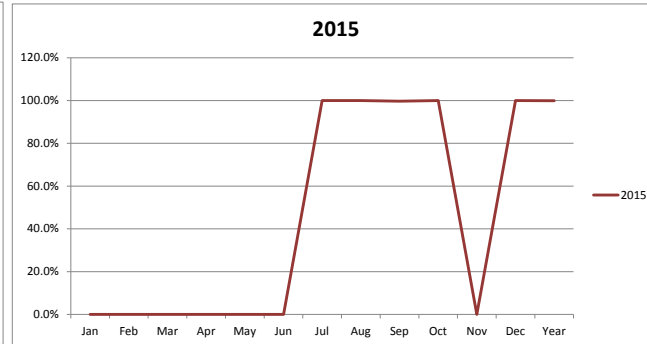
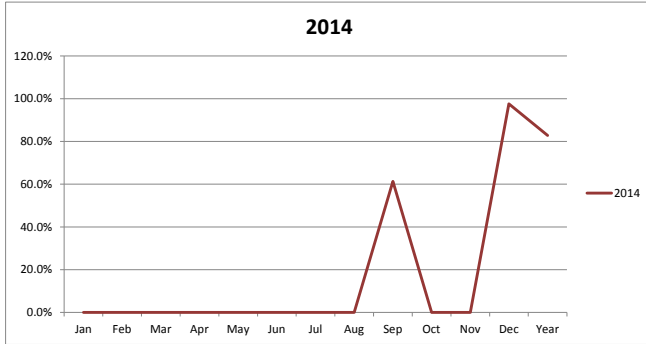
SCHEDULE SDR-17

Unit: Riverton 11

Data: Equivalent Availability Factor (%)



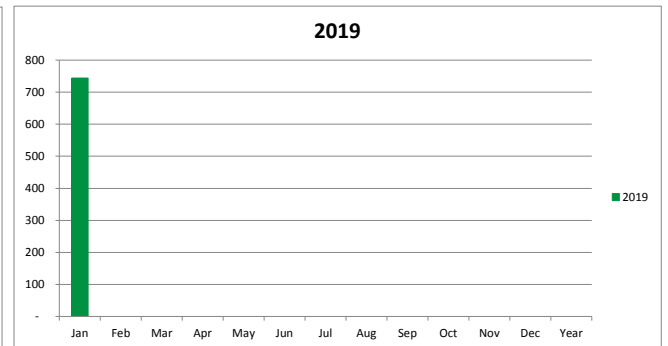
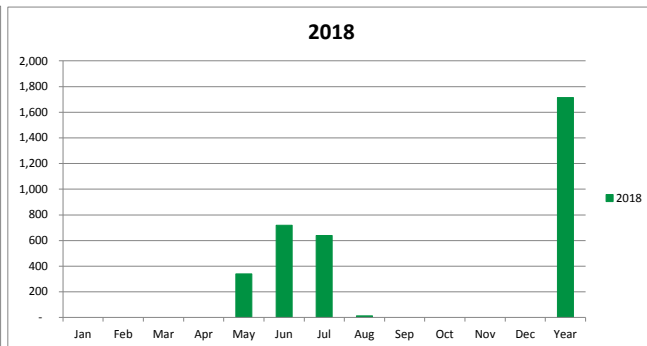
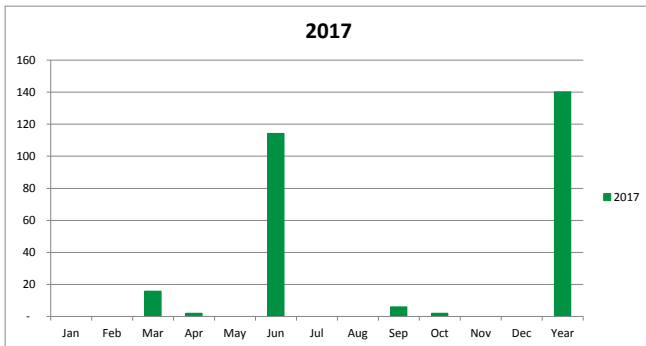
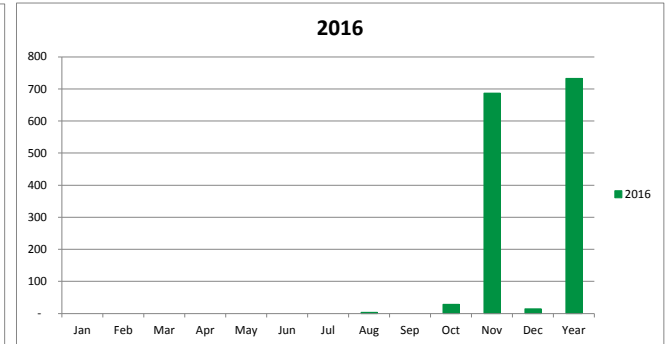
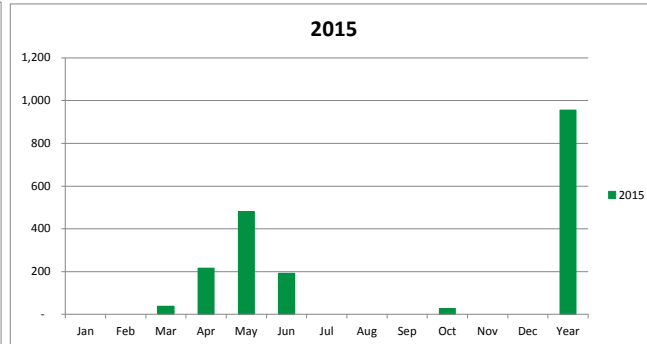
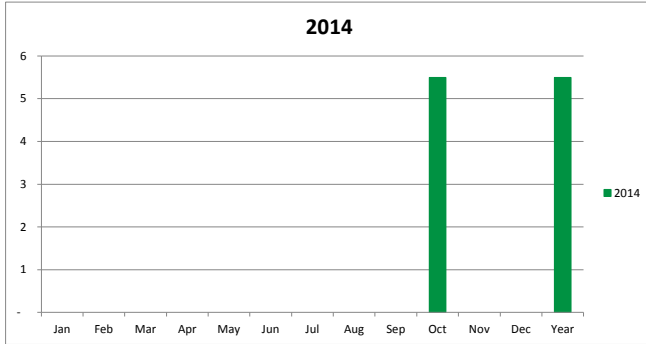
Unit: Riverton 11
 Data: Equivalent Forced Outage Rate (%)



SCHEDULE SDR-17

Unit: Riverton 11

Data: Length and timing of planned outages - Scheduled Outage Hours



Data through June, 2019

SCHEDULE SDR-17

Unit: Riverton 12

Data: Equivalent Availability Factor (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	99.9%	100.0%	95.6%	96.3%	89.6%	99.8%	98.2%	100.0%	100.0%	66.5%	48.4%	86.1%	90.0%
2015	100.0%	100.0%	82.5%	67.1%	76.5%	96.8%	90.9%	100.0%	46.7%	0.0%	0.0%	0.0%	63.2%
2016	0.0%	0.0%	0.0%	0.0%	90.1%	91.2%	75.4%	96.9%	53.3%	29.2%	45.6%	66.8%	68.6%
2017	94.5%	79.1%	69.2%	100.0%	85.8%	89.4%	99.9%	100.0%	65.0%	83.9%	100.0%	100.0%	60.8%
2018	93.4%	81.0%	97.4%	100.0%	62.4%	100.0%	100.0%	92.5%	93.0%	70.1%	96.6%	100.0%	90.5%
2019	100.0%	93.7%	47.8%	0.0%	84.3%	93.2%							

Unit: Riverton 12

Data: Equivalent Forced Outage Rate (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	0.0%	0.0%	0.0%	0.0%	49.3%	0.0%	0.0%	0.0%	0.0%	93.0%	0.0%	48.4%	26.5%
2015	0.0%	0.0%	25.0%	8.0%	0.0%	12.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.1%
2016					0.0%	0.0%	27.3%	4.0%	0.0%	50.5%	64.1%	43.0%	23.2%
2017	8.1%	0.0%	0.2%	0.0%	21.2%	0.0%	0.2%	0.0%	16.9%	0.2%	0.0%	0.0%	4.4%
2018	4.5%	1.5%	0.5%	0.0%	0.3%	0.0%	0.0%	11.2%	10.7%	0.0%	0.0%	0.0%	2.2%
2019	0.0%	7.8%	1.3%		1.2%	7.5%							

Unit: Riverton 12

Data: Length and timing of planned outages - Scheduled Outage Hours

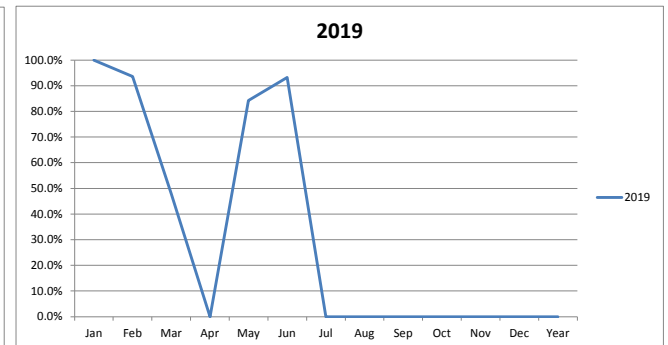
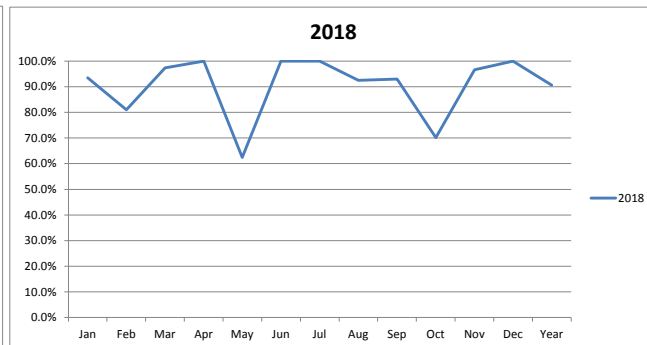
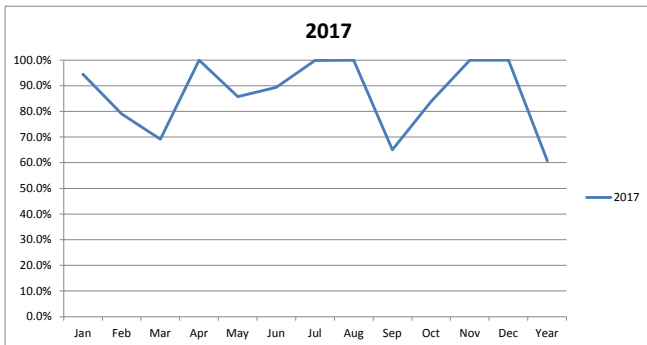
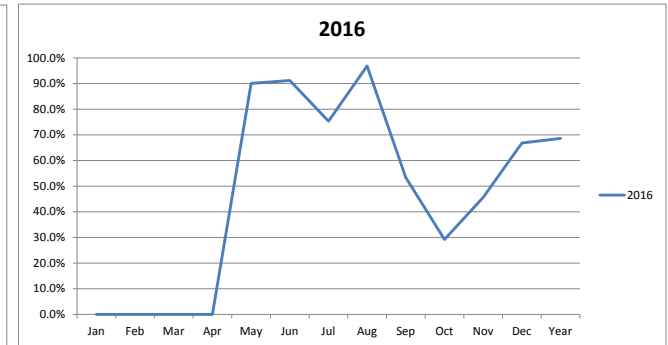
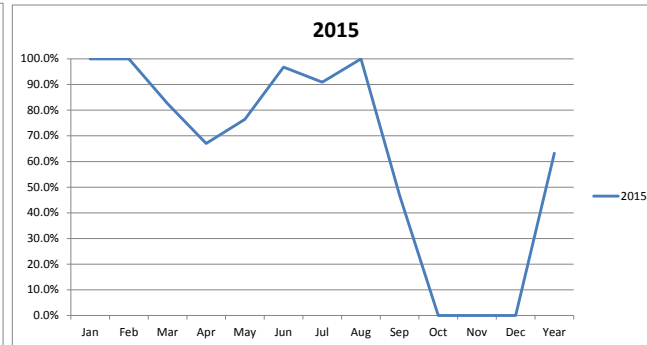
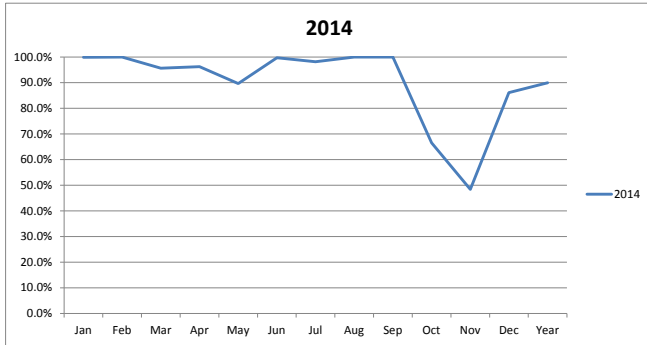
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	-	-	-	-	-	-	-	-	-	6	372	13	391
2015	-	-	107	231	175	-	68	-	384	744	721	744	3,174
2016	744	696	743	720	74	63	-	-	336	449	-	-	3,825
2017	-	141	228	-	-	76	-	-	193	120	-	-	757
2018	23	120	16	-	278	-	-	-	-	222	24	-	684
2019	-	-	383	720	112	-							

Data through June, 2019

SCHEDULE SDR-17

Unit: Riverton 12

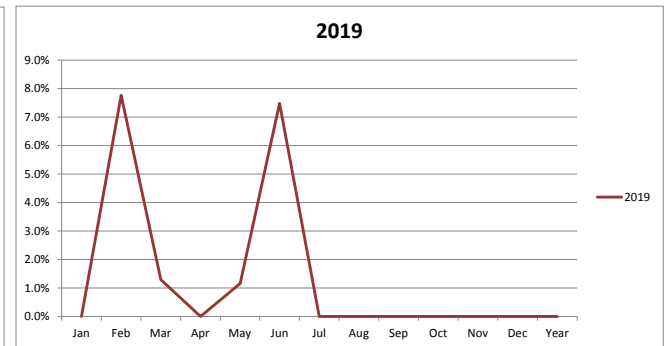
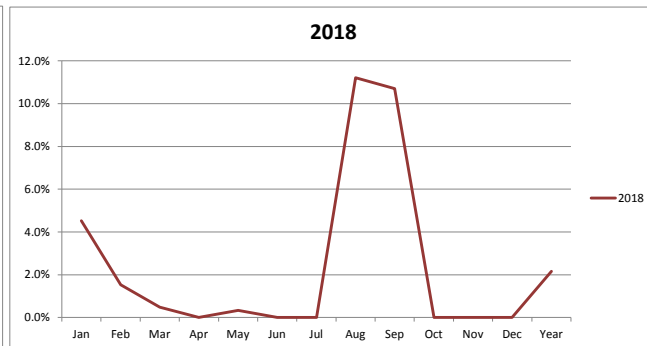
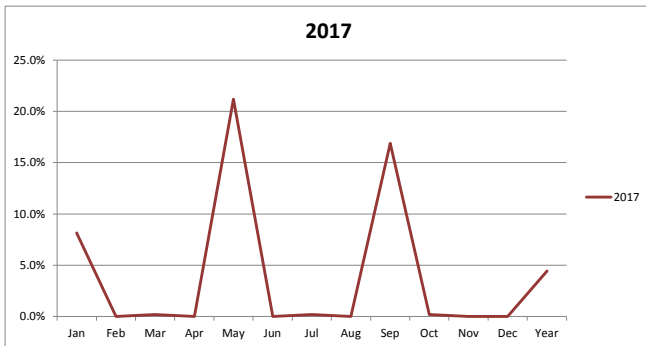
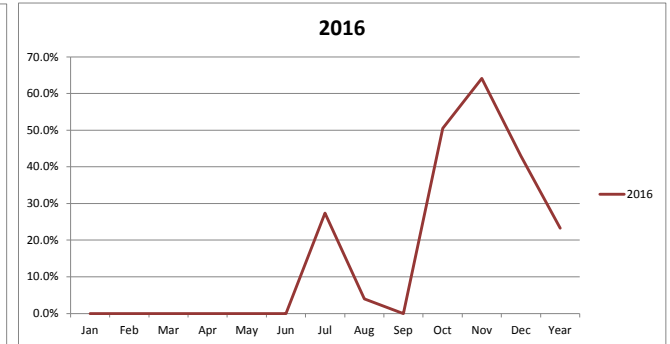
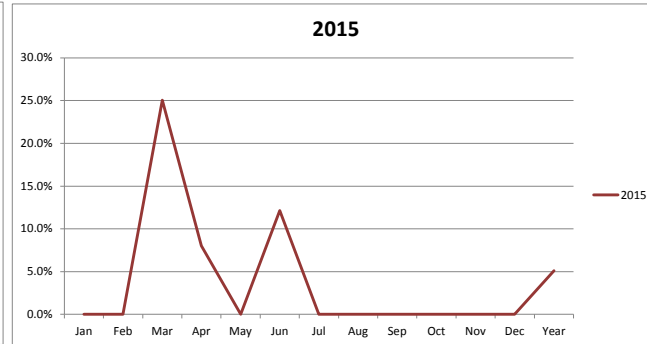
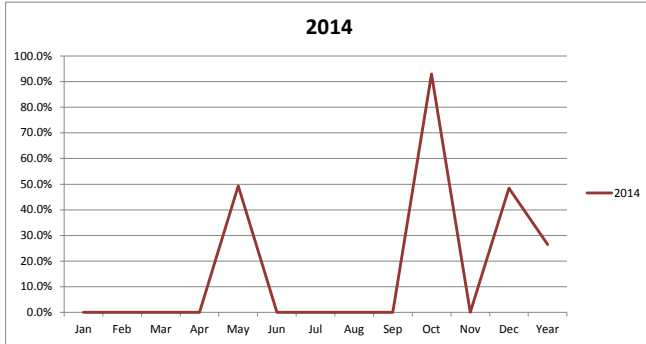
Data: Equivalent Availability Factor (%)



SCHEDULE SDR-17

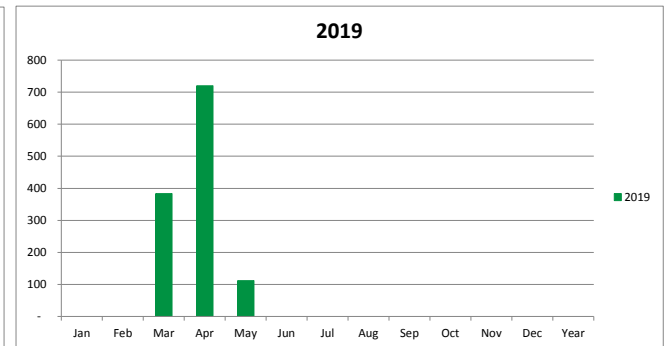
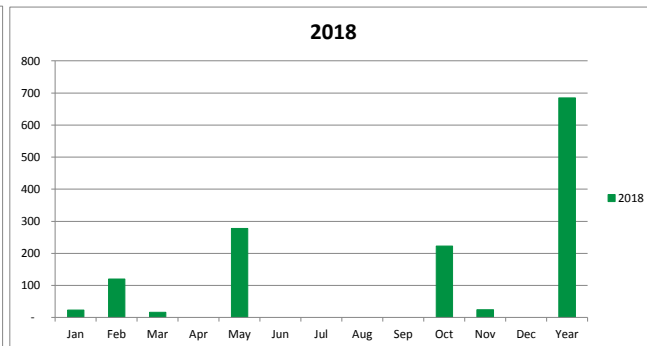
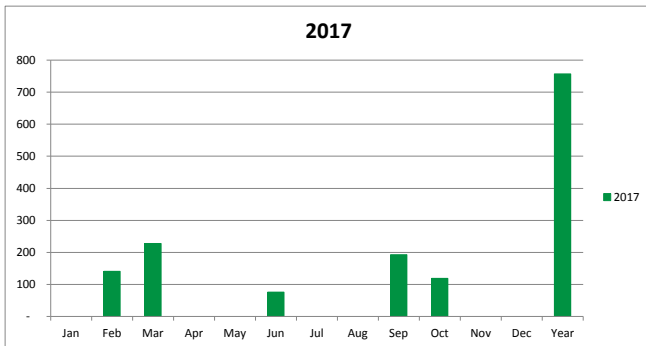
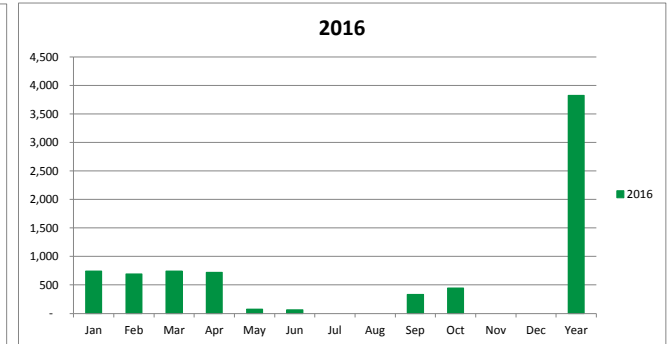
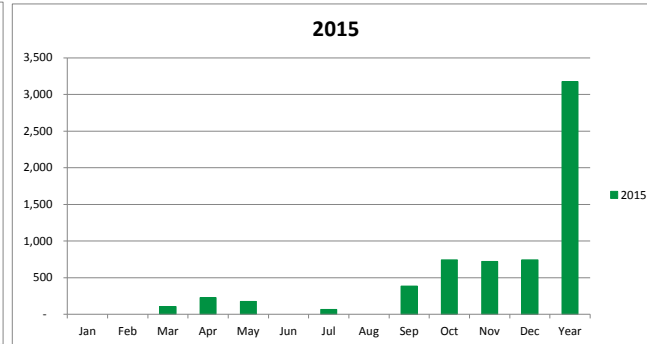
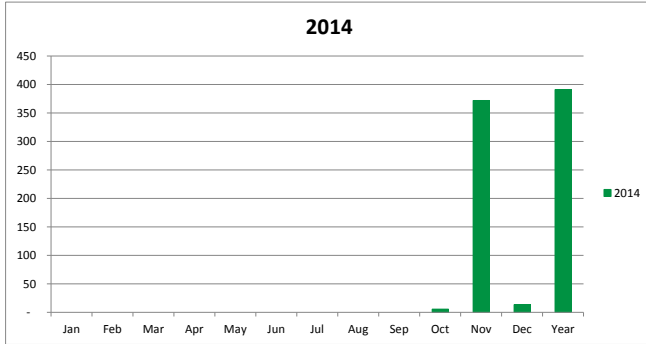
Unit: Riverton 12

Data: Equivalent Forced Outage Rate (%)



Unit: Riverton 12

Data: Length and timing of planned outages - Scheduled Outage Hours



Data through June, 2019

Unit: Stateline Unit 1

Data: Equivalent Availability Factor (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	94.1%	100.0%	100.0%	100.0%	100.0%	100.0%	99.2%	100.0%	100.0%	100.0%	100.0%	100.0%	99.4%
2015	93.5%	99.9%	100.0%	78.1%	99.0%	100.0%	100.0%	100.0%	77.3%	92.8%	100.0%	100.0%	95.1%
2016	100.0%	100.0%	100.0%	100.0%	100.0%	97.2%	100.0%	100.0%	100.0%	100.0%	88.6%	77.4%	96.9%
2017	100.0%	100.0%	98.8%	70.0%	87.9%	99.6%	100.0%	100.0%	43.3%	49.8%	18.4%	0.0%	72.2%
2018	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	90.6%	100.0%	100.0%	94.4%	91.7%	100.0%	48.5%
2019	91.5%	100.0%	96.0%	100.0%	100.0%	95.2%							

Unit: Stateline Unit 1

Data: Equivalent Forced Outage Rate (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	19.4%	0.0%	0.0%	0.0%		0.0%	21.4%
2015		3.5%	0.0%	0.0%	14.1%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%		18.1%
2016	0.0%	0.0%		0.0%		70.1%	0.0%	0.0%	0.0%	0.0%			13.1%
2017	0.0%	0.0%	41.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	84.7%	100.0%	71.0%
2018	100.0%	100.0%	100.0%	100.0%			41.5%	0.0%	0.0%	74.6%	0.0%	0.0%	90.5%
2019	0.0%	0.0%	29.7%	0.0%	0.0%	0.0%							

Unit: Stateline Unit 1

Data: Length and timing of planned outages - Scheduled Outage Hours

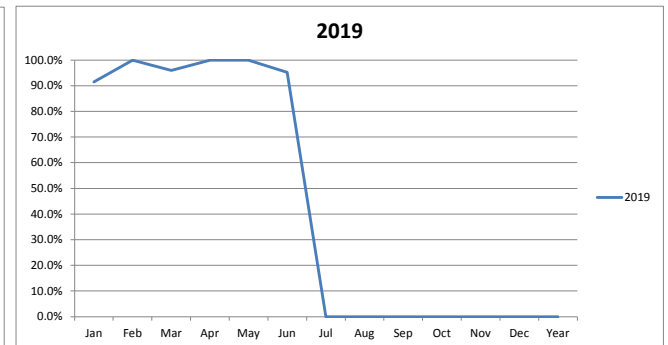
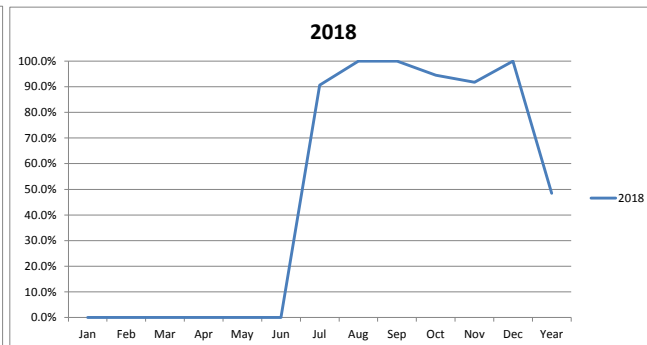
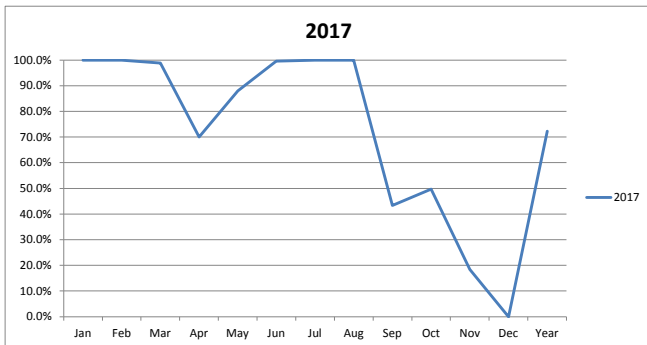
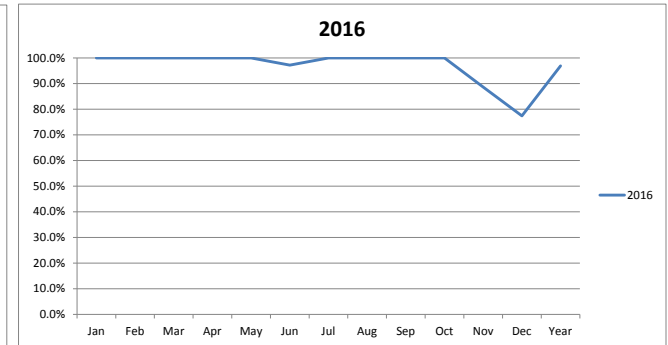
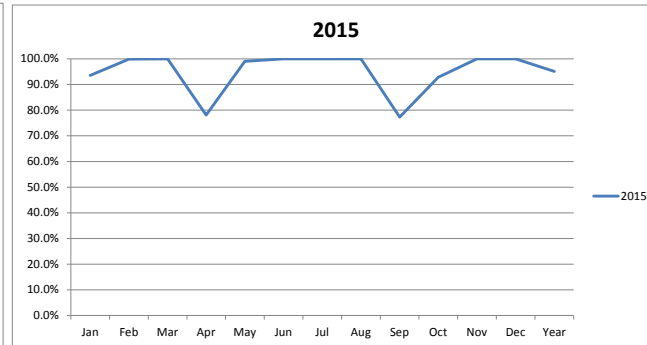
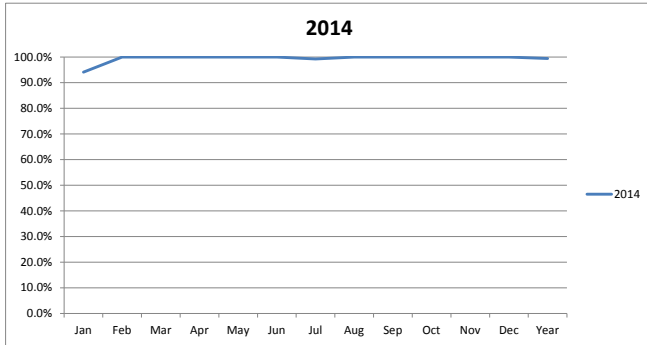
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	-	-	16	-	-	-	-	-	-	-	-	-	16
2015	48	-	-	157	-	-	-	-	163	-	-	-	369
2016	-	-	-	-	-	-	-	-	-	-	82	168	250
2017	-	-	-	216	90	3	-	-	408	374	101	-	1,192
2018	-	-	-	-	744	720	30	-	-	-	59	-	1,553
2019	63	-	-	-	-	-							

Data through June, 2019

SCHEDULE SDR-17

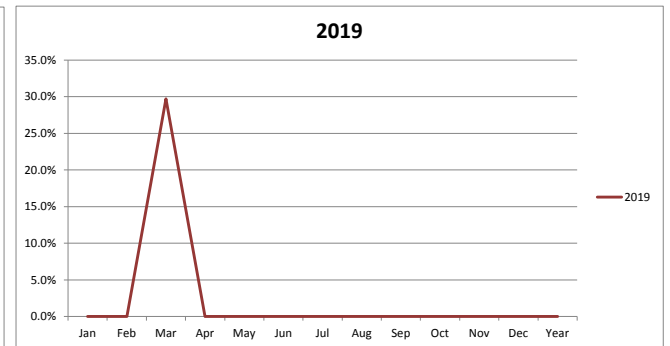
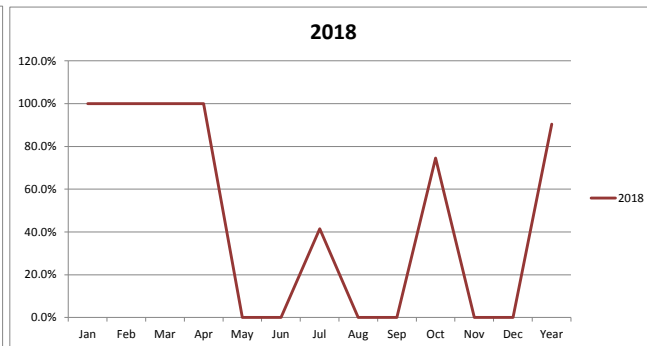
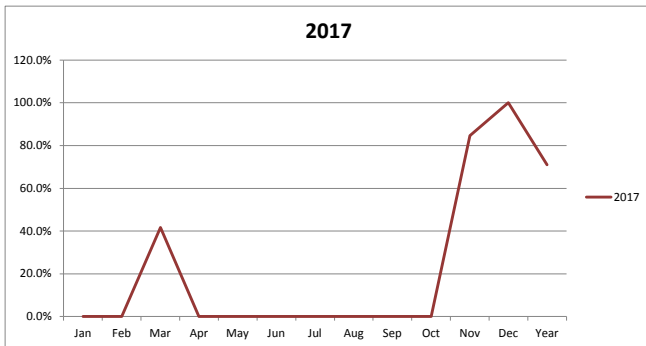
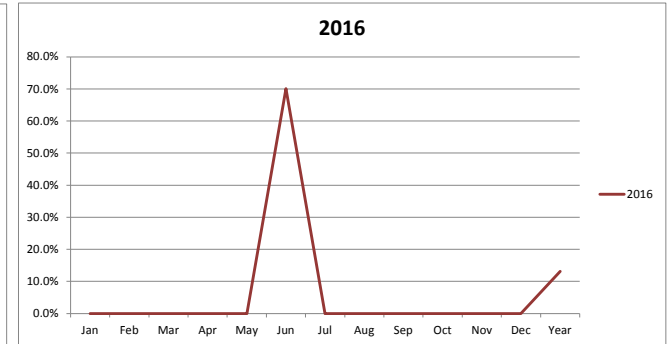
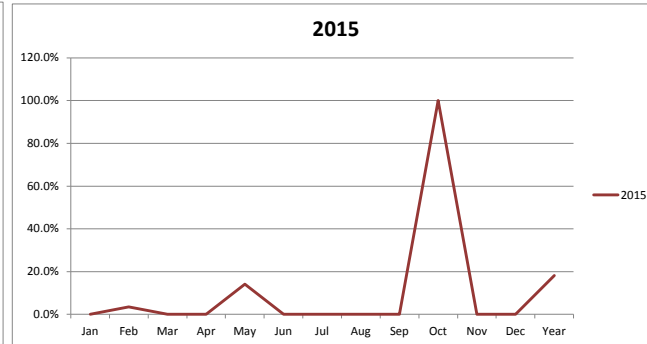
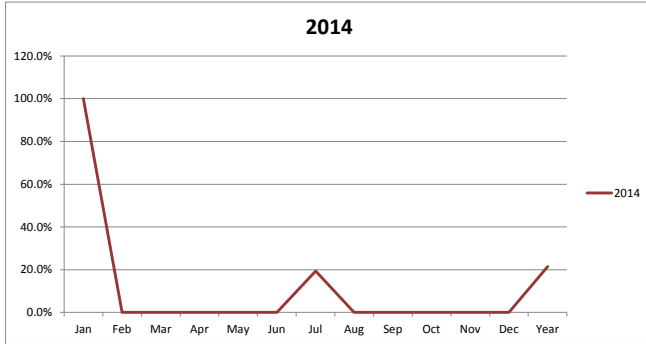
Unit: Stateline Unit 1

Data: Equivalent Availability Factor (%)



SCHEDULE SDR-17

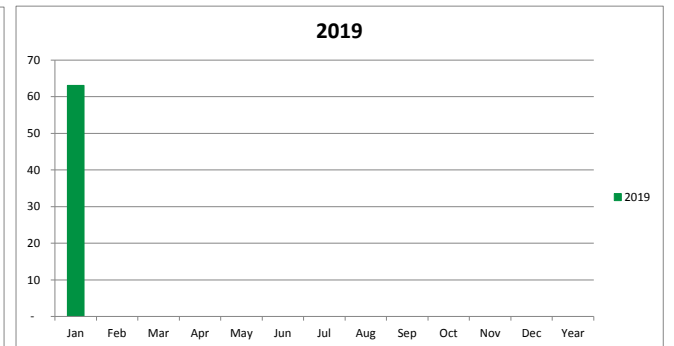
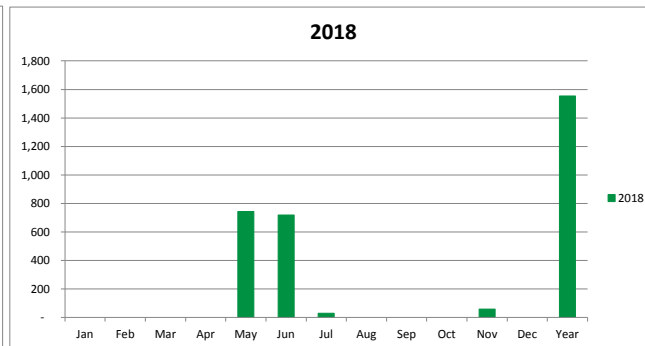
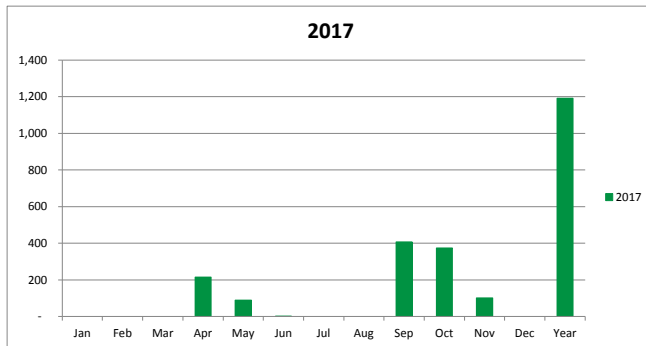
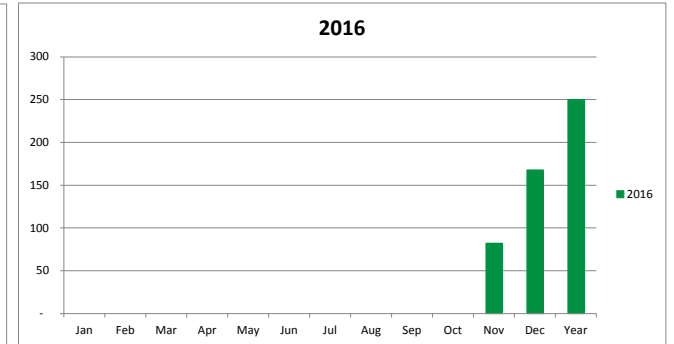
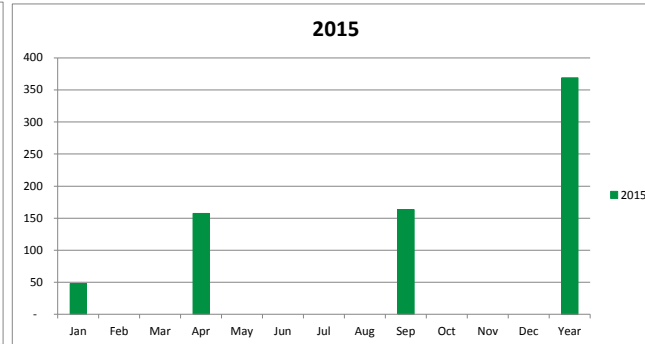
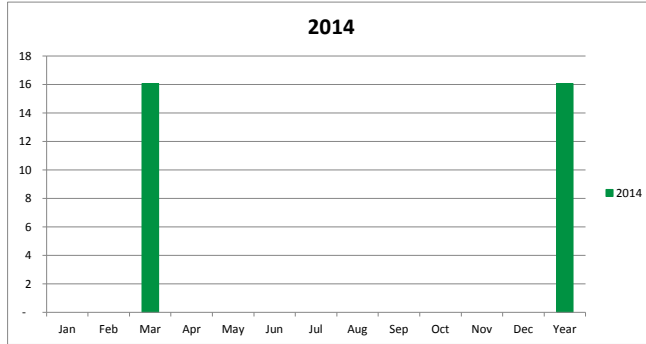
Unit: Stateline Unit 1
 Data: Equivalent Forced Outage Rate (%)



SCHEDULE SDR-17

Unit: Stateline Unit 1

Data: Length and timing of planned outages - Scheduled Outage Hours



Data through June, 2019

SCHEDULE SDR-17

Unit: Stateline CC

Data: Equivalent Availability Factor (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	99.8%	99.9%	100.0%	58.3%	61.3%	100.0%	100.0%	97.1%	99.2%	99.5%	96.3%	95.3%	92.4%
2015	100.0%	100.0%	81.2%	0.0%	12.9%	98.3%	93.4%	99.9%	100.0%	81.5%	99.6%	99.6%	80.4%
2016	100.0%	100.0%	83.8%	87.7%	94.7%	99.7%	99.8%	100.0%	98.4%	100.0%	70.0%	100.0%	94.5%
2017	95.6%	100.0%	88.5%	38.0%	99.6%	99.6%	100.0%	-8.9%	94.1%	50.1%	79.4%	98.9%	77.3%
2018	100.0%	98.2%	88.4%	0.0%	88.0%	99.2%	86.4%	100.0%	98.0%	84.0%	73.6%	99.9%	84.7%
2019	91.5%	100.0%	96.0%	100.0%	68.7%	95.6%							

Unit: Stateline CC

Data: Equivalent Forced Outage Rate (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.5%	0.0%	0.5%
2015	0.0%	0.0%	0.0%	0.0%	9.1%	2.2%	0.0%	0.0%	0.0%	0.0%	0.4%	0.7%	3.1%
2016	0.1%	0.0%	0.0%	0.0%	3.6%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%
2017	4.9%	0.0%	0.0%	3.6%	0.5%	0.4%	0.0%	8.1%	0.9%	0.0%	4.7%	1.1%	2.0%
2018	0.0%	1.8%	0.1%	0.0%	0.5%	0.1%	2.1%	0.0%	2.0%	0.1%	5.7%	0.1%	1.0%
2019	0.0%	0.0%	2.0%	0.6%	4.6%	4.5%							

Unit: Stateline CC

Data: Length and timing of planned outages - Scheduled Outage Hours

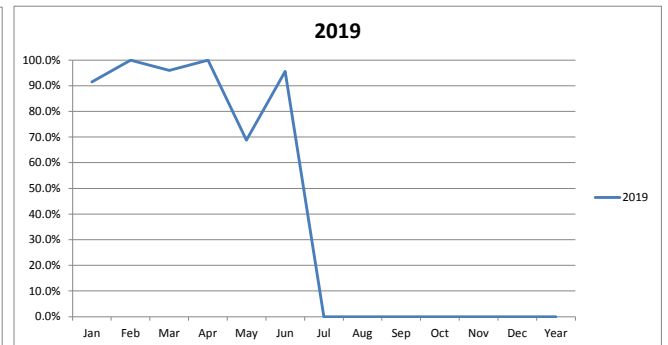
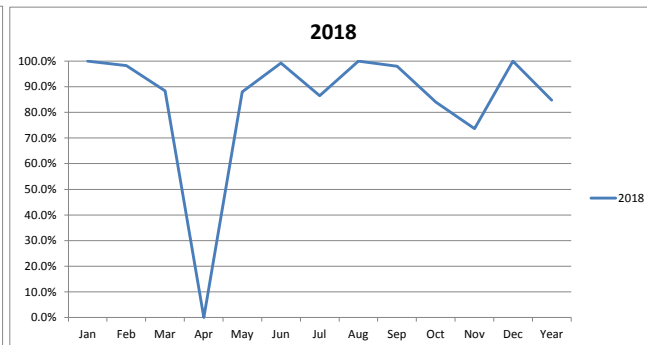
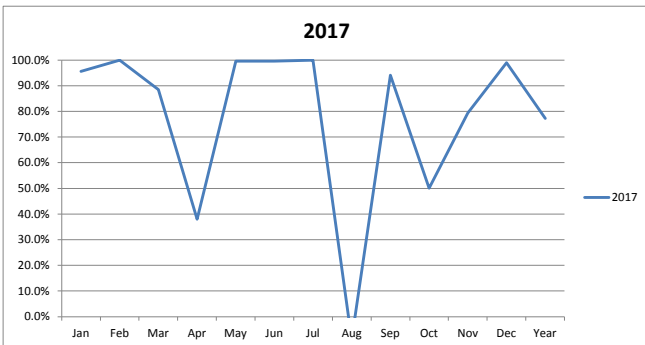
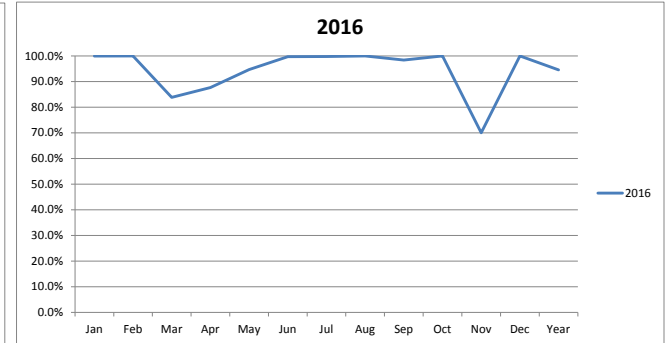
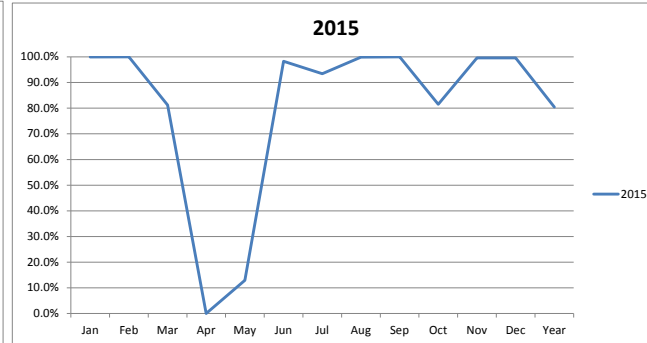
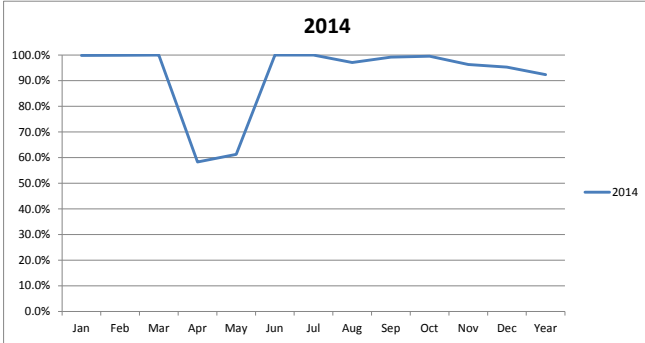
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2014	-	-	-	288	90	-	-	-	6	-	-	35	418
2015	-	-	96	720	638	-	48	-	-	-	-	-	1,502
2016	-	-	96	89	21	-	-	-	-	-	216	-	421
2017	-	-	-	322	-	-	-	-	-	263	85	-	670
2018	-	-	86	720	71	-	74	-	-	119	103	-	1,172
2019	-	-	-	-	221	-							

Data through June, 2019

SCHEDULE SDR-17

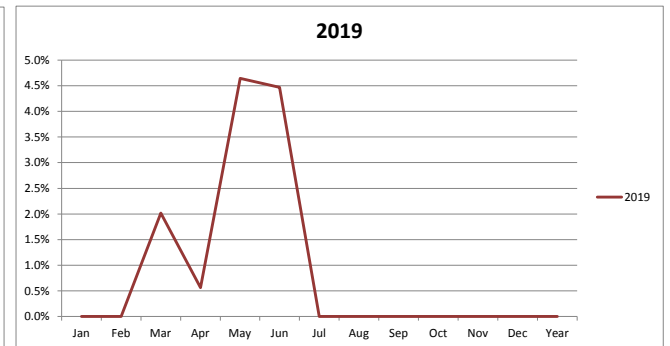
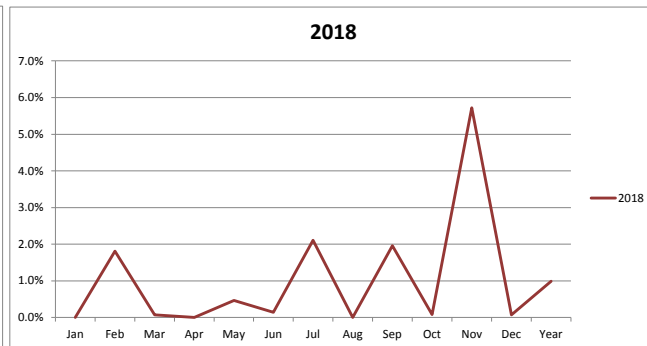
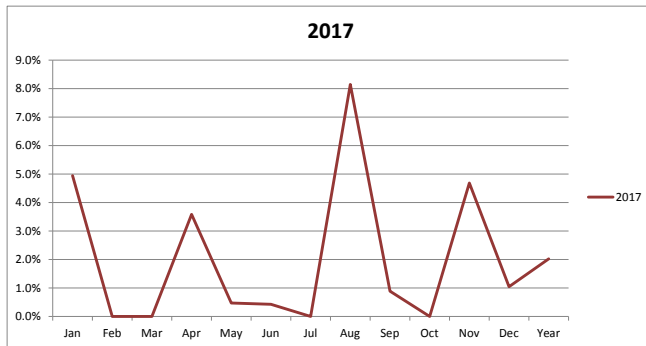
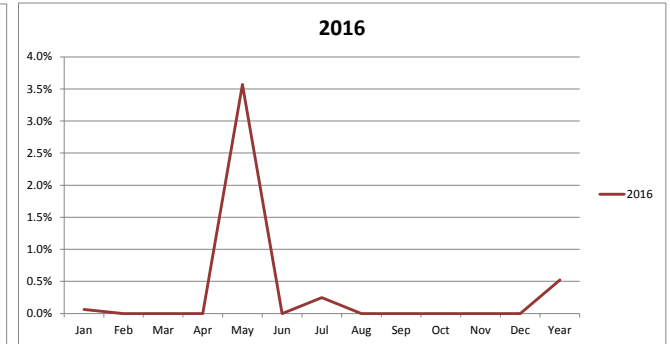
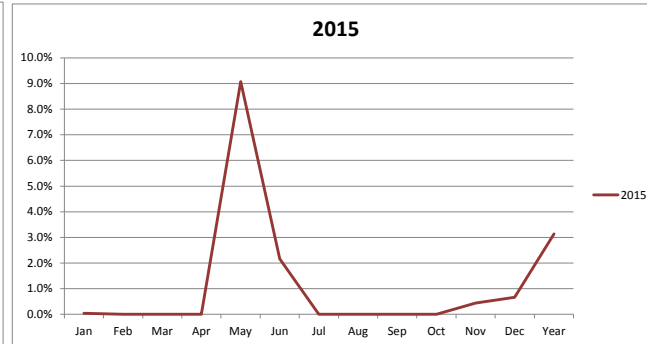
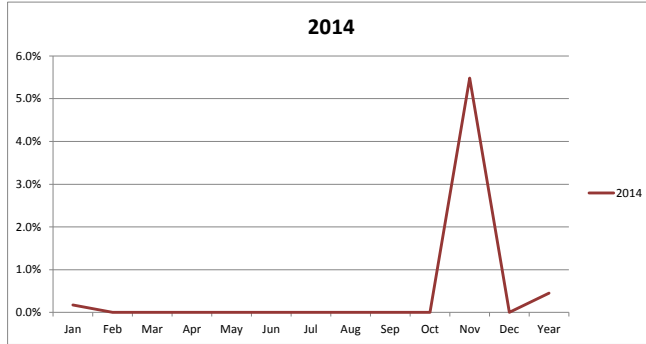
Unit: Stateline CC

Data: Equivalent Availability Factor (%)



SCHEDULE SDR-17

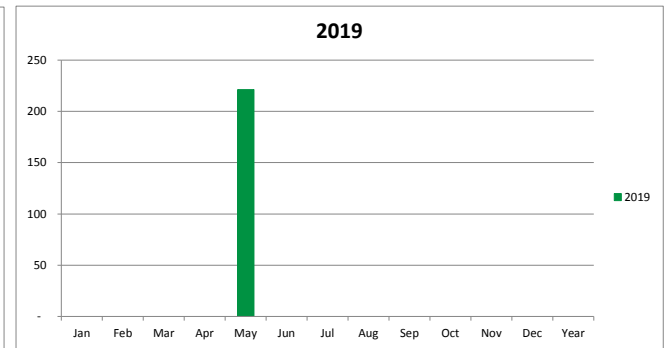
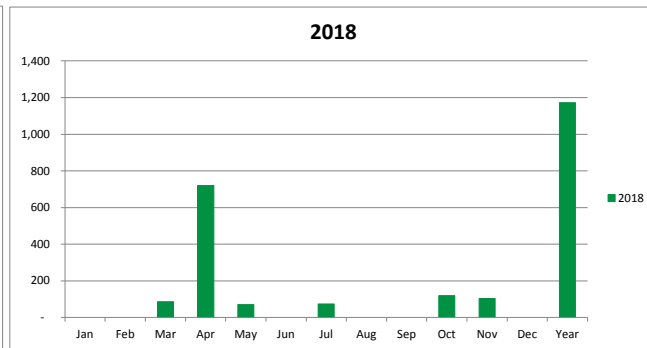
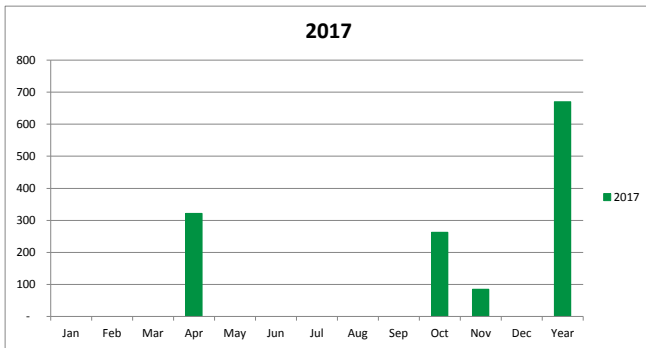
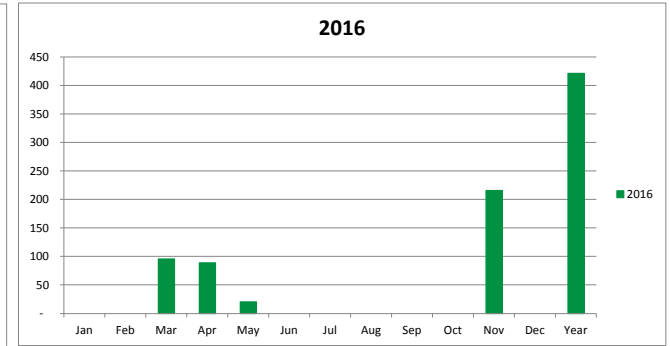
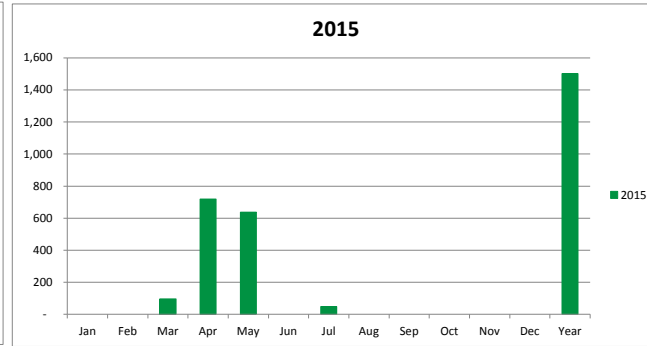
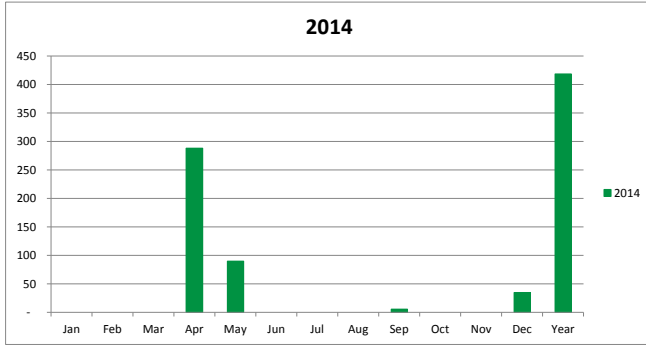
Unit: Stateline CC
 Data: Equivalent Forced Outage Rate (%)



SCHEDULE SDR-17

Unit: Stateline CC

Data: Length and timing of planned outages - Scheduled Outage Hours



Data through June, 2019