Rebecca J. Dulin
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September 28, 2016

VIA ELECTRONIC FILING

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

Re: **Duke Energy Progress, LLC – Monthly Power Plant Performance Report**
Docket No. 2006-224-E

Dear Mrs. Boyd:

Pursuant to the Commission's Orders in Docket No. 1977-354-E, enclosed for filing is the Monthly Power Plant Performance Report in Docket No. 2006-224-E for the month of August 2016.

Should you have any questions regarding this matter, please do not hesitate to contact me at 704.382.4499.

Sincerely,

Rebecca J. Dulin

Enclosure

cc: Ms. Dawn Hipp, Office of Regulatory Staff
Mr. Jeffrey M. Nelson, Office of Regulatory Staff
Ms. Shannon Bowyer Hudson, Office of Regulatory Staff
Ms. Nanette Edwards, Office of Regulatory Staff
Michael Seaman-Huynh, Office of Regulatory Staff
Ms. Heather Shirley Smith, Duke Energy
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

Period: August, 2016

Station	Unit	Date of Outage	Duration of Outage	Scheduled / Unscheduled	Cause of Outage	Reason Outage Occurred	Remedial Action Taken
Brunswick	1	None					
	2	None					
Harris	1	None					
Robinson	2	08/24/2016 - 08/27/2016	74.78	Unscheduled	Turbine trip resulted in a reactor trip	Interaction of turbine trip mechanism and trip box cover	Completed inspections and maintenance activities
	2	08/27/2016 - 09/01/2016	103.58	Scheduled	Maintenance outage to repair low pressure turbine blades	Outage extended to repair cracked turbine blades	Repaired all identified cracked blades

Duke Energy Progress
Base Load Power Plant
Performance Review Plan
August 2016

Lee Energy Complex

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
1A	8/9/2016 6:03:00 AM To 8/9/2016 10:39:00 AM	Sch	3642	Conductors and Buses	Taken offline to repair a hot disconnect on the 115KV East Bus	
1B	8/9/2016 2:43:00 AM To 8/9/2016 4:31:00 AM	Unsch	4750	Other Generator Controls And Metering Problems	Unit tripped due to issues with TacPack, while starting a boiler feed pump.	

Mayo Station

No Outages at Baseload Units During the Month.

Richmond County Station

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
7	8/12/2016 4:25:00 PM To 8/12/2016 5:45:00 PM	Unsch	5299	Other Gas Turbine Problems	480v pnl tripped from welder rcpt causing FG filter level alarms on dead 120v pnl	

Roxboro Station

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
2	8/2/2016 11:05:00 PM To 8/7/2016 11:30:00 AM	Sch	1060	First Reheater Leaks	Repair RH Tube Leak	

Sutton Energy Complex

No Outages at Baseload Units During the Month.

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

August 2016
Brunswick Nuclear Station

	Unit 1		Unit 2	
(A) MDC (mW)	938		932	
(B) Period Hours	744		744	
(C) Net Gen (mWh) and Capacity Factor (%)	696,646	99.82	680,786	98.18
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	6,529	0.94	0	0.00
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-5,303	-0.76	12,622	1.82
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00	0	0.00
* (I) Core Conservation	0	0.00	0	0.00
(J) Net mWh Possible in Period	697,872	100.00%	693,408	100.00%
(K) Equivalent Availability (%)		99.06		100.00
(L) Output Factor (%)		99.82		98.18
(M) Heat Rate (BTU/NkWh)		10,273		10,511

* Estimate
FOOTNOTE: D and F Include Ramping Losses

Duke Energy Progress
Base Load Power Plant Performance Review Plan

August 2016
Harris Nuclear Station

	Unit 1	
(A) MDC (mW)	928	
(B) Period Hours	744	
(C) Net Gen (mWh) and Capacity Factor (%)	696,569	100.89
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	0	0.00
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-6,137	-0.89
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00
* (I) Core Conservation	0	0.00
(J) Net mWh Possible in Period	690,432	100.00%
(K) Equivalent Availability (%)		100.00
(L) Output Factor (%)		100.89
(M) Heat Rate (BTU/NkWh)		10,530

*** Estimate**
FOOTNOTE: D and F Include Ramping Losses

Duke Energy Progress
Base Load Power Plant Performance Review Plan

August 2016
Robinson Nuclear Station

	Unit 2	
(A) MDC (mW)	741	
(B) Period Hours	744	
(C) Net Gen (mWh) and Capacity Factor (%)	415,119	75.30
(D) Net mWh Not Gen due to Full Schedule Outages	76,755	13.92
* (E) Net mWh Not Gen due to Partial Scheduled Outages	2,332	0.42
(F) Net mWh Not Gen due to Full Forced Outages	55,414	10.05
* (G) Net mWh Not Gen due to Partial Forced Outages	1,684	0.31
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00
* (I) Core Conservation	0	0.00
(J) Net mWh Possible in Period	551,304	100.00%
(K) Equivalent Availability (%)		76.03
(L) Output Factor (%)		99.04
(M) Heat Rate (BTU/NkWh)		11,028

* Estimate
FOOTNOTE: D and F Include Ramping Losses

Duke Energy Progress
Base Load Power Plant
Performance Review Plan
August 2016

Lee Energy Complex

	Unit 1A	Unit 1B	Unit 1C	Unit ST1	Block Total
(A) MDC (mW)	177	176	179	378	910
(B) Period Hrs	744	744	744	744	744
(C) Net Generation (mWh)	123,812	124,804	126,232	251,375	626,223
(D) Capacity Factor (%)	94.02	95.31	94.79	89.38	92.49
(E) Net mWh Not Generated due to Full Scheduled Outages	814	0	0	0	814
(F) Scheduled Outages: percent of Period Hrs	0.62	0.00	0.00	0.00	0.12
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	0	543	543
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	0.00	0.19	0.08
(I) Net mWh Not Generated due to Full Forced Outages	0	317	0	0	317
(J) Forced Outages: percent of Period Hrs	0.00	0.24	0.00	0.00	0.05
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	212	212
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.08	0.03
(M) Net mWh Not Generated due to Economic Dispatch	7,062	5,823	6,944	29,102	48,931
(N) Economic Dispatch: percent of Period Hrs	5.36	4.45	5.21	10.35	7.23
(O) Net mWh Possible in Period	131,688	130,944	133,176	281,232	677,040
(P) Equivalent Availability (%)	99.38	99.76	100.00	99.73	99.72
(Q) Output Factor (%)	94.60	95.54	94.79	89.38	92.65
(R) Heat Rate (BTU/NkWh)	9,426	9,440	9,330	4,111	7,276

Footnote: (R) Includes Light Off BTU's
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
August 2016

Richmond County Station

	Unit 7	Unit 8	Unit ST4	Block Total
(A) MDC (mW)	160	157	165	482
(B) Period Hrs	744	744	744	744
(C) Net Generation (mWh)	111,232	110,916	131,057	353,205
(D) Capacity Factor (%)	93.44	94.96	106.76	98.49
(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	0	0	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(I) Net mWh Not Generated due to Full Forced Outages	213	0	0	213
(J) Forced Outages: percent of Period Hrs	0.18	0.00	0.00	0.06
(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	7,595	5,892	0	13,487
(N) Economic Dispatch: percent of Period Hrs	6.38	5.04	0.00	3.76
(O) Net mWh Possible in Period	119,040	116,808	122,760	358,608
(P) Equivalent Availability (%)	99.82	100.00	100.00	99.94
(Q) Output Factor (%)	93.61	94.96	106.76	98.55
(R) Heat Rate (BTU/NkWh)	11,658	11,394	0	7,249

Footnote: (R) Includes Light Off BTU's
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
August 2016

Richmond County Station

	Unit 9	Unit 10	Unit ST5	Block Total
(A) MDC (mW)	178	178	250	606
(B) Period Hrs	744	744	744	744
(C) Net Generation (mWh)	125,947	127,221	182,134	435,302
(D) Capacity Factor (%)	95.10	96.07	97.92	96.55
(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	0	0	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(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	6,485	5,211	3,866	15,562
(N) Economic Dispatch: percent of Period Hrs	4.90	3.93	2.08	3.45
(O) Net mWh Possible in Period	132,432	132,432	186,000	450,864
(P) Equivalent Availability (%)	100.00	100.00	100.00	100.00
(Q) Output Factor (%)	95.10	96.07	97.92	96.55
(R) Heat Rate (BTU/NkWh)	11,703	11,539	0	6,758

Footnote: (R) Includes Light Off BTU's
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
August 2016

Roxboro Station

	Unit 2
(A) MDC (mW)	671
(B) Period Hrs	744
(C) Net Generation (mWh)	334,061
(D) Capacity Factor (%)	66.92
(E) Net mWh Not Generated due to Full Scheduled Outages	72,748
(F) Scheduled Outages: percent of Period Hrs	14.57
(G) Net mWh Not Generated due to Partial Scheduled Outages	0
(H) Scheduled Derates: percent of Period Hrs	0.00
(I) Net mWh Not Generated due to Full Forced Outages	0
(J) Forced Outages: percent of Period Hrs	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0
(L) Forced Derates: percent of Period Hrs	0.00
(M) Net mWh Not Generated due to Economic Dispatch	92,415
(N) Economic Dispatch: percent of Period Hrs	18.51
(O) Net mWh Possible in Period	499,224
(P) Equivalent Availability (%)	85.43
(Q) Output Factor (%)	78.33
(R) Heat Rate (BTU/NkWh)	10,106

Footnote: (R) Includes Light Off BTU's
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
August 2016

Sutton Energy Complex

	Unit 1A	Unit 1B	Unit ST1	Block Total
(A) MDC (mW)	179	179	264	622
(B) Period Hrs	744	744	744	744
(C) Net Generation (mWh)	127,353	128,325	172,933	428,611
(D) Capacity Factor (%)	95.63	96.36	88.04	92.62
(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	0	0	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(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	5,823	4,851	23,483	34,157
(N) Economic Dispatch: percent of Period Hrs	4.37	3.64	11.96	7.38
(O) Net mWh Possible in Period	133,176	133,176	196,416	462,768
(P) Equivalent Availability (%)	100.00	100.00	100.00	100.00
(Q) Output Factor (%)	95.63	96.36	88.04	92.62
(R) Heat Rate (BTU/NkWh)	11,870	11,749	0	7,045

Footnote: (R) Includes Light Off BTU's
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 2016

		Mayo Station Unit 1
(A)	**MDC (mW)**	727
(B)	**Period Hrs**	744
(C)	**Net Generation (mWh)**	317,463
(D)	**Net mWh Possible in Period**	540,888
(E)	**Equivalent Availability (%)**	92.58
(F)	**Output Factor (%)**	58.69
(G)	**Capacity Factor (%)**	58.69

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 2016

	Roxboro Station	
	Unit 3	**Unit 4**
(A) MDC (mW)	691	698
(B) Period Hrs	744	744
(C) Net Generation (mWh)	370,797	410,718
(D) Net mWh Possible in Period	514,104	519,312
(E) Equivalent Availability (%)	100.00	99.07
(F) Output Factor (%)	72.12	79.09
(G) Capacity Factor (%)	72.12	79.09

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

September 2015 - August 2016
Brunswick Nuclear Station

	Unit 1		Unit 2	
(A) MDC (mW)	938		932	
(B) Period Hours	8784		8784	
(C) Net Gen (mWh) and Capacity Factor (%)	7,248,459	87.97	8,130,006	99.31
(D) Net mWh Not Gen due to Full Schedule Outages	709,034	8.61	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	166,068	2.02	41,660	0.51
(F) Net mWh Not Gen due to Full Forced Outages	165,979	2.01	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-50,148	-0.61	15,022	0.18
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00	0	0.00
* (I) Core Conservation	0	0.00	0	0.00
(J) Net mWh Possible in Period	8,239,392	100.00%	8,186,688	100.00%
(K) Equivalent Availability (%)		87.78		99.48
(L) Output Factor (%)		98.43		99.31
(M) Heat Rate (BTU/NkWh)		10,323		10,530

*** Estimate**
FOOTNOTE: D and F Include Ramping Losses

Duke Energy Progress
Base Load Power Plant Performance Review Plan

September 2015 - August 2016
Harris Nuclear Station

	Unit 1	
(A) MDC (mW)	928	
(B) Period Hours	8784	
(C) Net Gen (mWh) and Capacity Factor (%)	8,346,254	102.39
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	5,261	0.06
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-199,963	-2.45
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00
* (I) Core Conservation	0	0.00
(J) Net mWh Possible in Period	8,151,552	100.00%
(K) Equivalent Availability (%)		99.82
(L) Output Factor (%)		102.39
(M) Heat Rate (BTU/NkWh)		10,271

*** Estimate**
FOOTNOTE: D and F Include Ramping Losses

Duke Energy Progress
Base Load Power Plant Performance Review Plan

September 2015 - August 2016
Robinson Nuclear Station

	Unit 2	
(A) MDC (mW)	741	
(B) Period Hours	8784	
(C) Net Gen (mWh) and Capacity Factor (%)	6,402,050	98.36
(D) Net mWh Not Gen due to Full Schedule Outages	287,286	4.41
* (E) Net mWh Not Gen due to Partial Scheduled Outages	4,444	0.07
(F) Net mWh Not Gen due to Full Forced Outages	55,414	0.85
* (G) Net mWh Not Gen due to Partial Forced Outages	-240,250	-3.69
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00
* (I) Core Conservation	0	0.00
(J) Net mWh Possible in Period	6,508,944	100.00%
(K) Equivalent Availability (%)		94.45
(L) Output Factor (%)		103.82
(M) Heat Rate (BTU/NkWh)		10,353

*** Estimate**
FOOTNOTE: D and F Include Ramping Losses

Duke Energy Progress
Base Load Power Plant
Performance Review Plan
September, 2015 through August, 2016

Lee Energy Complex

	Unit 1A	Unit 1B	Unit 1C	Unit ST1	Block Total
(A) MDC (mW)	196	195	197	378	967
(B) Period Hrs	8,784	8,784	8,784	8,784	8,784
(C) Net Generation (mWh)	1,334,258	1,359,196	1,387,581	2,538,371	6,619,406
(D) Capacity Factor (%)	77.46	79.31	80.08	76.36	77.94
(E) Net mWh Not Generated due to Full Scheduled Outages	96,019	109,884	70,381	465,227	741,511
(F) Scheduled Outages: percent of Period Hrs	5.57	6.41	4.06	14.00	8.73
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	0	57,406	57,406
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	0.00	1.73	0.68
(I) Net mWh Not Generated due to Full Forced Outages	34,196	9,419	1,570	0	45,185
(J) Forced Outages: percent of Period Hrs	1.99	0.55	0.09	0.00	0.53
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	21,459	21,459
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.65	0.25
(M) Net mWh Not Generated due to Economic Dispatch	258,103	235,293	273,317	241,538	1,008,250
(N) Economic Dispatch: percent of Period Hrs	14.98	13.73	15.77	7.27	11.87
(O) Net mWh Possible in Period	1,722,576	1,713,792	1,732,848	3,324,000	8,493,216
(P) Equivalent Availability (%)	92.10	93.02	95.87	83.63	89.81
(Q) Output Factor (%)	88.12	89.21	89.48	88.79	88.88
(R) Heat Rate (BTU/NkWh)	9,314	9,342	9,199	4,175	7,325

Footnote: (R) Includes Light Off BTU's
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
September, 2015 through August, 2016

Richmond County Station

	Unit 7	Unit 8	Unit ST4	Block Total
(A) MDC (mW)	172	170	169	512
(B) Period Hrs	8,784	8,784	8,784	8,784
(C) Net Generation (mWh)	1,243,831	1,235,150	1,403,413	3,882,394
(D) Capacity Factor (%)	82.31	82.57	94.45	86.41
(E) Net mWh Not Generated due to Full Scheduled Outages	112,480	97,214	95,194	304,888
(F) Scheduled Outages: percent of Period Hrs	7.44	6.50	6.41	6.79
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	16,122	16,122
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	1.09	0.36
(I) Net mWh Not Generated due to Full Forced Outages	4,351	12,134	1,793	18,278
(J) Forced Outages: percent of Period Hrs	0.29	0.81	0.12	0.41
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	3,974	3,974
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.27	0.09
(M) Net mWh Not Generated due to Economic Dispatch	150,570	151,326	0	267,240
(N) Economic Dispatch: percent of Period Hrs	9.96	10.12	0.00	5.95
(O) Net mWh Possible in Period	1,511,232	1,495,824	1,485,840	4,492,896
(P) Equivalent Availability (%)	91.69	92.13	91.92	92.36
(Q) Output Factor (%)	89.28	89.86	101.05	93.40
(R) Heat Rate (BTU/NkWh)	11,462	10,126	0	6,894

Footnote: (R) Includes Light Off BTU's
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
September, 2015 through August, 2016

Richmond County Station

	Unit 9	Unit 10	Unit ST5	Block Total
(A) MDC (mW)	193	193	248	634
(B) Period Hrs	8,784	8,784	8,784	8,784
(C) Net Generation (mWh)	1,419,658	1,422,136	1,859,559	4,701,353
(D) Capacity Factor (%)	83.76	83.91	85.25	84.39
(E) Net mWh Not Generated due to Full Scheduled Outages	107,805	110,090	194,388	412,283
(F) Scheduled Outages: percent of Period Hrs	6.36	6.50	8.91	7.40
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(I) Net mWh Not Generated due to Full Forced Outages	3,563	8,036	40,164	51,763
(J) Forced Outages: percent of Period Hrs	0.21	0.47	1.84	0.93
(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	163,854	154,617	87,297	405,769
(N) Economic Dispatch: percent of Period Hrs	9.67	9.12	4.00	7.28
(O) Net mWh Possible in Period	1,694,880	1,694,880	2,181,408	5,571,168
(P) Equivalent Availability (%)	93.65	93.32	89.19	91.67
(Q) Output Factor (%)	92.73	93.36	96.72	94.47
(R) Heat Rate (BTU/NkWh)	11,505	11,422	0	6,929

Footnote: (R) Includes Light Off BTU's
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
September, 2015 through August, 2016

Roxboro Station

	Unit 2
(A) MDC (mW)	672
(B) Period Hrs	8,784
(C) Net Generation (mWh)	2,846,972
(D) Capacity Factor (%)	48.24
(E) Net mWh Not Generated due to Full Scheduled Outages	645,652
(F) Scheduled Outages: percent of Period Hrs	10.94
(G) Net mWh Not Generated due to Partial Scheduled Outages	4,275
(H) Scheduled Derates: percent of Period Hrs	0.07
(I) Net mWh Not Generated due to Full Forced Outages	28,228
(J) Forced Outages: percent of Period Hrs	0.48
(K) Net mWh Not Generated due to Partial Forced Outages	383
(L) Forced Derates: percent of Period Hrs	0.01
(M) Net mWh Not Generated due to Economic Dispatch	2,375,849
(N) Economic Dispatch: percent of Period Hrs	40.26
(O) Net mWh Possible in Period	5,901,360
(P) Equivalent Availability (%)	88.51
(Q) Output Factor (%)	69.82
(R) Heat Rate (BTU/NkWh)	10,302

Footnote: (R) Includes Light Off BTU's
Units in commercial operation for the full month are presented.
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Duke Energy Progress
Base Load Power Plant
Performance Review Plan
September, 2015 through August, 2016

Sutton Energy Complex

	Unit 1A	Unit 1B	Unit ST1	Block Total
(A) MDC (mW)	198	198	265	662
(B) Period Hrs	8,784	8,784	8,784	8,784
(C) Net Generation (mWh)	1,341,948	1,412,189	1,699,223	4,453,360
(D) Capacity Factor (%)	77.12	81.15	72.93	76.65
(E) Net mWh Not Generated due to Full Scheduled Outages	131,394	101,983	65,547	298,923
(F) Scheduled Outages: percent of Period Hrs	7.55	5.86	2.81	5.14
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	111,367	111,367
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	4.78	1.92
(I) Net mWh Not Generated due to Full Forced Outages	0	338	0	338
(J) Forced Outages: percent of Period Hrs	0.00	0.02	0.00	0.01
(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	266,802	225,635	453,783	946,220
(N) Economic Dispatch: percent of Period Hrs	15.33	12.97	19.48	16.29
(O) Net mWh Possible in Period	1,740,144	1,740,144	2,329,920	5,810,208
(P) Equivalent Availability (%)	93.11	93.79	92.41	92.93
(Q) Output Factor (%)	87.44	88.12	76.42	83.07
(R) Heat Rate (BTU/NkWh)	11,430	11,333	0	7,038

Footnote: (R) Includes Light Off BTU's
Units in commercial operation for the full month are presented.
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Duke Energy Progress
Intermediate Power Plant
Performance Review Plan
September, 2015 through August, 2016

Mayo Station

Units		Unit 1
(A)	**MDC (mW)**	735
(B)	**Period Hrs**	8,784
(C)	**Net Generation (mWh)**	1,894,402
(D)	**Net mWh Possible in Period**	6,455,280
(E)	**Equivalent Availability (%)**	85.85
(F)	**Output Factor (%)**	51.70
(G)	**Capacity Factor (%)**	29.35

Units in commercial operation for the full month are presented.
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Duke Energy Progress
Intermediate Power Plant
Performance Review Plan
September, 2015 through August, 2016

Roxboro Station

Units	Unit 3	Unit 4
(A) MDC (mW)	694	703
(B) Period Hrs	8,784	8,784
(C) Net Generation (mWh)	1,640,431	1,687,919
(D) Net mWh Possible in Period	6,095,280	6,178,656
(E) Equivalent Availability (%)	71.61	88.09
(F) Output Factor (%)	65.57	70.13
(G) Capacity Factor (%)	26.91	27.32

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
August, 2016

Unit Name	Capacity Rating (mW)	Full Outage Hours		
		Scheduled	Unscheduled	Total
Brunswick 1	938	0.00	0.00	0.00
Brunswick 2	932	0.00	0.00	0.00
Harris 1	928	0.00	0.00	0.00
Robinson 2	741	103.58	74.78	178.36

Duke Energy Progress
Outages for 100 mW or Larger Units
August 2016

Unit Name	Capacity Rating (mW)	Full Outage Hours Scheduled	Full Outage Hours Unscheduled	Total Outage Hours
Asheville Steam 1	189	0.00	0.00	0.00
Asheville Steam 2	189	18.55	17.05	35.60
Asheville CT 3	164	0.00	0.00	0.00
Asheville CT 4	160	0.00	108.00	108.00
Darlington CT 12	118	88.85	1.35	90.20
Darlington CT 13	116	32.25	0.00	32.25
Lee Energy Complex CC 1A	177	4.60	0.00	4.60
Lee Energy Complex CC 1B	176	0.00	1.80	1.80
Lee Energy Complex CC 1C	179	0.00	0.00	0.00
Lee Energy Complex CC ST1	378	0.00	0.00	0.00
Mayo Steam 1	727	0.00	0.00	0.00
Richmond County CC 1	157	0.00	0.00	0.00
Richmond County CC 2	156	0.00	0.00	0.00
Richmond County CC 3	155	0.00	0.00	0.00
Richmond County CC 4	159	0.00	0.00	0.00
Richmond County CC 6	153	0.00	7.47	7.47
Richmond County CC 7	160	0.00	1.33	1.33
Richmond County CC 8	157	0.00	0.00	0.00
Richmond County CC ST4	165	0.00	0.00	0.00
Richmond County CC 9	178	0.00	0.00	0.00
Richmond County CC 10	178	0.00	0.00	0.00
Richmond County CC ST5	250	0.00	0.00	0.00

Units in commercial operation for the full month are presented.
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Duke Energy Progress
Outages for 100 mW or Larger Units
August 2016

Unit Name	Capacity Rating (mW)	Full Outage Hours Scheduled	Full Outage Hours Unscheduled	Total Outage Hours
Roxboro Steam 1	379	7.00	0.00	7.00
Roxboro Steam 2	671	108.42	0.00	108.42
Roxboro Steam 3	691	0.00	0.00	0.00
Roxboro Steam 4	698	0.00	0.00	0.00
Sutton Energy Complex CC 1A	179	0.00	0.00	0.00
Sutton Energy Complex CC 1B	179	0.00	0.00	0.00
Sutton Energy Complex CC ST1	264	0.00	0.00	0.00
Wayne County CT 10	177	0.00	0.00	0.00
Wayne County CT 11	174	0.00	0.00	0.00
Wayne County CT 12	173	0.00	139.72	139.72
Wayne County CT 13	170	0.00	0.00	0.00
Wayne County CT 14	169	0.00	0.00	0.00

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