

**ATTACHMENT 6**  
**[Initial Comments of NC WARN and CBD]**  
**Docket No. E-100, Sub 165**

**Question #:** NCWARN DEC DR4-5

**Question Detail:** In response to NC WARN's Data Request No. 3-1, the Company identified several units that were "not operating at full capacity" during several dates occurring in 2018-2019 and identified on Figure 9-A (page 72) of the Company's 2020 Integrated Resource Plan. Please identify the output in MW (if any) for the units identified in response to NC WARN's Data Request No. 3-1 at peak time for the dates on which responsive information was provided. (For clarity, the present data request is intended to ascertain the extent to which the units identified in response to NC WARN's Data Request No. 3-1 were operating below full capacity, or alternatively, were not operational.)

**Response:** DEC is providing the requested information for the dates in the time period 2018-2019. Because the explanatory parenthetical in the request provides more clarity on the intent of the request, data for each date are separated into those units/groups that were online and those that were offline. In addition, it appears the intent is to determine the additional MW capability which could have served additional load. The actual capabilities of the units/groups for these dates and times are not the same as the stated Net Dependable Capacities. Ambient conditions (e.g., temperature, humidity, sun angle and cloud cover for solar resources) have a significant effect, positive or negative, on the actual capability of a given unit. For this reason, the available unloaded capability for each unit is provided although it was not actually requested. For offline units, this value is estimated actual capability.

Some additional explanation is needed to fully understand the meanings of the reasons given.

- Online
  - Constrained – unit(s) temporarily constrained during some part of the hour, e.g., unit ramping up from a previous outage
  - Forced Derate – unit(s) constrained to operate at a lower level due to failure or limitation of one or more subsystems
  - Reliability – unit(s) constrained to operate at a specified level or range to avoid violation of reliability constraints
  - Reserves – the unloaded capacity is spinning reserve used for regulation and to provide a portion of contingency reserves
- Offline
  - Contingency Reserve – quick start unit(s) needed to complete contingency reserve needs
  - Forced Outage – unit(s) undergoing repairs due to an unforeseen/unplanned issue
  - Maint Outage – unit(s) undergoing planned maintenance or testing
  - Minimal Sun – integrated solar aggregate for the hour did not provide an entire MWh because sunlight was not strong enough to meet minimum inverter operation
  - Out of Economics – unit cost high enough and demand low enough to preclude need to run this unit
  - Reserve - Fuel Mgmt – unit(s) held in reserve to conserve a limited fuel
  - Reserve Shutdown – units in cold shutdown because longer term forecasts (weeks/months) indicated units would not be needed during the period

Data is provided for peaks for the following dates in 2018-2019: 1/2/2018, 1/25/19, 1/31/19, 3/6/19, 1/5/18, 12/6/18, and 1/11/19. As with the NCWARN DR3-1 response, the reason why each unit/group was not operational is indicated by the Reason column. Some units have been ungrouped from the NCWARN DR3-1 listing since loadings and available capacity differ for those in the group. Additionally, the tables have columns labeled Loading and Available to show the actual integrated hourly loading in MW and the unloaded MW capacity up to the actual capability of the unit/group for the given hour.

- Reasons marked with an asterisk (\*) indicate that the unit(s) was/were online for a part of the hour but tripped before the end of the hour; for these units the Available column does not show the amount actually available but the amount that could have been available if not for the trip.
- CONVENTIONAL HYDRO is a group of multiple units at several plants. Available capacity varies throughout the day and is somewhat less than the sum of the Net Dependable Capacities of these units due to outages and derates to meet licensing, environmental, testing, etc. requirements.

#### DEC Units/Groups Not Operational at Full Capacity at 01/02/18 Peak

##### Online Units/Groups

Unit/Group	Reason	Loading	Available
CONVENTIONAL HYDRO	Reserves	593	342
JOCASSEE PS	Reserves	770	10
LEE CT 07	Reserves	45	1
LINCOLN CT 02	Constrained	17	82
LINCOLN CT 04	Constrained	7	91
LINCOLN CT 09	Reserves	96	1
LINCOLN CT 10	Reserves	97	1
MILL CREEK CT 06	Reserves	89	3

##### Offline Units/Groups

Unit/Group	Reason	Loading	Available
3RD PARTY SOLAR	Minimal Sun	0	0
DUKE SOLAR	Minimal Sun	0	0
LEE STEAM 03	Maint Outage	0	173
LINCOLN CT 05	Contingency Reserve	0	97
LINCOLN CT 06	Contingency Reserve	0	97
LINCOLN CT 07	Contingency Reserve	0	98
LINCOLN CT 08	Contingency Reserve	0	98
LINCOLN CT 12	Forced Outage	0	98
LINCOLN CT 13	Contingency Reserve	0	98
MARSHALL 03	Forced Outage	0	658
ROCKINGHAM CT 01	Maint Outage	0	179

**DEC Units/Groups Not Operational at Full Capacity at 01/25/19 Peak****Online Units/Groups**

Unit/Group	Reason	Loading	Available
BAD CREEK PS	Reserves	1241	119
CLIFFSIDE 06	Forced Derate	645	204
CONVENTIONAL HYDRO	Reserves	523	192
JOCASSEE PS	Reserves	729	51
LEE CC PB1	Reserves	795	21
MARSHALL 01	Reserves	330	50
MARSHALL 02	Reserves	328	52
MARSHALL 04	Reliability	531	129
ROCKINGHAM CT 02	Reserves	178	2
ROCKINGHAM CT 03	Reserves	178	2
ROCKINGHAM CT 04	Reserves	178	2
ROCKINGHAM CT 05	Reserves	178	2

**Offline Units/Groups**

Unit/Group	Reason	Loading	Available
ALLEN 01	Reserve Shutdown	0	167
ALLEN 02	Reserve Shutdown	0	167
ALLEN 03	Reserve Shutdown	0	270
ALLEN 04	Reserve - Fuel Mgmt	0	267
ALLEN 05	Reserve Shutdown	0	259
BELEWS CREEK 01	Forced Outage	0	1110
BELEWS CREEK 02	Maint Outage	0	1110
CLIFFSIDE 05	Reserve - Fuel Mgmt	0	546
KEOWEE HYDRO	Maint Outage	0	0
LEE CT 07	Maint Outage	0	49
LEE CT 08	Maint Outage	0	49
LEE STEAM 03	Reserve Shutdown	0	160
LINCOLN CT 01	Contingency Reserve/Out of Economics	0	93
LINCOLN CT 02	Contingency Reserve/Out of Economics	0	92
LINCOLN CT 03	Contingency Reserve/Out of Economics	0	94
LINCOLN CT 04	Contingency Reserve/Out of Economics	0	92
LINCOLN CT 05	Contingency Reserve/Out of Economics	0	92
LINCOLN CT 06	Contingency Reserve/Out of Economics	0	92
LINCOLN CT 07	Contingency Reserve/Out of Economics	0	93
LINCOLN CT 08	Contingency Reserve/Out of Economics	0	93

LINCOLN CT 09	Contingency Reserve/Out of Economics	0	91
LINCOLN CT 10	Contingency Reserve/Out of Economics	0	92
LINCOLN CT 11	Contingency Reserve/Out of Economics	0	92
LINCOLN CT 12	Contingency Reserve/Out of Economics	0	93
LINCOLN CT 13	Contingency Reserve/Out of Economics	0	93
LINCOLN CT 14	Contingency Reserve/Out of Economics	0	92
LINCOLN CT 15	Contingency Reserve/Out of Economics	0	92
LINCOLN CT 16	Contingency Reserve/Out of Economics	0	92
MARSHALL 03	Reserve Shutdown	0	658
MILL CREEK CT 01	Out of Economics	0	91
MILL CREEK CT 02	Out of Economics	0	90
MILL CREEK CT 03	Out of Economics	0	91
MILL CREEK CT 04	Maint Outage	0	90
MILL CREEK CT 05	Out of Economics	0	89
MILL CREEK CT 06	Out of Economics	0	86
MILL CREEK CT 07	Out of Economics	0	90
MILL CREEK CT 08	Out of Economics	0	90

**DEC Units/Groups Not Operational at Full Capacity at 01/31/19 Peak**

**Online Units/Groups**

<b>Unit/Group</b>	<b>Reason</b>	<b>Loading</b>	<b>Available</b>
ALLEN 05	Reliability	258	1
BAD CREEK PS	Reserves	1206	154
CLIFFSIDE 06	Reserves	841	8
CONVENTIONAL HYDRO	Reserves	567	50
JOCASSEE PS	Reserves	704	76
LEE CC PB1	Reserves	793	25
MARSHALL 01	Reserves	372	8
MARSHALL 02	Reserves	375	5
MARSHALL 03	Reliability	644	14
MILL CREEK CT 01	Reserves	85	8
MILL CREEK CT 02	Reserves	84	8
MILL CREEK CT 03	Reserves	85	7
ROCKINGHAM CT 01	Reserves	170	10
ROCKINGHAM CT 02	Reserves	163	17
ROCKINGHAM CT 03	Reserves	162	18
ROCKINGHAM CT 04	Reserves	167	13
ROCKINGHAM CT 05	Reserves	178	2

**Offline Units/Groups**

Unit/Group	Reason	Loading	Available
ALLEN 01	Reserve Shutdown	0	167
ALLEN 02	Reserve Shutdown	0	167
ALLEN 03	Reserve Shutdown	0	270
ALLEN 04	Reserve - Fuel Mgmt	0	267
CLIFFSIDE 05	Reserve - Fuel Mgmt	0	546
KEOWEE HYDRO	Maint Outage	0	0
LEE CT 07	Maint Outage	0	49
LEE CT 08	Maint Outage	0	49
LEE STEAM 03	Reserve Shutdown	0	160
LINCOLN CT 01	Contingency Reserve/Out of Economics	0	95
LINCOLN CT 02	Contingency Reserve/Out of Economics	0	94
LINCOLN CT 03	Contingency Reserve/Out of Economics	0	95
LINCOLN CT 04	Contingency Reserve/Out of Economics	0	94
LINCOLN CT 05	Contingency Reserve/Out of Economics	0	93
LINCOLN CT 06	Contingency Reserve/Out of Economics	0	93
LINCOLN CT 07	Contingency Reserve/Out of Economics	0	95
LINCOLN CT 08	Contingency Reserve/Out of Economics	0	95
LINCOLN CT 09	Contingency Reserve/Out of Economics	0	93
LINCOLN CT 10	Contingency Reserve/Out of Economics	0	94
LINCOLN CT 11	Contingency Reserve/Out of Economics	0	94
LINCOLN CT 12	Contingency Reserve/Out of Economics	0	95
MILL CREEK CT 04	Out of Economics	0	92
MILL CREEK CT 05	Out of Economics	0	90
MILL CREEK CT 06	Out of Economics	0	88
MILL CREEK CT 07	Out of Economics	0	91
MILL CREEK CT 08	Out of Economics	0	92

**DEC Units/Groups Not Operational at Full Capacity at 03/06/19 Peak**

**Online Units/Groups**

Unit/Group	Reason	Loading	Available
BAD CREEK PS	Reserves	1019	341
CONVENTIONAL HYDRO	Reserves	472	256
JOCASSEE PS	Reserves	600	180
KEOWEE HYDRO	Reserves	80	72
LEE CT 07	Reserves	47	2
LEE CT 08	Reserves	48	1
MILL CREEK CT 01	Reserves	26	65
MILL CREEK CT 02	Reserves	25	65
MILL CREEK CT 03	Reserves	76	15
MILL CREEK CT 04	Reserves	75	16

ROCKINGHAM CT 02	Reserves	133	47
ROCKINGHAM CT 03	Reserves	170	10
ROCKINGHAM CT 05	Reserves	110	70

### Offline Units/Groups

Unit/Group	Reason	Loading	Available
ALLEN 01	Reserve - Fuel Mgmt	0	167
ALLEN 02	Reserve - Fuel Mgmt	0	167
ALLEN 03	Maint Outage	0	270
ALLEN 04	Maint Outage	0	267
ALLEN 05	Reserve - Fuel Mgmt	0	259
BUCK CC PB1	Maint Outage	0	704
LEE STEAM 03	Reserve Shutdown	0	160
LINCOLN CT 01	Contingency Reserve/Out of Economics	0	93
LINCOLN CT 02	Contingency Reserve/Out of Economics	0	92
LINCOLN CT 03	Contingency Reserve/Out of Economics	0	94
LINCOLN CT 04	Contingency Reserve/Out of Economics	0	92
LINCOLN CT 05	Contingency Reserve/Out of Economics	0	92
LINCOLN CT 06	Contingency Reserve/Out of Economics	0	92
LINCOLN CT 07	Contingency Reserve/Out of Economics	0	93
LINCOLN CT 08	Contingency Reserve/Out of Economics	0	93
LINCOLN CT 09	Contingency Reserve/Out of Economics	0	91
LINCOLN CT 10	Contingency Reserve/Out of Economics	0	92
LINCOLN CT 11	Contingency Reserve/Out of Economics	0	92
LINCOLN CT 12	Contingency Reserve/Out of Economics	0	94
LINCOLN CT 13	Contingency Reserve/Out of Economics	0	93
LINCOLN CT 14	Contingency Reserve/Out of Economics	0	92
LINCOLN CT 15	Contingency Reserve/Out of Economics	0	92
LINCOLN CT 16	Contingency Reserve/Out of Economics	0	92
MARSHALL 02	Maint Outage	0	380
MARSHALL 03	Forced Outage	0	640
MARSHALL 04	Forced Outage	0	500
MILL CREEK CT 05	Out of Economics	0	89
MILL CREEK CT 06	Out of Economics	0	86
MILL CREEK CT 07	Out of Economics	0	90
MILL CREEK CT 08	Out of Economics	0	90
ROCKINGHAM CT 01	Out of Economics	0	180
ROCKINGHAM CT 04	Out of Economics	0	180

### DEC Units/Groups Not Operational at Full Capacity at 01/05/18 Peak

**Online Units/Groups [922 MW]**

Unit/Group	Reason	Loading	Available
ALLEN 01	Reserves	143	13
ALLEN 03	Reliability	253	5
ALLEN 04	Reserves	250	8
ALLEN 05	Reserves	254	4
BAD CREEK PS	Reserves	883	477
BELEWS CREEK 02	Reserves	1102	8
CLIFFSIDE 05	Forced Derate	523	29
CONVENTIONAL HYDRO	Reserves	633	241
JOCASSEE PS	Reserves	710	70
LEE CT 07	Reserves	47	1
LEE CT 08	Reserves	47	1
LINCOLN CT 01	Reserves	97	1
LINCOLN CT 02	Reserves	97	2
LINCOLN CT 03	Reserves	96	3
LINCOLN CT 04	Reserves	97	1
LINCOLN CT 05	Reserves	96	1
LINCOLN CT 08	Reserves	97	1
LINCOLN CT 15	Reserves	96	2
MARSHALL 03	Forced Derate	632	36
MARSHALL 04	Reserves	654	11
ROCKINGHAM CT 01	Reserves	177	2
ROCKINGHAM CT 02	Reserves	178	1
ROCKINGHAM CT 03	Reserves	178	1
ROCKINGHAM CT 04	Reserves	178	1
ROCKINGHAM CT 05	Reserves	177	2

**Offline Units/Groups [1,320 MW]**

Unit/Group	Reason	Loading	Available
LEE STEAM 03	Out of Economics	0	168
LINCOLN CT 06	Contingency Reserve	0	97
LINCOLN CT 09	Contingency Reserve	0	97
LINCOLN CT 10	Contingency Reserve	0	98
LINCOLN CT 11	Contingency Reserve	0	98
LINCOLN CT 12	Contingency Reserve	0	98
LINCOLN CT 13	Contingency Reserve	0	98
LINCOLN CT 14	Contingency Reserve	0	97
LINCOLN CT 16	Forced Outage	0	97
MILL CREEK CT 01	Out of Economics	0	92
MILL CREEK CT 02	Out of Economics	0	92



MILL CREEK CT 03	Out of Economics	0	92
MILL CREEK CT 06	Out of Economics	0	92

**DEC Units/Groups Not Operational at Full Capacity at 12/06/18 Peak**

**Online Units/Groups**

Unit/Group	Reason	Loading	Available
ALLEN 03	Reliability	222	48
ALLEN 04	Reliability	238	29
BAD CREEK PS	Reserves	1159	201
BELEWS CREEK 01	Constrained	229	881
CLIFFSIDE 05	Maint Derate	401	4
CLIFFSIDE 06	Maint Derate	766	9
CONVENTIONAL HYDRO	Reserves	572	164
JOCASSEE PS	Reserves	690	90
LEE CT 07	Reserves	48	1
LEE CT 08	Reserves	47	2
MARSHALL 01	Reserves	307	73
MARSHALL 02	Reserve Shutdown	376	4
MARSHALL 03	Reliability	615	43
MARSHALL 04	Constrained	626	34
MILL CREEK CT 01	Reserves	89	2
MILL CREEK CT 02	Reserves	89	2
MILL CREEK CT 04	Reserves	90	1
ROCKINGHAM CT 01	Reserves	177	3
ROCKINGHAM CT 02	Reserves	179	1
ROCKINGHAM CT 03	Reserves	179	1
ROCKINGHAM CT 04	Reserves	179	1
ROCKINGHAM CT 05	Reserves	179	1

**Offline Units/Groups**

Unit/Group	Reason	Loading	Available
ALLEN 01	Maint Outage	0	167
ALLEN 02	Maint Outage	0	167
ALLEN 05	Maint Outage	0	259
BELEWS CREEK 02	Maint Outage	0	1110
CATAWBA NUCLEAR 01	Maint Outage	0	0
LEE CC PB1	Forced Outage	0	817
LEE STEAM 03	Maint Outage	0	160
LINCOLN CT 01	Contingency Reserve	0	93

LINCOLN CT 02	Contingency Reserve	0	92
LINCOLN CT 03	Contingency Reserve	0	94
LINCOLN CT 04	Contingency Reserve	0	93
LINCOLN CT 06	Contingency Reserve	0	92
LINCOLN CT 09	Contingency Reserve	0	92
LINCOLN CT 10	Contingency Reserve	0	92
LINCOLN CT 11	Contingency Reserve	0	93
LINCOLN CT 12	Contingency Reserve	0	94
LINCOLN CT 13	Contingency Reserve	0	94
OCONEE NUCLEAR 01	Maint Outage	0	0

### DEC Units/Groups Not Operational at Full Capacity at 01/11/19 Peak

#### Online Units/Groups

Unit/Group	Reason	Loading	Available
CLIFFSIDE 05	Reliability	543	3
BAD CREEK PS	Reserves	1351	9
JOCASSEE PS	Reserves	765	15
LEE CT 07	Reserves	48	1
LEE CT 08	Reserves	47	2
LEE CC PB1	Reserves	776	41
CONVENTIONAL HYDRO	Reserves	606	158
MILL CREEK CT 02	Constrained	71	20
MILL CREEK CT 01	Constrained	70	22

#### Offline Units/Groups

Unit/Group	Reason	Loading	Available
ALLEN 01	Reserve - Fuel Mgmt	0	167
ALLEN 02	Reserve - Fuel Mgmt	0	167
ALLEN 03	Reserve - Fuel Mgmt	0	270
ALLEN 04	Reserve - Fuel Mgmt	0	267
ALLEN 05	Reserve - Fuel Mgmt	0	259
BELEWS CREEK 01	Reserve - Fuel Mgmt	0	1110
CLIFFSIDE 06	Forced Outage	0	849
DUKE SOLAR	Minimal Sun	0	0
LEE STEAM 03	Reserve Shutdown	0	160
LINCOLN CT 01	Contingency Reserve/Out of Economics	0	94
LINCOLN CT 02	Contingency Reserve/Out of Economics	0	93
LINCOLN CT 03	Contingency Reserve/Out of Economics	0	94
LINCOLN CT 04	Contingency Reserve/Out of Economics	0	93

LINCOLN CT 05	Contingency Reserve/Out of Economics	0	92
LINCOLN CT 06	Contingency Reserve/Out of Economics	0	92
LINCOLN CT 07	Contingency Reserve/Out of Economics	0	94
LINCOLN CT 08	Contingency Reserve/Out of Economics	0	94
LINCOLN CT 09	Contingency Reserve/Out of Economics	0	92
LINCOLN CT 10	Contingency Reserve/Out of Economics	0	93
LINCOLN CT 11	Contingency Reserve/Out of Economics	0	93
LINCOLN CT 12	Contingency Reserve/Out of Economics	0	94
LINCOLN CT 13	Contingency Reserve/Out of Economics	0	94
LINCOLN CT 14	Contingency Reserve/Out of Economics	0	92
LINCOLN CT 15	Contingency Reserve/Out of Economics	0	93
LINCOLN CT 16	Contingency Reserve/Out of Economics	0	92
MARSHALL 01	Reserve - Fuel Mgmt	0	380
MARSHALL 02	Reserve - Fuel Mgmt	0	380
MILL CREEK CT 03	Out of Economics	0	91
MILL CREEK CT 04	Out of Economics	0	91
MILL CREEK CT 05	Out of Economics	0	90
MILL CREEK CT 06	Out of Economics	0	87
MILL CREEK CT 07	Out of Economics	0	91
MILL CREEK CT 08	Out of Economics	0	91

**Question #:** NCWARN DEP DR4-5

**Question Detail:** In response to NC WARN's Data Request No. 3-1, the Company identified several units that were "not operating at full capacity" during several dates occurring in 2018-2019 and identified on Figure 9-A (page 74) of the Company's 2020 Integrated Resource Plan. Please identify the output in MW (if any) for the units identified in response to NC WARN's Data Request No. 3-1 at peak time for the dates on which responsive information was provided. (For clarity, the present data request is intended to ascertain the extent to which the units identified in response to NC WARN's Data Request No. 3-1 were operating below full capacity, or alternatively, were not operational.)

**Response:** DEP is providing the requested information for the dates in the time period 2018-2019. Because the explanatory parenthetical in the request provides more clarity on the intent of the request, data for each date are separated into those units/groups that were online and those that were offline. In addition, it appears the intent is to determine the additional MW capability which could have served additional load. The actual capabilities of the units/groups for these dates and times are not the same as the stated Net Dependable Capacities. Ambient conditions (e.g. temperature, humidity, sun angle and cloud cover for solar resources) have a significant effect, positive or negative, on the actual capability of a given unit. For this reason, the available unloaded capability for each unit is provided although it was not actually requested. For offline units, this value is estimated actual capability.

Some additional explanation is needed to fully understand the meanings of the reasons given.

- Online
  - Constrained – unit(s) temporarily constrained during some part of the hour, e.g., unit ramping up from a previous outage
  - Forced Derate – unit(s) constrained to operate at a lower level due to failure or limitation of one or more subsystems
  - Reliability – unit(s) constrained to operate at a specified level or range to avoid violation of reliability constraints
  - Reserves – the unloaded capacity is spinning reserve used for regulation and to provide a portion of contingency reserves
- Offline
  - Contingency Reserve – quick start unit(s) needed to complete contingency reserve needs
  - Forced Outage – unit(s) undergoing repairs due to an unforeseen/unplanned issue
  - Maint Outage – unit(s) undergoing planned maintenance or testing
  - Minimal Sun – integrated solar aggregate for the hour did not provide an entire MWh because sunlight was not strong enough to meet minimum inverter operation
  - Out of Economics – unit cost high enough and demand low enough to preclude need to run this unit
  - Reserve - Fuel Mgmt – unit(s) held in reserve to conserve a limited fuel
  - Reserve Shutdown – units in cold shutdown because longer term forecasts (weeks/months) indicated units would not be needed during the period

Data is provided for peaks for the following dates in 2018-2019: 01/02/18, 01/03/18, 01/05/18, 01/07/18, 01/08/18, and 01/16/18. As with the NCWARN DR3-1 response, the reason why each unit/group was not operational is indicated by the Reason column. Some units have been ungrouped from the NCWARN DR3-1 listing since loadings and available capacity differ for those in the group. Additionally, the tables have columns labeled Loading and Available to show the actual integrated hourly loading in MW and the unloaded MW capacity up to the actual capability of the unit/group for the given hour.

- Reasons marked with an asterisk (\*) indicate that the unit(s) was/were online for a part of the hour but tripped before the end of the hour; for these units the Available column does not show the amount actually available but the amount that could have been available if not for the trip.
- NCEMC HAMLET 02 and 03 output is controlled by NCEMC and delivered to PJM.

#### DEP Units/Groups Not Operational at Full Capacity at 01/02/18 Peak

##### Online Units/Groups

Unit/Group	Reason	Loading	Available
ASHEVILLE 01	Reliability	185	2
ASHEVILLE 02	Reliability	184	1
ASHEVILLE CT 03	Forced Derate	124	1
BROAD RIVER IPP CT 01	Reliability	126	49
BROAD RIVER IPP CT 04	Forced Outage*	6	144
DARLINGTON CO. CT 13	Forced Outage*	63	70
NCEMC HAMLET CT 01	Reserves	55	1
NCEMC HAMLET CT 05	Reserves	55	1
SUTTON CT 04	Reserves	50	1
SUTTON CT 05	Reserves	50	1
WEATHERSPOON CT 01	Reserves	109	55

##### Offline Units/Groups

Unit/Group	Reason	Loading	Available
3RD PARTY SOLAR	Minimal Sun	0	0
BROAD RIVER IPP CT 02	Forced Outage	0	162
DARLINGTON CO. CT 01	Forced Outage	0	63
DARLINGTON CO. CT 03	Forced Outage	0	59
DARLINGTON CO. CT 07	Forced Outage	0	65
DARLINGTON CO. CT 12	Reserve - Fuel Mgmt	0	121
MARSHALL HYDRO	Forced Outage	0	0
NCEMC HAMLET CT 02	Out of Economics	0	56
NCEMC HAMLET CT 03	Out of Economics	0	56
WAYNE CT 12	Forced Outage	0	193

**DEP Units/Groups Not Operational at Full Capacity at 01/03/18 Peak****Online Units/Groups**

<b>Unit/Group</b>	<b>Reason</b>	<b>Loading</b>	<b>Available</b>
ASHEVILLE 01	Reliability	181	8
ASHEVILLE 02	Reliability	184	5
ASHEVILLE CT 03	Forced Derate	118	7
ASHEVILLE CT 04	Reliability	135	50
BROAD RIVER IPP CT 02	Reliability	143	29
DARLINGTON CO. CT 02	Reliability	52	12
DARLINGTON CO. CT 03	Reserves	57	6
DARLINGTON CO. CT 06	Reserves	54	8
DARLINGTON CO. CT 08	Forced Outage*	24	42
DARLINGTON CO. CT 10	Reliability	53	12
FAYETTEVILLE CC 01	Forced Derate	225	15
MAYO 01	Reserves	710	5
NCEMC ANSON CT 01	Reserves	54	2
NCEMC ANSON CT 02	Reserves	55	1
NCEMC ANSON CT 03	Reserves	26	30
NCEMC ANSON CT 04	Reserves	54	2
NCEMC ANSON CT 05	Reserves	54	2
NCEMC HAMLET CT 01	Reserves	55	1
NCEMC HAMLET CT 04	Reserves	54	2
NCEMC HAMLET CT 05	Reserves	55	1
RICHMOND CO. CC 04	Reserves	521	19
RICHMOND CO. CT 01	Reserves	162	27
RICHMOND CO. CT 02	Reserves	157	30
RICHMOND CO. CT 03	Reserves	163	22
RICHMOND CO. CT 04	Reliability	134	52
RICHMOND CO. CT 06	Reliability	135	52
ROXBORO 02	Forced Derate	639	4
SUTTON CC PB1	Reserves	703	14
WAYNE CT 10	Reserves	182	10
WAYNE CT 11	Reserves	182	10
WAYNE CT 12	Reserves	182	11
WAYNE CT 13	Reserves	176	15
WAYNE CT 14	Reserves	182	13

**Offline Units/Groups**

Unit/Group	Reason	Loading	Available
3RD PARTY SOLAR	Minimal Sun	0	0
BLEWETT CT	Forced Derate	0	51
DARLINGTON CO. CT 01	Forced Outage	0	63
DARLINGTON CO. CT 04	Forced Outage	0	66
DARLINGTON CO. CT 05	Forced Outage	0	66
DARLINGTON CO. CT 07	Forced Outage	0	65
DARLINGTON CO. CT 12	Forced Outage	0	133
DARLINGTON CO. CT 13	Forced Outage	0	133
DUKE SOLAR	Minimal Sun	0	0
MARSHALL HYDRO	Maint Outage	0	0
NCEMC ANSON CT 06	Forced Outage	0	56
NCEMC HAMLET CT 02	Out of Economics	0	56
NCEMC HAMLET CT 03	Out of Economics	0	56
WEATHERSPOON CT 01	Out of Economics	0	164

**DEP Units/Groups Not Operational at Full Capacity at 01/05/18 Peak**

**Online Units/Groups**

Unit/Group	Reason	Loading	Available
ASHEVILLE 01	Reliability	185	4
ASHEVILLE 02	Reliability	185	4
ASHEVILLE CT 03	Forced Derate	119	36
ASHEVILLE CT 04	Reliability	118	67
BLEWETT CT	Forced Derate	6	26
BROAD RIVER IPP CT 02	Reliability	144	28
BROAD RIVER IPP CT 03	Reliability	165	7
BROAD RIVER IPP CT 05	Reliability	161	11
DARLINGTON CO. CT 02	Reliability	53	11
DARLINGTON CO. CT 04	Reserves	54	12
DARLINGTON CO. CT 06	Forced Outage*	1	61
DARLINGTON CO. CT 07	Reserves	55	10
DARLINGTON CO. CT 08	Reliability	54	12
DARLINGTON CO. CT 10	Reliability	60	5
DARLINGTON CO. CT 12	Reliability	80	53
DARLINGTON CO. CT 13	Reliability	110	23
FAYETTEVILLE CC 01	Reliability	242	18
MAYO 01	Reserves	709	6
NCEMC ANSON CT 01	Reserves	54	2
NCEMC ANSON CT 02	Reserves	54	2
NCEMC ANSON CT 03	Reserves	27	29
NCEMC ANSON CT 04	Reserves	54	2

NCEMC ANSON CT 05	Reserves	54	2
NCEMC HAMLET CT 01	Reserves	54	2
NCEMC HAMLET CT 04	Reserves	55	1
NCEMC HAMLET CT 05	Reserves	55	1
RICHMOND CO. CT 01	Reserves	135	54
RICHMOND CO. CT 02	Reserves	162	25
RICHMOND CO. CT 03	Reserves	161	24
RICHMOND CO. CT 06	Reliability	139	48
ROXBORO 03	Reserves	692	6
ROXBORO 04	Reserves	707	4
SUTTON CC PB1	Reserves	632	85
SUTTON CT 04	Forced Derate	43	1
WAYNE CT 10	Reserves	162	13
WAYNE CT 11	Reserves	160	15
WAYNE CT 12	Reserves	174	1
WAYNE CT 13	Reserves	174	1
WEATHERSPOON CT 01	Reserves	20	144

#### Offline Units/Groups

Unit/Group	Reason	Loading	Available
MARSHALL HYDRO	Maint Outage	0	0
DARLINGTON CO. CT 01	Forced Outage	0	63
DARLINGTON CO. CT 05	Out of Economics	0	66
RICHMOND CO. CT 04	Forced Outage	0	186
NCEMC ANSON CT 06	Forced Outage	0	56
NCEMC HAMLET CT 02	Out of Economics	0	56
NCEMC HAMLET CT 03	Out of Economics	0	56
SUTTON CT 05	Maint Outage	0	50

#### DEP Units/Groups Not Operational at Full Capacity at 01/07/18 Peak

#### Online Units/Groups

Unit/Group	Reason	Loading	Available
ASHEVILLE CT 03	Forced Derate	153	2
BROAD RIVER IPP CT 01	Reliability	174	6
BROAD RIVER IPP CT 02	Reliability	171	1
BROAD RIVER IPP CT 03	Reliability	151	14
DARLINGTON CO. CT 04	Reserves	53	1
NCEMC ANSON CT 01	Reserves	55	1
NCEMC ANSON CT 02	Reserves	54	2



NCEMC ANSON CT 03	Forced Derate	27	1
NCEMC ANSON CT 04	Forced Derate	26	2
NCEMC ANSON CT 05	Reserves	55	1
NCEMC ANSON CT 06	Forced Derate	26	2
NCEMC HAMLET CT 01	Reserves	55	1
NCEMC HAMLET CT 04	Reserves	55	1
RICHMOND CO. CC 04	Reserves	498	52
RICHMOND CO. CT 02	Reserve - Fuel Mgmt	115	46
RICHMOND CO. CT 06	Reserve - Fuel Mgmt	107	66
SUTTON CT 05	Reserves	43	8
WAYNE CT 10	Reserves	136	46
WAYNE CT 11	Reserves	137	42
WAYNE CT 12	Reserves	141	36
WAYNE CT 13	Reserves	136	42
WAYNE CT 14	Reserves	154	28
WEATHERSPOON CT 01	Reserves	138	26

#### Offline Units/Groups

Unit/Group	Reason	Loading	Available
DARLINGTON CO. CT 01	Forced Outage	0	63
DARLINGTON CO. CT 05	Forced Outage	0	59
DARLINGTON CO. CT 08	Reliability	0	0
DARLINGTON CO. CT 10	Out of Economics	0	61
MARSHALL HYDRO	Maint Outage	0	0
NCEMC HAMLET CT 02	Out of Economics	0	56
NCEMC HAMLET CT 03	Out of Economics	0	56
RICHMOND CO. CT 04	Forced Outage	0	168
SUTTON CT 04	Out of Economics	0	51

#### DEP Units/Groups Not Operational at Full Capacity at 01/08/18 Peak

#### Online Units/Groups

Unit/Group	Reason	Loading	Available
BLEWETT CT	Maint Derate	4	64
DARLINGTON CO. CT 02	Reliability	52	2
DARLINGTON CO. CT 03	Reliability	52	1
DARLINGTON CO. CT 04	Reliability	53	1
DARLINGTON CO. CT 08	Reliability	53	7
DARLINGTON CO. CT 12	Reliability	100	20
DARLINGTON CO. CT 13	Reliability	100	10

NCEMC ANSON CT 01	Reserves	54	2
NCEMC ANSON CT 02	Reserves	54	2
NCEMC ANSON CT 03	Forced Outage	26	2
NCEMC ANSON CT 05	Reserves	16	40
NCEMC HAMLET CT 01	Reserves	55	1
NCEMC HAMLET CT 04	Reserves	55	1
NCEMC HAMLET CT 05	Reserves	55	1
RICHMOND CO. CT 01	Reserves	119	45
RICHMOND CO. CT 02	Reserves	116	45
RICHMOND CO. CT 03	Reserves	131	31
RICHMOND CO. CT 06	Reserves	105	68
SUTTON CC PB1	Forced Derate	570	13
SUTTON CT 04	Reserves	50	1
SUTTON CT 05	Reserves	50	1
WAYNE CT 10	Reserves	104	78
WAYNE CT 11	Reserves	102	77
WAYNE CT 12	Reserves	124	53
WAYNE CT 13	Reserves	157	21
WAYNE CT 14	Reserves	123	59

#### Offline Units/Groups

Unit/Group	Reason	Loading	Available
ASHEVILLE CT 03	Forced Outage	0	155
DARLINGTON CO. CT 01	Forced Outage	0	63
DARLINGTON CO. CT 05	Forced Outage	0	59
DARLINGTON CO. CT 06	Forced Outage	0	54
DARLINGTON CO. CT 10	Forced Outage	0	61
MARSHALL HYDRO	Maint Outage	0	0
NCEMC ANSON CT 04	Forced Outage	0	56
NCEMC ANSON CT 06	Forced Outage	0	28
NCEMC HAMLET CT 02	Out of Economics	0	56
NCEMC HAMLET CT 03	Out of Economics	0	56
RICHMOND CO. CT 04	Forced Outage	0	168

#### DEP Units/Groups Not Operational at Full Capacity at 01/16/18 Peak

#### Online Units/Groups

Unit/Group	Reason	Loading	Available
ASHEVILLE CT 03	Forced Derate	69	86
BROAD RIVER IPP CT 03	Reserves	171	1

DARLINGTON CO. CT 12	Reserves	108	25
HF LEE CC PB1	Reserves	1025	15
NCEMC ANSON CT 01	Reserves	54	1
NCEMC ANSON CT 02	Reserves	53	2
NCEMC HAMLET CT 01	Reserves	55	1
NCEMC HAMLET CT 04	Reserves	55	1
NCEMC HAMLET CT 05	Reserves	55	1
RICHMOND CO. CC 04	Reserves	532	8
RICHMOND CO. CT 01	Reserves	140	23
RICHMOND CO. CT 02	Reserves	138	21
RICHMOND CO. CT 03	Reserves	151	15
RICHMOND CO. CT 04	Forced Derate	97	38
RICHMOND CO. CT 06	Reserves	140	20
SUTTON CT 04	Reserves	50	1
SUTTON CT 05	Reserves	50	1
WAYNE CT 11	Reserves	112	70
WAYNE CT 12	Reserves	153	29
WAYNE CT 14	Reserves	160	24

#### Offline Units/Groups

Unit/Group	Reason	Loading	Available
BLEWETT CT	Forced Derate	0	34
BROAD RIVER IPP CT 01	Out of Economics	0	171
BROAD RIVER IPP CT 02	Out of Economics	0	165
BROAD RIVER IPP CT 04	Out of Economics	0	178
BROAD RIVER IPP CT 05	Out of Economics	0	174
DARLINGTON CO. CT 01	Forced Outage	0	63
DARLINGTON CO. CT 02	Out of Economics	0	60
DARLINGTON CO. CT 03	Out of Economics	0	59
DARLINGTON CO. CT 04	Out of Economics	0	66
DARLINGTON CO. CT 05	Forced Outage	0	66
DARLINGTON CO. CT 06	Out of Economics	0	62
DARLINGTON CO. CT 07	Out of Economics	0	65
DARLINGTON CO. CT 08	Out of Economics	0	66
DARLINGTON CO. CT 10	Forced Outage	0	65
FAYETTEVILLE CC 01	Forced Derate	0	225
HARRIS NUCLEAR 01	Forced Outage	0	0
MARSHALL HYDRO	Maint Outage	2	0
NCEMC ANSON CT 03	Out of Economics	0	56
NCEMC ANSON CT 05	Out of Economics	0	54
NCEMC ANSON CT 06	Out of Economics	0	56

NCEMC HAMLET CT 02	Out of Economics	0	56
NCEMC HAMLET CT 03	Out of Economics	0	56
WAYNE CT 10	Out of Economics	0	182
WAYNE CT 13	Out of Economics	0	177
WEATHERSPOON CT 01	Out of Economics	0	164