

AUSTIN ENERGY'S TARIFF PACKAGE: §
2015 COST OF SERVICE § BEFORE THE CITY OF AUSTIN
STUDY AND PROPOSAL TO CHANGE § IMPARTIAL HEARING EXAMINER
BASE ELECTRIC RATES §

**AUSTIN ENERGY'S SECOND SUPPLEMENTAL RESPONSE TO THE
INDEPENDENT CONSUMER ADVOCATE'S
FIRST REQUEST FOR INFORMATION**

Austin Energy ("AE") files this Second Supplemental Response to The Independent Consumer Advocate's ("ICA") First Request for Information.

Respectfully submitted,

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CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of this pleading has been served on all parties and the Impartial Hearing Examiner on this 25th day of March, 2016, in accordance with the City of Austin Procedural Rules for the Initial Review of Austin Energy's Rates.

THOMAS L. BROCATO

AUSTIN ENERGY
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Austin Energy's Second Supplemental Response to ICA's 1st RFI

ICA 1-5 For each power plant owned by the City of Austin, and each multi-year firm power supply contract, provide the following information:

- A. Max. dependable output or capacity (MW);
- B. average annual capacity factor;
- C. energy output by month during the test period;
- D. capacity factor for each month during the test period;
- E. Expected remaining life (years and retirement date);
- F. fixed O&M cost (cents/kWh);
- G. variable O&M cost (cents/kWh);
- H. expected fuel cost (cents/kWh);
- I. year of initial in-service;
- J. original cost of plant investment (installed \$/kW);
- K. original cost of installed capital additions in excess of \$1 million; and
- L. marginal cost.

To the extent possible, please provide this data in functioning excel spreadsheet format.

ANSWER:

- A. See Attachment 1.
- B. See Attachment 1.
- C. See Attachment 2.
- D. See Attachment 2.
- E. See AE's Response to NXP/Samsung RFI No. 1-112.
- F. See Schedule D-1 in the RFP for historical and test year amounts of O&M including fuel costs for owned generation (FERCs 501, 518 and 547). Additional production information is included in WP G-2 and in Austin Energy's 2014 Annual Performance Report that is publically available at the link below:

<http://austinenenergy.com/wps/wcm/connect/29f18bbd-b1f0-4a88-8fd0-1679564c034f/2014AnnualPerformanceReport.pdf.pdf?MOD=AJPERES>

- G. See response to subpart (F) above.
- H. See response to subpart (F) above.
- I. See Attachment 1.
- J. See table below:

<u>Power Production</u>	<u>Original Cost of Plant Investment</u>	<u>Original Cost of Installed Capital Additions in Excess of \$1 Million</u>
Decker	209,026,980.69	161,316,207.04
Sandhill	350,988,751.42	340,489,652.14
South Texas Project	955,556,632.92	931,192,991.00
Fayette Power Project	524,576,726.59	501,062,787.01
Total Power Production	\$ 2,040,149,091.62	\$ 1,934,061,637.19

- K. See table in subpart (J) above.
- L. See response to subpart (F) above.

Prepared by: RM
Sponsored by: Elaina Ball

Generation Capacity/Capacity Factor

Table 19: Generation Capacity and Capacity Factor

Unit	Installed	Fuel Type	Capacity Rating (MW)	Net Generation (MWh) FY 2014	Capacity Factor %
Sand Hill 5A (gas) (combined cycle)	2003	Natural Gas	172	665,701	51.26%
Sand Hill 5C (steam) (combined cycle)	2003	Natural Gas	150	406,804	31.05%
Sand Hill GT 1 (simple cycle)	2001	Natural Gas	45	48,795	12.76%
Sand Hill GT 2 (simple cycle)	2001	Natural Gas	45	44,820	11.75%
Sand Hill GT 3 (simple cycle)	2001	Natural Gas	45	43,867	11.45%
Sand Hill GT 4 (simple cycle)	2001	Natural Gas	45	51,553	13.38%
Sand Hill GT 6 (simple cycle)	2010	Natural Gas	45	45,718	12.10%
Sand Hill GT 7 (simple cycle)	2010	Natural Gas	45	47,665	12.60%
Decker 1 (steam cycle)	1970-1977	Natural Gas	321	125,339	4.70%
Decker 2 (steam cycle)	1970-1977	Natural Gas	405	227,110	6.87%
Decker GT 1 (simple cycle)	1988	Natural Gas	50	10,583	2.49%
Decker GT 2 (simple cycle)	1988	Natural Gas	50	9,145	2.15%
Decker GT 3 (simple cycle)	1988	Natural Gas	50	8,563	1.98%
Decker GT 4 (simple cycle)	1988	Natural Gas	50	2,817	0.68%
Fayette 1 (steam cycle)	1979-80	Coal	285	1,530,965	60.93%
Fayette 2 (steam cycle)	1979-80	Coal	285	2,093,954	81.09%
South Texas Project 1 (steam cycle)	1988-89	Nuclear	200	1,374,381	74.9%
South Texas Project 2 (steam cycle)	1988-89	Nuclear	200	1,673,511	91.3%
Total	n/a	n/a	2,488	8,410,991	n/a

Note: This generation data reports only Austin Energy's 50 percent share of units 1 and 2 at the Fayette Power Project (coal) and 16 percent share of the South Texas Project (nuclear).

Date	Unit Id	Installed	Fuel Type	Net		
				Capacity Rating (MW)	Generation MWh	Gross Capacity Factor %
Oct-13	FPP1	1979-80	Coal	299	140,478	63.15
Oct-13	FPP2	1979-80	Coal	299	179,628	80.75
Oct-13	SA	2003	Natural Gas	155	55,406	50.12
Oct-13	SC	2003	Natural Gas	152	29,211	26.16
Oct-13	S1	2001	Natural Gas	45	2,659	8.36
Oct-13	S2	2001	Natural Gas	45	1,719	5.37
Oct-13	S3	2001	Natural Gas	45	1,461	4.44
Oct-13	S4	2001	Natural Gas	45	3,904	11.84
Oct-13	S6	2010	Natural Gas	45	2,631	8.36
Oct-13	S7	2010	Natural Gas	45	2,634	8.35
Oct-13	D1	1970-1977	Natural Gas	321	7,293	3.14
Oct-13	D2	1970-1977	Natural Gas	405	26,309	9.19
Oct-13	G1	1988	Natural Gas	50	109	0.30
Oct-13	G2	1988	Natural Gas	50	30	0.08
Oct-13	G3	1988	Natural Gas	50	936	2.54
Oct-13	G4	1988	Natural Gas	50	330	0.89
Oct-13	STP1	1988-89	Nuclear	206	75,942	51.01
Oct-13	STP2	1988-89	Nuclear	207	159,225	106.96
Nov-13	FPP1	1979-80	Coal	299	-	0.00
Nov-13	FPP2	1979-80	Coal	299	168,992	78.50
Nov-13	SA	2003	Natural Gas	155	52,078	48.25
Nov-13	SC	2003	Natural Gas	152	25,727	24.38
Nov-13	S1	2001	Natural Gas	45	3,795	12.19
Nov-13	S2	2001	Natural Gas	45	3,833	12.42
Nov-13	S3	2001	Natural Gas	45	815	2.53
Nov-13	S4	2001	Natural Gas	45	4,365	13.52
Nov-13	S6	2010	Natural Gas	45	2,323	7.50
Nov-13	S7	2010	Natural Gas	45	2,793	8.98
Nov-13	D1	1970-1977	Natural Gas	321	-	0.00
Nov-13	D2	1970-1977	Natural Gas	405	10,981	4.06
Nov-13	G1	1988	Natural Gas	50	755	2.11
Nov-13	G2	1988	Natural Gas	50	400	1.12
Nov-13	G3	1988	Natural Gas	50	856	2.39
Nov-13	G4	1988	Natural Gas	50	311	0.87
Nov-13	STP1	1988-89	Nuclear	206	156,423	108.42
Nov-13	STP2	1988-89	Nuclear	207	82,211	56.98
Dec-13	FPP1	1979-80	Coal	299	123,679	55.60
Dec-13	FPP2	1979-80	Coal	299	203,362	91.42
Dec-13	SA	2003	Natural Gas	155	75,050	68.82
Dec-13	SC	2003	Natural Gas	152	39,987	35.36
Dec-13	S1	2001	Natural Gas	45	5,777	17.76
Dec-13	S2	2001	Natural Gas	45	3,124	9.65
Dec-13	S3	2001	Natural Gas	45	3,365	10.39
Dec-13	S4	2001	Natural Gas	45	5,850	17.98
Dec-13	S6	2010	Natural Gas	45	3,591	11.25
Dec-13	S7	2010	Natural Gas	45	4,410	13.78
Dec-13	D1	1970-1977	Natural Gas	321	1,596	0.68
Dec-13	D2	1970-1977	Natural Gas	405	23,331	8.43
Dec-13	G1	1988	Natural Gas	50	164	0.44
Dec-13	G2	1988	Natural Gas	50	535	1.45
Dec-13	G3	1988	Natural Gas	50	294	0.80
Dec-13	G4	1988	Natural Gas	50	39	0.15
Dec-13	STP1	1988-89	Nuclear	206	161,280	108.33
Dec-13	STP2	1988-89	Nuclear	207	43,288	29.08
Jan-14	FPP1	1979-80	Coal	299	167,906	75.48
Jan-14	FPP2	1979-80	Coal	299	189,507	85.19
Jan-14	SA	2003	Natural Gas	155	60,380	55.36
Jan-14	SC	2003	Natural Gas	152	32,173	28.45

Unit ID Legend

SA = Sand Hill SA (Combined Cycle)

SC = Sand Hill SC (Combined Cycle)

S1 = Sand Hill GT 1

S2 = Sand Hill GT2

S3 = Sand Hill GT3

S4 = Sand Hill GT4

S6 = Sand Hill GT6

S7=Sand Hill GT7

D1= Decker 1

D2=Decker 2

G1=Decker GT1

G2=Decker GT2

G3=Decker GT3

G4=Decker GT4

FFP1 = Fayette Power Project Unit 1 (coal)

FFP2 = Fayette Power Project Unit 2 (coal)

STP1=South Texas Nuclear Plant Unit 1

STP2=South Texas Nuclear Plant Unit 2

Date	Unit Id	Installed	Fuel Type	Capacity Rating (MW)	Net Generation	Gross Capacity
					MWh	Factor %
Jan-14	S1	2001	Natural Gas	45	2,904	9.01
Jan-14	S2	2001	Natural Gas	45	1,960	6.12
Jan-14	S3	2001	Natural Gas	45	1,825	5.70
Jan-14	S4	2001	Natural Gas	45	3,091	9.58
Jan-14	S6	2010	Natural Gas	45	1,715	5.52
Jan-14	S7	2010	Natural Gas	45	2,548	8.12
Jan-14	D1	1970-1977	Natural Gas	321	13,598	6.07
Jan-14	D2	1970-1977	Natural Gas	405	(275)	0.00
Jan-14	G1	1988	Natural Gas	50	1,348	3.70
Jan-14	G2	1988	Natural Gas	50	1,321	3.60
Jan-14	G3	1988	Natural Gas	50	1,217	3.28
Jan-14	G4	1988	Natural Gas	50	671	1.85
Jan-14	STP1	1988-89	Nuclear	206	159,512	107.15
Jan-14	STP2	1988-89	Nuclear	207	160,284	107.67
Feb-14	FPP1	1979-80	Coal	299	173,539	86.37
Feb-14	FPP2	1979-80	Coal	299	170,272	84.74
Feb-14	5A	2003	Natural Gas	155	27,390	27.69
Feb-14	5C	2003	Natural Gas	152	13,961	13.67
Feb-14	S1	2001	Natural Gas	45	4,133	14.12
Feb-14	S2	2001	Natural Gas	45	3,170	10.86
Feb-14	S3	2001	Natural Gas	45	3,213	11.00
Feb-14	S4	2001	Natural Gas	45	4,799	16.38
Feb-14	S6	2010	Natural Gas	45	4,255	14.75
Feb-14	S7	2010	Natural Gas	45	3,768	13.08
Feb-14	D1	1970-1977	Natural Gas	321	17,299	8.46
Feb-14	D2	1970-1977	Natural Gas	405	(242)	0.00
Feb-14	G1	1988	Natural Gas	50	513	1.60
Feb-14	G2	1988	Natural Gas	50	1,181	3.58
Feb-14	G3	1988	Natural Gas	50	891	2.65
Feb-14	G4	1988	Natural Gas	50	100	0.35
Feb-14	STP1	1988-89	Nuclear	206	144,187	107.23
Feb-14	STP2	1988-89	Nuclear	207	144,724	107.63
Mar-14	FPP1	1979-80	Coal	299	194,253	87.44
Mar-14	FPP2	1979-80	Coal	299	199,459	89.78
Mar-14	5A	2003	Natural Gas	155	(175)	0.00
Mar-14	5C	2003	Natural Gas	152	r	0.00
Mar-14	S1	2001	Natural Gas	45	2,950	9.16
Mar-14	S2	2001	Natural Gas	45	2,530	7.87
Mar-14	S3	2001	Natural Gas	45	2,287	7.12
Mar-14	S4	2001	Natural Gas	45	2,387	7.43
Mar-14	S6	2010	Natural Gas	45	2,945	9.21
Mar-14	S7	2010	Natural Gas	45	2,353	7.38
Mar-14	D1	1970-1977	Natural Gas	321	13,422	5.95
Mar-14	D2	1970-1977	Natural Gas	405	(243)	0.00
Mar-14	G1	1988	Natural Gas	50	1,773	4.85
Mar-14	G2	1988	Natural Gas	50	817	2.26
Mar-14	G3	1988	Natural Gas	50	882	2.38
Mar-14	G4	1988	Natural Gas	50	270	0.78
Mar-14	STP1	1988-89	Nuclear	206	76,236	51.28
Mar-14	STP2	1988-89	Nuclear	207	159,383	107.20
Apr-14	FPP1	1979-80	Coal	299	7,018	3.26
Apr-14	FPP2	1979-80	Coal	299	156,635	72.76
Apr-14	5A	2003	Natural Gas	155	-	0.00
Apr-14	5C	2003	Natural Gas	152	-	0.00
Apr-14	S1	2001	Natural Gas	45	796	2.69
Apr-14	S2	2001	Natural Gas	45	1,494	4.92
Apr-14	S3	2001	Natural Gas	45	2,336	7.61
Apr-14	S4	2001	Natural Gas	45	1,909	6.24

Date	Unit Id	Installed	Fuel Type	Capacity Rating (MW)	Net , Generation MWh	Gross Capacity Factor %
Apr-14	S6	2010	Natural Gas	45	2,719	8.99
Apr-14	S7	2010	Natural Gas	45	2,450	8.12
Apr-14	D1	1970-1977	Natural Gas	321	21,595	9.88
Apr-14	D2	1970-1977	Natural Gas	405	39,240	14.82
Apr-14	G1	1988	Natural Gas	50	423	1.23
Apr-14	G2	1988	Natural Gas	50	247	0.73
Apr-14	G3	1988	Natural Gas	50	246	0.69
Apr-14	G4	1988	Natural Gas	50	(8)	0.01
Apr-14	STP1	1988-89	Nuclear	206	1	0.00
Apr-14	STP2	1988-89	Nuclear	207	153,215	106.35
May-14	FPP1	1979-80	Coal	299	125,125	56.25
May-14	FPP2	1979-80	Coal	299	205,300	92.29
May-14	SA	2003	Natural Gas	155	33,625	30.70
May-14	SC	2003	Natural Gas	152	21,211	18.76
May-14	S1	2001	Natural Gas	45	3,140	9.88
May-14	S2	2001	Natural Gas	45	2,744	8.65
May-14	S3	2001	Natural Gas	45	4,439	13.90
May-14	S4	2001	Natural Gas	45	3,777	11.85
May-14	S6	2010	Natural Gas	45	2,692	8.58
May-14	S7	2010	Natural Gas	45	2,715	8.65
May-14	D1	1970-1977	Natural Gas	321	(360)	0.00
May-14	D2	1970-1977	Natural Gas	405	15,036	5.71
May-14	G1	1988	Natural Gas	50	724	2.01
May-14	G2	1988	Natural Gas	50	568	1.59
May-14	G3	1988	Natural Gas	50	546	1.47
May-14	G4	1988	Natural Gas	50	233	0.68
May-14	STP1	1988-89	Nuclear	206	127	0.09
May-14	STP2	1988-89	Nuclear	207	157,300	105.66
Jun-14	FPP1	1979-80	Coal	299	202,924	94.26
Jun-14	FPP2	1979-80	Coal	299	185,018	85.94
Jun-14	SA	2003	Natural Gas	155	84,209	80.06
Jun-14	SC	2003	Natural Gas	152	55,596	50.80
Jun-14	S1	2001	Natural Gas	45	4,440	14.37
Jun-14	S2	2001	Natural Gas	45	3,437	11.16
Jun-14	S3	2001	Natural Gas	45	4,114	13.33
Jun-14	S4	2001	Natural Gas	45	3,724	12.08
Jun-14	S6	2010	Natural Gas	45	3,429	11.51
Jun-14	S7	2010	Natural Gas	45	3,283	11.03
Jun-14	D1	1970-1977	Natural Gas	321	(379)	0.00
Jun-14	D2	1970-1977	Natural Gas	405	15,358	6.01
Jun-14	G1	1988	Natural Gas	50	664	1.92
Jun-14	G2	1988	Natural Gas	50	289	0.85
Jun-14	G3	1988	Natural Gas	50	240	0.67
Jun-14	G4	1988	Natural Gas	50	49	0.19
Jun-14	STP1	1988-89	Nuclear	206	140,165	97.29
Jun-14	STP2	1988-89	Nuclear	207	151,359	105.06
Jul-14	FPP1	1979-80	Coal	299	159,138	71.54
Jul-14	FPP2	1979-80	Coal	299	157,900	70.98
Jul-14	SA	2003	Natural Gas	155	95,411	87.54
Jul-14	SC	2003	Natural Gas	152	67,731	59.89
Jul-14	S1	2001	Natural Gas	45	6,447	20.15
Jul-14	S2	2001	Natural Gas	45	6,805	21.34
Jul-14	S3	2001	Natural Gas	45	6,789	21.17
Jul-14	S4	2001	Natural Gas	45	6,168	19.24
Jul-14	S6	2010	Natural Gas	45	4,928	15.63
Jul-14	S7	2010	Natural Gas	45	5,595	17.72
Jul-14	D1	1970-1977	Natural Gas	321	6,240	2.88
Jul-14	D2	1970-1977	Natural Gas	405	35,023	12.62

Date	Unit Id	Installed	Fuel Type	Capacity Rating (MW)	Net Generation	Gross Capacity Factor %
					MWh	
Jul-14	G1	1988	Natural Gas	50	795	2.21
Jul-14	G2	1988	Natural Gas	50	741	2.04
Jul-14	G3	1988	Natural Gas	50	445	1.20
Jul-14	G4	1988	Natural Gas	50	8	0.07
Jul-14	STP1	1988-89	Nuclear	206	154,903	104.05
Jul-14	STP2	1988-89	Nuclear	207	155,609	104.53
Aug-14	FPP1	1979-80	Coal	299	96,089	43.19
Aug-14	FPP2	1979-80	Coal	299	135,514	60.92
Aug-14	5A	2003	Natural Gas	153	102,087	93.22
Aug-14	5C	2003	Natural Gas	152	69,585	63.91
Aug-14	S1	2001	Natural Gas	49	7,456	21.40
Aug-14	S2	2001	Natural Gas	49	9,272	26.67
Aug-14	S3	2001	Natural Gas	49	8,242	23.51
Aug-14	S4	2001	Natural Gas	49	7,373	20.99
Aug-14	S6	2010	Natural Gas	49	8,575	24.60
Aug-14	S7	2010	Natural Gas	49	9,424	27.05
Aug-14	D1	1970-1977	Natural Gas	316	45,035	19.70
Aug-14	D2	1970-1977	Natural Gas	430	51,335	16.83
Aug-14	G1	1988	Natural Gas	46	2,382	7.01
Aug-14	G2	1988	Natural Gas	46	2,102	6.18
Aug-14	G3	1988	Natural Gas	46	1,462	4.29
Aug-14	G4	1988	Natural Gas	46	386	1.13
Aug-14	STP1	1988-89	Nuclear	206	154,813	103.99
Aug-14	STP2	1988-89	Nuclear	207	155,514	104.46
Sep-14	FPP1	1979-80	Coal	299	140,816	65.41
Sep-14	FPP2	1979-80	Coal	299	142,367	66.13
Sep-14	5A	2003	Natural Gas	165	80,240	70.24
Sep-14	5C	2003	Natural Gas	150	51,622	49.70
Sep-14	S1	2001	Natural Gas	48	4,298	13.04
Sep-14	S2	2001	Natural Gas	48	4,732	14.32
Sep-14	S3	2001	Natural Gas	48	4,981	15.10
Sep-14	S4	2001	Natural Gas	48	4,206	12.72
Sep-14	S6	2010	Natural Gas	48	5,915	17.93
Sep-14	S7	2010	Natural Gas	48	5,693	17.21
Sep-14	D1	1970-1977	Natural Gas	325	-	0.00
Sep-14	D2	1970-1977	Natural Gas	435	11,256	3.79
Sep-14	G1	1988	Natural Gas	48	933	2.72
Sep-14	G2	1988	Natural Gas	48	913	2.66
Sep-14	G3	1988	Natural Gas	48	548	1.59
Sep-14	G4	1988	Natural Gas	48	428	1.24
Sep-14	STP1	1988-89	Nuclear	206	150,793	104.67
Sep-14	STP2	1988-89	Nuclear	207	151,399	105.09