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September 29, 2023

VIA ELECTRONIC FILING

The Honorable Jocelyn G. Boyd
Chief Clerk/Executive Director
Public Service Commission of South Carolina
101 Executive Center Drive, Suite 100
Columbia, SC 29210

**Re: Duke Energy Progress, LLC- Monthly Power Plant Performance Report
Docket Number: 2006-224-E**

Dear Ms. Boyd:

Pursuant to the Commission's Orders in Docket No. 1977-354-E, enclosed for filing is Duke Energy Progress, LLC's Power Plant Performance Report in Docket No. 2006-224-E for the month of August 2023.

Sincerely,

Katie M. Brown

Enclosures

cc: Ms. Dawn Hipp, Office of Regulatory Staff
Ms. Nanette Edwards, Office of Regulatory Staff
Mr. Christopher Huber, Office of Regulatory Staff
Mr. Michael Seaman-Huynh, Office of Regulatory Staff
Mr. Scott Elliott, Elliott & Elliott, P.A.
Mr. Garrett Stone, Brickfield, Burchette, Ritts & Stone, PC
Mr. Gary Walsh, Walsh Consulting, LLC

Duke Energy Progress Base Load Power Plant Performance Review Plan
Report Period: August 2023

Station	Unit	Date of Outage	Duration of Outage		Cause of Outage	Reason Outage Occurred	Remedial Actions Taken
			(Hours)	Scheduled / Unscheduled			
Brunswick	1						
	2						
Harris	1						
Robinson	2						

**Duke Energy Progress
Baseload Steam and CHP Units
Performance Review Plan
August 2023**

DEP Asheville CC

No Outages at Baseload Units During the Month.

Lee Energy Complex

No Outages at Baseload Units During the Month.

Mayo Station

No Outages at Baseload Units During the Month.

Roxboro Station

Unit	Duration of Outage	Type of	Cause of Outage	Reason Outage Occurred	Remedial
2	8/10/2023 2:55:00 AM To 8/25/2023 2:16:00 AM	Unsch	0400 Burner wind box fires	2C Mill Corner 6 Burner Fire	
2	8/31/2023 8:46:00 PM To 9/01/2023 5:00:00 PM	Unsch	0370 Burners instruments and controls (except light off)	Unit offline due to boiler MFT for loss of partial flame	
4	8/2/2023 9:25:00 PM To 8/10/2023 1:18:00 PM	Sch	1520 Flue gas dampers (except recirculation)	Unit offline for 4B1 ID Fan motor replacement due to duct isolation dampers leaking by	
4	8/25/2023 11:26:00 PM To 8/31/2023 12:00:00 AM	Sch	4400 Major turbine overhaul (720 hours or longer) (use for non-specific overhaul only; see page B-CCGT-2)	Planned outage for turbine major rebuild	

Smith Energy Complex

Unit	Duration of Outage	Type of	Cause of Outage	Reason Outage Occurred	Remedial
8	8/24/2023 1:13:00 AM To 8/24/2023 9:13:00 AM	Sch	5073 Flame scanners	Replace failed flame scanner gaskets.	

Sutton Energy Complex

No Outages at Baseload Units During the Month.

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership

Duke Energy Progress Base Load Power Plant Performance Review Plan
Report Period: August 2023

	Brunswick 1	Brunswick 2	Harris 1	Robinson 2
(A) MDC (MW)	938	932	964	759
(B) Period Hours	744	744	744	744
(C1) Net Gen (MWH)	702,517	692,872	716,767	565,110
(C2) Capacity Factor (%)	100.67	99.92	99.94	100.07
(D1) Net MWH Not Gen. Due to Full Schedule Outages	0	0	0	0
(D2) % Net MWH Not Gen. Due to Full Schedule Outages	0.00	0.00	0.00	0.00
(E1) Net MWH Not Gen. Due to Partial Scheduled Outages	0	0	0	0
(E2) % Net MWH Not Gen. Due to Partial Scheduled Outages	0.00	0.00	0.00	0.00
(F1) Net MWH Not Gen Due to Full Forced Outages	0	0	0	0
(F2) % Net MWH Not Gen Due to Full Forced Outages	0.00	0.00	0.00	0.00
(G1) Net MWH Not Gen due to Partial Forced Outages	-4,645	536	449	-414
(G2) % Net MWH Not Gen Due to Partial Forced Outages	-0.67	0.08	0.06	-0.07
(H1) Net MWH Not Gen Due to Economic Dispatch	0	0	0	0
(H2) %Net MWH Not Gen Due to Economic Dispatch	0.00	0.00	0.00	0.00
(I1) Core Conservation	0	0	0	0
(I2) % Core Conservation	0.00	0.00	0.00	0.00
(J1) Net MWH Possible in Period	697,872	693,408	717,216	564,696
(J2) % Net mwh Possible in Period	100.00%	100.00%	100.00%	100.00%
(K) Equivalent Availability (%)	100.00	100.00	100.00	100.00
(L) Output Factor (%)	100.67	99.92	99.94	100.07
(M) Heat Rate (BTU/Net KWH)	10,553	10,692	10,436	10,496

Notes:

- 1) Fields (E1), (E2), (G1), (G2), (H1), (H2), (I1) and (I2) are estimates
 - 2) Fields (D1), (D2), (F1) and (F2) include ramping losses
- EAF is calculated using Standard NERC calculation and excludes OMC events

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
August 2023**

DEP Asheville CC

	ACC CT5	ACC ST6	Block Total
(A) MDC (mW)	190	90	280
(B) Period Hrs	744	744	744
(C) Net Generation (mWh)	121,808	64,547	186,355
(D) Capacity Factor (%)	86.17	96.40	89.46
(E) Net mWh Not Generated due to Full Scheduled Outages	0	0	0
(F) Scheduled Outages: percent of Period Hrs	0.00	0.00	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	20,088	3,720	23,808
(H) Scheduled Derates: percent of Period Hrs	14.21	5.56	11.43
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	0	0	0
(N) Economic Dispatch: percent of Period Hrs	0.00	0.00	0.00
(O) Net mWh Possible in Period	141,360	66,960	208,320
(P) Equivalent Availability (%)	85.79	94.44	88.57
(Q) Output Factor (%)	86.17	96.40	89.46
(R) Heat Rate (BTU/NkWh)	10,436	0	6,821

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's
- Data is reflected at 100% ownership.

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
August 2023**

DEP Asheville CC

	ACC CT7	ACC ST8	Block Total
(A) MDC (mW)	190	90	280
(B) Period Hrs	744	744	744
(C) Net Generation (mWh)	121,652	64,074	185,726
(D) Capacity Factor (%)	86.06	95.69	89.15
(E) Net mWh Not Generated due to Full Scheduled Outages	0	0	0
(F) Scheduled Outages: percent of Period Hrs	0.00	0.00	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	21,576	3,720	25,296
(H) Scheduled Derates: percent of Period Hrs	15.26	5.56	12.14
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	0	0	0
(N) Economic Dispatch: percent of Period Hrs	0.00	0.00	0.00
(O) Net mWh Possible in Period	141,360	66,960	208,320
(P) Equivalent Availability (%)	84.74	94.44	87.86
(Q) Output Factor (%)	86.06	95.69	89.15
(R) Heat Rate (BTU/NkWh)	10,449	0	6,844

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's
- Data is reflected at 100% ownership.

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
August 2023**

Lee Energy Complex

	Unit 1A	Unit 1B	Unit 1C	Unit ST1	Block Total
(A) MDC (mW)	225	227	228	379	1,059
(B) Period Hrs	744	744	744	744	744
(C) Net Generation (mWh)	117,626	115,166	117,394	257,732	607,918
(D) Capacity Factor (%)	70.27	68.19	69.21	91.40	77.16
(E) Net mWh Not Generated due to Full Scheduled Outages	0	0	0	0	0
(F) Scheduled Outages: percent of Period Hrs	0.00	0.00	0.00	0.00	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	40,920	42,408	43,152	744	127,224
(H) Scheduled Derates: percent of Period Hrs	24.44	25.11	25.44	0.26	16.15
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	8,854	11,314	9,086	23,500	52,754
(N) Economic Dispatch: percent of Period Hrs	5.29	6.70	5.36	8.33	6.70
(O) Net mWh Possible in Period	167,400	168,888	169,632	281,976	787,896
(P) Equivalent Availability (%)	75.56	74.89	74.56	99.74	83.85
(Q) Output Factor (%)	70.27	68.19	69.21	91.40	77.16
(R) Heat Rate (BTU/NkWh)	9,105	9,227	9,118	5,014	7,396

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's
- Data is reflected at 100% ownership.

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
August 2023**

Smith Energy Complex

	Unit 7	Unit 8	Unit ST4	Block Total
(A) MDC (mW)	193	193	184	570
(B) Period Hrs	744	744	744	744
(C) Net Generation (mWh)	110,309	107,867	125,919	344,095
(D) Capacity Factor (%)	76.82	75.12	91.98	81.14
(E) Net mWh Not Generated due to Full Scheduled Outages	0	1,544	0	1,544
(F) Scheduled Outages: percent of Period Hrs	0.00	1.08	0.00	0.36
(G) Net mWh Not Generated due to Partial Scheduled Outages	30,504	30,176	10,320	71,000
(H) Scheduled Derates: percent of Period Hrs	21.24	21.02	7.54	16.74
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	2,779	4,005	657	7,441
(N) Economic Dispatch: percent of Period Hrs	1.94	2.79	0.48	1.75
(O) Net mWh Possible in Period	143,592	143,592	136,896	424,080
(P) Equivalent Availability (%)	78.76	77.91	92.46	82.89
(Q) Output Factor (%)	76.82	75.94	91.98	81.44
(R) Heat Rate (BTU/NkWh)	11,061	11,108	0	7,028

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's
- Data is reflected at 100% ownership.

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
August 2023**

Smith Energy Complex

	Unit 9	Unit 10	Unit ST5	Block Total
(A) MDC (mW)	215	215	252	682
(B) Period Hrs	744	744	744	744
(C) Net Generation (mWh)	125,565	125,061	186,400	437,026
(D) Capacity Factor (%)	78.50	78.18	99.42	86.13
(E) Net mWh Not Generated due to Full Scheduled Outages	0	0	0	0
(F) Scheduled Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	27,528	27,528	0	55,056
(H) Scheduled Derates: percent of Period Hrs	17.21	17.21	0.00	10.85
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	6,867	7,371	1,088	15,326
(N) Economic Dispatch: percent of Period Hrs	4.29	4.61	0.58	3.02
(O) Net mWh Possible in Period	159,960	159,960	187,488	507,408
(P) Equivalent Availability (%)	82.79	82.79	100.00	89.15
(Q) Output Factor (%)	78.50	78.18	99.42	86.13
(R) Heat Rate (BTU/NkWh)	11,622	11,495	1,550	7,290

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's
- Data is reflected at 100% ownership.

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
August 2023**

Sutton Energy Complex

	Unit 1A	Unit 1B	Unit ST1	Block Total
(A) MDC (mW)	224	224	271	719
(B) Period Hrs	744	744	744	744
(C) Net Generation (mWh)	118,984	119,108	158,024	396,116
(D) Capacity Factor (%)	71.39	71.47	78.38	74.05
(E) Net mWh Not Generated due to Full Scheduled Outages	0	0	0	0
(F) Scheduled Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	37,944	37,944	2,232	78,120
(H) Scheduled Derates: percent of Period Hrs	22.77	22.77	1.11	14.60
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	9,728	9,604	41,368	60,700
(N) Economic Dispatch: percent of Period Hrs	5.84	5.76	20.52	11.35
(O) Net mWh Possible in Period	166,656	166,656	201,624	534,936
(P) Equivalent Availability (%)	77.23	77.23	98.89	85.40
(Q) Output Factor (%)	71.39	71.47	78.38	74.05
(R) Heat Rate (BTU/NkWh)	11,983	11,983	0	7,202

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's
- Data is reflected at 100% ownership.

**Duke Energy Progress
Intermediate Power Plant Performance
Review Plan
August 2023**

Mayo Station

Unit 1

(A)	MDC (mW)	713
(B)	Period Hrs	744
(C)	Net Generation (mWh)	326,249
(D)	Net mWh Possible in Period	530,472
(E)	Equivalent Availability (%)	94.46
(F)	Output Factor (%)	61.50
(G)	Capacity Factor (%)	61.50

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Intermediate Power Plant Performance
Review Plan
August 2023**

	Roxboro Station		
	Unit 2	Unit 3	Unit 4
(A) MDC (mW)	673	698	711
(B) Period Hrs	744	744	744
(C) Net Generation (mWh)	162,354	309,565	170,554
(D) Net mWh Possible in Period	500,712	519,312	528,984
(E) Equivalent Availability (%)	42.59	83.44	41.08
(F) Output Factor (%)	63.25	59.61	57.73
(G) Capacity Factor (%)	32.42	59.61	32.24

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress Base Load Power Plant Performance Review Plan
Report Period: September 2022 - August 2023

	Brunswick 1	Brunswick 2	Harris 1	Robinson 2
(A) MDC (MW)	938	932	964	759
(B) Period Hours	8,760	8,760	8,760	8,760
(C1) Net Gen (MWH)	8,282,425	7,360,135	7,910,649	5,572,452
(C2) Capacity Factor (%)	100.80	90.15	93.68	83.81
(D1) Net MWH Not Gen. Due to Full Schedule Outages	0	633,077	512,542	546,480
(D2) % Net MWH Not Gen. Due to Full Schedule Outages	0.00	7.75	6.07	8.22
(E1) Net MWH Not Gen. Due to Partial Scheduled Outages	26,604	96,175	52,927	-922
(E2) % Net MWH Not Gen. Due to Partial Scheduled Outages	0.32	1.18	0.63	-0.01
(F1) Net MWH Not Gen Due to Full Forced Outages	96,145	0	79,129	585,797
(F2) % Net MWH Not Gen Due to Full Forced Outages	1.17	0.00	0.94	8.81
(G1) Net MWH Not Gen due to Partial Forced Outages	-188,294	74,933	-110,607	-54,967
(G2) % Net MWH Not Gen Due to Partial Forced Outages	-2.29	0.92	-1.32	-0.83
(H1) Net MWH Not Gen Due to Economic Dispatch	0	0	0	0
(H2) %Net MWH Not Gen Due to Economic Dispatch	0.00	0.00	0.00	0.00
(I1) Core Conservation	0	0	0	0
(I2) % Core Conservation	0.00	0.00	0.00	0.00
(J1) Net MWH Possible in Period	8,216,880	8,164,320	8,444,640	6,648,840
(J2) % Net mwh Possible in Period	100.00%	100.00%	100.00%	100.00%
(K) Equivalent Availability (%)	98.41	89.80	92.16	82.14
(L) Output Factor (%)	101.99	97.73	100.73	101.01
(M) Heat Rate (BTU/Net KWH)	10,364	10,631	10,269	10,338

Notes:

1) Fields (E1), (E2), (G1), (G2), (H1), (H2), (I1) and (I2) are estimates

2) Fields (D1), (D2), (F1) and (F2) include ramping losses

EAF is calculated using Standard NERC calculation and excludes OMC events

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
September, 2022 through August, 2023
DEP Asheville CC**

	ACC CT5	ACC ST6	Block Total
(A) MDC (mW)	190	90	280
(B) Period Hrs	8,760	8,760	8,760
(C) Net Generation (mWh)	1,382,532	713,292	2,095,824
(D) Capacity Factor (%)	83.06	90.47	85.45
(E) Net mWh Not Generated due to Full Scheduled Outages	104,078	52,821	156,899
(F) Scheduled Outages: percent of Period Hrs	6.25	6.70	6.40
(G) Net mWh Not Generated due to Partial Scheduled Outages	146,710	24,391	171,101
(H) Scheduled Derates: percent of Period Hrs	8.81	3.09	6.98
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	31,079	-2,104	28,976
(N) Economic Dispatch: percent of Period Hrs	1.87	-0.27	1.18
(O) Net mWh Possible in Period	1,664,400	788,400	2,452,800
(P) Equivalent Availability (%)	84.93	90.21	86.63
(Q) Output Factor (%)	88.62	96.97	91.30
(R) Heat Rate (BTU/NkWh)	9,977	0	6,581

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
September, 2022 through August, 2023
DEP Asheville CC**

	ACC CT7	ACC ST8	Block Total
(A) MDC (mW)	190	90	280
(B) Period Hrs	8,760	8,760	8,760
(C) Net Generation (mWh)	1,002,571	500,616	1,503,187
(D) Capacity Factor (%)	60.24	63.50	61.28
(E) Net mWh Not Generated due to Full Scheduled Outages	202,365	142,429	344,794
(F) Scheduled Outages: percent of Period Hrs	12.16	18.07	14.06
(G) Net mWh Not Generated due to Partial Scheduled Outages	134,604	19,211	153,815
(H) Scheduled Derates: percent of Period Hrs	8.09	2.44	6.27
(I) Net mWh Not Generated due to Full Forced Outages	7,610	29,224	36,833
(J) Forced Outages: percent of Period Hrs	0.46	3.71	1.50
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	317,049	96,476	413,525
(N) Economic Dispatch: percent of Period Hrs	19.05	12.24	16.86
(O) Net mWh Possible in Period	1,664,400	788,400	2,452,800
(P) Equivalent Availability (%)	79.30	75.79	78.17
(Q) Output Factor (%)	90.39	97.36	92.60
(R) Heat Rate (BTU/NkWh)	10,076	0	6,720

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
September, 2022 through August, 2023
Lee Energy Complex**

	Unit 1A	Unit 1B	Unit 1C	Unit ST1	Block Total
(A) MDC (mW)	225	227	228	379	1,059
(B) Period Hrs	8,760	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,338,209	1,210,480	1,353,070	2,648,269	6,550,028
(D) Capacity Factor (%)	67.89	60.87	67.75	79.77	70.61
(E) Net mWh Not Generated due to Full Scheduled Outages	97,664	235,585	82,919	145,043	561,211
(F) Scheduled Outages: percent of Period Hrs	4.96	11.85	4.15	4.37	6.05
(G) Net mWh Not Generated due to Partial Scheduled Outages	269,309	267,937	297,572	80,177	914,996
(H) Scheduled Derates: percent of Period Hrs	13.66	13.47	14.90	2.41	9.86
(I) Net mWh Not Generated due to Full Forced Outages	736	10,329	702	0	11,766
(J) Forced Outages: percent of Period Hrs	0.04	0.52	0.04	0.00	0.13
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	5,382	5,382
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.16	0.06
(M) Net mWh Not Generated due to Economic Dispatch	265,083	264,189	263,017	441,168	1,233,457
(N) Economic Dispatch: percent of Period Hrs	13.45	13.29	13.17	13.29	13.30
(O) Net mWh Possible in Period	1,971,000	1,988,520	1,997,280	3,320,040	9,276,840
(P) Equivalent Availability (%)	81.34	74.16	80.91	93.05	83.90
(Q) Output Factor (%)	71.60	69.48	70.77	83.41	75.30
(R) Heat Rate (BTU/NkWh)	9,461	9,679	9,532	4,016	7,315

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
September, 2022 through August, 2023
Smith Energy Complex**

	Unit 7	Unit 8	Unit ST4	Block Total
(A) MDC (mW)	193	193	184	570
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	879,739	853,944	977,938	2,711,621
(D) Capacity Factor (%)	52.03	50.51	60.67	54.31
(E) Net mWh Not Generated due to Full Scheduled Outages	559,218	564,315	524,926	1,648,458
(F) Scheduled Outages: percent of Period Hrs	33.08	33.38	32.57	33.01
(G) Net mWh Not Generated due to Partial Scheduled Outages	140,979	140,940	53,113	335,032
(H) Scheduled Derates: percent of Period Hrs	8.34	8.34	3.30	6.71
(I) Net mWh Not Generated due to Full Forced Outages	8,671	5,209	6,228	20,109
(J) Forced Outages: percent of Period Hrs	0.51	0.31	0.39	0.40
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	1,087	1,087
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.07	0.02
(M) Net mWh Not Generated due to Economic Dispatch	101,713	125,910	48,546	276,170
(N) Economic Dispatch: percent of Period Hrs	6.02	7.45	3.01	5.53
(O) Net mWh Possible in Period	1,690,680	1,690,680	1,611,840	4,993,200
(P) Equivalent Availability (%)	58.07	57.98	63.68	59.85
(Q) Output Factor (%)	78.53	77.77	90.72	82.26
(R) Heat Rate (BTU/NkWh)	11,253	11,281	0	7,203

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
September, 2022 through August, 2023
Smith Energy Complex**

	Unit 9	Unit 10	Unit ST5	Block Total
(A) MDC (mW)	215	215	252	682
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,359,637	1,363,908	1,861,142	4,584,687
(D) Capacity Factor (%)	72.19	72.42	84.31	76.74
(E) Net mWh Not Generated due to Full Scheduled Outages	195,433	176,403	204,057	575,893
(F) Scheduled Outages: percent of Period Hrs	10.38	9.37	9.24	9.64
(G) Net mWh Not Generated due to Partial Scheduled Outages	170,904	170,372	24,749	366,025
(H) Scheduled Derates: percent of Period Hrs	9.07	9.05	1.12	6.13
(I) Net mWh Not Generated due to Full Forced Outages	0	3,709	16,561	20,270
(J) Forced Outages: percent of Period Hrs	0.00	0.20	0.75	0.34
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	2,888	2,888
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.13	0.05
(M) Net mWh Not Generated due to Economic Dispatch	157,427	169,008	98,123	424,557
(N) Economic Dispatch: percent of Period Hrs	8.36	8.97	4.44	7.11
(O) Net mWh Possible in Period	1,883,400	1,883,400	2,207,520	5,974,320
(P) Equivalent Availability (%)	80.55	81.39	88.75	83.85
(Q) Output Factor (%)	81.25	81.36	93.67	85.91
(R) Heat Rate (BTU/NkWh)	10,927	11,511	1,256	7,175

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
September, 2022 through August, 2023
Sutton Energy Complex**

	Unit 1A	Unit 1B	Unit ST1	Block Total
(A) MDC (mW)	224	224	271	719
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,240,510	1,228,422	1,524,458	3,993,390
(D) Capacity Factor (%)	63.22	62.60	64.22	63.40
(E) Net mWh Not Generated due to Full Scheduled Outages	222,696	265,489	266,239	754,424
(F) Scheduled Outages: percent of Period Hrs	11.35	13.53	11.21	11.98
(G) Net mWh Not Generated due to Partial Scheduled Outages	234,889	234,239	52,726	521,853
(H) Scheduled Derates: percent of Period Hrs	11.97	11.94	2.22	8.29
(I) Net mWh Not Generated due to Full Forced Outages	28,152	0	398	28,551
(J) Forced Outages: percent of Period Hrs	1.43	0.00	0.02	0.45
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	8,905	8,905
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.38	0.14
(M) Net mWh Not Generated due to Economic Dispatch	235,993	234,090	521,234	991,317
(N) Economic Dispatch: percent of Period Hrs	12.03	11.93	21.96	15.74
(O) Net mWh Possible in Period	1,962,240	1,962,240	2,373,960	6,298,440
(P) Equivalent Availability (%)	75.25	74.53	86.17	79.14
(Q) Output Factor (%)	72.51	72.40	72.34	72.41
(R) Heat Rate (BTU/NkWh)	11,604	11,610	0	7,176

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership

**Duke Energy Progress
Intermediate Power Plant
Performance Review Plan
September, 2022 through August, 2023**

Mayo Station

Units	Unit 1
(A) MDC (mW)	713
(B) Period Hrs	8,760
(C) Net Generation (mWh)	1,117,927
(D) Net mWh Possible in Period	6,245,880
(E) Equivalent Availability (%)	55.04
(F) Output Factor (%)	47.95
(G) Capacity Factor (%)	17.90

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Intermediate Power Plant
Performance Review Plan
September, 2022 through August, 2023**

Roxboro Station

Units	Unit 2	Unit 3	Unit 4
(A) MDC (mW)	673	698	711
(B) Period Hrs	8,760	8,760	8,760
(C) Net Generation (mWh)	1,359,980	1,304,983	634,213
(D) Net mWh Possible in Period	5,895,480	6,114,480	6,228,360
(E) Equivalent Availability (%)	59.81	69.11	43.51
(F) Output Factor (%)	54.31	52.18	50.45
(G) Capacity Factor (%)	23.07	21.34	10.18

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress Outages for 100 MW or Larger Units
Report Period: August 2023

Unit Name	Capacity Rating (MW)	Scheduled Full Outage Hours	Unscheduled Full Outage Hours	Total Full Outage Hours
Brunswick 1	938	0.00	0.00	0.00
Brunswick 2	932	0.00	0.00	0.00
Harris 1	964	0.00	0.00	0.00
Robinson 2	759	0.00	0.00	0.00

Duke Energy Progress
Outages for 100mW or Larger Units
August 2023

Unit Name	Capacity Rating (mW)	Full Outage Hours		Total Outage Hours
		Scheduled	Unscheduled	
ACC CT5	190	0.00	0.00	0.00
ACC CT7	190	0.00	0.00	0.00
ACC ST6	90	0.00	0.00	0.00
ACC ST8	90	0.00	0.00	0.00

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.

Duke Energy Progress
Outages for 100mW or Larger Units
August 2023

Unit Name	Capacity Rating (mW)	Full Outage Hours		Total Outage Hours
		Scheduled	Unscheduled	
Asheville CT 3	185	0.00	0.00	0.00
Asheville CT 4	185	0.00	0.00	0.00
Darlington CT 12	131	0.00	0.00	0.00
Darlington CT 13	133	0.00	0.00	0.00
Lee Energy Complex CC 1A	225	0.00	0.00	0.00
Lee Energy Complex CC 1B	227	0.00	0.00	0.00
Lee Energy Complex CC 1C	228	0.00	0.00	0.00
Lee Energy Complex CC ST1	379	0.00	0.00	0.00
Mayo Steam 1	713	0.00	0.00	0.00
Smith Energy Complex CT 1	192	0.00	0.00	0.00
Smith Energy Complex CT 2	192	161.18	0.00	161.18
Smith Energy Complex CT 3	192	0.00	0.00	0.00
Smith Energy Complex CT 4	192	254.63	0.00	254.63
Smith Energy Complex CT 6	192	0.00	0.00	0.00
Smith Energy Complex CC 7	193	0.00	0.00	0.00
Smith Energy Complex CC 8	193	8.00	0.00	8.00
Smith Energy Complex CC ST4	184	0.00	0.00	0.00
Smith Energy Complex CC 9	215	0.00	0.00	0.00
Smith Energy Complex CC 10	215	0.00	0.00	0.00
Smith Energy Complex CC ST5	252	0.00	0.00	0.00

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.

Duke Energy Progress
Outages for 100mW or Larger Units
August 2023

Unit Name	Capacity Rating (mW)	Full Outage Hours		Total Outage Hours
		Scheduled	Unscheduled	
Roxboro Steam 1	402	14.62	79.00	93.62
Roxboro Steam 2	673	0.00	362.58	362.58
Roxboro Steam 3	698	0.00	0.00	0.00
Roxboro Steam 4	711	328.45	0.00	328.45
Sutton Energy Complex CC 1A	224	0.00	0.00	0.00
Sutton Energy Complex CC 1B	224	0.00	0.00	0.00
Sutton Energy Complex CC ST1	271	0.00	0.00	0.00
Wayne County CT 10	195	0.00	0.00	0.00
Wayne County CT 11	195	19.12	0.00	19.12
Wayne County CT 12	195	0.00	0.00	0.00
Wayne County CT 13	195	0.00	0.00	0.00
Wayne County CT 14	195	0.00	3.38	3.38

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
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