

May 2nd, 2023

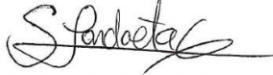
Commission Clerk
Public Service Commission
2540 Shumard Oak Blvd.
Tallahassee, FL 32399-0850

Commission Clerk:

On behalf of JEA, please accept the 2023 Ten-Year Site Plan Data Request #1- Excel Tables. Please note that this filing includes information that was not included in the first E-filing #32989.

If you have any questions, please contact me by email at landsg@jea.com.

Sincerely,



Stephany Landaeta Gutierrez
Associate Engineer

JEA

2023 TYSP - Data Request #1.Excel Tables

Financial Assumptions

Base Case

AFUDC RATE	<u>4</u>	%
CAPITALIZATION RATIOS:		
DEBT	<u>100</u>	%
PREFERRED	<u>0</u>	%
EQUITY	<u>0</u>	%
RATE OF RETURN		
DEBT	<u>4</u>	%
PREFERRED	<u>0</u>	%
EQUITY	<u>0</u>	%
INCOME TAX RATE:		
STATE	<u>0</u>	%
FEDERAL	<u>0</u>	%
EFFECTIVE	<u>0</u>	%
OTHER TAX RATE:	<u>0</u>	%
DISCOUNT RATE:	<u>4</u>	%
TAX		
DEPRECIATION RATE:	<u>N/A</u>	%

2023 TYSP - Data Request #1.Excel Tables

Financial Escalation Assumptions

Year	General	Plant Construction	Fixed O&M	Variable O&M
	Inflation	Cost	Cost	Cost
	%	%	%	%
2023	3	3	3	3
2024	3	3	3	3
2025	3	3	3	3
2026	3	3	3	3
2027	3	3	3	3
2028	3	3	3	3
2029	3	3	3	3
2030	3	3	3	3
2031	3	3	3	3
2032	3	3	3	3

TYSP Year 2023
 Staff's Data Request # 1
 Question No. 5

Year	Month	Actual	Demand	Estimated	Day	Hour	System-Average
		Peak Demand	Response Activated	Peak Demand			Temperature
		(MW)	(MW)	(MW)			(Degrees F)
2022	1	2529	0	2529	30	8	40
	2	2211	0	2211	10	8	51
	3	1862	0	1862	13	10	42
	4	2007	0	2007	26	17	73
	5	2452	0	2452	19	17	81
	6	2728	0	2728	23	17	87
	7	2598	0	2598	7	16	86
	8	2612	0	2612	2	17	85
	9	2574	0	2574	6	18	85
	10	1999	0	1999	13	17	76
	11	1899	0	1899	1	17	75
	12	2599	0	2599	25	9	34
2021	1	2362	0	2362	19	8	47
	2	2532	0	2532	4	8	46
	3	2003	0	2003	26	18	76
	4	2052	0	2052	29	18	74
	5	2372	0	2372	4	18	81
	6	2432	0	2432	15	16	83
	7	2511	0	2511	22	17	84
	8	2498	0	2498	31	17	83
	9	2305	0	2305	2	15	82
	10	2136	0	2136	1	17	77
	11	1859	0	1859	30	8	51

	12	1803	0	1803	23	9	51
2020	1	2445	0	2445	22	8	43
	2	2027	0	2027	28	8	48
	3	2076	0	2076	28	18	78
	4	2108	0	2108	9	18	81
	5	2286	0	2286	22	16	80
	6	2582	0	2582	29	18	84
	7	2527	0	2527	13	18	84
	8	2578	0	2578	4	17	83
	9	2487	0	2487	4	16	87
	10	2160	0	2160	29	17	80
	11	1817	0	1817	10	15	78
	12	2344	0	2344	27	8	43
Notes							
2020 values were corrected							

TYSP Year 2023
 Staff's Data Request # 1
 Question No. 22

Year	Number of PEVs	Number of Public PEV Charging Stations	Number of Public DCFC PEV Charging Stations.	Cumulative Impact of PEVs		
				Summer Demand	Winter Demand	Annual Energy
				(MW)	(MW)	(GWh)
2023	5,739	145		2.05	0.53	23,826
2024	7,651	170		2.96	0.77	34,460
2025	9,782	197		3.98	1.04	46,335
2026	12,150	226		5.12	1.34	59,564
2027	14,772	258		6.38	1.66	74,234
2028	17,653	292		7.76	2.03	90,390
2029	20,803	328		13.54	2.42	108,085
2030	24,222	367		15.95	2.86	127,330
2031	27,920	408		18.56	3.32	148,186
2032	31,905	452		21.38	3.83	170,696
Notes						
(Include Notes Here)						

TYSP Year 2023
 Staff's Data Request # 1
 Question No. 28

[Demand Response Source or All Demand Response Sources]									
Year	Beginning Year: Number of Customers	Available Capacity (MW)		New Customers Added	Added Capacity (MW)		Customers Lost	Lost Capacity (MW)	
		Sum	Win		Sum	Win		Sum	Win
2013									
2014									
2015									
2016									
2017									
2018									
2019									
2020									
2021									
2022									
Notes									
JEA has not had a Demand Response program									

TYSP Year 2023
 Staff's Data Request # 1
 Question No. 29

[Demand Response Source or All Demand Response Sources]										
Year	Summer					Winter				
	Number of Events	Average Event Size		Maximum Event Size		Number of Events	Average Event Size		Maximum Event Size	
		MW	Number of Customers	MW	Number of Customers		MW	Number of Customers	MW	Number of Customers
2013										
2014										
2015										
2016										
2017										
2018										
2019										
2020										
2021										
2022										
Notes										
JEA has not had a Demand Response program										

TYSP Year 2023
 Staff's Data Request # 1
 Question No. 30

[Demand Response Source or All Demand Response Sources]							
Year	Average Number of Customers	Summer Peak			Winter Peak		
		Activated During Peak?	Number of Customers Activated	Capacity Activated	Activated During Peak?	Number of Customers Activated	Capacity Activated
		(Y/N)		(MW)	(Y/N)		(MW)
2013							
2014							
2015							
2016							
2017							
2018							
2019							
2020							
2021							
2022							
Notes							
JEA has not had a Demand Response program							

2023 TYSP - Data Request #1.Excel Tables

**Loss of Load Probability, Reserve Margin, and Expected Unserved Energy
Base Case Load Forecast**

Year	Annual Isolated			Annual Assisted		
	Loss of Load Probability (Days/Yr)	Reserve Margin (%) (Including Firm Purchases)	Expected Unserved Energy (MWh)	Loss of Load Probability (Days/Yr)	Reserve Margin (%) (Including Firm Purchases)	Expected Unserved Energy (MWh)
2023	0.08	16%	0	N/A	N/A	N/A
2024	0.02	19%	0	N/A	N/A	N/A
2025	0.02	22%	0.07	N/A	N/A	N/A
2026	0.01	21%	0	N/A	N/A	N/A
2027	0	20%	0	N/A	N/A	N/A
2028	0.01	19%	0	N/A	N/A	N/A
2029	0	18%	0	N/A	N/A	N/A
2030	0	19%	0	N/A	N/A	N/A
2031	0	19%	0	N/A	N/A	N/A
2032	0	18%	0	N/A	N/A	N/A

2023 TYSP - Data Request #1.Excel Tables

Existing Generating Unit Operating Performance

Plant Name	Unit No.	Planned Outage Factor (POF)		Forced Outage Factor (FOF)		Equivalent Availability Factor (EAF)		Average Net Operating Heat Rate (ANOHR)	
		Historical	Projected	Historical	Projected	Historical	Projected	Historical	Projected
Brandy Branch GT	1	1.86%	2.14%	0.32%	3.07%	97.73%	94.79%	10,487	10,168
Brandy Branch CC	2,3,4	2.06%	4.30%	0.31%	2.07%	95.60%	93.63%	6,803	6,483
GEC GT	1	3.48%	3.53%	0.22%	3.12%	97.72%	93.35%	11,186	10,670
GEC GT	2	10.35%	2.87%	0.31%	2.86%	95.83%	94.27%	10,805	10,667
Kennedy GT	7	1.39%	1.75%	4.33%	2.88%	85.17%	95.37%	10,525	10,476
Kennedy GT	8	0.94%	2.96%	9.12%	2.93%	88.40%	94.11%	10,266	10,725
Northside	1	1.11%	6.05%	1.88%	4.43%	90.90%	89.52%	10,049	9,617
Northside	2	5.34%	7.75%	2.64%	5.16%	87.76%	87.09%	10,048	9,381
Northside	3	6.47%	6.06%	2.39%	5.16%	84.60%	88.78%	10,991	10,281
Northside GT	33	0.89%	1.45%	4.30%	4.68%	86.71%	93.88%	16,709	14,034
Northside GT	34	4.03%	2.60%	3.37%	4.86%	96.19%	92.53%	19,209	14,176
Northside GT	35	2.65%	2.60%	1.19%	4.84%	97.11%	92.55%	20,176	12,341
Northside GT	36	2.22%	2.60%	4.59%	5.12%	92.97%	92.28%	18,976	13,887

NOTE: Historical - average of past three years

Projected - average of next ten years

TYSP Year 2023
 Staff's Data Request # 1
 Question No. 33

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Gross Capacity (MW)		Net Capacity (MW)		Firm Capacity (MW)		Capacity Factor
					Mo	Yr	Sum	Win	Sum	Win	Sum	Win	(%)
Brandy Branch	GT1	Duval	GT	NG	5	2001	150.5	192.7	149.9	191.2			9.47
Brandy Branch	CT2	Duval	CT	NG	5	2001	190.5	212.2	189.7	211.7			88.8
Brandy Branch	CT3	Duval	CT	NG	10	2001	190.5	212.2	189.7	211.7			88.0
Brandy Branch	STM4	Duval	CA	WH	1	2001	225	225	216.3	216.1			90.2
Greenland Energy Center	GT1	Duval	GT	NG	6	2011	150.5	192.7	149.9	191.2			19.99
Greenland Energy Center	GT2	Duval	GT	NG	6	2011	150.5	192.7	149.9	191.2			17.86
J. D. Kennedy	GT7	Duval	GT	NG	6	2000	150.5	192.7	149.9	191.2			4.98
J. D. Kennedy	GT8	Duval	GT	NG	6	2009	150.5	192.7	149.9	191.2			8.89
Northside	1	Duval	ST	PC	5	2003	310	310	293	293			27.03
Northside	2	Duval	ST	PC	4	2003	310	310	293	293			51.65
Northside	3	Duval	ST	NG	6	1977	540	540	524	524			40.18
Northside	GT3	Duval	GT	DFO	1	1975	50.4	62	50	61.6			0.19
Northside	GT4	Duval	GT	DFO	1	1975	50.4	62	50	61.6			0.16
Northside	GT5	Duval	GT	DFO	12	1974	50.4	62	50	61.6			0.11
Northside	GT6	Duval	GT	DFO	12	1974	50.4	62	50	61.6			0.10
Notes													

TYSP Year 2023
 Staff's Data Request # 1
 Question No. 34

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Gross Capacity (MW)		Net Capacity (MW)		Firm Capacity (MW)		Projected Capacity Factor
					Mo	Yr	Sum	Win	Sum	Win	Sum	Win	(%)
7HA.02 1x1	TBD	Jacksonville, FL	CCCT	NG	January	2030			518	571.3			58
Notes													
(Include Notes Here)													

TYSP Year 2023
 Staff's Data Request # 1
 Question No. 35

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Gross Capacity (MW)		Net Capacity (MW)		Firm Capacity (MW)		Capacity Factor
					Mo	Yr	Sum	Win	Sum	Win	Sum	Win	(%)
NONE													
Notes													
(Include Notes Here)													

TYSP Year 2023
 Staff's Data Request # 1
 Question No. 36

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Gross Capacity (MW)		Net Capacity (MW)		Firm Capacity (MW)		Projected Capacity Factor
					Mo	Yr	Sum	Win	Sum	Win	Sum	Win	(%)
NONE													
Notes													
(Include Notes Here)													

2023 TYSP - Data Request #1.Excel Tables

Nominal, Firm Purchases

Year	Firm Purchases	
	\$/MWh	Escalation %
HISTORY:		
2020	88.00	186.46%
2021	89.97	2.24%
2022	67.646	-24.81%
FORECAST:		
2023	90.337	33.54%
2024	87.676	-2.95%
2025	92.146	5.10%
2026	83.083	-9.83%
2027	80.719	-2.85%
2028	82.735	2.50%
2029	82.371	-0.44%
2030	78.337	-4.90%
2031	84.931	8.42%
2032	84.98	0.06%

Firm Purchases

TYSP Year 2023
 Staff's Data Request # 1
 Question No. 47

Seller Name	Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Gross Capacity (MW)		Net Capacity (MW)		Contracted Firm Capacity (MW)		Contract Term Dates (MM/YY)	
						Sum	Win	Sum	Win	Sum	Win	Start	End
FPL					NG					200	200	1/1/2022	1/1/2042
Notes													
(Include Notes Here)													

TYSP Year 2023
 Staff's Data Request # 1
 Question No. 48

Seller Name	Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Gross Capacity (MW)		Net Capacity (MW)		Contracted Firm Capacity (MW)		Contract Term Dates (MM/YY)	
						Sum	Win	Sum	Win	Sum	Win	Start	End
Notes													
NONE													

TYSP Year 2023
 Staff's Data Request # 1
 Question No. 49

Seller Name	Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Gross Capacity (MW)		Net Capacity (MW)		Contracted Firm Capacity (MW)		Contract Term Dates (MM/YY)	
						Sum	Win	Sum	Win	Sum	Win	Start	End
LES	Trail Ridge I	N/A	Duval	IC	Methane	9.1	9.1	9.1	9.1	9.1	9.1	12/08	12/26
LES	Trail Ridge II	N/A	Sarasota	IC	Methane	6	6	6	6	6	6	02/14	12/26
Rev Renewables	Jacksonville Solar	N/A	Duval	Solar PV	SUN	12	12	12	12	0	0	09/10	09/40
Northwest Jacksonville Solar Partners, LLC	NW JAX Solar	N/A	Duval	Solar PV	SUN	7	7	7	7	0	0	05/17	05/42
Old Plank Road Solar Farm LLC	Old Plank Road Solar	N/A	Duval	Solar PV	SUN	3	3	3	3	0	0	10/17	10/37
C2 Starratt Solar LLC	Starratt Solar	N/A	Duval	Solar PV	SUN	5	5	5	5	0	0	12/17	12/37
Inman Solar Incorporated	Simmons Road Solar	N/A	Duval	Solar PV	SUN	2	2	2	2	0	0	01/18	01/38
Hecate Energy Blair Road, LLC	Blair Site Solar	N/A	Duval	Solar PV	SUN	4	4	4	4	0	0	01/18	01/38
JAX Solar Developers, LLC	Old Kings Road Solar	N/A	Duval	Solar PV	SUN	1	1	1	1	0	0	10/18	10/38
Imeson Solar, LLC	SunPort Solar	N/A	Duval	Solar PV	SUN	5	5	5	5	0	0	12/19	12/39
FPL	FPL Solar PPA	N/A	Multiple	Solar PV	SUN					150	150	04/23	04/28

Notes
 (1) Solar capacity based on AC rating.
 (2) Energy sourced from multiple facilities in FPL service territory. Option to negotiate extension at term end.

TYSP Year 2023
 Staff's Data Request # 1
 Question No. 50

Seller Name	Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Gross Capacity (MW)		Net Capacity (MW)		Contracted Firm Capacity (MW)		Contract Term Dates (MM/YY)	
						Sum	Win	Sum	Win	Sum	Win	Start	End
TBD	74.9 Solar PPA 1	N/A	Duval	Solar PV	SUN	74.9	74.9	74.9	74.9	0	0	03/26	03/46
TBD	74.9 Solar PPA 2	N/A	Duval	Solar PV	SUN	74.9	74.9	74.9	74.9	0	0	03/26	03/46
TBD	74.9 Solar PPA 3	N/A	Duval	Solar PV	SUN	74.9	74.9	74.9	74.9	0	0	09/26	09/46
TBD	74.9 Solar PPA 4	N/A	Duval	Solar PV	SUN	74.9	74.9	74.9	74.9	0	0	09/26	09/46
TBD	74.9 Solar PPA 5	N/A	Duval	Solar PV	SUN	74.9	74.9	74.9	74.9	0	0	09/26	09/46
TBD	74.9 Solar PPA 6	N/A	Duval	Solar PV	SUN	74.9	74.9	74.9	74.9	0	0	09/26	09/46
TBD	74.9 Solar PPA 7	N/A	Duval	Solar PV	SUN	74.9	74.9	74.9	74.9	0	0	03/28	03/48
TBD	74.9 Solar PPA 8	N/A	Duval	Solar PV	SUN	74.9	74.9	74.9	74.9	0	0	03/28	03/48
FPL ²	FPL Solar PPA	N/A	Multiple	Solar PV	SUN	150	150	150	150	0	0	04/28	04/48
TBD	74.9 Solar PPA 9	N/A	Duval	Solar PV	SUN	74.9	74.9	74.9	74.9	0	0	03/30	03/50
TBD	74.9 Solar PPA 10	N/A	Duval	Solar PV	SUN	74.9	74.9	74.9	74.9	0	0	03/30	03/50
TBD	74.9 Solar PPA 11	N/A	Duval	Solar PV	SUN	74.9	74.9	74.9	74.9	0	0	03/30	03/50
TBD	74.9 Solar PPA 12	N/A	Duval	Solar PV	SUN	74.9	74.9	74.9	74.9	0	0	03/30	03/50
TBD	74.9 Solar PPA 13	N/A	Duval	Solar PV	SUN	74.9	74.9	74.9	74.9	0	0	03/30	03/50
TBD	74.9 Solar PPA 14	N/A	Duval	Solar PV	SUN	74.9	74.9	74.9	74.9	0	0	03/30	03/50
TBD	74.9 Solar PPA 15	N/A	Duval	Solar PV	SUN	74.9	74.9	74.9	74.9	0	0	03/30	03/50

Notes
 (1) Solar capacity based on AC rating.
 (2) Contingent upon exercising extension option for existing contract.

TYSP Year 2023
 Staff's Data Request # 1
 Question No. 52

Buyer Name	Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Gross Capacity (MW)		Net Capacity (MW)		Contracted Firm Capacity (MW)		Contract Term Dates (MM/YY)	
						Sum	Win	Sum	Win	Sum	Win	Start	End
Notes													
NONE													

TYSP Year 2023
 Staff's Data Request # 1
 Question No. 53

Buyer Name	Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Gross Capacity (MW)		Net Capacity (MW)		Contracted Firm Capacity (MW)		Contract Term Dates (MM/YY)	
						Sum	Win	Sum	Win	Sum	Win	Start	End
Notes													
NONE													

TYSP Year 2023
 Staff's Data Request # 1
 Question No. 55

Renewable Source	Annual Renewable Generation (GWh)										
	Actual	Projected									
	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Utility - Firm	0	0	0	0	0	0	0	0	0	0	0
Utility - Non-Firm	0	0	0	0	0	0	0	0	0	0	0
Utility - Co-Firing	0	0	0	0	0	0	0	0	0	0	0
Purchase - Firm	63	129	130	129	128	0	0	0	0	0	0
Purchase - Non-Firm	87	85	85	84	236	866	861	853	847	841	836
Purchase - Co-Firing	0	0	0	0	0	0	0	0	0	0	0
Customer - Owned	0	0	0	0	0	0	0	0	0	0	0
Total	150	214	215	213	364	866	861	853	847	841	836
Notes											
(1) Firm purchases from landfill gas; non-firm from solar PV.											

TYSP Year 2023
Staff's Data Request # 1
Question No. 64

Project Name	Pilot Program (Y/N)	In-Service/ Pilot Start Date (MM/YY)	Max Capacity Output (MW)	Max Energy Stored (MHh)	Conversion Efficiency (%)
SunPort Solar	N	12/4/2019	2	4	90

Notes
(Include Notes Here)

TYSP Year 2023
 Staff's Data Request # 1
 Question No. 65

Project Name	Pilot Program (Y/N)	In-Service/ Pilot Start Date (MM/YY)	Projected Max Capacity Output (MW)	Projected Max Energy Stored (MHh)	Projected Conversion Efficiency (%)
NONE					

Notes
 (Include Notes Here)

TYSP Year 2023
 Staff's Data Request # 1
 Question No. 38

Year		As-Available Energy (\$/MWh)	On-Peak Average (\$/MWh)	Off-Peak Average (\$/MWh)
Actual	2013			
	2014			
	2015			
	2016			
	2017			
	2018			
	2019			
	2020			
	2021			
	2022			
Projected	2023			
	2024			
	2025			
	2026			
	2027			
	2028			
	2029			
	2030			
	2031			
	2032			
Notes				
N/A				

TYSP Year 2023
 Staff's Data Request # 1
 Question No. 39

Generating Unit Name	Summer Capacity (MW)	Certification Dates (if Applicable)		In-Service Date (MM/YY)
		Need Approved (Commission)	PPSA Certified	
Nuclear Unit Additions				
Combustion Turbine Unit Additions				
Combined Cycle Unit Additions				
Steam Turbine Unit Additions				
Notes				
N/A				

TYSP Year 2023
 Staff's Data Request # 1
 Question No. 41

Plant	Unit No.	Unit Type	Fuel Type	Capacity Factor (%)										
				Actual	Projected									
				2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Brandy Branch	GT1	GT	NG	6.34	18.74	6.12	4.69	6.02	5.73	5.48	3.65	7.3	3.49	2.99
Brandy Branch	CT2, CT3, STM4	CC	NG	85.36	84.61	89.38	89.88	89.52	80.29	85.33	83.45	63.91	68.24	67.87
GEC	GT1	GT	NG	16.76	24.46	13.6	12.02	14.98	11.38	8.31	10.74	20.48	13.52	12.69
GEC	GT2	GT	NG	18.00	25.1	14.32	13.15	14.53	10.69	9.33	10.69	19.56	13.06	12.13
Kennedy	GT7	GT	NG	6.23	9.8	4.91	3.84	4.46	3.03	2.84	2.33	7.05	3.94	3.84
Kennedy	GT8	GT	NG	10.26	3.96	1.62	1.39	1.8	0.77	2.25	1.36	6.99	4.09	4.33
Northside	1	ST	PC	5.79	13.53	27.25	27.24	18.54	16.06	19.43	27.23	1.64	3.68	5.08
Northside	2	ST	PC	58.74	43.67	50.92	60.97	44.29	53.21	46.5	57.11	20.47	22.72	25.49
Northside	3	ST	NG	39.30	56.34	45.82	30.52	35.43	39	28.5	24.38	0	0	0
Northside	GT3	GT	DFO	0.22	1.1	0.08	0.81	0.13	0.08	0.08	0.5	0.18	0.01	0.03
Northside	GT4	GT	DFO	0.18	1	0.26	0.97	0.13	0.03	0.15	0.33	0.18	0.02	0.03
Northside	GT5	GT	DFO	0.15	1.05	0.19	0.33	0.16	0.03	0.14	0.44	0.2	0	0.05
Northside	GT6	GT	DFO	0.10	1.07	0.19	0.41	0.08	0.06	0.18	0.38	0.18	0.01	0.03
7HA.02 1x1	TBD	CCCT	NG									54.05	58.9	59.94
Notes														
(Include Notes Here)														

TYSP Year 2023
 Staff's Data Request # 1
 Question No. 43

Plant Name	Fuel Type	Summer Capacity (MW)	In-Service Date (MM/YYY)	Potential Conversion	Potential Issues
Northside 3	NG/FO6	524	Jul-77	Combined Cycle	Resulting unit size too large
Kennedy CT 7	NG/FO2	150	Jun-00	Combined Cycle	
Kennedy CT 8	NG/FO2	150	Jun-09	Combined Cycle	
Brandy Branch CT 1	NG/FO2	150	May-01	Combined Cycle	
GEC CT 1	NG	142	Jun-11	Combined Cycle	
GEC CT 2	NG	142	Jun-11	Combined Cycle	
Notes					
(Include Notes Here)					

TYSP Year 2023
Staff's Data Request # 1
Question No. 44

Plant Name	Fuel Type	Summer Capacity (MW)	In-Service Date (MM/YYYY)	Potential Conversion	Potential Issues
Northside 1	PC	293	May-03	NG	
Northside 2	PC	293	Apr-03	NG	
Northside	GT3	50	Jan-75	NG	
Northside	GT4	50	Jan-75	NG	
Northside	GT5	50	Dec-74	NG	
Northside	GT6	50	Dec-74	NG	
Notes					
(Include Notes Here)					

TYSP Year 2023
Staff's Data Request # 1
Question No. 45

Transmission Line	Line Length	Nominal Voltage	Date Need Approved	Date TLSA Certified	In-Service Date
	(Miles)	(kV)			
Notes					
NONE					

TYSP Year 2023
 Staff's Data Request # 1
 Question No. 71

Year	Estimated Cost of Standards of Performance for Greenhouse Gas Emissions Rule for New Sources Impacts (Present-Year \$ millions)			
	Capital Costs	O&M Costs	Fuel Costs	Total Costs
2021				
2022				
2023				
2024				
2025				
2026				
2027				
2028				
2029				
2030				
Notes				
N/A				

TYSP Year 2023
 Staff's Data Request # 1
 Question No. 73

Unit	Unit Type	Fuel Type	Net Summer Capacity (MW)	Estimated EPA Rule Impacts: Operational Effects						
				ELGS	ACE or replacement	MATS	CSAPR/CAIR	CWIS	CCR	
									Non-Hazardous Waste	Special Waste
NGS1	ST	PC	293 MW	To be determined	To be determined	Periodic	N/A	Possible additional equipment	N/A	N/A
NGS2	ST	PC	293 MW	To be determined	To be determined	N/A	N/A	Possible additional equipment	N/A	N/A
BBGS	CC	NG	501 MW	N/A	To be determined	N/A	N/A	N/A	N/A	N/A
Notes										
(Include Notes Here)										

TYSP Year 2023
 Staff's Data Request # 1
 Question No. 74

Unit	Unit Type	Fuel Type	Net Summer Capacity (MW)	Estimated EPA Rule Impacts: Cost Effects (CPVRR \$ millions)						
				ELGS	ACE or replacement	MATS	CSAPR/CAIR	CWIS	CCR	
									Non-Hazardous Waste	Special Waste
NGS1	ST	PC	293 MW	N/A	To be determined	Only for periodic testing	N/A	To be determined	N/A	N/A
NGS2	ST	PC	293 MW	N/A	To be determined	Only for periodic testing	N/A	To be determined	N/A	N/A
BBGS	CC	NG	501 MW	N/A	To be determined	N/A	N/A	N/A	N/A	N/A
Notes										
(Include Notes Here)										

TYSP Year 2023
 Staff's Data Request # 1
 Question No. 75

Unit	Unit Type	Fuel Type	Net Summer Capacity (MW)	Estimated EPA Rule Impacts: Unit Availability (Month/Year - Duration)						
				ELGS	ACE or replacement	MATS	CSAPR/CAIR	CWIS	CCR	
									Non-Hazardous Waste	Special Waste
NGS1	ST	PC	293 MW	No impact expected	To be determined	No impact expected	N/A	To be determined	N/A	N/A
NGS2	ST	PC	293 MW	No impact expected	To be determined	No impact expected	N/A	To be determined	N/A	N/A
BBGS	CC	NG	501 MW	No impact expected	To be determined	No impact expected	N/A	N/A	N/A	N/A
Notes										
(Include Notes Here)										

TYSP Year 2023
 Staff's Data Request # 1
 Question No. 77

Year		Uranium		Coal		Natural Gas		Residual Oil		Distillate Oil		Hydrogen	
		GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU	GWh	\$/MMBTU
Actual	2013	N/A	N/A	7428	3.14	3921	3.99	0	15.39	4	20.86	N/A	N/A
	2014	N/A	N/A	8039	2.91	4041	4.68	8	13.86	3	20.73	N/A	N/A
	2015	N/A	N/A	6512	2.32	5312	2.96	6	6.71	2	12.57	N/A	N/A
	2016	N/A	N/A	6733	2.42	4724	2.98	16	5.39	3	11.00	N/A	N/A
	2017	N/A	N/A	5360	3.05	5751	3.28	0	7.69	3	13.39	N/A	N/A
	2018	N/A	N/A	3557	3.01	6574	3.66	24	10.01	18	15.98	N/A	N/A
	2019	N/A	N/A	3287	2.37	6306	2.78	1	9.66	4	14.85	N/A	N/A
	2020	N/A	N/A	3019	2.18	8215	2.19	1	6.53	5	11.46	N/A	N/A
	2021	N/A	N/A	2743	4.12	7656	4.14	11	10.57	7	15.35	N/A	N/A
	2022	N/A	N/A	1405	7.21	7559	7.63	40	13.81	5	21.03	N/A	N/A
Projected	2023	N/A	N/A	1059	4.80	8780	4.10	N/A	N/A	23	21.85	N/A	N/A
	2024	N/A	N/A	1809	4.93	7993	4.68	N/A	N/A	4	20.77	N/A	N/A
	2025	N/A	N/A	2194	4.94	7077	5.02	N/A	N/A	14	20.61	N/A	N/A
	2026	N/A	N/A	1451	5.03	7483	4.88	N/A	N/A	3	20.78	N/A	N/A
	2027	N/A	N/A	1737	5.17	6844	5.17	N/A	N/A	1	21.78	N/A	N/A
	2028	N/A	N/A	1696	5.31	6566	5.59	N/A	N/A	3	22.95	N/A	N/A
	2029	N/A	N/A	2165	5.45	6263	5.95	N/A	N/A	9	23.89	N/A	N/A
	2030	N/A	N/A	499	5.61	7284	6.28	N/A	N/A	4	25.09	N/A	N/A
	2031	N/A	N/A	649	5.75	7391	6.61	N/A	N/A	0	25.98	N/A	N/A
	2032	N/A	N/A	757	5.90	7408	6.87	N/A	N/A	1	27.15	N/A	N/A
Notes													
*Coal' consists of coal, petcoke and biomass consumption													