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September 1, 2017

VIA ELECTRONIC FILING

M. Lynn Jarvis, Chief Clerk
North Carolina Utilities Commission
4325 Mail Service Center
Raleigh, North Carolina 27699-4300

**RE: Duke Energy Carolinas, LLC 2017 Integrated Resource Plan Update
and 2017 REPS Compliance Plan
Docket No. E-100, Sub 147**

Dear Ms. Jarvis:

Pursuant to N.C. Gen. Stat. § 62-133.8, Commission Rules R8-60, R8-62(p) and R8-67, I enclose Duke Energy Carolinas, LLC's ("DEC" or the "Company") 2017 Integrated Resource Plan Update ("IRP Update") and 2017 Renewable Energy and Energy Efficiency Portfolio Standard ("REPS") Compliance Plan (collectively, the "2017 IRP"), for filing in connection with the referenced matter.

Portions of the DEC 2017 IRP Update contain confidential information that should be protected from public disclosure. Pages 60, 61, 78 and 79 contain information concerning DEC's wholesale contracts. Public disclosure of this information would harm DEC's and/or its counterparties' ability to negotiate in the wholesale market. Table 2 on page 192 of the 2017 REPS Compliance Plan contains the Company's combustion turbine costs. If this commercially sensitive business and technical information were to be publicly disclosed, it would allow competitors, vendors and other market participants to gain an undue advantage, which may ultimately result in harm to customers. Exhibit A of the 2017 REPS Compliance Plan, pages 194 through 202, contains names of counterparties with whom DEC has contracted for Renewable Energy Certificates ("RECs"), contract duration and estimated RECs. Public disclosure of this information would harm DEC's ability to negotiate and procure cost-effective purchases and discourage potential bidders from participating in requests for proposals. Pursuant to an

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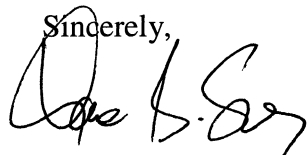
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agreement with the Public Staff in 2015, DEC plans to provide its most recent FERC Form 715, which contains critical energy infrastructure information that should be kept confidential and non-public, to the Public Staff rather than filing with the Commission.

Accordingly, I am filing portions of the 2017 IRP Update under seal; they should be treated confidentially pursuant to N.C. Gen. Stat. § 132-1.2 and protected from public disclosure. The Company will provide a copy of the confidential information to parties to this proceeding upon execution of an appropriate confidentiality agreement with DEC.

DEC will schedule the Rule R8-60(m) stakeholder meeting by November 30 and will contact parties of record to attempt to accommodate as many as possible with a selected date and location.

Thank you for your attention to this matter. If you have any questions, please let me know.

Sincerely,

Lawrence B. Somers

Enclosure

cc: Parties of record

CERTIFICATE OF SERVICE

I certify that a copy of Duke Energy Carolinas, LLC's 2017 IRP Update and 2017 REPS Compliance Plan, in Docket No. E-100, Sub 147, has been served by electronic mail, hand delivery or by depositing a copy in the United States mail, postage prepaid to the following parties of record:

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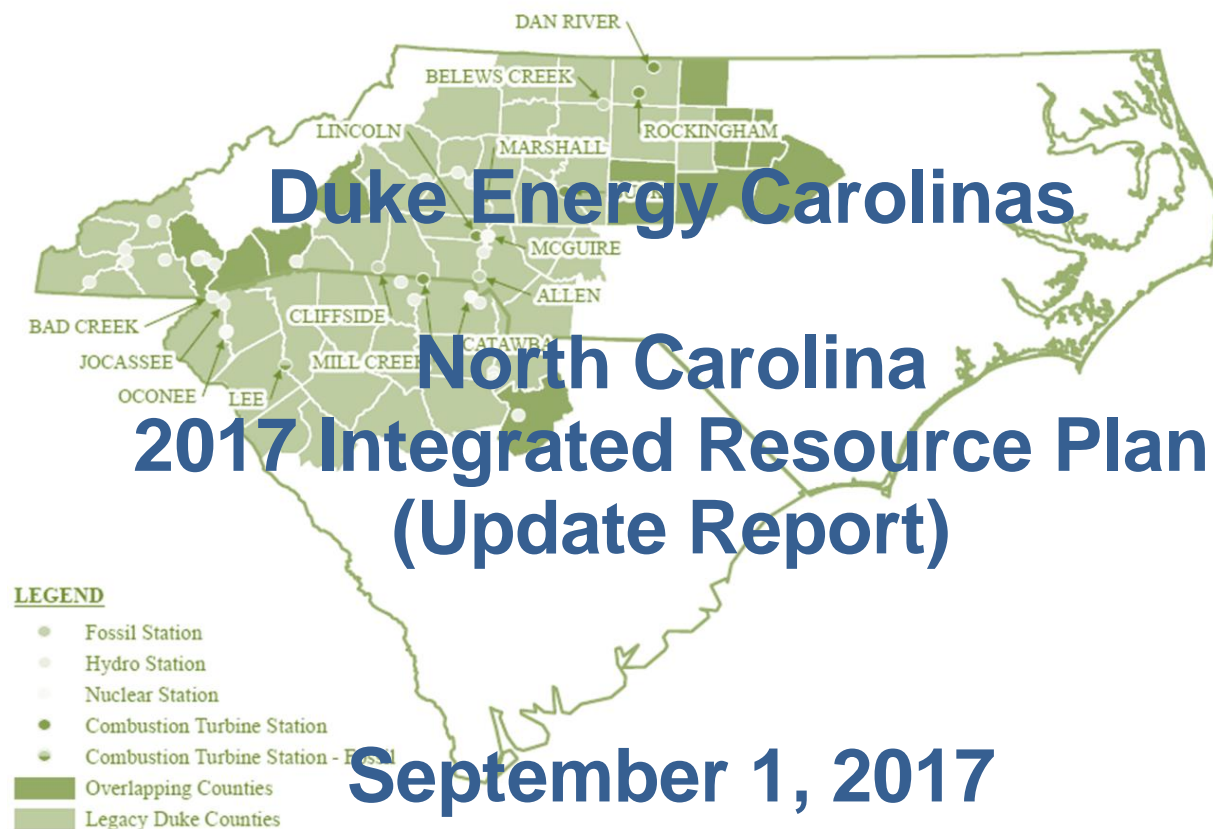
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This is the 1st day of September, 2017.

By: 

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1. INTRODUCTION

For more than a century, Duke Energy Carolinas (DEC) has provided affordable and reliable electricity to customers in North Carolina (NC) and South Carolina (SC) now totaling more than 2.5 million in number. The Company continues to serve its customers by planning for future demand requirements in the most reliable and economic way possible using increasingly clean forms of energy.

Historically, each year, as required by the North Carolina Utilities Commission (NCUC) and the Public Service Commission of South Carolina (PSCSC), DEC submits a long-range planning document called the Integrated Resource Plan (IRP). The IRP details potential infrastructure needed to match the forecasted electricity requirements and a reasonable reserve margin to maintain system reliability for our customers over the next 15 years.

On July 20, 2015, the NCUC ordered that the IRP process between biennial IRPs be significantly streamlined. As such, the remainder of this document provides updates to DEC's 2016 IRP as ordered by the NCUC.

The Company files separate IRPs for North Carolina and South Carolina. However, the IRP analyzes the system as one DEC utility across both states including customer demand, energy efficiency (EE), demand side management (DSM), renewable resources and traditional supply-side resources. As such, the quantitative analysis contained in both the North Carolina and South Carolina filings is identical, while certain sections dealing with state-specific issues such as state renewable standards or environmental standards may be specific to that state's IRP.

2. 2017 IRP SUMMARY

Each year, as required by the NCUC, DEC submits an IRP detailing potential infrastructure needed to meet the forecasted electricity requirements for its customers over the next 15 years. The 2017 IRP is the best projection of the Company's capacity and energy portfolio will look over the next 15 years, based on current data assumptions. This projection may change over time as variables such as the projected load forecasts, fuel price forecasts, environmental regulations, technology performance characteristics and other outside factors change.

The proposed plan will meet the following objectives:

- Provide reliable electricity especially during peak demand periods by maintaining adequate reserve margins. Peak demand refers to the highest amount of electricity being consumed for any given hour across DEC's entire system.
- Add new resources at the lowest reasonable cost to customers. These resources include a balance of EE, DSM, renewable resources, nuclear facilities, hydro generation and natural gas generation.
- Improve the environmental footprint of the portfolio by meeting or exceeding all federal, state and local environmental regulations.

As 2017 is an update year, DEC developed four cases which reflect updates to the 2016 IRP base case. The first case, or the "Base Case," is an update to the presented base case in the 2016 IRP, which includes the expectation of future carbon legislation and no relicensing of existing nuclear units. Additionally, a "No Carbon Case" was developed in which no carbon legislation, without nuclear relicensing, is considered. Finally, given the uncertainty of new and existing nuclear generation, the Base Case and No Carbon Case were also evaluated with relicensing of existing nuclear units. All results presented in this IRP represent the Base Case without nuclear relicensing, except where otherwise noted. As discussed in more detail throughout this report, two significant updates in this year's IRP are developments around the Lee Nuclear project and changes in DEC's renewable energy forecast.

Lee Nuclear

On December 19, 2016, the Company received the Combined Construction and Operating License (COL) for the Lee Nuclear Project from the U.S. Nuclear Regulatory Commission. On August 25, 2017, DEC filed a request to cancel the Lee Nuclear Project as that project was originally envisioned and included in prior IRPs. That request is now pending before the North Carolina Utilities Commission (NCUC) in Docket Nos. E-7, Sub 819 and E-7 Sub 1146. On

August 25, 2017, DEC also filed notice of its cancellation request with the Public Service Commission of South Carolina (PSCSC) in Docket 2011-20-E. DEC's decision to cancel the project resulted from events that have occurred subsequent to receipt of the Lee Nuclear COL. These events include the AP-1000 technology owner, designer and engineer, Westinghouse, and its parent company, Toshiba Corporation, indicating that they intend to exit the nuclear construction business in the U.S., including the Lee Project; the subsequent bankruptcy of Westinghouse, and the substantial cost increases and schedule delays associated with the Vogtle and V.C. Summer new nuclear construction projects; the latter of which South Carolina Electric & Gas Company and project joint owner, Santee Cooper, recently canceled.

In addition to these developments, revised projections indicate that new nuclear baseload capacity is needed only under a carbon-constrained scenario with the assumption of no existing nuclear re-licensing. Even in that scenario, the added capacity would not be needed until much later in the 15-year planning horizon (2031, 2033) than projected in the 2016 IRP.

Over the next year, for inclusion in its 2018 comprehensive IRP filing, the Company will continue to monitor and analyze key developments on factors impacting the potential need for future new baseload nuclear generation. Such factors include further developments on the Vogtle project, progress on existing unit relicensing efforts and changes in fuel prices and carbon policy.

Renewable Energy

The Company continues to aggressively pursue additional cost-effective renewable resources as a growing part of its energy portfolio. The Company's commitment, coupled with supporting legislation such as North Carolina's Renewable Energy and Energy Efficiency Portfolio Standard (NC REPS) and South Carolina's Distributed Energy Resource Program Act (SC DER Program), have led to significant growth in renewable resource development in the Carolinas.

Furthermore, on July 27, 2017, North Carolina Governor Cooper signed into law the "Competitive Energy Solutions for North Carolina" bill or House Bill 589 (HB 589). As discussed in more detail in Section 4.b. of this report, HB 589 calls for the establishment of a competitive procurement process by which the Company will pursue additional solar resources in its North Carolina and South Carolina service territory, provided that they are cost-effective for consumers. Commensurately, the update contained in this year's IRP reflects the initial forecast of increases in renewable additions as a result of HB 589.

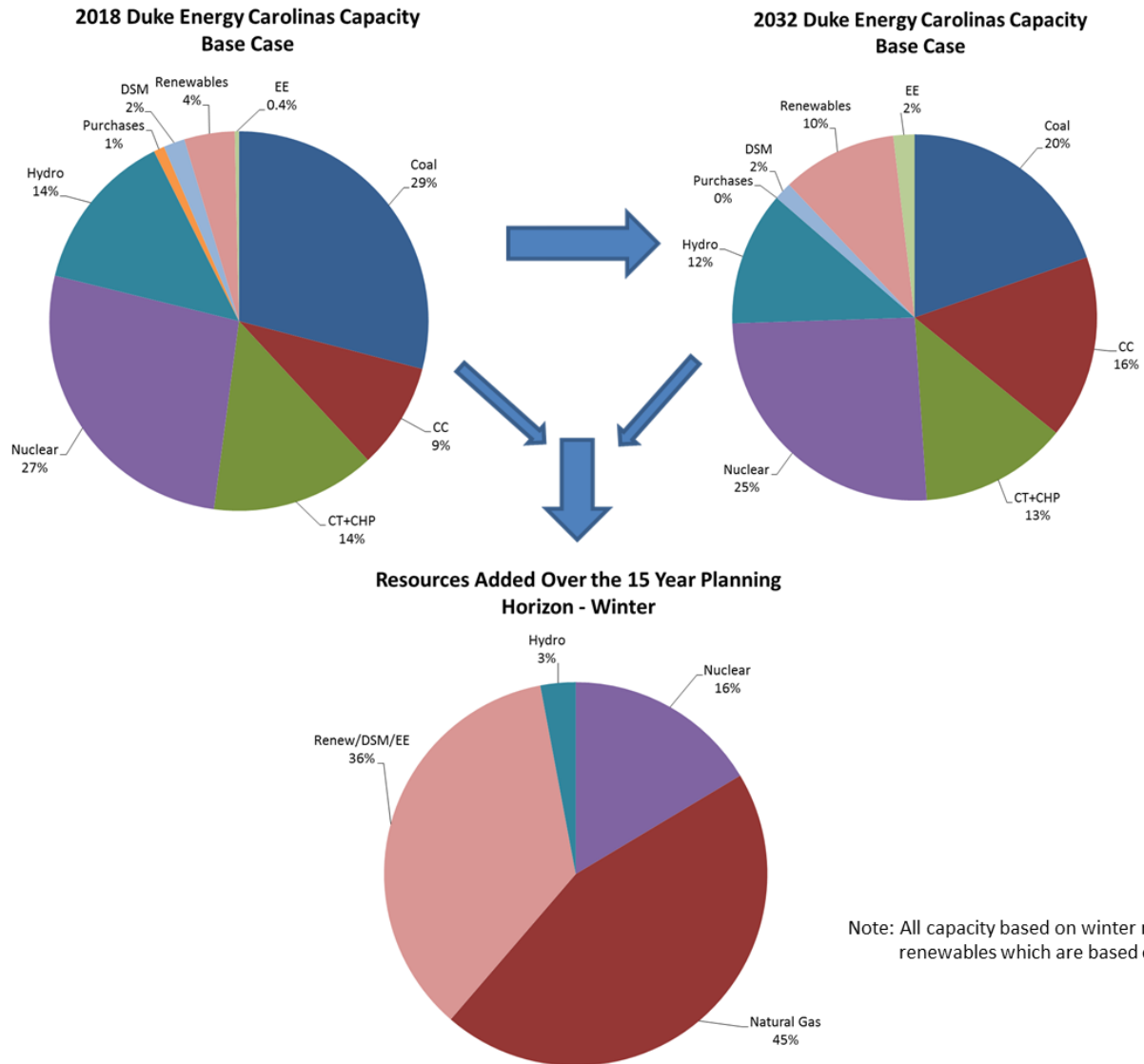
It must be noted, however, that at the time of this report filing, the rules, regulations and details surrounding the implementation of HB 589 are still under development. As these rules are finalized and the Company gains experience with the new competitive procurement process, updated forecasts will be presented in subsequent IRPs.

In addition to the Lee Nuclear and Renewable Energy updates, other changes and issues since the 2016 IRP are discussed in this document. Those changes and issues include:

- Load Forecast
- Combined Heat & Power (CHP) Projections
- Resource Adequacy
- Fuel Costs
- Carbon Assumptions
- Technology Construction and Operating Costs
- Transmission Planned and Under Construction

As shown in the 2017 IRP Base Case, projected incremental needs are driven by load growth and the retirement of aging generation resources and expiration of purchases power contracts. The 2017 IRP seeks to achieve a reliable, economic long term power supply through a balance of incremental renewable resources, EE, DSM, and traditional supply-side resources planned over the coming years which allows the Company to maintain a diversified resource mix while also providing increasingly clean energy. Chart 2-A represents the incremental investments required to meet future needs.

Chart 2-A 2018 and 2032 Base Case Winter Capacity Mix and Sources of Incremental Capacity



3. IRP PROCESS OVERVIEW

To meet the future needs of DEC's customers, it is necessary for the Company to adequately understand the load and resource balance. For each year of the planning horizon, the Company develops a load forecast of cumulative energy sales and hourly peak demands. To determine total resources needed, the Company considers the peak demand load obligation plus a 17% minimum planning reserve margin.

The projected capability of existing resources, including generating units, EE and DSM, renewable resources and purchased power contracts, is measured against the total resource need. Any deficit in future years will be met with a mix of additional resources that reliably and cost-effectively meet the load obligation and planning reserve margin while complying with all environmental and regulatory requirements.

Growth in Peak Demand and Energy Consumption	+	Resource Retirements	=	New Resource Needs
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It should be noted that DEC considers the non-firm energy purchases and sales associated with the Joint Dispatch Agreement (JDA) with Duke Energy Progress (DEP) in the development of its independent Base Case. To accomplish this, DEC and DEP plans are determined simultaneously to minimize revenue requirements of the combined jointly dispatched system while maintaining independent reserve margins for each company.

For the first time in the 2016 IRP, DEC developed resource plans that also include new resource additions driven by winter peak demand projections inclusive of winter reserve requirements. The completion of a comprehensive reliability study demonstrated the need to include winter peak planning in the IRP process. The study recognized the growing volatility associated with winter morning peak demand conditions such as those observed during recent polar vortex events. The study also incorporated the expected significant growth in solar facilities that provide valuable assistance in meeting summer afternoon peak demands on the system but do little to assist in meeting demand for power on cold winter mornings. As discussed in more detail in the Resource Adequacy section, the significant penetration of solar resources and the associated impact on summer versus winter reserves is the primary driver for the Company's shift to winter capacity planning. Based on results of the reliability study, DEC is now utilizing a winter planning reserve margin of 17% in its planning process.

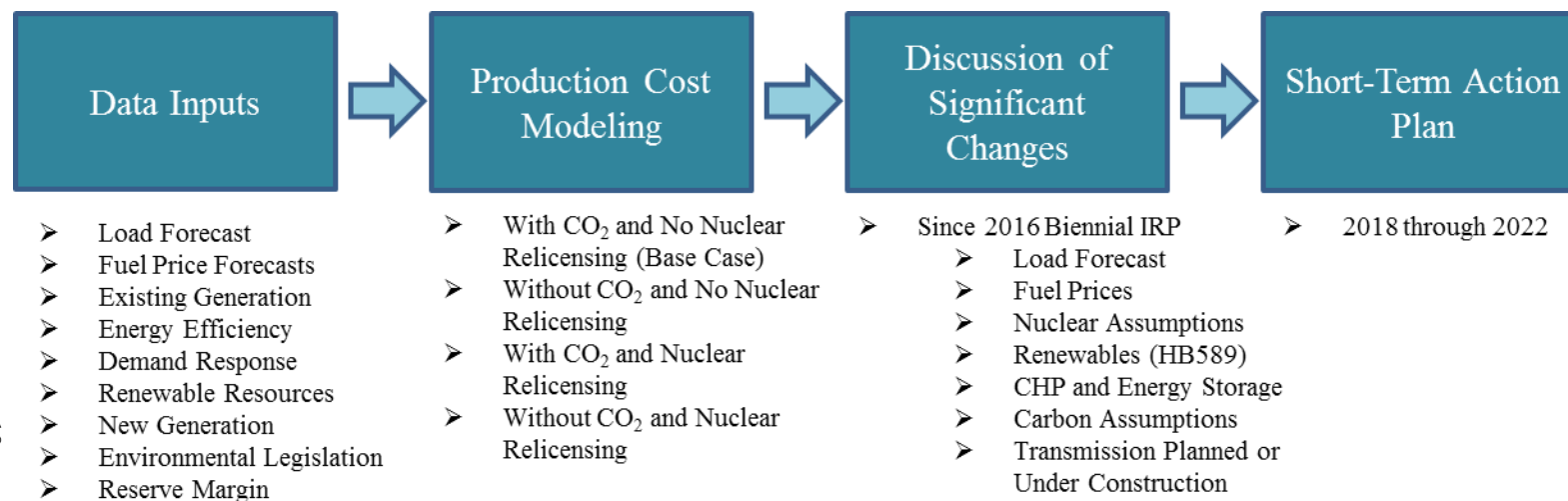
For the 2017 Update IRP, the Company presents a Base Case with a carbon tax beginning in 2026. The Clean Power Plan (CPP) rule that was finalized on August 3, 2015 by the EPA is under interagency review for potential repeal. As a result, the timing and details of any potential future carbon legislation are highly uncertain. However, remaining consistent with the Commission's Order to both include and exclude costs associated with carbon regulation, the current assumption of a carbon tax is intended to serve as a placeholder for some form of potential future carbon regulation.¹

While future carbon legislation is unknown, the Company feels that it is prudent to continue to plan for this scenario, as well as other potential future scenarios. Furthermore, a primary focus of this update IRP is the Short-Term Action Plan (STAP), which covers the period 2018 to 2022. It was determined that the inclusion of the carbon tax did not have a significant impact on the STAP, and therefore the majority of the data presented in this report represents the Base Case.

Figure 3-A represents a simplified overview of the resource planning process in the update years (odd years) of the IRP cycle.

¹ "Order Accepting Integrated Resource Plans and Accepting REPS Compliance Plans"; NCUC Docket No. E-100, Sub 147; p. 35

Figure 3-A Simplified IRP Process



4. **SIGNIFICANT CHANGES FROM THE 2016 IRP**

As an initial step in the IRP process, all production cost modeling data is updated to include the most current data. Throughout the year, best practices are implemented to ensure the IRP best represents the Company's planning assumptions including load forecast, generation system, conservation programs, renewable energy and fuel costs. The data and methodologies are regularly updated and reviewed to determine if adjustments can be made to further improve the IRP process and results.

As part of the review process certain data elements with varying impacts on the IRP, inevitably change. A discussion of new or updated data elements that have the most substantial impact on the 2017 IRP is provided below.

a) **Load Forecast**

The Company continues to utilize the statistically adjusted end use models (SAE) provided by ITRON to forecast sales and peaks with reasonable results.

Each time the forecast is updated, the most currently available historical and projected data is used. The Spring 2017 forecast which was used in the development of the Company's 2017 IRP utilizes:

- Moody's Analytics January 2017 base economic projections
- End use equipment and appliance indexes reflecting the 2016 update of ITRON's end-use data, which is consistent with the Energy Information Administration's 2016 Annual Energy Outlook
- A calculation of normal weather using the period 1987-2016

Additional focus is being placed on the hourly shaping of sales, which plays a critical role in forecasting summer and winter peaks. While much of this work is ongoing and will be incorporated in the 2018 IRPs, the Company continues to review the weather sensitivity of winter and summer peaks, as well as the hourly shaping of behind-the-meter solar, utility sponsored energy efficiency programs (UEE), electric vehicles, and other variables.

Additional focus is also being placed on Duke's load research sample data, to gain a better understanding of historical hourly demand trends, winter and summer peaking characteristics by

customer class, and minimums by customer class, in continuous efforts to improve forecast accuracy.

Table 4-A depicts the projected average annual growth rates of several key drivers from DEC's Spring 2017 Forecast.

Table 4-A Key Drivers

	2018-2032
Real Income	2.7%
Manufacturing Industrial Production Index (IPI)	1.3%
Population	1.6%

In addition to economic, demographic, and efficiency trends, the forecast also incorporates the expected impacts of utility-sponsored energy efficient programs, as well as projected effects of electric vehicles and behind-the-meter solar technology.

The results of the Spring 2017 Forecast as compared to Spring 2016 Forecast is presented in Table 4-B below.

**Table 4-B 2017 Load Forecast Growth Rates vs. 2016 Load Forecast Growth Rates
(Retail and Wholesale Customers)**

	2017 Forecast (2018 – 2032)			2016 Forecast (2017 – 2031)		
	Summer Peak Demand	Winter Peak Demand	Energy	Summer Peak Demand	Winter Peak Demand	Energy
<i>Excludes</i> impact of new EE programs	0.7%	1.0%	0.7%	1.3%	1.4%	1.1%
<i>Includes</i> impact of new EE programs	0.4%	0.9%	0.4%	1.2%	1.3%	1.0%

b) **Renewable Energy**

The growth of renewable generation in the United States continues to outpace that of non-renewable generation. In 2016, more than 16,000 MW of wind and solar capacity were installed nationwide compared to approximately 10,000 MW for natural gas, coal, nuclear, and other technologies.²

North Carolina ranked in the top five in the country in solar capacity added in 2016, second behind only California in total solar capacity online. Duke Energy's compliance with the North Carolina Renewable Energy and Energy Efficiency Portfolio Standards (NC REPS) and the Public Utility Regulatory Policies Act (PURPA) as well as the Federal Investment Tax Credit (ITC) were key factors behind the high penetration of solar in the state. North Carolina's current favorable avoided cost rate and 15-year contract terms for qualifying facilities (QFs) under PURPA have contributed to record numbers of projects in the interconnection queue, with the DEC and DEP combined solar queue representing more than 7,000 MW.

To reduce the dependence on PURPA while continuing to support solar growth in a sustainable and economically attractive manner, on July 27, 2017 Governor Cooper signed into law the "Competitive Energy Solutions for North Carolina" bill or House Bill 589 (HB 589). The law reduces the maximum size of standard contracts offered to solar projects to 1 MW and reduces the contract term to 10 years.

HB 589 also introduces a competitive procurement process for renewable resources including large-scale solar facilities that continues to enable third-party and utility-owned renewable development. Capacity referred to as the "Transition" MW in this document represents the total capacity of projects in the combined Duke Balancing Authority area that are (1) already connected; or (2) have entered into purchase power agreements and interconnection agreements as of the end of the 45-month competitive procurement period, provided that they are not subject to curtailment or economic dispatch. HB 589 targets 2,660 MW of competitively procured renewable resources over a 45-month period, which may vary based on the amount of "Transition" MW at the end of the 45-month period. It is expected that 3,500 MW of "Transition" MW will exist in the combined Duke Balancing Authority area at the end of the 45-month period. The capacity additions from the competitive procurement will be in addition to the expected 3,500 MW of "Transition" MW. Projects in both North Carolina and South Carolina are eligible for the competitive procurement process.

² All renewable energy MW represent MW-AC (alternating current) unless otherwise noted.

Growing customer demand, the federal ITC, and declining installed solar costs make solar capacity the Company's primary renewable energy resource in the 2017 IRP. The 2017 IRP makes the following key assumptions regarding renewable energy:

- Installed solar capacity increases in DEC from 889 MW in 2018 to 2,890 MW in 2032;
- Compliance with NC REPS continues to be met through a combination of solar, other renewables, EE, and Renewable Energy Certificate (REC) purchases;
- Achievement of the SC DER Program goal of 120 MW of solar capacity located in DEC-SC;
- Passage of HB 589 and continuing solar cost declines drive solar capacity growth above and beyond NC REPS requirements.

Interconnection Queue and the Transition

Through the end of 2016, DEC had more than 500 MW of third party utility scale solar on its system, with approximately 200 MW interconnecting in 2016. When renewable resources were evaluated for the 2017 IRP, DEC reported another approximately 35 MW of third party solar under construction and more than 1,500 MW in the interconnection queue. Table 4-C depicts the interconnection queue for DEC as of June 30, 2017.

Table 4-C DEC QF Interconnection Queue (as of June 30, 2017)

Utility	FacilityState	Energy Source Type	Number of Pending Projects	Pending Capacity (MW AC)
DEC	NC	Biogas *	1	0
		Biomass	3	11
		Hydroelectric	1	4
		Landfill Gas	1	2
		Solar	137	1,220
	NC Total		143	1,237
	SC	Landfill Gas	1	5
		Natural Gas *	1	0
		Other	1	0
		Solar	57	630
	SC Total		60	635
DEC Total			203	1,872

* No Capacity entered into system

Projecting future solar connections from the interconnection queue has presented a significant challenge due to the large number of project cancellations and ownership transfers. If the aggregate capacity in the “Transition” exceeds 3,500 MW, the competitive procurement volume of 2,660 MW will be reduced by the excess amount; conversely, if the “Transition” falls short of 3,500 MW the Companies will conduct additional competitive procurement.

DEC’s contribution to the “Transition” depends on a number of variables including connecting projects under construction, the number of projects in the queue with power purchase and/or interconnection agreements, SC DER Program Tier I, and capacity connected as a result of the Request for Proposal (RFP) for NC REPS compliance issued in the Fall of 2016.

The DEC RFP for NC REPS compliance is expected to be the greatest contributor of “Transition” MW beyond the over 500 MW currently connected as more than 300 MW of solar may connect to meet the 750,000 MWHs requested in the RFP. In total, DEC may contribute roughly one-quarter of the “Transition” MW with DEP accounting for the remaining three-quarters.

NC REPS Compliance

DEC remains committed to meeting the requirements of NC REPS, including the poultry waste, swine waste, and solar set-asides, and the general requirement, which will be met with additional solar, hydro, biomass, landfill gas, wind, and energy efficiency resources. DEC’s long-term general compliance needs are expected to be met through a combination of renewable resources, including solar RECs obtained through the HB 589 competitive procurement process. For details of DEC’s NC REPS compliance plan, please reference the NC REPS Compliance Plan section.

HB-589 Competitive Procurement and Utility-Owned Solar

DEC continues to evaluate utility-owned solar additions to support its compliance targets and to grow its renewables portfolio. For example, DEC has recently connected two new utility-scale solar projects as part of its efforts to encourage emission free generation resources and help meet its compliance targets, totaling 75 MW-AC:

- Monroe Solar Facility – 60 MW, located in Union County, placed in service on March 29, 2017; and
- Mocksville Solar Facility – 15 MW, located in Davie County, placed in service on December 16, 2016.

As mentioned above, HB 589 calls for 2,660 MW of additional solar in the Carolinas, which may vary depending upon how the actual “Transition” MW compare to the initial 3,500 MW estimate. RFPs will be issued over a 45-month period under the competitive procurement process; DEC may own up to 30% of the competitive procurement volume it self-develops. DEC will also evaluate the potential for acquiring facilities where appropriate. HB 589 does not stipulate a limit for DEC’s option to acquire third party projects. Since the majority of the solar projects connected during the “Transition” will be in DEP’s territory, DEC is expected to have the majority of the competitive procurement projects, helping to balance the portfolios and mitigate additional operational challenges in DEP.

The 2017 IRP Base Case assumes that the winning bids under competitive procurement will be priced below avoided costs, but it is important to note that a number of factors could prevent this from happening. The utility’s avoided cost rates, as approved by the NCUC, and the cost of solar are two critical inputs for forecasting how much of the competitive procurement will materialize. Avoided cost forecasts are subject to variability due to changes in factors such as natural gas and coal commodity prices, system energy and demand requirements, the level and cost of generation ancillary service requirements and interconnection costs. Changes in these factors will result in changing avoided cost values over the upcoming years with the potential to impact the cost-effectiveness of future competitive procurement solicitations.

Similarly, solar costs are also influenced by a number of variables. Panel prices have decreased at a significant rate and are expected to continue to decline. However, there are political factors, such as the Suniva International Trade Commission (ITC) case, that have the potential to increase panel prices.³ Additional factors that could put upward pressure on solar costs include direct interconnection costs, as well as costs incurred to maintain the appropriate operational control of the facilities. Finally, as panel prices have decreased, there has been more interest in installing single-axis tracking (SAT) systems and/or systems with higher inverter load ratios (ILR) which change the hourly profile of solar output and increase expected capacity factors. DEC will incorporate different configurations further in the 2018 IRP.

In summary, there is a great deal of uncertainty in both the future avoided cost value of solar and the expected price of solar installations in the years to come. As a result, the Company will continue to closely monitor and report on these changing factors in future IRP and competitive procurement filings.

³ In April, 2017, Suniva officially filed a petition to the ITC under Section 201 of the Trade Act of 1974. Suniva is requesting relief against imports from all geographic sources and requesting both a minimum price on crystalline silicon PV modules (initially \$0.78/W) and a tariff on cells (initially \$0.40/W). As expected, the petition only applies to crystalline silicon. (GTM Research Suniva Trade Dispute Update)

In preparation for the HB 589 competitive procurement process, the Company continues to build its relationships with suppliers, Engineering, Procurement, and Construction Contractors (EPCs), and other entities to create greater efficiencies in the supply chain, reduce construction costs, reduce operating and maintenance costs (O&M), and enhance system design. In anticipation of future solar growth, DEC is positioning itself to properly integrate renewable resources to the grid regardless of ownership.

In addition to ensuring DEC has operational control over future solar associated with HB 589, the intermittency of solar output will require the Company to evaluate and invest in technologies to provide solutions for voltage, volt-ampere reactive (VAR), and/or higher ancillary reserve requirements.

HB 589 Customer Programs

In addition to the competitive procurement process, HB 589 offers direct renewable energy procurement for major military installations, public universities, and other large customers, as well as a community solar program. These programs will be a great complement to the existing customer oriented strategies in DEC such as the Green Source Rider and SC DER Program.

The Green Source Rider allows DEC to procure renewable energy on behalf of the customer. The customer pays for the REC during their project term and DEC may acquire the REC following the contract term. Numerous customers have participated in this program, which stands at approximately 99 MW-AC (nameplate capacity) and is expected to grow to just over 103 MW-AC by 2017.

The renewable energy procurement carve out for large customers such as military installations and universities may have similarities to the Green Source Rider program. The carve out allows for up to 600 MW of total capacity, with set asides for military installations (100 MW of the 600 MW) and the UNC system (250 MW of the 600 MW). The 2017 IRP base case assumes all 600 MW of this program materialize, with the DEC/DEP split expected to be roughly equal. If all 600 MW are not utilized, the remainder will roll back to the competitive procurement, increasing its volume.

The community solar portion of HB 589 calls for up to 20 MW of shared solar in DEC. This program may have similarities to the SC DER Program's community solar program. The 2017 IRP base case assumes that all 20 MW of the program materialize.

HB 589 also calls for a rebate program for rooftop solar as well as a leasing program, and the establishment of revised net metering rates. Given the uncertainty around the timing and structuring of these programs, it is challenging to assess the impact HB 589 will have on rooftop solar adoption in NC.

SC DER Program Solar

Steady progress continues to be made with the first two tiers of the SC DER Program summarized below, completion of which would unlock the third tier:

- Tier I: 40 MW of solar capacity from facilities each >1 MW and < 10 MW in size.
- Tier II: 40 MW of behind-the-meter rooftop solar facilities for residential, commercial and industrial customers, each ≤ 1 MW, 25% of which must be ≤ 20 kilowatts (kW). Since Tier II is behind the meter, the expected solar generation is embedded in the load forecast as a reduction to expected load.
- Tier III: Investment by the utility in 40 MW of solar capacity from facilities each >1 MW and < 10 MW in size. Upon completion of Tiers I and II (to occur no later than 2021), the Company may directly invest in additional solar generation to complete Tier III.

The Company launched its first Shared Solar program as part of Tier I. Often called “community solar,” shared solar refers to both a solar facility and a billing structure in which multiple customers subscribe to and share in the economic benefits of the output of a single solar facility. The Company designed its initial SC DER shared solar program such that it would have strong appeal to residential and commercial customers who rent or lease their premises, residential customers who reside in multifamily housing units or shaded housing, and residential customers for whom the relatively high up-front costs of solar PV make net metering unattainable. Tier II has resulted in significant growth in rooftop solar in South Carolina. DEC SC now has over 30 MW of rooftop solar installed, which is currently more than DEC NC.

Battery Storage and Wind

In addition to solar, the Company is assessing renewable technologies such as battery storage and wind. Battery storage costs are expected to continue to decline significantly which may make it a

viable option in the long run to support grid services, including frequency regulation, solar smoothing, and/or energy shifting from localized renewable energy sources with a high incidence of

intermittency (i.e. solar and wind). The Company intends to begin investing in multiple systems dispersed throughout its North and South Carolina service territories that will be located on property owned by the Company or leased from its customers. These deployments will allow Duke Energy

and its customers to evaluate the costs and impacts of batteries deployed at a significant scale, explore the nature of new offerings desired by customers, and fill knowledge gaps. Among the DEC and DEP territories, as much as 75 MW of utility-owned and operated battery storage may be dispersed in the 2019-2021 time period. Additionally, HB 589 calls for an energy storage study to assess the economic potential for NC customers.

DEC considers wind a potential energy resource in the long term to support increased renewables portfolio diversity and long-term general compliance need. Therefore, DEC issued a RFP on August 15, 2017 for delivered energy, capacity, and associated RECs from wind projects ranging in size from 100 to 500 MW, and capable of delivering energy on or before December 31, 2022. To represent the RFP, a placeholder of 200 MW was added to the 2017 IRP base case starting in 2023.

Summary of Expected Renewable Resource Capacity Additions

The 2017 IRP incorporates the base case renewable capacity forecast below. This case includes renewable capacity required for compliance with NC REPS, non-compliance PURPA renewable purchases part of the “Transition” MW of HB 589, as well as the SC DER Program, Green Source Rider, and the additional three components of HB 589 (competitive procurement, renewable energy procurement for large customers, and community solar). The Company anticipates a diverse portfolio including solar, biomass, hydro, wind, and other resources. Actual results could vary substantially for the reasons discussed previously, as well as other potential changes to legislative requirements, tax policies, technology costs, and other market forces. The details of the forecasted capacity additions, including both nameplate and contribution to winter and summer peaks are summarized in Table 4-D below.

While solar does not normally reach its maximum output at the time of DEC’s expected peak load in the summer, solar’s contribution to summer peak load is large enough (46% of nameplate solar capacity) that it may push the time of summer peak from hour beginning 4:00 PM to 5:00 PM or later if solar penetration levels continue to increase. However, solar is unlikely to have a similar impact on the morning winter peak due to lower expected solar output in the morning hours (5% of nameplate solar capacity). Contribution to peak assumptions will continue to be evaluated in 2018, with specific attention given to different configurations of solar projects with fixed tilt or tracking

systems and different ILRs. Wind is assumed to contribute 13% of nameplate capacity to both the winter and summer peaks.

Table 4-D DEC Base Case Total Renewables

DEC Base Renewables - Compliance + Non-Compliance															
	MW Nameplate					MW Contribution to Summer Peak					MW Contribution to Winter Peak				
	Solar	Biomass/ Hydro	Wind	Total		Solar	Biomass/ Hydro	Wind	Total			Solar	Biomass/ Hydro	Wind	Total
2018	889	121	0	1010		409	121	0	530		2017/2018	34	121	0	155
2019	1214	116	0	1330		558	116	0	674		2018/2019	44	116	0	160
2020	1333	115	0	1448		613	115	0	728		2019/2020	61	115	0	176
2021	1711	115	0	1826		787	115	0	902		2020/2021	67	115	0	182
2022	2088	96	0	2184		960	96	0	1056		2021/2022	86	96	0	182
2023	2482	90	200	2572		1142	90	26	1232		2022/2023	104	90	26	194
2024	2890	88	200	2978		1329	88	26	1417		2023/2024	124	88	26	212
2025	2963	86	200	3049		1363	86	26	1449		2024/2025	144	86	26	230
2026	2949	77	200	3026		1356	77	26	1433		2025/2026	148	77	26	225
2027	2934	74	200	3008		1350	74	26	1424		2026/2027	147	74	26	221
2028	2919	76	200	2995		1343	76	26	1419		2027/2028	147	76	26	223
2029	2905	76	200	2981		1336	76	26	1412		2028/2029	146	76	26	222
2030	2890	73	200	2963		1329	73	26	1402		2029/2030	145	73	26	218
2031	2890	66	200	2956		1329	66	26	1395		2030/2031	145	66	26	211
2032	2890	60	200	2950		1329	60	26	1389		2031/2032	145	60	26	205

* Solar includes 0.5% per year degradation

While high and low solar penetration scenarios were not evaluated compared to the base case for the 2017 IRP, volumes can certainly vary greatly, especially for solar resources. Solar installations may fall short of the Base Case if the competitive procurement for universal solar facilities, renewable energy procurement for large customers, and/or the community solar programs of HB 589 don't materialize to their limits for some of the reasons mentioned earlier. On the upside, there is also the unknown of what occurs after HB 589 are not fully realized, which could occur for some of the reasons mentioned above. Similarly, solar installations could exceed base case projections as a result of further improvements in project economics or favorable policy developments. The current base case assumes no solar development beyond that required under HB 589, which may prove overly conservative.

c) Nuclear Assumptions

In its last filed IRP on September 1, 2016, DEC indicated it continued to have a long-term need for new nuclear generation. The Base Case scenario, which included a cost on carbon emissions, assumed new nuclear resources to meet load and minimum planning reserve margin with Lee Nuclear additions in 2026 and 2028 (2,234 MW).

On December 19, 2016, the Company received the Combined Construction and Operating License (COL) for the Lee Nuclear Project from the U.S. Nuclear Regulatory Commission. On August 25, 2017, DEC filed a request to cancel the Lee Nuclear Project as that project was originally envisioned and included in prior IRPs. That request is now pending before the North

Carolina Utilities Commission (NCUC) in Docket Nos. E-7, Sub 819 and E-7 Sub 1146. On August 25, 2017, DEC also filed notice of its cancellation request with the Public Service Commission of South Carolina (PSCSC) in Docket 2011-20-E. DEC's decision to cancel the project resulted from events that have occurred subsequent to receipt of the Lee Nuclear COL. These events include the AP-1000 technology owner, designer and engineer, Westinghouse, and its parent company, Toshiba Corporation, indicating that they intend to exit the nuclear construction business in the U.S., including the Lee Project; the subsequent bankruptcy of Westinghouse, and the substantial cost increases and schedule delays associated with the Vogtle and V.C. Summer new nuclear construction projects; the latter of which South Carolina Electric & Gas Company and project joint owner, Santee Cooper, recently canceled.

In addition to these developments, revised projections indicate that new nuclear baseload capacity is needed only under a carbon-constrained scenario with the assumption of no existing nuclear re-licensing. Even in that scenario, the added capacity would not be needed until much later in the 15-year planning horizon (2031, 2033) than projected in the 2016 IRP.

The Company views all of its existing nuclear fleet as excellent candidates for license extensions, however to date, no existing nuclear plant operating licenses have been extended from 60 years to 80 years in the United States. As such, there is uncertainty regarding license extension, and any costs associated with continuing to operate for an additional 20 years. Given the uncertainty of license extension, the IRP Base Case does not assume license extension at this time, but rather considers relicensing as a sensitivity to the Base Case. The Company is evaluating the feasibility of relicensing its existing nuclear resources. A discussion of the Company's activities is included below.

Subsequent License Renewal (SLR) for Nuclear Power Plants

License Renewal is governed by Title 10 of the Code of Federal Regulations (10 CFR) Part 54, *Requirements for Renewal of Operating Licenses for Nuclear Power Plants*. Additionally, the Nuclear Regulatory Commission (NRC) has issued regulatory guidance documents, specifically the *Generic Aging Lessons Learned (GALL) Report* (NUREG-1801) and NUREG-1800, *Standard Review Plan for Review of License Renewal Applications for Nuclear Power Plants* (SRP-LR) as a basis for determining the adequacy of Aging Management Programs (AMPs).

Currently the NRC has approved applications to extend licenses to 60 years for 87 nuclear units with applications for 5 nuclear units currently under review.

On August 29, 2014 the Nuclear Regulatory Commission issued a Staff Requirements Memorandum to provide the NRC staff with direction on SLR, i.e., extending nuclear power plant licenses to 80 years. Consistent with that direction, the NRC drafted guidance documents

specifically applicable to SLR applications. In December 2015, NUREG-2191 (Generic Aging Lessons Learned for Subsequent License Renewal (GALL-SLR) Report) and NUREG-2192 (Standard Review Plan for the Review of Subsequent License Renewal (SRP-SLR) Applications for Nuclear Power Plants) were issued for public comment. Following an extensive comment process involving Duke Energy, the nuclear industry, and other stakeholders, the NRC published the final NUREGs in the Federal Register on July 14, 2017, thereby establishing formal regulatory guidance for SLR.

Dominion Energy announced on November 6, 2015 that it would pursue SLR for its Surry plant as a Lead Plant and submitted a letter of intent to the NRC. Exelon Corporation made a similar announcement for its Peach Bottom plant on June 7, 2016. Currently, Exelon is planning to submit the Peach Bottom SLR Application in mid-2018 while Dominion is targeting early- 2019 for Surry. On May 17, 2017 a third utility notified the NRC of its intent to submit an SLR application by the end of 2017. The letter providing the notification was submitted requesting withholding information from public disclosure and as a result the name of the utility and licensee(s) is not publicly available.

Duke Energy is considering Oconee Nuclear Station (ONS) for submission of its first SLR application to extend the licenses to 80 years. The remaining nuclear sites will follow where the cost/benefit balance proves acceptable.

An Advance Funding was approved on May 12, 2016 for the development portion of the ONS SLR project. These funds are being used to further develop and refine the Project Plan including scope, schedule, cost, risk, and other project elements. At this time, a final decision to extend the ONS or any other Duke Energy nuclear power plants' operating licenses to 80 years has not been made.

d) Combined Heat and Power

Combined Heat and Power (CHP) systems, also known as cogeneration, generate electricity and useful thermal energy in a single, integrated system. CHP is not a new technology, but an approach to applying existing technologies. Heat that is normally wasted in conventional power generation is

recovered as useful energy, which avoids the losses that would otherwise be incurred from separate generation of heat and power. CHP incorporating a gas-fired combustion turbine (CT) and heat recovery steam generator (HRSG) is more efficient than the conventional method of producing power and usable heat separately with a CT/generator and a stand-alone steam boiler.

Duke Energy is exploring and working with potential customers with good base thermal loads on a regulated Combined Heat and Power offer. The CHP asset is included as part of Duke Energy's IRP as a placeholder for future projects as described below. The steam sales are credited back to the revenue requirement of the projects to reduce the total cost of this resource. Along with the potential to be a cost-competitive generation resource, CHP can result in CO₂ emission reductions, and is a potential economic development opportunity for the state.

DEC has signed agreements and obtained regulatory approval for a 15 MW CHP at Clemson University, which is expected to be in service by 2020. Filing for a Certificate of Public Convenience and Necessity (CPCN) for a 21 MW CHP at Duke University has been delayed pending the resolution of issues raised by the University. Discussions with other potential steam hosts are currently underway.

Projections for CHP have been included in the following quantities in this IRP:

2020: 43 MW (winter) / 40 MW (summer)
2022: 43 MW (winter) / 40 MW (summer)

As CHP development continues, future IRPs will incorporate additional CHP, as appropriate. Additional technologies evaluated as part of this IRP are discussed in Chapter 6.

e) **Resource Adequacy**

Background

Resource adequacy refers to the ability of the electric system to supply the aggregate electrical demand and energy requirements of the end-use customers at all times, taking into account scheduled and reasonably expected unscheduled outages of system elements. Utilities require a margin of reserve generating capacity in order to provide reliable service. Periodic scheduled outages are required to perform maintenance, inspect generating plant equipment, and to refuel nuclear plants. Unanticipated mechanical failures may occur at any given time, and may require shutdown of equipment to repair failed components. Adequate reserve capacity must be available to accommodate these unplanned outages and to compensate for higher than projected peak demand

due to forecast uncertainty and weather extremes. The Company utilizes a reserve margin target in its IRP process to ensure resource adequacy. Reserve margin is defined as total resources minus peak demand, divided by peak demand. The reserve margin target is established based on probabilistic assessments as described below.

2016 Resource Adequacy Study

The Company retained Astrapé Consulting in 2016 to conduct an updated resource adequacy study.⁴ The updated study was warranted due to two primary factors. First, the extreme weather experienced in the service territory in recent winter periods was so impactful to the system that additional review with the inclusion of recent years' weather history was warranted. Second, the system has added, and projects to add, a large amount of solar resources that provide meaningful capacity benefits in the summer but very little capacity benefits in the winter. Solar resources contribute approximately 45% (DEC 46%, DEP 44%) of nameplate capacity at the time of the expected summer peak demand which typically occurs during afternoon hours. However, solar resources only contribute about 5% of nameplate capacity at the time of expected winter peak demand which typically occurs during early morning hours. As discussed in the Renewables section of this document, there is a potential to add significantly to the solar resources already incorporated on the system.

Methodology

The 2016 resource adequacy study incorporated the uncertainty of weather, economic load growth, unit availability, and the availability of transmission and generation capacity for emergency assistance. Astrapé analyzed the optimal planning reserve margin based on providing an acceptable level of physical reliability and minimizing economic costs to customers. The most common physical reliability metric used in the industry is to target a system reserve margin that satisfies the one day in 10 years Loss of Load Expectation (LOLE) standard. This standard is interpreted as one firm load shed event every 10 years due to a shortage of generating capacity. From an economic perspective, as planning reserve margin increases, the total cost of reserves increases while the costs related to reliability events decline. Similarly, as planning reserve margin decreases, the cost of reserves decreases while the costs related to reliability events increase, including the costs to customers for loss of power. Thus, there is an economic optimum point where the cost of additional reserves plus the cost of reliability events to customers is minimized.

⁴ Astrapé Consulting is an energy consulting firm with expertise in resource adequacy and integrated resource planning.

Winter Capacity Planning

In the past, loss of load risk was typically concentrated during the summer months and a summer reserve margin target provided adequate reserves in the summer and winter. However, the

incorporation of recent winter load data and the significant amount of solar penetration in the updated study, shows that the majority of loss of load risk is now heavily concentrated during the winter period. Since solar capacity contribution to peak is much greater in the summer compared to the winter, maintaining a summer reserve margin target would result in declining winter reserve margins over time due to the impact on summer versus winter reserves as solar capacity increases.

Thus, use of a summer reserve margin target will no longer ensure that adequate reserve levels are maintained in the winter, and winter load and resources now drive the timing need for new capacity additions. As a result, a winter planning reserve margin target is now needed to ensure that adequate resources are available throughout the year to meet customer demand.

It is noted that the primary driver for the shift to winter capacity planning is the high penetration of solar resources and the associated impact on summer versus winter reserves. Winter load volatility impacts LOLE and puts upward pressure on the reserve margin target; however, winter load volatility or the seasonality of summer versus winter peaks is not the driver for the shift to winter capacity planning.

Results

Based on results of the 2016 resource adequacy assessment, the Company has adopted a 17% minimum winter reserve margin target for scheduling new resource additions. The Company will continue to monitor its generation portfolio and other planning assumptions that can impact resource adequacy and initiate new studies as appropriate.

Adequacy of Projected Reserves

DEC's resource plan reflects winter reserve margins ranging from approximately 17% to 22%. Reserves projected in DEC's IRP meet the minimum planning reserve margin target and thus satisfy the one day in 10 years LOLE criterion. Projected reserve margins often exceed the minimum 17% winter target by 3% or more in years immediately following new resource additions. For example, reserves exceed the 17% minimum target by 3% or more during 2017/2018 through 2019/2020 as a result of the addition of the Lee combined cycle unit in the Fall of 2017 combined with a reduction in the wholesale load forecast beginning 2019. Reserves also

exceed the minimum 17% target by 3% or more as a result of resource additions in 2024/2025, 2028/2029 and 2031/2032.

The IRP provides general guidance in the type and timing of resource additions. As previously noted, projected reserve margins will often be somewhat higher than the minimum target in years

immediately following new generation additions since capacity is generally added in large blocks to take advantage of economies of scale. Large resource additions are deemed economic only if they have a lower Present Value Revenue Requirement (PVR) over the life of the asset as compared to smaller resources that better fit the short-term reserve margin need. Reserves projected in the Company's IRP are appropriate for providing an economic and reliable power supply.

NCUC 2016 IRP Order (Docket No. E-100, Sub 147)

The NCUC's June 27, 2017 Order Accepting Integrated Resource Plans and Accepting REPS Compliance Plans in Docket No. E-100, Sub 147 (2016 IRP Order) concluded that the reserve margins included in the DEC and DEP IRPs are reasonable for planning purposes. However, the Commission also noted the following:

"Based on the foregoing, the comments of the parties, and the entire record in this proceeding, the Commission concludes that the reserve margins included in the utilities' IRPs are reasonable at this time for planning purposes. However, the Commission finds the analyses by the Public Staff and SACE's report by Mr. Wilson to be helpful regarding the question of whether DEC and DEP should move to a 17% winter reserve margin target. The Commission concludes that this move is not supported by the evidence in this proceeding. **Nevertheless, the concerns outlined by the Public Staff, as well those discussed in Mr. Wilson's report, should be acknowledged by DEC and DEP and fully addressed in their 2017 IRP updates.**" (NCUC 2016 IRP Order, page 21)

"The analyses regarding reserve margin targets is extremely technical and complicated, made even more so by the advent of winter peaking on DEP and DEC's systems. The Commission relies heavily on the Public Staff's review and analysis to make its decisions on this subject. Therefore, the Commission determines that DEC and DEP should work with the Public Staff to address the Public Staff's and Mr. Wilson's reserve margin concerns and to implement changes as necessary to help ensure that the reserve margin target(s) are fully supported in future IRPs. **Further, the Commission requests that Duke and the Public Staff file a joint report**

summarizing their review and conclusions within 150 days of the filing of Duke’s 2017 IRP updates. In addition to addressing the reserve margin concerns identified by the Public Staff and Mr. Wilson, the report should clearly define the support and basis for the targeted reserve margins incorporated into the IRPs. If the parties cannot reach consensus, then the report should outline their differences and recommend a procedure for the Commission to pursue in reaching a conclusion about the reserve margins recommended by DEC and DEP in their IRPs.

In addition, the Commission concurs with the Public Staff’s recommendation that in future IRPs the IOUs should evaluate the feasibility and benefits of advanced analytic techniques that incorporate sub-hourly modeling and more granular system performance data. Further, to the extent that these advanced analytics are available at reasonable cost, the IOUs should utilize these resources to provide better information and understanding on optimizing reserve margin needs, as well as overall system operations.” (NCUC 2016 IRP Order, pages 22-23)

As ordered by the NCUC in its 2016 IRP Order, DEC and DEP acknowledge the concerns outlined by the Public Staff and Mr. Wilson’s report and responded to these concerns in the Companies’ detailed 2016 IRP Reply Comments regarding reserve margins and winter capacity planning.⁵ In

addition, since the issuance of the 2016 IRP Order, the Companies have met with and initiated further discussions with the Public Staff to identify and address any remaining issues. The Companies and the Public Staff plan to file a joint report summarizing the on-going review and conclusions within 150 days of the filing of the Companies’ 2017 IRP updates as directed by the NCUC.

f) Fuel Costs

Similar to the 2015 IRP Update Report and the 2016 Biennial IRP Report, the first 10 years of natural gas prices are based on market data and the remaining years are based off of fundamental pricing. Specifically, DEC and DEP are using market based prices for the first 10 years of the planning period (2018 – 2027). Following the 10 years of market prices, the Companies transition to fundamental pricing over a 5 year period with 100% fundamental pricing in 2033 and beyond.

Market prices represent liquid, tradable gas prices offered at the present time, also called “future or forward prices.” These prices represent an actual contractually agreed upon price that willing buyers

⁵ See DEC and DEP 2016 IRP Reply Comments, pages 10-24 and 48-53, filed May 10, 2017 in Docket No. E-100, Sub 147.

and sellers agree to transact upon at a specified future date. As such, assuming market liquidity, they represent the market's view of prices for a given point in the future. Fundamental prices developed through external econometric modeling, on the other hand, represent a projection of fuel prices into the future taking into account changing supply and demand assumptions in the context of the changing dynamics of the external marketplace. The natural gas market is a liquid market with multiple buyers and sellers of natural gas that are willing to transact at longer transaction terms.

To provide price discovery and demonstrate continued market liquidity, the Company has purchased a fixed price natural gas forward swap for 2,500 MMBtu/day extending nearly ten years forward. It is worth noting that this purchase shows a continued decline in natural gas prices. The 10-year average price for the most recent purchase, executed on August 17, 2017, was lower than a similar purchase made in April of 2017 and lower than the prices used in the development of the 2016 IRP.

As in the 2016 Biennial IRP Report, coal prices continue to be based on 5 years of market data in the 2017 IRP. Following the 5 years of market prices, the Companies transition to fundamental pricing over a 5-year period with 100% fundamental pricing in 2028.

g) Carbon Assumptions

On August 3, 2015, the Environmental Protection Agency (EPA) finalized a rule establishing CO₂ new source performance standards for pulverized coal (PC) and natural gas combined cycle (NGCC or CC) electric generating units (EGUs) that initiate construction after January 8, 2014. The EPA finalized emission standards of 1,400 lb CO₂ per gross MWh of electricity generation for PC units and 1,000 lb CO₂ per gross MWh for NGCC units. The standard for PC units can only be achieved with carbon capture and sequestration technology. Numerous parties filed petitions with the U.S. Court of Appeals for the District of Columbia (D.C. Circuit) challenging the EPA's final emission standard for new PC units. Briefing in the case is complete, but oral argument is not currently scheduled. On April 28, 2017, the D.C. Circuit ordered that the litigation be suspended while it considers a motion from EPA to hold the case in abeyance. The court has not ruled on EPA's motion.

In response to a March 28, 2017 Executive Order, the EPA has undertaken a review of the rule to determine whether it should be suspended, revised, or rescinded. The rule remains in effect pending the outcome of litigation and EPA's review of the rule. The EPA has not announced a schedule for completing its review.

On August 3, 2015, the EPA finalized the Clean Power Plan (CPP), a rule to limit CO₂ emissions from existing fossil fuel-fired EGUs (existing EGUs are units that commenced construction prior to January 8, 2014). The CPP required states to develop and submit to EPA for approval implementation plans designed to achieve the required CO₂ emission limitations. The CPP required states to submit initial plans by September 6, 2016, and final plans by September 6, 2018. The CPP established two rate-based compliance pathways and two mass-based compliance pathways for

states to choose from when developing their state implementation plans. The CPP required emission limitations to take effect beginning in 2022 and get gradually more stringent through 2030.

Numerous legal challenges to the CPP were filed with the DC Circuit. On February 9, 2016 the Supreme Court issued a stay in the case, halting implementation of the CPP through any final decision in the case by the Supreme Court. This means the CPP has no legal effect, and EPA cannot enforce any of the deadlines or rule requirements while the stay is in place.

Briefing of the case before the D.C. Circuit was completed in April, 2016. Oral argument before the full D.C. Circuit occurred on September 27, 2016. The D.C. Circuit has not issued a decision in the case. On April 28, 2017, the D.C. Circuit ordered that the litigation be suspended while it considers a motion from EPA to hold the case in abeyance. The court has not ruled on EPA's motion.

In response to the March 28, 2017 Executive Order, EPA initiated a review of the CPP to determine whether it should be suspended, revised, or rescinded. On June 8, 2017, the EPA sent a proposed rule to the Office of Management and Budget to repeal the CPP. Once interagency review is complete, EPA will issue the proposal for public comment. EPA has yet to announce what it will do regarding the possible replacement of the CPP with another rule. There is no schedule for EPA to issue the proposal or to determine what it will do regarding replacement of the CPP.

In light of the uncertainty of future carbon legislation, the Base Case assumes a carbon cost beginning in 2026.

h) Transmission Planned or Under Construction

This section contains the planned transmission line additions since the 2016 IRP. Only those projects added since the 2016 IRP are included. Additionally, a discussion of the system adequacy of DEC's transmission system is included. Table 4-E lists the line projects that are planned to meet reliability needs. This section also provides information pursuant to the North Carolina Utilities Commission Rule R8-62.

Table 4-E: DEC Transmission Line Additions

<u>Year</u>	<u>Location</u>		<u>Capacity</u>	<u>Voltage</u>	<u>Comments</u>
	<u>From</u>	<u>To</u>	<u>MVA</u>	<u>KV</u>	
2020	Lincoln CTs	Longview Tie	N/A	230	Install new 230/100 kV tie station in existing double circuit line near Maiden, NC

Rule R8-62: Certificates of environmental compatibility and public convenience and necessity for the construction of electric transmission lines in North Carolina.

- (p) Plans for the construction of transmission lines in North Carolina (161 kV and above) shall be incorporated in filings made pursuant to Commission Rule R8-60. In addition, each public utility or person covered by this rule shall provide the following information on an annual basis no later than September 1:

(1) For existing lines, the information required on FERC Form 1, pages 422, 423, 424, and 425, except that the information reported on pages 422 and 423 may be reported every five years.

Please refer to the Company's Federal Energy Regulatory Commission (FERC) Form No. 1 filed with NCUC in April 2017.

- (p) Plans for the construction of transmission lines in North Carolina (161 kV and above) shall be incorporated in filings made pursuant to Commission Rule R8-60. In addition, each public utility or person covered by this rule shall provide the following information on an annual basis no later than September 1:

(2) For lines under construction, the following:

- Commission docket number;*
- Location of end point(s);*
- Length;*
- Range of right-of-way width;*
- Range of tower heights;*

- f. Number of circuits;*
- g. Operating voltage;*
- h. Design capacity;*
- i. Date construction started;*
- j. Projected in-service date;*

There are presently no new lines 161 kV and above under construction in DEC's service area. There is one 230 kV line presently being upgraded:

DEC Transmission System Adequacy

Duke Energy Carolinas monitors the adequacy and reliability of its transmission system and interconnections through internal analysis and participation in regional reliability groups. Internal transmission planning looks 10 years ahead at available generating resources and projected load to identify transmission system upgrade and expansion requirements. Corrective actions are planned and implemented in advance to ensure continued cost-effective and high-quality service. The DEC transmission model is incorporated into models used by regional reliability groups in developing plans to maintain interconnected transmission system reliability. DEC works with DEP, North Carolina Electric Membership Corporation (NCEMC) and ElectriCities to develop an annual NC Transmission Planning Collaborative (NCTPC) plan for the DEC and DEP systems in both North and South Carolina. In addition, transmission planning is coordinating with neighboring systems including South Carolina Electric & Gas (SCE&G) and Santee Cooper under a number of mechanisms including legacy interchange agreements between SCE&G, Santee Cooper, DEP, and DEC.

The Company monitors transmission system reliability by evaluating changes in load, generating capacity, transactions and topography. A detailed annual screening ensures compliance with DEC's Transmission Planning Guidelines for voltage and thermal loading. The annual screening uses methods that comply with SERC Reliability Corporation (SERC) policy and North American Electric Reliability Corporation (NERC) Reliability Standards and the screening results identify the need for future transmission system expansion and upgrades.

Transmission planning and requests for transmission service and generator interconnection are interrelated to the resource planning process. DEC currently evaluates all transmission reservation requests for impact on transfer capability, as well as compliance with the Company's Transmission Planning Guidelines and the FERC Open Access Transmission Tariff (OATT). The Company performs studies to ensure transfer capability is acceptable to meet reliability needs and customers'

expected use of the transmission system. Generator interconnection requests are studied in accordance with the Large and Small Generator Interconnection Procedures in the OATT.

SERC audits DEC every three years for compliance with NERC Reliability Standards. Specifically, the audit requires DEC to demonstrate that its transmission planning practices meet NERC standards and to provide data supporting the Company's annual compliance filing certifications. SERC conducted a NERC Reliability Standards compliance audit of DEC in December 2016. The scope of this audit included standards impacting the Transmission Planning area. DEC received "No Findings" from the audit team in the Transmission Planning area.

DEC participates in a number of regional reliability groups to coordinate analysis of regional, sub-regional and inter-balancing authority area transfer capability and interconnection reliability. The reliability groups' purpose is to:

- Assess the interconnected system's capability to handle large firm and non-firm transactions for purposes of economic access to resources and system reliability;
- Ensure that planned future transmission system improvements do not adversely affect neighboring systems; and
- Ensure interconnected system compliance with NERC Reliability Standards.

Regional reliability groups evaluate transfer capability and compliance with NERC Reliability Standards for the upcoming peak season and five- and ten-year periods. The groups also perform computer simulation tests for high transfer levels to verify satisfactory transfer capability.

Application of the practices and procedures described above ensures that DEC's transmission system continues to provide reliable service to its native load and firm transmission customers.

5. LOAD FORECAST

Methodology

The Duke Energy Carolinas Spring 2017 Forecast provides projections of the energy and peak demand needs for its service area. The forecast covers the time period of 2018 – 2032 and represent the needs of the following customer classes:

- Residential
- Commercial
- Industrial
- Other Retail
- Wholesale

Energy projections are developed with econometric models using key economic factors such as income, electricity prices, and industrial production indices, along with weather and appliance efficiency trends. Population projections are used in the Residential customer model.

The economic projections used in the Spring 2017 Forecast are obtained from Moody's Analytics, a nationally recognized economic forecasting firm, and include economic forecasts for the Carolinas.

The Retail forecast consists of the three major classes: Residential, Commercial, and Industrial.

The Residential class sales forecast is comprised of two projections. The first is the number of residential customers, which is driven by population. The second is energy usage per customer, which is driven by variables such as weather, regional economic and demographic trends, electric prices, and efficiency trends.

The usage per customer forecast was derived using a Statistical Adjusted End-Use Model (SAE). This is a regression based framework that uses projected appliance saturation and efficiency trends developed by ITRON using Energy Information Agency (EIA) data. It incorporates naturally occurring efficiency trends and government mandates more explicitly than other models. The outlook for usage per customer is slightly negative through much of the forecast horizon, so most of the growth in sales is related to customer increases. The projected growth rate of the Residential class after considering all impacts (i.e., customer growth, energy efficiency, behind-the-meter solar, etc.) is 0.9% for the period 2018-2032.

The Commercial forecast also uses a SAE model in an effort to reflect naturally occurring as well as government mandated efficiency changes. The three largest sectors in the Commercial class are Offices, Education and Retail. The projected growth rate of commercial in the Spring 2017 Forecast after considering all impacts, is 0.2% for the period 2018 to 2032.

The Industrial class is forecasted using a standard econometric model, with drivers such as industrial production and the price of electricity. Overall, Industrial sales are expected to grow 0.5% over the forecast horizon, after all impacts.

System peak demands were projected using the SAE approach in the Spring 2017 Forecast. The peak forecast was developed using a monthly SAE model, similar to the sales SAE models, which includes monthly appliance saturations and efficiencies, interacted with weather and the fraction of each appliance type that is in use at the time of the monthly peak. Over the forecast period, the summer peak demand is expected to grow 0.4% (after all impacts), while the winter peak demand is growing 0.9% (after all impacts).

Weather impacts are incorporated into the models by using Heating Degree Days with a base temperature of 59 and Cooling Degree Days with a base temperature of 65. The forecast of degree days is based on a 30-year average, which is updated every year.

Forecast Enhancements

In 2013, The Company began using the statistically adjusted end use models (SAE) provided by ITRON to forecast sales and peaks. The end use models provide a better platform to recognize trends in equipment /appliance saturation and changes to efficiencies, and how those trends interact with heating, cooling, and “other” or non-weather related sales. The appliance saturation and efficiency trends are developed by ITRON using data from the EIA. ITRON is a recognized firm providing forecasting services to the electric utility industry. These appliance trends are used in the residential and commercial sales models. In conjunction with peer utilities and ITRON, the company continually looks for refinements to its modeling procedures to make better use of the forecasting tools, and develop more reliable forecasts.

Each time the forecast is updated, the most currently available historical and projected data is used. The Spring 2017 forecast utilizes:

- Moody’s Analytics January 2017 base economic projections.

- End use equipment and appliance indexes reflect the 2016 update of ITRON's end-use data, which is consistent with the Energy Information Administration's 2016 Annual Energy Outlook.
- A calculation of normal weather using the period 1987-2016.

Additional focus is being placed on the hourly shaping of sales, which plays a critical role in forecasting summer and winter peaks. While much of this work is ongoing and will be incorporated in the 2018 IRP's we continue to review the weather sensitivity of winter and summer peaks, as well as the hourly shaping of behind-the-meter solar, utility sponsored energy efficiency programs (UEE), electric vehicles, and other variables.

Additional focus is also being placed on Duke's load research sample data, to gain a better understanding of historical hourly demand trends, winter and summer peaking characteristics by customer class, and minimums by customer class, in our continuous effort to improve forecast accuracy.

Assumptions

Below are the projected average annual growth rates of several key drivers from DEC's Spring 2017 Forecast.

	2018-2032
Real Income	2.7%
Manufacturing Industrial Production Index (IPI)	1.3%
Population	1.6%

In addition to economic, demographic, and efficiency trends, the forecast also incorporates the expected impacts of utility sponsored energy efficiency programs, as well as projected effects of electric vehicles and behind-the-meter solar technology.

Wholesale

The wholesale contracts are included in the forecasted sales and peaks in the following tables. Please note that Duke is expected to lose a portion of wholesale load in support of NTE Energy (Kings Mountain combined cycle) resource. For a complete description of the Wholesale forecast, please see Chapter 10.

DEC also has a Backstand Agreement with NCEMC. This is a contractual commitment with NCEMC where, in the event that NCEMC's ownership share of Catawba Nuclear Station is unavailable, Duke has the commitment to "Backstand", or to fulfill their ownership requirement. Historically, this commitment has rarely been called upon, and therefore historical peaks will not include this commitment. For forecasting purposes, this requirement is recognized and included in the peak requirements.

Historical Values

It should be noted that long-term decline of the Textile industry and the recession of 2008-2009 have had an adverse impact on DEC sales. The worst of the Textile decline appears to be over, and Moody's Analytics expects the Carolina's economy to show solid growth going forward.

Tables 5-A & 5-B below the present history of DEC customers and actual sales are given.

Table 5-A Retail Customers (Thousands, Annual Average)

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Avg Annual Growth Rate
Residential	1,916	2,012	2,024	2,034	2,041	2,053	2,068	2,089	2,117	2,148	1.3%
Commercial	322	334	331	333	335	337	339	342	345	349	0.9%
Industrial	7	7	7	7	7	7	7	7	6	6	-1.0%
Other	13	14	14	14	14	14	14	15	15	15	1.8%
Total	2,258	2,367	2,376	2,388	2,397	2,411	2,428	2,453	2,483	2,519	1.2%

Table 5-B Electricity Sales (GWh Sold - Years Ended December 31)

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Avg Annual Growth Rate
Residential	27,459	27,335	27,273	30,049	28,323	26,279	26,895	27,976	27,916	27,939	0.3%
Commercial	27,433	27,288	26,977	27,968	27,593	27,476	27,765	28,421	28,700	28,906	0.6%
Industrial	23,948	22,634	19,204	20,618	20,783	20,978	21,070	21,577	22,136	21,942	-0.8%
Other	278	284	287	287	287	290	293	303	305	304	1.0%
Total Retail	79,118	77,541	73,741	78,922	76,986	75,023	76,023	78,277	79,057	79,091	0.1%
Wholesale	2,454	3,525	3,788	5,166	4,866	5,176	5,824	6,559	6,916	7,614	14.3%
Total System	81,572	81,066	77,529	84,088	81,852	80,199	81,847	84,836	85,973	86,705	0.7%

Note the values in Table 5-B are not weather adjusted.

Utility Energy Efficiency

Utility Energy Efficiency Programs (UEE) continue to have a large impact in the acceleration of the adoption of energy efficiency. When including the energy and peak impacts of UEE, careful attention must be paid to avoid the double counting of UEE efficiencies with the naturally occurring efficiencies included in the SAE modeling approach. To ensure there is not a double counting of these efficiencies, the forecast “rolls off” the UEE savings at the conclusion of its measure life. For example, if the accelerated benefit of a residential UEE program is expected to have occurred 7 years before the energy reduction program would have been otherwise adopted, then the UEE effects after year 7 are subtracted (“rolled off”) from the total cumulative UEE. With the SAE model’s framework, the naturally occurring appliance efficiency trends replace the rolled off UEE benefits serving to continue to reduce the forecasted load resulting from energy efficiency adoption.

Table 5-C below illustrates this process:

- Column A: Total energy before reduction of future UEE
- Column B: Historical UEE Roll-Off
- Column C: Forecasted UEE Incremental Roll-On
- Column D: Forecasted UEE Incremental Roll-Off
- Column E: UEE amount to subtract from Column A
- Column F: Total energy after incorporating UEE (column A less column E)

Table 5-C UEE Program Life Process (GWh)

	Forecast Before UEE	Historical UEE Roll-Off	Forecasted UEE Incremental Roll-On	Forecasted UEE Incremental Roll-Off	UEE to Subtract From Forecast	Forecast After UEE
2017	95,326	2,804	422	0	422	94,903
2018	96,515	3,350	777	0	777	95,739
2019	96,306	3,880	1,134	0	1,134	95,172
2020	97,346	4,377	1,482	0	1,482	95,864
2021	98,314	4,816	1,820	0	1,820	96,495
2022	98,917	5,139	2,157	0	2,157	96,761
2023	99,954	5,559	2,494	2	2,492	97,461
2024	101,041	5,908	2,811	5	2,807	98,234
2025	101,959	5,920	3,116	14	3,103	98,856
2026	102,907	5,953	3,432	37	3,394	99,513
2027	103,795	6,033	3,863	70	3,794	100,001
2028	104,643	6,172	4,437	199	4,238	100,405
2029	105,268	6,361	5,078	526	4,552	100,716
2030	105,799	6,545	5,710	942	4,768	101,032
2031	106,357	6,716	6,298	1,348	4,950	101,407
2032	106,941	6,846	6,855	1,754	5,101	101,840

Results

A tabulation of the utility's forecasts for 2018-2032, including peak loads for summer and winter seasons of each year and annual energy forecasts, both with and without the impact of UEE programs, are shown below in Tables 5-F and 5-G.

Load duration curves, with and without UEE programs, follow Tables 5-F and 5-G, and are shown as Charts 5-A and 5-B.

The tables below show the results of the forecast:

- Table 5-D: Total retail customers by class
- Table 5-E: Retail sales (at the meter) after the impacts of energy efficiency
- Table 5-F: Forecasted system summer peak, winter peak, and sales – *before* including the impact of utility sponsored energy efficiency programs (at generation)
- Chart 5-A: Load duration curve – *before* including the impact of utility sponsored energy efficiency programs
- Table 5-G: Forecasted system summer peak, winter peak, and sales – *after* including the impact of utility sponsored energy efficiency programs (at generation)

- Chart 5-B: Load duration curve – *after* including the impact of utility sponsored energy efficiency programs

Table 5-D Retail Customers (Thousands, Annual Average)

	Residential	Commercial	Industrial	Other	Retail
	Customers	Customers	Customers	Customers	Customers
2018	2,198	356	6	15	2,576
2019	2,220	359	6	16	2,601
2020	2,243	362	6	16	2,627
2021	2,266	365	6	16	2,652
2022	2,289	367	6	16	2,678
2023	2,312	370	6	16	2,704
2024	2,335	374	6	16	2,731
2025	2,359	376	6	17	2,758
2026	2,383	379	6	17	2,785
2027	2,407	382	6	17	2,812
2028	2,432	385	6	17	2,839
2029	2,457	388	6	17	2,867
2030	2,481	391	5	17	2,895
2031	2,507	394	5	18	2,924
2032	2,532	397	5	18	2,953
Avg. Annual Growth Rate	1.0%	0.8%	-0.8%	1.0%	1.0%

Table 5-E Retail Sales (GWh Sold - Years Ended December 31)

	Residential	Commercial	Industrial	Other	Retail
	Gwh	Gwh	Gwh	Gwh	Gwh
2018	27,702	28,564	22,368	299	78,933
2019	27,773	28,631	22,608	297	79,310
2020	27,945	28,717	22,927	294	79,884
2021	28,138	28,747	23,253	291	80,429
2022	28,372	28,805	23,425	288	80,891
2023	28,650	28,904	23,646	286	81,486
2024	28,950	29,053	23,847	285	82,135
2025	29,240	29,139	24,009	283	82,671
2026	29,540	29,267	24,135	280	83,222
2027	29,823	29,347	24,157	278	83,605
2028	30,103	29,422	24,092	277	83,895
2029	30,367	29,435	24,035	276	84,113
2030	30,649	29,403	24,004	274	84,331
2031	30,946	29,390	23,993	273	84,602
2032	31,255	29,421	23,964	272	84,912
Avg. Annual Growth Rate	0.9%	0.2%	0.5%	-0.7%	0.5%

Table 5-F Load Forecast without Energy Efficiency Programs (at Generation)

YEAR	SUMMER	WINTER	ENERGY
	(MW)	(MW)	(GWH)
2018	18,953	18,770	96,515
2019	18,908	18,818	96,306
2020	19,109	19,033	97,346
2021	19,267	19,230	98,314
2022	19,368	19,409	98,917
2023	19,531	19,639	99,954
2024	19,690	19,908	101,041
2025	19,860	20,088	101,959
2026	20,060	20,324	102,907
2027	20,250	20,548	103,795
2028	20,416	20,800	104,643
2029	20,561	21,006	105,268
2030	20,685	21,199	105,799
2031	20,834	21,388	106,357
2032	20,970	21,616	106,941
Avg. Annual Growth Rate	0.7%	1.0%	0.7%

Note: Tables 6-A and 6-B differ from these values due to a 47 MW PMPA backstand contract through 2020.

Chart 5-A Load Duration Curve without Energy Efficiency Programs (at Generation)

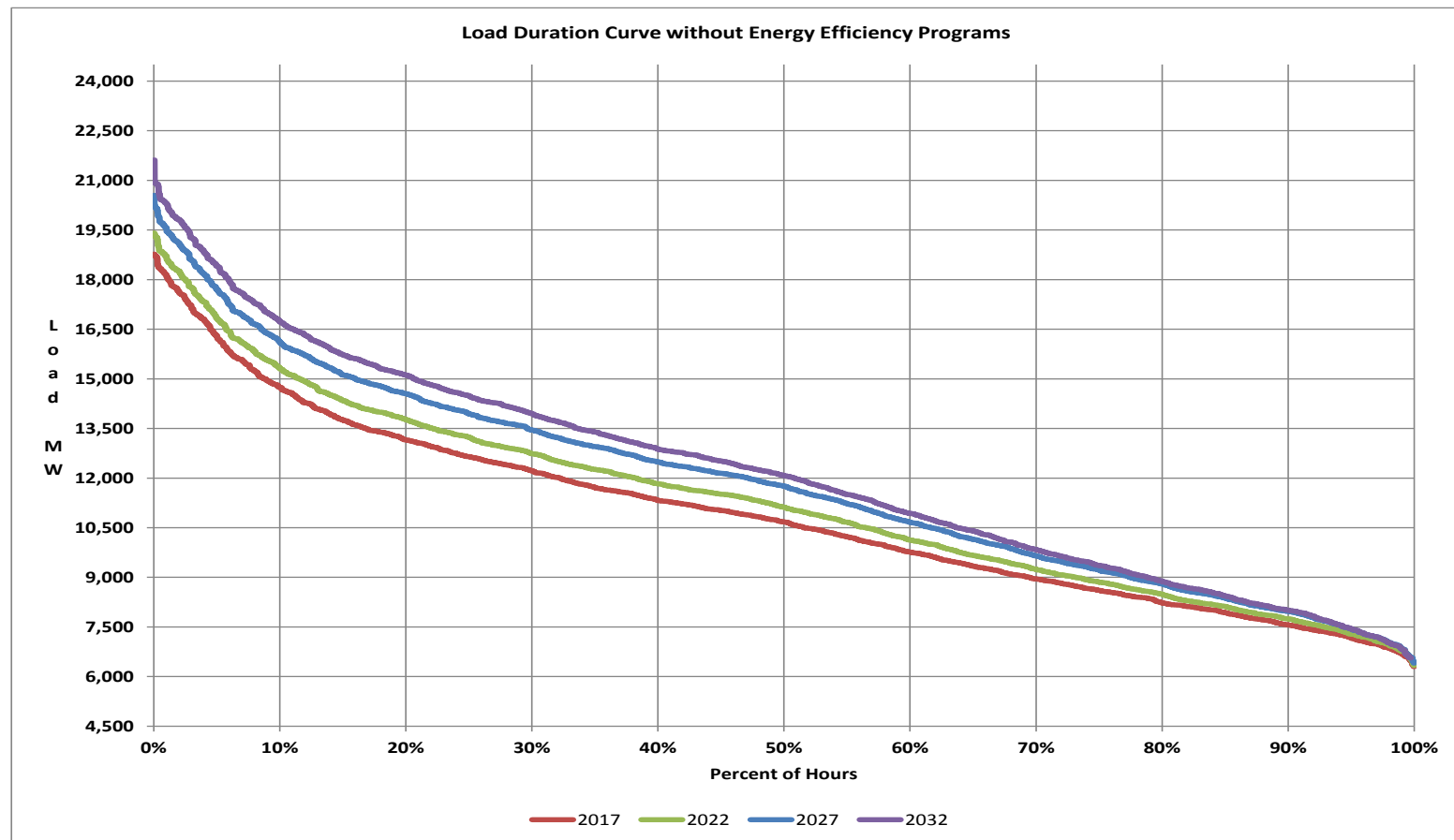
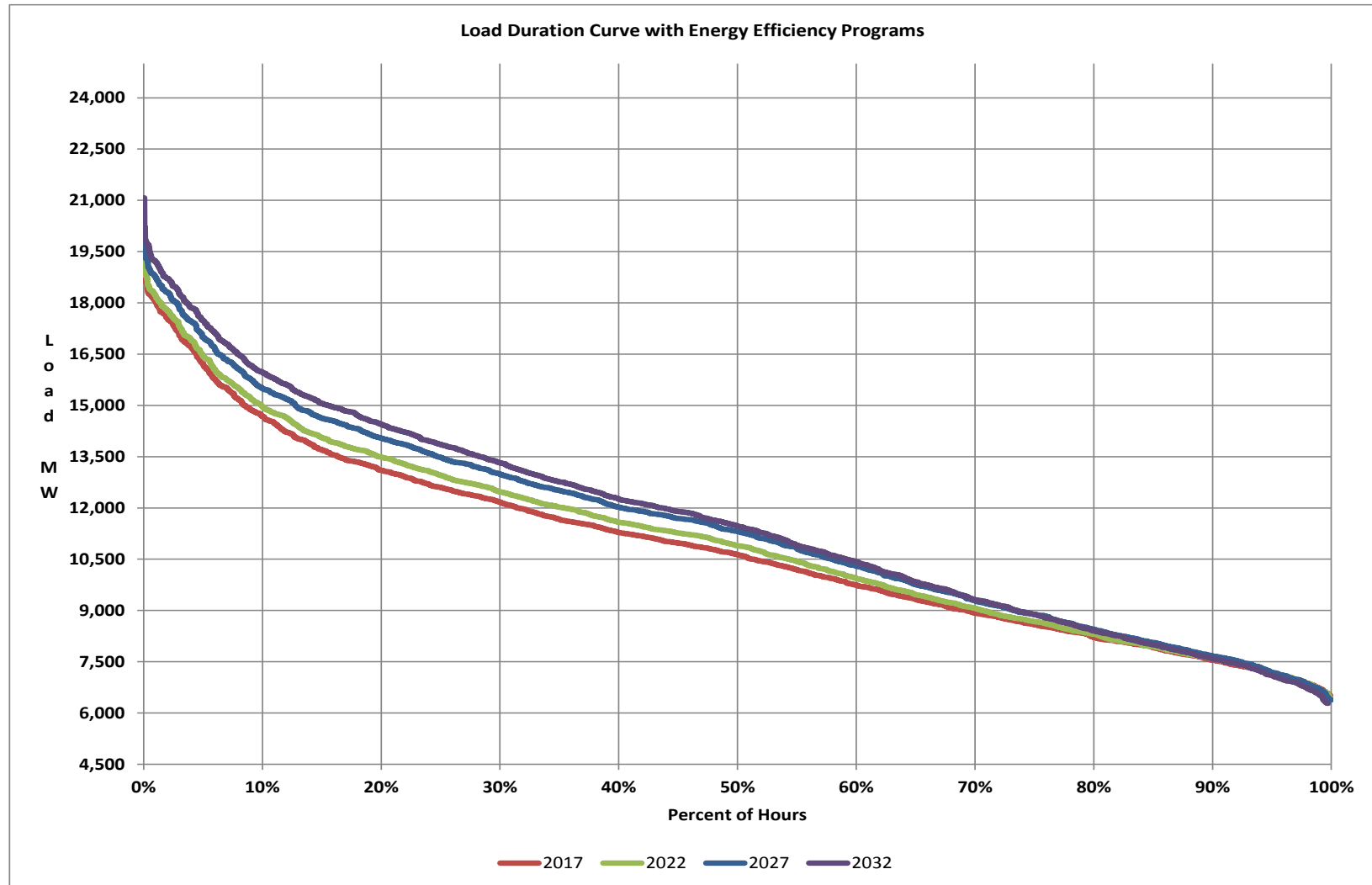


Table 5-G Load Forecast with Energy Efficiency Programs (at Generation)

YEAR	SUMMER	WINTER	ENERGY
	(MW)	(MW)	(GWH)
2018	18,786	18,687	95,739
2019	18,655	18,714	95,172
2020	18,776	18,892	95,864
2021	18,854	19,055	96,495
2022	18,877	19,182	96,761
2023	18,961	19,376	97,461
2024	19,047	19,612	98,234
2025	19,147	19,761	98,856
2026	19,277	19,965	99,513
2027	19,381	20,146	100,001
2028	19,457	20,349	100,405
2029	19,530	20,519	100,716
2030	19,601	20,690	101,032
2031	19,701	20,859	101,407
2032	19,797	21,073	101,840
Avg. Annual Growth Rate	0.4%	0.9%	0.4%

Note: Tables 6-A and 6-B differ from these values due to a 47 MW PMPA backstand contract through 2020.

Chart 5-B Load Duration Curve with Energy Efficiency Programs (at Generation)



6. DEVELOPMENT OF THE RESOURCE PLAN

The following section details the Company's expansion plan and resource mix that is required to meet the needs of DEC's customers over the next 15 years. The section also includes a discussion of the various technologies considered during the development of the IRP, as well as, a summary of the resources required in the four cases that were considered in this IRP.

Tables 6-A and 6-B represent the winter and summer Load, Capacity, and Reserves tables for the Base Case.

Table 6-A Load, Capacity and Reserves Table - Winter

**Winter Projections of Load, Capacity, and Reserves
for Duke Energy Carolinas 2017 Annual Plan**

		17/18	18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32
Load Forecast																
1	Duke System Peak	18,817	18,865	19,080	19,230	19,409	19,639	19,908	20,088	20,324	20,548	20,800	21,006	21,199	21,388	21,616
2	Firm Sale	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Cumulative New EE Programs	(83)	(104)	(141)	(175)	(227)	(263)	(296)	(328)	(359)	(402)	(451)	(487)	(510)	(529)	(543)
4	Adjusted Duke System Peak	18,734	18,761	18,939	19,055	19,182	19,376	19,612	19,761	19,965	20,146	20,349	20,519	20,690	20,859	21,073
Existing and Designated Resources																
5	Generating Capacity	21,216	21,899	21,909	21,915	21,961	22,008	22,054	22,101	21,899	21,899	21,899	21,899	21,373	21,373	21,200
6	Designated Additions / Uprates	683	10	6	46	46	46	46	402	-	-	-	-	-	-	-
7	Retirements / Derates	-	-	-	-	-	-	-	(604)	-	-	-	(526)	-	(173)	-
8	Cumulative Generating Capacity	21,899	21,909	21,915	21,961	22,008	22,054	22,101	21,899	21,899	21,899	21,899	21,373	21,373	21,200	21,200
Purchase Contracts																
9	Cumulative Purchase Contracts	271	239	239	157	156	154	154	153	148	148	146	132	132	70	61
	Non-Compliance Renewable Purchases	56	55	58	63	68	68	68	68	63	62	62	62	62	62	61
	Non-Renewables Purchases	215	184	182	95	88	86	86	85	85	85	83	70	70	8	-
Undesignated Future Resources																
10	Nuclear															1,117
11	Combined Cycle															
12	Combustion Turbine															
13	Solar															
Renewables																
13	Cumulative Renewables Capacity	110	122	125	139	134	174	193	194	190	186	188	187	184	177	172
14	Combined Heat & Power	-	-	43	-	43	-	-	-	-	-	-	-	-	-	-
15	Cumulative Production Capacity	22,280	22,271	22,323	22,301	22,385	22,469	22,534	23,615	23,605	23,602	23,601	24,342	24,339	24,097	25,200
Demand Side Management (DSM)																
16	Cumulative DSM Capacity	426	433	442	450	459	455	455	455	455	455	455	455	455	455	455
17	Cumulative Capacity w/ DSM	22,706	22,704	22,764	22,751	22,843	22,925	22,990	24,070	24,061	24,057	24,056	24,798	24,794	24,552	25,655
Reserves w/ DSM																
18	Generating Reserves	3,972	3,942	3,825	3,696	3,661	3,549	3,377	4,310	4,095	3,911	3,707	4,278	4,104	3,693	4,582
19	% Reserve Margin	21%	21%	20%	19%	19%	18%	17%	22%	21%	19%	18%	21%	20%	18%	22%

Table 6-B Load, Capacity and Reserves Table – Summer

Summer Projections of Load, Capacity, and Reserves
for Duke Energy Carolinas 2017 Annual Plan

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Load Forecast															
1 Duke System Peak	19,000	18,955	19,156	19,267	19,368	19,531	19,690	19,860	20,060	20,250	20,416	20,561	20,685	20,834	20,970
2 Firm Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 Cumulative New EE Programs	(168)	(253)	(333)	(413)	(491)	(570)	(643)	(714)	(782)	(869)	(959)	(1,030)	(1,084)	(1,133)	(1,172)
4 Adjusted Duke System Peak	18,833	18,702	18,823	18,854	18,877	18,961	19,047	19,147	19,277	19,381	19,457	19,530	19,601	19,701	19,797
Existing and Designated Resources															
5 Generating Capacity	20,216	20,869	20,879	20,932	20,978	21,024	21,071	21,071	20,854	20,854	20,854	20,854	20,338	20,338	20,178
6 Designated Additions / Upgrades	653	10	52	46	46	46	0	365	0	0	0	0	0	0	0
7 Retirements / Derates	0	0	0	0	0	0	0	(582)	0	0	0	(516)	0	(160)	0
8 Cumulative Generating Capacity	20,869	20,879	20,932	20,978	21,024	21,071	21,071	20,854	20,854	20,854	20,854	20,338	20,338	20,178	20,178
Purchase Contracts															
9 Cumulative Purchase Contracts	388	372	392	351	390	407	406	404	397	396	392	377	376	314	305
Non-Compliance Renewable Purchases	173	188	210	256	301	321	320	318	312	310	309	308	306	306	305
Non-Renewables Purchases	215	184	182	95	88	86	86	85	85	85	83	70	70	8	0
Undesignated Future Resources															
10 Nuclear															1,117
11 Combined Cycle								1,151				1,151			
12 Combustion Turbine															
13 Solar															
Renewables															
13 Cumulative Renewables Capacity	359	490	522	651	761	944	1,132	1,166	1,156	1,148	1,145	1,139	1,131	1,124	1,119
14 Combined Heat & Power	0	0	40	0	40	0	0	0	0	0	0	0	0	0	0
15 Cumulative Production Capacity	21,616	21,741	21,885	22,020	22,255	22,502	22,689	23,654	23,638	23,628	23,622	24,236	24,227	23,998	25,101
Demand Side Management (DSM)															
16 Cumulative DSM Capacity	1,023	1,047	1,073	1,097	1,106	1,104	1,104	1,104	1,104	1,104	1,104	1,104	1,104	1,104	1,104
17 Cumulative Capacity w/ DSM	22,640	22,788	22,958	23,117	23,361	23,606	23,793	24,758	24,742	24,732	24,725	25,340	25,330	25,102	26,205
Reserves w/ DSM															
18 Generating Reserves	3,807	4,086	4,135	4,264	4,484	4,645	4,746	5,612	5,465	5,352	5,268	5,810	5,730	5,401	6,407
19 % Reserve Margin	20%	22%	22%	23%	24%	24%	25%	29%	28%	28%	27%	30%	29%	27%	32%

DEC - Assumptions of Load, Capacity, and Reserves Table

The following notes are numbered to match the line numbers on the Winter Projections of Load, Capacity, and Reserves tables. All values are MW (winter ratings) except where shown as a Percent.

1. Planning is done for the peak demand for the Duke Energy Carolinas System including Nantahala.

A firm wholesale backstand agreement for 47 MW between Duke Energy Carolinas and PMPA starts on 1/1/2014 and continues through the end of 2020. This backstand is included in Line 1.

2. No additional firm sales are included.
3. Cumulative new energy efficiency and conservation programs (does not include demand response programs).
4. Peak load adjusted for firm sales and cumulative energy efficiency.
5. Existing generating capacity reflecting designated additions, planned uprates, retirements and derates as of July 1, 2017.

Includes 101 MW Nantahala hydro capacity, and total capacity for Catawba Nuclear Station less 832 MW to account for NCMIPA1 firm capacity sale.

6. Capacity Additions include:

Runner upgrades on each of the four Bad Creek pumped storage units. Each upgrade is expected to be 46.4 MW and are projected to be available in the winter of 2021 – 2024 timeframe. One unit will be upgraded per year.

Lee Combined Cycle is reflected in 2018 (683 MW). This is the DEC capacity net of 100 MW to be owned by NCEMC.

Lincoln County CT project is reflected in the winter of 2025 (402 MW). The CPCN application for this project was filed on June 12, 2017.

Duke Energy Carolinas hydro units scheduled to be repaired and returned to service. The units are returned to service in the 2017-2020 timeframe and total 16 MW.

DEC - Assumptions of Load, Capacity, and Reserves Table (cont.)

7. A planning assumption for coal retirements has been included in the 2017 IRP.

Allen Steam Station Units 1-3 (604 MW) are assumed to retire in December 2024.

Allen Steam Station Units 4-5 (526 MW) are assumed to retire in December 2028.

Nuclear Stations are assumed to retire at the end of their current license extension.

No nuclear facilities are assumed to retire in the 15 year study period.

The Hydro facilities for which Duke has submitted an application to FERC for license renewal are assumed to continue operation through the planning horizon.

All retirement dates are subject to review on an ongoing basis. Dates used in the 2017 IRP are for planning purposes only.
8. Sum of lines 5 through 7.
9. Cumulative Purchase Contracts including purchased capacity from PURPA Qualifying Facilities.

Additional line items are shown under the total line item to show the amounts of renewable and traditional QF purchases.

Renewable resources in these line items are not used for NC REPS compliance.
10. Addition of 1,117 MW new nuclear unit additions assumed in December 3031 and December 3033.

Capacity must be on-line by June 1 to be included in available capacity for the summer peak of that year and by December 1 to be included in available capacity for the winter peak of that year.
11. New combined cycle resources economically selected to meet load and minimum planning reserve margin.

Capacity must be on-line by June 1 to be included in available capacity for the summer peak of that year and by December 1 to be included in available capacity for the winter peak of that year.

DEC - Assumptions of Load, Capacity, and Reserves Table (cont.)

Addition of 1,282 MW of combined cycle capacity online December 2024 and December 2028.

12. New combustion turbine resources economically selected to meet load and minimum planning reserve margin.

Capacity must be on-line by June 1 to be included in available capacity for the summer peak of that year and by December 1 to be included in available capacity for the winter peak of that year.

No combustion turbine capacity was selected in the Base Case.

13. Resources to comply with NC REPS, HB 589 along with solar customer product offerings such as Green Source and SC DER Program were input as existing resources.
14. Two 21.7 MW (winter) combined heat and power units included in both December 2019 and December 2021.
15. Sum of lines 8 through 14.
16. Cumulative Demand Response programs including load control and DSDR.
17. Sum of lines 15 and 16.
18. The difference between lines 17 and 4.
19. Reserve Margin = (Cumulative Capacity-System Peak Demand)/System Peak Demand

Line 18 divided by Line 4.

Minimum winter target planning reserve margin is 17%.

Technologies Considered

Similar to the 2016 IRP, the Company considered a diverse range of technology choices utilizing a variety of different fuels in order to meet future generation needs in the 2017 IRP. The Company conducted an economic screening analysis of various technologies as part of the 2017 IRP, with changes from the 2016 IRP highlighted below.

Dispatchable (Winter Ratings)

- Base load – 782 MW Ultra-Supercritical Pulverized Coal with CCS
- Base load – 557 MW 2x1 IGCC with CCS
- Base load – 2 x 1,117 MW Nuclear Units (AP1000)
- Base load – **638 MW** – 1x1x1 Advanced Combined Cycle (**No Inlet Chiller** and Fired)
- Base load – **1,281 MW** – 2x2x1 Advanced Combined Cycle (**No Inlet Chiller** and Fired)
- Base load – 21.7 MW – Combined Heat & Power
- Peaking/Intermediate – **195 MW** 4 x LM6000 Combustion Turbines (CTs)
- Peaking/Intermediate – 200 MW, 12 x Reciprocating Engine Plant
- Peaking/Intermediate – **549 MW 2 x G/H-Class Combustion Turbines (CTs)**
- Peaking/Intermediate – **740 MW 2 x J-Class Combustion Turbines (CTs)**
- Peaking/Intermediate – **942 MW** 4 x 7FA.05 Combustion Turbines (CTs)
- Renewable – **5 MW / 2.5 MWh** Li-ion Battery
- Renewable – **5 MW / 20 MWh** Li-ion Battery
- Renewable – **2 MW Solar PV plus 2 MW / 8 MWh** Li-ion Battery

Non-Dispatchable (Nameplate)

- Renewable – 5 MW Landfill Gas
- Renewable – 150 MW Wind - On-Shore
- Renewable – 5 MW Solar PV, Fixed-tilt (FT)
- Renewable – **50 MW Solar PV, Fixed-tilt (FT)**
- Renewable – **50 MW Solar PV, Single Axis Tracking (SAT)**
- Renewable – **1300 MW Pumped Storage - Brownfield**
- Renewable – 5 MW Landfill Gas

Combined Cycle base capacities and technologies: Based on proprietary third party engineering studies, the 2x2x1 Advanced CC saw an increase in base load of 62 MW. The older version base 2x1 CC and the 3x1 Advanced CC were not considered in the updated IRP. However, as the Company begins the process of evaluating particular technologies for future undesignated

generation needs, these technologies, along with other new technologies, may be considered based on factors such as generation requirements, plot size, new environmental regulations, etc.

Combustion Turbine base capacities and technologies: Based on proprietary third party engineering studies, the F-Frame CT technology saw a slight increase in winter capacity. The LM6000 CTs were not considered in the updated IRP. However, as the Company begins the process of evaluating particular technologies for future undesignated generation needs, these technologies, along with other new technologies, may be considered based on factors such as generation requirements, plot size, new environmental regulations, etc.

CHP: As mentioned previously, two 43 MW (winter) blocks of Combined Heat & Power are considered in the 2017 IRP and are included as resources for meeting future generation needs. DEC has signed agreements and obtained regulatory approval for a 15 MW CHP at Clemson University, which is expected to be in service by 2020. Filing for a CPCN for a 21 MW CHP at Duke University has been delayed pending the resolution of issues raised by the University. Discussions with other potential steam hosts are currently underway. As CHP continues to be implemented, future IRP processes will incorporate additional CHP as appropriate.

Energy Storage: Energy storage solutions, in particular batteries, are becoming an increasing necessity for support of grid services, including frequency regulation, solar smoothing, and/or energy shifting from localized renewable energy sources with a high incidence of intermittency (i.e. solar and wind). These technologies are capable of providing resiliency benefits and economic value for the utility and its customers. Duke Energy owns and operates several battery projects that have been in operation since 2011 through its Emerging Technology Office, mainly in support of regulating grid frequency and voltage, integrating renewables and energy time shifting.

Duke Energy is committed to supporting emerging technologies that can complement more conventional technologies and is in a prime position to optimize the investment in batteries by dispatching them in a manner that directly benefits customers. The Company intends to begin investing in multiple systems dispersed throughout its North and South Carolina service territory that will be located on property owned by the Company or leased from its customers. These deployments will allow Duke Energy and its customers to evaluate the costs and impacts of batteries deployed at a significant scale, explore the nature of new offerings desired by customers, and fill knowledge gaps.

Duke Energy Progress currently has one battery constructed and two in the interconnection queue in the western Carolinas region.

Pumped Storage Hydropower (PSH): PSH is another form of Energy Storage and is the only conventional, mature, commercial, utility-scale bulk electricity storage option available currently. This technology consumes off-peak electricity by pumping water from a lower reservoir to an upper reservoir. When the electric grid needs more electricity and when electricity prices are higher, water is released from the upper reservoir. As the water flows from the upper reservoir to the lower reservoir, it goes through a hydroelectric turbine to generate electricity. Many operational pumped storage hydropower plants are providing electric reliability and reserves for the electric grid in high demand situations.

PSH can provide a high amount of power because its only limitation is the capacity of the upper reservoir. Typically, these plants can be as large as 4,000 MW, and have an efficiency of 76% - 85% (Electric Power Research Institute (EPRI), 2012). Therefore, this technology is effective at meeting electric demand and transmission overload by shifting, storing, and producing electricity.

This is important because an increasing supply of intermittent renewable energy generation such as solar will cause challenges to the electric grid. PSH installations are greatly dependent on regional geography and face several challenges including: environmental impact concerns, a long permitting process, and a relatively high initial capital cost. Duke Energy currently has two PSH assets, Bad Creek Reservoir and Jocassee Hydro in the DEC territory with an approximate combined generating capacity of 2,140 MW.

Expansion Plan and Resource Mix

A tabular presentation of the 2017 Base Case resource plan represented in the above LCR table is shown below:

Table 6-C DEC Base Case Resources – Winter (with CO₂)

Duke Energy Carolinas Resource Plan ⁽¹⁾ Base Case - Winter				
Year	Resource		MW	
2018	Lee CC		683	
2019	Hydro Refurb Return to Service		10	
2020	Hydro Refurb Return to Service	CHP	6	43
2021	Bad Creek Update		46.4	
2022	Bad Creek Update	CHP	46.4	43
2023	Bad Creek Update		46.4	
2024	Bad Creek Update		46.4	
2025	Lincoln CT	New CC	402	1282
2026				
2027				
2028				
2029	New CC		1282	
2030				
2031				
2032	New Nuclear		1117	

- Notes: (1) Table includes both designated and undesignated capacity additions
Future additions of renewables, EE and DSM not included
(2) Lee CC capacity is net of NCEMC ownership of 100 MW
(3) Rocky Creek Units currently offline for refurbishment; these are expected return to service dates
(4) Lee Nuclear in service dates are assumed to be Dec, 2031 and Dec, 2033.
(5) An application was filed for a CPCN for the Lincoln County CT Addition Project on June 12, 2017.
The Lincoln CT is now included as a designated resource in the 2017 IRP.

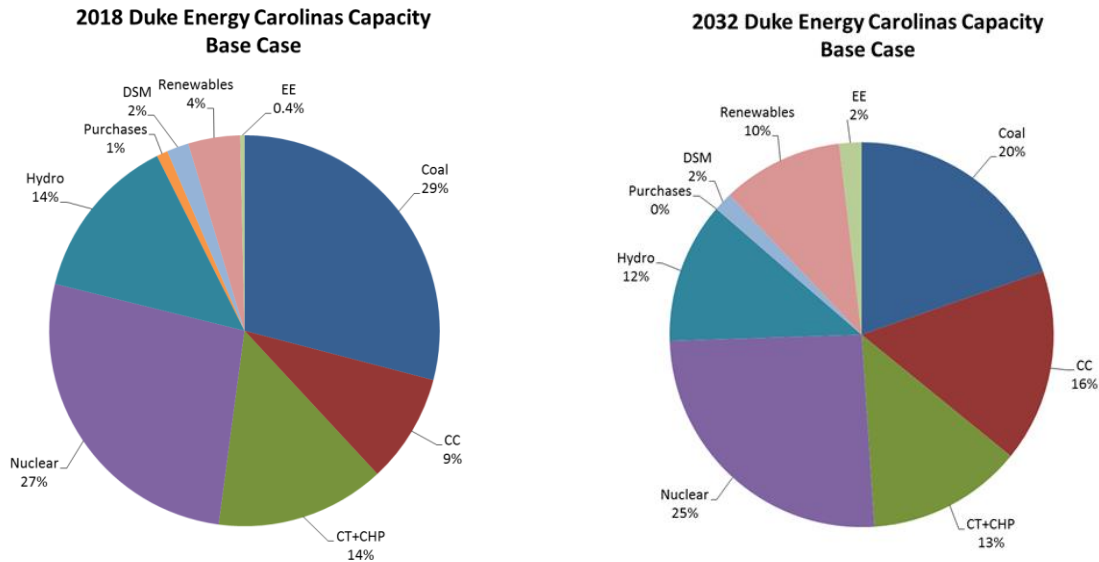
Table 6-D DEC Base Case Resources (with CO₂) Cumulative Winter Totals

DEC Base Case Resources Cumulative Winter Totals - 2018 - 2032	
Nuclear	1117
CC	3247
CT	402
Hydro	202
CHP	86
Total	5054

The following charts illustrate both the current and forecasted capacity by fuel type for the DEC system, as projected in the Base Case. As demonstrated in Chart 6-A, the capacity mix for the DEC system changes with the passage of time. In 2032, the Base Case projects that DEC will have a

smaller percentage reliance on coal, a continued reliance on nuclear and gas-fired CTs, and a higher reliance on gas-fired combined cycles, renewable resources and EE as compared to the current state.

Chart 6-A 2018 and 2032 Base Case Winter Capacity Mix



As discussed earlier, the Company developed three additional cases which represent variations of the Base Case. The expansion plans for these cases are shown below in Table 6-E.

A description of these additional cases are:

- “No Carbon Case” – No carbon legislation and without nuclear relicensing.
- “Carbon and Nuclear Relicensing Case” – Carbon legislation in 2026 and with nuclear relicensing.
- “No Carbon with Nuclear Relicensing Case” – No carbon legislation and with nuclear relicensing.

A representation of the expansion plans for these cases is shown in Table 6-E.

Table 6-E Additional Cases - Winter

Duke Energy Carolinas Resource Plans Additional Cases - Winter (Resource - MW)			
Year	No Carbon Case w/o Relicensing Case	Carbon w/ Relicensing Case	No Carbon w/ Relicensing Case
2018	Lee CC - 683	Lee CC - 683	Lee CC - 683
2019	Hydro Refurb - 10	Hydro Refurb - 10	Hydro Refurb - 10
2020	Hydro Refurb - 6	Hydro Refurb - 6	Hydro Refurb - 6
	CHP - 43	CHP - 43	CHP - 43
2021	Bad Creek - 47.4	Bad Creek - 47.4	Bad Creek - 47.4
2022	Bad Creek - 47.4	Bad Creek - 47.4	Bad Creek - 47.4
	CHP - 43	CHP - 43	CHP - 43
2023	Bad Creek - 47.4	Bad Creek - 47.4	Bad Creek - 47.4
2024	Bad Creek - 47.4	Bad Creek - 47.4	Bad Creek - 47.4
2025	Lincoln CT - 402	Lincoln CT - 402	Lincoln CT - 402
	New CC - 1282	New CC - 1282	New CC - 1282
2026			
2027			
2028			
2029	New CT - 942	New CC - 1282	New CT - 942
2030			
2031	New CT - 471		New CT - 471
2032		New CT - 471	

7. **SHORT-TERM ACTION PLAN**

The Company's Short-Term Action Plan, which identifies accomplishments in the past year and actions to be taken over the next five years, is summarized below:

Continued Reliance on EE and DSM Resources

The Company is committed to continuing to grow the amount of EE and DSM resources utilized to meet customer growth. The following are the ways in which DEC will increase these resources:

- Continue to execute the Company's EE and DSM plan, which includes a diverse portfolio of EE and DSM programs spanning the residential, commercial and industrial classes.
- Continue on-going collaborative work to develop and implement additional cost-effective EE and DSM products and services.
- Continue to seek enhancements to the Company's EE/DSM portfolio by: (1) adding new or expanding existing programs to include additional measures, (2) program modifications to account for changing market conditions and new measurement and verification (M&V) results and (3) considering other EE research and development pilots.
- Continue to seek additional DSM programs that will specifically benefit during winter peak situations.

Continued Focus on Renewable Energy Resources

- DEC is committed to complying with the newly signed HB 589 legislation. The Company has made assumptions to account for the non-compliance PURPA renewable purchases part of the "Transition" MW of HB 589, as well as the competitive procurement, renewable energy procurement for large customers, and community solar components of the bill.
- DEC is committed to full compliance with NC REPS in North Carolina and the SC DER Program in South Carolina. As previously discussed, the Company has experienced a substantial increase in solar QFs in the interconnection queue over the past few years. With this significant level of interest in solar development, DEC continues to procure renewable purchase power resources, when economically viable, as part of its Compliance Plans. DEC is also pursuing the addition of new utility-owned solar on the DEC system.

- DEC continues to evaluate market options for renewable generation and procure capacity, as appropriate. PPAs have been signed with developers of solar PV and landfill gas resources. Additionally, REC purchase agreements have been executed for purchases of unbundled RECs from wind, solar PV, solar thermal and hydroelectric facilities.
- DEC has signed agreements and obtained regulatory approval for a 15 MW CHP at Clemson University, which is expected to be in service by 2020. Filing for a CPCN for a 21 MW CHP at Duke University has been delayed pending the resolution of issues raised by the University. Discussions with other potential steam hosts are currently underway. DEC continues to pursue CHP opportunities, as appropriate, and placeholders have been included in the IRP.

Cancellation of the Lee Project and Continue to Evaluate Nuclear

In its last filed IRP on September 1, 2016, DEC indicated it continued to have a long-term need for new nuclear generation. The Base Case scenario, which included a cost on carbon emissions, assumed new nuclear resources to meet load and minimum planning reserve margin with Lee Nuclear additions in 2026 and 2028 (2,234 MW).

On December 19, 2016, the Company received the Combined Construction and Operating License (COL) for the Lee Nuclear Project from the U.S. Nuclear Regulatory Commission. On August 25, 2017, DEC filed a request to cancel the Lee Nuclear Project as that project was originally envisioned and included in prior IRPs. That request is now pending before the North Carolina Utilities Commission (NCUC) in Docket Nos. E-7, Sub 819 and E-7 Sub 1146. On August 25, 2017, DEC also filed notice of its cancellation request with the Public Service Commission of South Carolina (PSCSC) in Docket 2011-20-E. DEC's decision to cancel the project resulted from events that have occurred subsequent to receipt of the Lee Nuclear COL. These events include the AP-1000 technology owner, designer and engineer, Westinghouse, and its parent company, Toshiba Corporation, indicating that they intend to exit the nuclear construction business in the U.S., including the Lee Project; the subsequent bankruptcy of Westinghouse and the substantial cost increases and schedule delays associated with the Vogtle and V.C. Summer new nuclear construction projects the latter of which South Carolina Electric & Gas Company and project joint owner, Santee Cooper, recently canceled.

In addition to these developments, revised projections indicate that new nuclear baseload capacity is needed only under a carbon-constrained scenario with the assumption of no existing nuclear re-licensing. Even in that scenario, the added capacity would not be needed until much later in the 15-year planning horizon (2031, 2033) than projected in the 2016 IRP.

The Company views all of its existing nuclear fleet as excellent candidates for license extensions, however, to date no existing nuclear plant operating licenses have been extended from 60 years to 80 years in the United States. As such, there is uncertainty regarding license extension and any costs

associated with continuing to operate for an additional 20 years. A discussion of the Company's activities is included below.

Subsequent License Renewal for Nuclear Power Plants

Duke Energy is considering Oconee Nuclear Station submission of its first nuclear site to submit an SLR application and extend the licenses to 80 years. The remaining nuclear fleet sites will follow where the cost/benefit balance proves acceptable.

An Advance was approved on May 12, 2016 for the development portion of the ONS SLR project. These funds are being used to further develop and refine the Project Plan including scope, schedule, cost, risk, and other project elements. The next phase of funding for the project is expected to be submitted for approval in 2Q2018. At this time a final decision to extend the ONS or any other Duke Energy nuclear power plants' operating licenses to 80 years has not been made.

Addition of Clean Natural Gas Resources

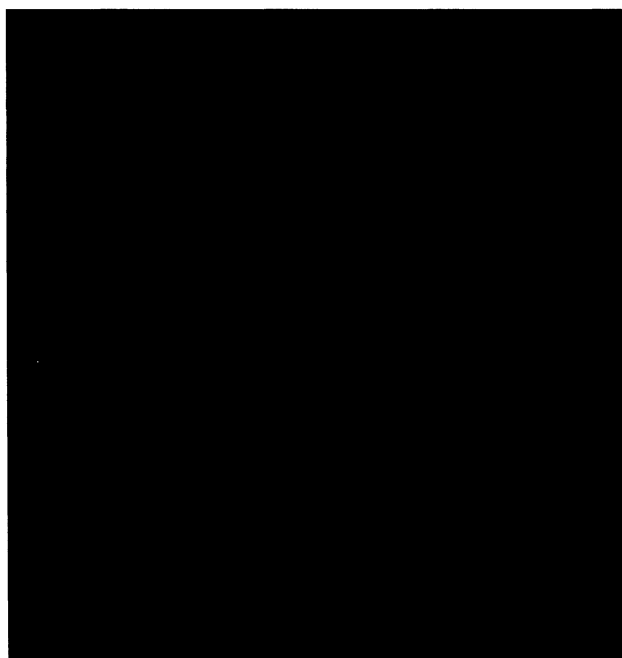
- Construction of the Lee combined cycle plant (Lee CC) at the Lee Steam Station site located in Anderson, SC is being completed. The unit is expected to be online in late 2017 and available to meet the 2018 winter peak.
- A CPCN application was filed on June 12, 2017 for the construction of a new, state-of-the-art 402 MW combustion turbine at the existing Lincoln County CT site. While Duke Energy is not expected to take care, custody, and control of the CT until October 2024, DEC and its customers will benefit from the energy produced by the generating unit beginning in 3Q2020 as the unit begins an extended commissioning and testing period.
- Complete engineering phase of Cliffside Dual Fuel Optimization (DFO) project by year-end 2017, and begin construction in 1Q2018. Current commercial operation date (COD) for both Units 5 and 6 is year-end 2018. The Cliffside DFO Project enables up to 100% gas co-firing on Unit 6 and up to 10% gas co-firing on Unit 5 when the units are running simultaneously. The project is designed to maximize the value of both units, improve unit dispatch, and increase unit flexibility by lowering the delivered fuel cost to the complex through gas co-firing.
- As part of the Company's effort to modernize and increase unit flexibility, and in order to take advantage of continued low natural gas prices, DEC is moving forward with a modification to Belews Creek Coal Units 1 and 2. The project will enable 50% natural gas co-firing on each unit. Similar to the Cliffside DFO Project, co-firing at Belews Creek is

designed to maximize the value of these units, improve unit dispatch, and increase unit flexibility by lowering the delivered fuel cost to the complex through gas co-firing. Based on the current schedule, COD for Unit 1 is December 2019 and Unit 2 is December 2020.

Expiration of Wholesale Sales Contracts

In the 2018-2022 timeframe, DEC has several wholesale sales contracts that are scheduled to expire. At this time, DEC is not relying on contract extensions for these contracts. As such, these contract expirations are included in the IRP and Short-Term Action Plan. A summary of those expirations is shown in Table 7-A below. In addition to the expirations shown in this five year period, additional contracts expire during the 15-year IRP study period.

Table 7-A Wholesale Sales Contract Expirations
(BEGIN CONFIDENTIAL)



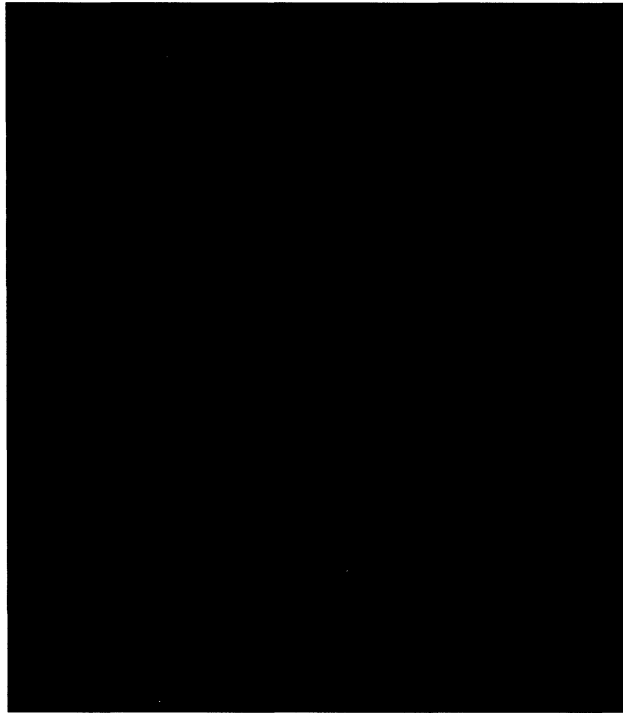
(END CONFIDENTIAL)

Expiration of Wholesale Purchase Contracts

In the 2018-2022 timeframe, DEC has a number of wholesale purchases that are scheduled to expire. At this time, DEC is not relying on contract extensions on these contracts. As such, these contract expirations are included in the IRP and Short-Term Action Plan. A summary of those

expirations is shown in Table 7-B below. In addition to the expirations shown in this five year period, additional contracts expire during the 15-year IRP study period.

Table 7-B Wholesale Purchase Contract Expirations
(BEGIN CONFIDENTIAL)



(END CONFIDENTIAL)

Continued Focus on System Reliability and Resource Adequacy for DEC System

The 2016 and 2017 DEC and DEP IRPs incorporated a 17% winter reserve margin target based on results of the resource adequacy studies completed in 2016. The NCUC's 2016 IRP Order concluded that the reserve margins included in the DEC and DEP IRPs are reasonable for planning purposes. However, the Commission noted concerns outlined by the Public Staff and a report submitted by SACE, NRDC and Sierra Club consultant Wilson.⁶ DEC and DEP responded to these concerns in the Companies' detailed 2016 IRP Reply Comments regarding reserve margins and winter capacity planning. In addition, since the issuance of the 2016 IRP Order, the Companies have met with and initiated further discussions with the Public Staff to identify and address any remaining issues. The Companies and the Public Staff plan to file a joint report summarizing the

⁶ Southern Alliance for Clean Energy and National Resources Defense Council

on-going review and conclusions within 150 days of the filing of the Companies' 2017 IRP updates as directed by the NCUC.

Continued Focus on Evolving Regulations, Environmental Compliance and Wholesale Activities

- Retired older coal generation. As of April 2015, Duke Energy Carolinas has no remaining older, un-scrubbed coal units in operation. The Company has retired approximately 1,700 MW of un-scrubbed, older coal units and over 400 MW of older combustion turbines.
- The 2017 IRP shows an additional approximately 1,300 MW of retirements over the study period with just over 1,100 MW of coal being retired at the Allen site and just over 170 MW of combustion turbine capacity at Lee 3.
- Continue to monitor the status of EPA's Clean Power Plan. In response to a March 28, 2017 Executive Order, EPA has undertaken a review of the rule to determine whether it should be suspended, revised, or rescinded. The rule remains in effect pending the outcome of litigation and EPA's review of the rule. EPA has not announced a schedule for completing its review.
- Continue to investigate the future environmental control requirements and resulting operational impacts associated with existing and potential environmental regulations such as the Mercury and Air Toxics Standard (MATS), the Coal Combustion Residuals Rule (CCR), the Cross-State Air Pollution Rule (CSAPR), and the new ozone National Ambient Air Quality Standard (NAAQS).
- Aggressively pursue compliance in North Carolina and South Carolina in addressing coal ash management and ash pond remediation. Ensure timely compliance plans and their associated costs are contemplated within the planning process and future integrated resource plans, as appropriate.
- Continue to pursue existing and potential opportunities for wholesale power sales agreements within the Duke Energy balancing authority area.
- Continue to monitor energy-related statutory and regulatory activities.
- Continue to examine the benefits of joint capacity planning and pursue appropriate regulatory actions.

A summarization of the capacity resources for the Base Case in the 2017 IRP is shown in Table 7-C below. Capacity retirements and additions are presented as incremental values in the year in which the change is projected to impact the winter peak. The values shown for renewable resources, EE and DSM represent cumulative totals.

Table 7-C DEC Short-Term Action Plan

Duke Energy Carolinas Short-Term Action Plan ^{(1) (6)}						
			Compliance Renewable Resources (Cumulative Nameplate MW)			
Year	Retirements	Additions	Solar ⁽²⁾	Biomass/Hydro	EE	DSM ⁽³⁾
2018		683 MW Lee CC ⁽⁴⁾	889	121	83	426
2019		10 MW Hydro Refurb ⁽⁵⁾	1214	116	104	433
2020		6 MW Hydro Refurb ⁽⁵⁾ 43 MW CHP	1333	115	141	442
2021		46 MW Bad Creek	1711	115	175	450
2022		46 MW Bad Creek 43 MW CHP	2088	96	227	459

Notes:

(1) Capacities are shown in winter ratings unless otherwise noted.

(2) Capacity is shown in nameplate ratings. For planning purposes, solar presents a 5% contribution to winter peak.

(3) Includes impacts of grid modernization.

(4) 683 MW is net of NCEMC portion of Lee CC.

(5) Rocky Creek is currently offline for refurbishment. Hydro Refurb MW in table represent expected return to service date.

(6) First resource need moved from 2023 in the 2016 IRP to 2025 in the 2017 IRP.

8. CONCLUSIONS

DEC continues to focus on the needs of customers by meeting the growing demand in the most economical and reliable manner possible. The Company continues to improve the IRP process by determining best practices and making changes to more accurately and realistically represent the DEC System in its planning practices. The 2017 IRP represents a 15-year projection of the Company's plan to balance future customer demand and supply resources to meet this demand plus a 17% minimum winter planning reserve margin. Over the 15-year planning horizon, DEC expects to require 5,054 MW of additional generating resources in addition to the incremental renewable resources, EE and DSM already in the resource plan.

The Company focuses on the needs of the short-term, while keeping a close watch on market trends and technology advancements to meet the demands of customers in the long-term. The Company's short-term and long-term plans are summarized below:

Short-Term

Over the next 5 years, DEC's 2017 IRP focuses on the following:

- Complete construction of the Lee CC plant in Anderson, SC scheduled for operation in November 2017.
- Begin work on the Bad Creek unit upgrades.
- Continue work with Astrapé and the Public Staff to resolve outstanding issues regarding the 2016 Resource Adequacy Study.
- Pursue investment in a limited number of battery storage projects to gain additional operational and technical experience with evolving utility-scale storage technologies.
- Procure CHP resources as cost-effective and diverse generation sources, as appropriate.
- Pending the CPCN application outcome, pursue new Lincoln CT to begin providing low-cost energy benefits to DEC's customers in 3Q2020, prior to taking care, custody, and control of the CT in 4Q2024.
- Continue work on the Cliffside and Belews Creek dual fuel optimization projects to increase flexibility of the DEC system.
- Continue to review energy storage options for feasibility on the DEC system.
- Continue to meet NC REPS and the SC DER Program compliance plans, as well as the new HB 589 and invest in additional cost-effective and diverse renewable resources.

- Begin compliance with HB 589, by completing the “Transition” MW, and connecting a portion of the competitive procurement, renewable energy procurement for large customers, and community solar components of the bill.
- Continue to grow and enhance EE and DSM in the Carolinas region.
- Continue to seek additional DSM programs that will specifically benefit during winter peak situations.
- Continue work on the 15 MW CHP at Clemson University, which is expected to be in service by 2020. Complete the filing for a CPCN for a 21 MW CHP at Duke University pending the resolution of issues raised by the University.

Long-Term

Beyond the next 5 years, DEC’s 2017 IRP focuses on the following:

- Continue to seek the most cost-effective, reliable resources to meet the growing customer demand in the service territory.
- Continue discussions with other potential steam hosts to pursue CHP opportunities, as appropriate.
- Continue to meet and NC REPS compliance plans, as well as the new HB 589 bill, and invest in additional cost-effective and diverse renewable resources.
- Continue implementing all portions of the HB 589 bill.
- Continue to grow and enhance EE and DSM in the Carolinas region.
- Continue to seek additional DSM programs that will specifically benefit during winter peak situations.

DEC’s goal is to continue to diversify the DEC system by adding a variety of cost-effective, reliable, clean resources to meet customer demand. Over the next 15 years, the Company projects filling the increasing demand with investments in natural gas, nuclear, renewables, EE and DSM.

9. DUKE ENERGY CAROLINAS OWNED GENERATION

Duke Energy Carolinas' generation portfolio includes a balanced mix of resources with different operating and fuel characteristics. This mix is designed to provide energy at the lowest reasonable cost to meet the Company's obligation to serve its customers. Duke Energy Carolinas-owned generation, as well as purchased power, is evaluated on a real-time basis in order to select and dispatch the lowest-cost resources to meet system load requirements. In 2016, Duke Energy Carolinas' nuclear, coal-fired and gas-fired generating units met the vast majority of customer needs by providing 61%, 26% and 12%, respectively, of Duke Energy Carolinas' energy from generation. Hydroelectric generation, solar generation, long term PPAs, and economical purchases from the wholesale market supplied the remainder.

The tables below list the Duke Energy Carolinas' plants in service in North Carolina and South Carolina with plant statistics, and the system's total generating capability.

Existing Generating Units and Ratings ^{a, b, c, d} All Generating Unit Ratings are as of July 1, 2017

Coal						
	<u>Unit</u>	<u>Winter (MW)</u>	<u>Summer (MW)</u>	<u>Location</u>	<u>Fuel Type</u>	<u>Resource Type</u>
Allen	1	167	162	Belmont, N.C.	Coal	Peaking
Allen	2	167	162	Belmont, N.C.	Coal	Peaking
Allen	3	270	258	Belmont, N.C.	Coal	Peaking
Allen	4	267	257	Belmont, N.C.	Coal	Intermediate
Allen	5	259	259	Belmont, N.C.	Coal	Peaking
Belews Creek	1	1,110	1,110	Belews Creek, N.C.	Coal	Base
Belews Creek	2	1,110	1,110	Belews Creek, N.C.	Coal	Base
Cliffside	5	546	544	Cliffside, N.C.	Coal	Peaking
Cliffside	6	844	844	Cliffside, N.C.	Coal	Intermediate
Marshall	1	380	370	Terrell, N.C.	Coal	Intermediate
Marshall	2	380	370	Terrell, N.C.	Coal	Intermediate
Marshall	3	658	658	Terrell, N.C.	Coal	Base
Marshall	4	<u>660</u>	<u>660</u>	Terrell, N.C.	Coal	Base
Total Coal		6,818	6,764			

Combustion Turbines						
	<u>Unit</u>	<u>Winter (MW)</u>	<u>Summer (MW)</u>	<u>Location</u>	<u>Fuel Type</u>	<u>Resource Type</u>
Lee	7C	48	42	Pelzer, S.C.	Natural Gas/Oil-Fired	Peaking
Lee	8C	48	42	Pelzer, S.C.	Natural Gas/Oil-Fired	Peaking
Lincoln	1	98	76	Stanley, N.C.	Natural Gas/Oil-Fired	Peaking
Lincoln	2	99	76	Stanley, N.C.	Natural Gas/Oil-Fired	Peaking
Lincoln	3	99	75	Stanley, N.C.	Natural Gas/Oil-Fired	Peaking
Lincoln	4	98	75	Stanley, N.C.	Natural Gas/Oil-Fired	Peaking
Lincoln	5	97	74	Stanley, N.C.	Natural Gas/Oil-Fired	Peaking
Lincoln	6	97	73	Stanley, N.C.	Natural Gas/Oil-Fired	Peaking
Lincoln	7	98	76	Stanley, N.C.	Natural Gas/Oil-Fired	Peaking
Lincoln	8	98	75	Stanley, N.C.	Natural Gas/Oil-Fired	Peaking
Lincoln	9	97	75	Stanley, N.C.	Natural Gas/Oil-Fired	Peaking
Lincoln	10	98	75	Stanley, N.C.	Natural Gas/Oil-Fired	Peaking
Lincoln	11	98	74	Stanley, N.C.	Natural Gas/Oil-Fired	Peaking
Lincoln	12	98	75	Stanley, N.C.	Natural Gas/Oil-Fired	Peaking
Lincoln	13	98	74	Stanley, N.C.	Natural Gas/Oil-Fired	Peaking
Lincoln	14	97	74	Stanley, N.C.	Natural Gas/Oil-Fired	Peaking
Lincoln	15	98	73	Stanley, N.C.	Natural Gas/Oil-Fired	Peaking
Lincoln	16	97	73	Stanley, N.C.	Natural Gas/Oil-Fired	Peaking
Mill Creek	1	92	71	Blacksburg, S.C.	Natural Gas/Oil-Fired	Peaking
Mill Creek	2	92	70	Blacksburg, S.C.	Natural Gas/Oil-Fired	Peaking
Mill Creek	3	92	71	Blacksburg, S.C.	Natural Gas/Oil-Fired	Peaking
Mill Creek	4	92	70	Blacksburg, S.C.	Natural Gas/Oil-Fired	Peaking
Mill Creek	5	90	69	Blacksburg, S.C.	Natural Gas/Oil-Fired	Peaking
Mill Creek	6	92	71	Blacksburg, S.C.	Natural Gas/Oil-Fired	Peaking
Mill Creek	7	92	70	Blacksburg, S.C.	Natural Gas/Oil-Fired	Peaking
Mill Creek	8	93	71	Blacksburg, S.C.	Natural Gas/Oil-Fired	Peaking
Rockingham	1	179	165	Rockingham, N.C.	Natural Gas/Oil-Fired	Peaking
Rockingham	2	179	165	Rockingham, N.C.	Natural Gas/Oil-Fired	Peaking
Rockingham	3	179	165	Rockingham, N.C.	Natural Gas/Oil-Fired	Peaking
Rockingham	4	179	165	Rockingham, N.C.	Natural Gas/Oil-Fired	Peaking
Rockingham	5	<u>179</u>	<u>165</u>	Rockingham, N.C.	Natural Gas/Oil-Fired	Peaking
Total NC		2,460	2,018			
Total SC		<u>831</u>	<u>647</u>			
Total CTs		3,291	2,665			

Natural Gas Fired Boiler						
		<u>Winter (MW)</u>	<u>Summer (MW)</u>	<u>Location</u>	<u>Fuel Type</u>	<u>Resource Type</u>
Lee	3	<u>173</u>	<u>170</u>	Pelzer, N.C.	Nat. Gas	Peaking
Total Nat. Gas		173	170			

Combined Cycle						
	<u>Unit</u>	<u>Winter (MW)</u>	<u>Summer (MW)</u>	<u>Location</u>	<u>Fuel Type</u>	<u>Resource Type</u>
Buck	CT11	206	178	Salisbury, N.C.	Natural Gas	Base
Buck	CT12	206	178	Salisbury, N.C.	Natural Gas	Base
Buck	ST10	<u>304</u>	<u>312</u>	Salisbury, N.C.	Natural Gas	Base
Buck CTCC		716	668			
Dan River	CT8	199	171	Eden, N.C.	Natural Gas	Base
Dan River	CT9	199	171	Eden, N.C.	Natural Gas	Base
Dan River	ST7	<u>320</u>	<u>320</u>	Eden, N.C.	Natural Gas	Base
Dan River CTCC		718	662			
Total CTCC		1,434	1,330			

Pumped Storage						
	<u>Unit</u>	<u>Winter (MW)</u>	<u>Summer (MW)</u>	<u>Location</u>	<u>Fuel Type</u>	<u>Resource Type</u>
Jocassee	1	195	195	Salem, S.C.	Pumped Storage	Peaking
Jocassee	2	195	195	Salem, S.C.	Pumped Storage	Peaking
Jocassee	3	195	195	Salem, S.C.	Pumped Storage	Peaking
Jocassee	4	195	195	Salem, S.C.	Pumped Storage	Peaking
Bad Creek	1	340	340	Salem, S.C.	Pumped Storage	Peaking
Bad Creek	2	340	340	Salem, S.C.	Pumped Storage	Peaking
Bad Creek	3	340	340	Salem, S.C.	Pumped Storage	Peaking
Bad Creek	4	<u>340</u>	<u>340</u>	Salem, S.C.	Pumped Storage	Peaking
Total Pump Storage		2,140	2,140			

Hydro						
	<u>Unit</u>	<u>Winter (MW)</u>	<u>Summer (MW)</u>	<u>Location</u>	<u>Fuel Type</u>	<u>Resource Type</u>
99 Islands	1	2.4	2.4	Blacksburg, S.C.	Hydro	Peaking
99 Islands	2	2.4	2.4	Blacksburg, S.C.	Hydro	Peaking
99 Islands	3	2.4	2.4	Blacksburg, S.C.	Hydro	Peaking
99 Islands	4	2.4	2.4	Blacksburg, S.C.	Hydro	Peaking
99 Islands	5	0	0	Blacksburg, S.C.	Hydro	Peaking
99 Islands	6	0	0	Blacksburg, S.C.	Hydro	Peaking
Bear Creek	1	9.5	9.5	Tuckasegee, N.C.	Hydro	Peaking
Bridgewater	1	15	15	Morganton, N.C.	Hydro	Peaking
Bridgewater	2	15	15	Morganton, N.C.	Hydro	Peaking
Bridgewater	3	1.5	1.5	Morganton, N.C.	Hydro	Peaking
Bryson City	1	0.4	0.4	Whittier, N.C.	Hydro	Peaking
Bryson City	2	0.5	0.5	Whittier, N.C.	Hydro	Peaking
Cedar Cliff	1	6.4	6.4	Tuckasegee, N.C.	Hydro	Peaking
Cedar Cliff	2	0.4	0.4	Tuckasegee, N.C.	Hydro	Peaking
Cedar Creek	1	15	15	Great Falls, S.C.	Hydro	Peaking
Cedar Creek	2	15	15	Great Falls, S.C.	Hydro	Peaking
Cedar Creek	3	15	15	Great Falls, S.C.	Hydro	Peaking
Cowans Ford	1	81	81	Stanley, N.C.	Hydro	Peaking
Cowans Ford	2	81	81	Stanley, N.C.	Hydro	Peaking
Cowans Ford	3	81	81	Stanley, N.C.	Hydro	Peaking
Cowans Ford	4	81	81	Stanley, N.C.	Hydro	Peaking
Dearborn	1	14	14	Great Falls, S.C.	Hydro	Peaking
Dearborn	2	14	14	Great Falls, S.C.	Hydro	Peaking
Dearborn	3	14	14	Great Falls, S.C.	Hydro	Peaking
Fishing Creek	1	11	11	Great Falls, S.C.	Hydro	Peaking
Fishing Creek	2	10	10	Great Falls, S.C.	Hydro	Peaking
Fishing Creek	3	10	10	Great Falls, S.C.	Hydro	Peaking
Fishing Creek	4	11	11	Great Falls, S.C.	Hydro	Peaking
Fishing Creek	5	8	8	Great Falls, S.C.	Hydro	Peaking
Franklin	1	0.5	0.5	Franklin, N.C.	Hydro	Peaking
Franklin	2	0.5	0.5	Franklin, N.C.	Hydro	Peaking
Gaston Shoals	3	0	0	Blacksburg, S.C.	Hydro	Peaking
Gaston Shoals	4	2	2	Blacksburg, S.C.	Hydro	Peaking
Gaston Shoals	5	2	2	Blacksburg, S.C.	Hydro	Peaking
Gaston Shoals	6	2	2	Blacksburg, S.C.	Hydro	Peaking

Hydro (cont.)						
	<u>Unit</u>	<u>Winter (MW)</u>	<u>Summer (MW)</u>	<u>Location</u>	<u>Fuel Type</u>	<u>Resource Type</u>
Great Falls	1	3	3	Great Falls, S.C.	Hydro	Peaking
Great Falls	2	3	3	Great Falls, S.C.	Hydro	Peaking
Great Falls	3	0	0	Great Falls, S.C.	Hydro	Peaking
Great Falls	4	0	0	Great Falls, S.C.	Hydro	Peaking
Great Falls	5	3	3	Great Falls, S.C.	Hydro	Peaking
Great Falls	6	3	3	Great Falls, S.C.	Hydro	Peaking
Great Falls	7	0	0	Great Falls, S.C.	Hydro	Peaking
Great Falls	8	0	0	Great Falls, S.C.	Hydro	Peaking
Keowee	1	76	76	Seneca, S.C.	Hydro	Peaking
Keowee	2	76	76	Seneca, S.C.	Hydro	Peaking
Lookout Shoals	1	9	9	Statesville, N.C.	Hydro	Peaking
Lookout Shoals	2	9	9	Statesville, N.C.	Hydro	Peaking
Lookout Shoals	3	9	9	Statesville, N.C.	Hydro	Peaking
Mission	1	0.6	0.6	Murphy, N.C.	Hydro	Peaking
Mission	2	0.6	0.6	Murphy, N.C.	Hydro	Peaking
Mission	3	0.6	0.6	Murphy, N.C.	Hydro	Peaking
Mountain Island	1	14	14	Mount Holly, N.C.	Hydro	Peaking
Mountain Island	2	14	14	Mount Holly, N.C.	Hydro	Peaking
Mountain Island	3	17	17	Mount Holly, N.C.	Hydro	Peaking
Mountain Island	4	17	17	Mount Holly, N.C.	Hydro	Peaking
Nantahala	1	50	50	Topton, N.C.	Hydro	Peaking
Oxford	1	20	20	Conover, N.C.	Hydro	Peaking
Oxford	2	20	20	Conover, N.C.	Hydro	Peaking
Queens Creek	1	1.4	1.4	Topton, N.C.	Hydro	Peaking
Rhodhiss	1	9.5	9.5	Rhodhiss, N.C.	Hydro	Peaking
Rhodhiss	2	11.5	11.5	Rhodhiss, N.C.	Hydro	Peaking
Rhodhiss	3	12.4	12.4	Rhodhiss, N.C.	Hydro	Peaking
Rocky Creek	1	0	0	Great Falls, S.C.	Hydro	Peaking
Rocky Creek	2	0	0	Great Falls, S.C.	Hydro	Peaking
Rocky Creek	3	0	0	Great Falls, S.C.	Hydro	Peaking
Rocky Creek	4	0	0	Great Falls, S.C.	Hydro	Peaking

Hydro (cont.)						
	<u>Unit</u>	<u>Winter (MW)</u>	<u>Summer (MW)</u>	<u>Location</u>	<u>Fuel Type</u>	<u>Resource Type</u>
Rocky Creek	5	0	0	Great Falls, S.C.	Hydro	Peaking
Rocky Creek	6	0	0	Great Falls, S.C.	Hydro	Peaking
Rocky Creek	7	0	0	Great Falls, S.C.	Hydro	Peaking
Rocky Creek	8	0	0	Great Falls, S.C.	Hydro	Peaking
Tuxedo	1	3.2	3.2	Flat Rock, N.C.	Hydro	Peaking
Tuxedo	2	3.2	3.2	Flat Rock, N.C.	Hydro	Peaking
Tennessee Creek	1	9.8	9.8	Tuckasegee, N.C.	Hydro	Peaking
Thorpe	1	19.7	19.7	Tuckasegee, N.C.	Hydro	Peaking
Tuckasegee	1	2.5	2.5	Tuckasegee, N.C.	Hydro	Peaking
Wateree	1	17	17	Ridgeway, S.C.	Hydro	Peaking
Wateree	2	17	17	Ridgeway, S.C.	Hydro	Peaking
Wateree	3	17	17	Ridgeway, S.C.	Hydro	Peaking
Wateree	4	17	17	Ridgeway, S.C.	Hydro	Peaking
Wateree	5	17	17	Ridgeway, S.C.	Hydro	Peaking
Wylie	1	18	18	Fort Mill, S.C.	Hydro	Peaking
Wylie	2	18	18	Fort Mill, S.C.	Hydro	Peaking
Wylie	3	18	18	Fort Mill, S.C.	Hydro	Peaking
Wylie	4	18	18	Fort Mill, S.C.	Hydro	Peaking
Total NC		627.7	627.7			
Total SC		473.6	473.6			
Total Hydro		1,101.3	1,101.3			

Solar						
		<u>Winter (MW)</u>	<u>Summer (MW)</u>	<u>Location</u>	<u>Fuel Type</u>	<u>Resource Type</u>
NC Solar		4.19	38.6	N.C.	Solar	Intermittent

Nuclear						
	Unit	Winter (MW)	Summer (MW)	Location	Fuel Type	Resource Type
McGuire	1	1,199.0	1,158.0	Huntersville, N.C.	Nuclear	Base
McGuire	2	1,187.2	1,157.6	Huntersville, N.C.	Nuclear	Base
Catawba	1	1,198.7	1,160.1	York, S.C.	Nuclear	Base
Catawba	2	1,179.8	1,150.1	York, S.C.	Nuclear	Base
Oconee	1	865	847	Seneca, S.C.	Nuclear	Base
Oconee	2	872	848	Seneca, S.C.	Nuclear	Base
Oconee	3	881	859	Seneca, S.C.	Nuclear	Base
Total NC		2,386.2	2,315.6			
Total SC		4,996.5	4,864.2			
Total Nuclear		7,382.7	7,179.8			

Total Generation Capability		
	Winter Capacity (MW)	Summer Capacity (MW)
TOTAL DEC SYSTEM - N.C.	13,903	13,264
TOTAL DEC SYSTEM – S.C.	8,441	8,125
TOTAL DEC SYSTEM	22,344	21,389

Note a: Unit information is provided by State, but resources are dispatched on a system-wide basis.

Note b: Summer and winter capability does not take into account reductions due to future environmental emission controls.

Note c: Catawba Units 1 and 2 capacity reflects 100% of the station's capability, and does not factor in the North Carolina Municipal Power Agency #1's (NCMPA#1) decision to sell or utilize its 832 MW retained ownership in Catawba.

Note d: The Catawba units' multiple owners and their effective ownership percentages are:

Catawba Owner	Percent Of Ownership
Duke Energy Carolinas	19.246%
North Carolina Electric Membership Corporation (NCEMC)	30.754%
NCMPA#1	37.5%
PMPA	12.5%

Planned Upgrades			
<u>Unit</u>	<u>Date</u>	<u>Winter MW</u>	<u>Summer MW</u>
None			

Planned Additions			
<u>Unit</u>	<u>Date</u>	<u>Winter MW</u>	<u>Summer MW</u>
Lee CC ^a	Nov 2017	783	753
Bad Creek 1	June 2023	46.4	46.4
Bad Creek 2	June 2020	46.4	46.4
Bad Creek 3	June 2021	46.4	46.4
Bad Creek 4	June 2022	46.4	46.4
Clemson CHP ^b	Nov 2019	15	15

Note a: Includes 100 MW ownership by NCEMC.

Note b: There is an additional placeholder for CHP projects in 2022.

Retirements				
<u>Unit & Plant Name</u>	<u>Location</u>	<u>Capacity (MW) Winter / Summer</u>	<u>Fuel Type</u>	<u>Expected Retirement Date</u>
Buck 3 ^a	Salisbury, N.C.	76 / 75	Coal	05/15/11
Buck 4 ^a	Salisbury, N.C.	39 / 38	Coal	05/15/11
Cliffside 1 ^a	Cliffside, N.C.	39 / 38	Coal	10/1/11
Cliffside 2 ^a	Cliffside, N.C.	39 / 38	Coal	10/1/11
Cliffside 3 ^a	Cliffside, N.C.	62 / 61	Coal	10/1/11
Cliffside 4 ^a	Cliffside, N.C.	62 / 61	Coal	10/1/11
Dan River 1 ^a	Eden, N.C.	69 / 67	Coal	04/1/12
Dan River 2 ^a	Eden, N.C.	69 / 67	Coal	04/1/12
Dan River 3 ^a	Eden, N.C.	145 / 142	Coal	04/1/12
Buzzard Roost 6C ^b	Chappels, S.C.	22 / 22	Combustion Turbine	10/1/12
Buzzard Roost 7C ^b	Chappels, S.C.	22 / 22	Combustion Turbine	10/1/12
Buzzard Roost 8C	Chappels, S.C.	22 / 22	Combustion Turbine	10/1/12
Buzzard Roost 9C ^b	Chappels, S.C.	22 / 22	Combustion Turbine	10/1/12

Retirements (cont.)				
<u>Unit & Plant Name</u>	<u>Location</u>	<u>Capacity (MW)</u> <u>Winter / Summer</u>	<u>Fuel Type</u>	<u>Expected Retirement Date</u>
Buzzard Roost 10C ^b	Chappels, S.C.	18 / 18	Combustion Turbine	10/1/12
Buzzard Roost 11C ^b	Chappels, S.C.	18 / 18	Combustion Turbine	10/1/12
Buzzard Roost 12C ^b	Chappels, S.C.	18 / 18	Combustion Turbine	10/1/12
Buzzard Roost 13C ^b	Chappels, S.C.	18 / 18	Combustion Turbine	10/1/12
Buzzard Roost 14C ^b	Chappels, S.C.	18 / 18	Combustion Turbine	10/1/12
Buzzard Roost 15C ^b	Chappels, S.C.	18 / 18	Combustion Turbine	10/1/12
Riverbend 8C ^b	Mt. Holly, N.C.	0 / 0	Combustion Turbine	10/1/12
Riverbend 9C ^b	Mt. Holly, N.C.	30 / 22	Combustion Turbine	10/1/12
Riverbend 10C ^b	Mt. Holly, N.C.	30 / 22	Combustion Turbine	10/1/12
Riverbend 11C ^b	Mt. Holly, N.C.	30 / 20	Combustion Turbine	10/1/12
Buck 7C ^b	Spencer, N.C.	30 / 25	Combustion Turbine	10/1/12
Buck 8C ^b	Spencer, N.C.	30 / 25	Combustion Turbine	10/1/12
Buck 9C ^b	Spencer, N.C.	15 / 12	Combustion Turbine	10/1/12
Dan River 4C ^b	Eden, N.C.	0 / 0	Combustion Turbine	10/1/12
Dan River 5C ^b	Eden, N.C.	31 / 24	Combustion Turbine	10/1/12
Dan River 6C ^b	Eden, N.C.	31 / 24	Combustion Turbine	10/1/12
Riverbend 4 ^a	Mt. Holly, N.C.	96 / 94	Coal	04/1/13
Riverbend 5 ^a	Mt. Holly, N.C.	96 / 94	Coal	04/1/13
Riverbend 6 ^c	Mt. Holly, N.C.	136 / 133	Coal	04/1/13
Riverbend 7 ^c	Mt. Holly, N.C.	136 / 133	Coal	04/1/13
Buck 5 ^c	Spencer, N.C.	131 / 128	Coal	04/1/13
Buck 6 ^c	Spencer, N.C.	131 / 128	Coal	04/1/13
Lee 1 ^d	Pelzer, S.C.	100 / 100	Coal	11/6/14
Lee 2 ^d	Pelzer, S.C.	102 / 100	Coal	11/6/14
Lee 3 ^e	Pelzer, S.C.	170 / 170	Coal	05/12/15*
	Total	2121 / 2037 MW		

*converted to NG

Note a: Retirement assumptions associated with the conditions in the NCUC Order in Docket No. E-7, Sub 790, granting a CPCN to build Cliffside Unit 6.

Note b: The old fleet combustion turbines retirement dates were accelerated in 2009 based on derates, availability of replacement parts and the general condition of the remaining units.

Note c: The decision was made to retire Buck 5 & 6 and Riverbend 6 & 7 early on April 1, 2013. The original expected retirement date was April 15, 2015.

Note d: Lee Steam Units 1 and 2 were retired November 6, 2014.

Note e: The conversion of the Lee 3 coal unit to a natural gas unit was effective March 12, 2015.

Planning Assumptions – Unit Retirements					
<u>Unit & Plant Name</u>	<u>Location</u>	<u>Winter Capacity (MW)</u>	<u>Summer Capacity (MW)</u>	<u>Fuel Type</u>	<u>Expected Retirement</u>
Allen 1 ^a	Belmont, NC	167	162	Coal	12/2024
Allen 2 ^a	Belmont, NC	167	162	Coal	12/2024
Allen 3 ^a	Belmont, NC	270	258	Coal	12/2024
Allen 4 ^a	Belmont, NC	267	257	Coal	12/2028
Allen 5 ^a	Belmont, NC	259	259	Coal	12/2028
Lee 3	Pelzer, SC	173	170	NG	12/2030
Total		1,303	1,268		

Note a: Retirement assumptions are for planning purposes only; dates are based on useful life expectations of the unit.

Note b: Nuclear retirements for planning purposes are based on the end of current operating license.

10. NON-UTILITY GENERATION & WHOLESALE

The following information describes the tables included in this chapter.

Wholesale Sales Contracts

This table includes wholesale sales contracts that are included in the 2017 Load Forecast. This information is **CONFIDENTIAL**.

Wholesale Purchase Contracts

This table includes all wholesale purchase contracts that are included as resources in the 2017 IRP. This information is **CONFIDENTIAL**.

Non-Utility Generation Contracts

This table includes all Non-Utility Generation contracts signed since June 1, 2014, as this was the date utilized in the tables in Appendix H in the 2016 IRP. This list is up to date as of June 30, 2017. This information is confidential, so the customer names have been redacted.

Table 10-A Wholesale Sales Contracts (CONFIDENTIAL)

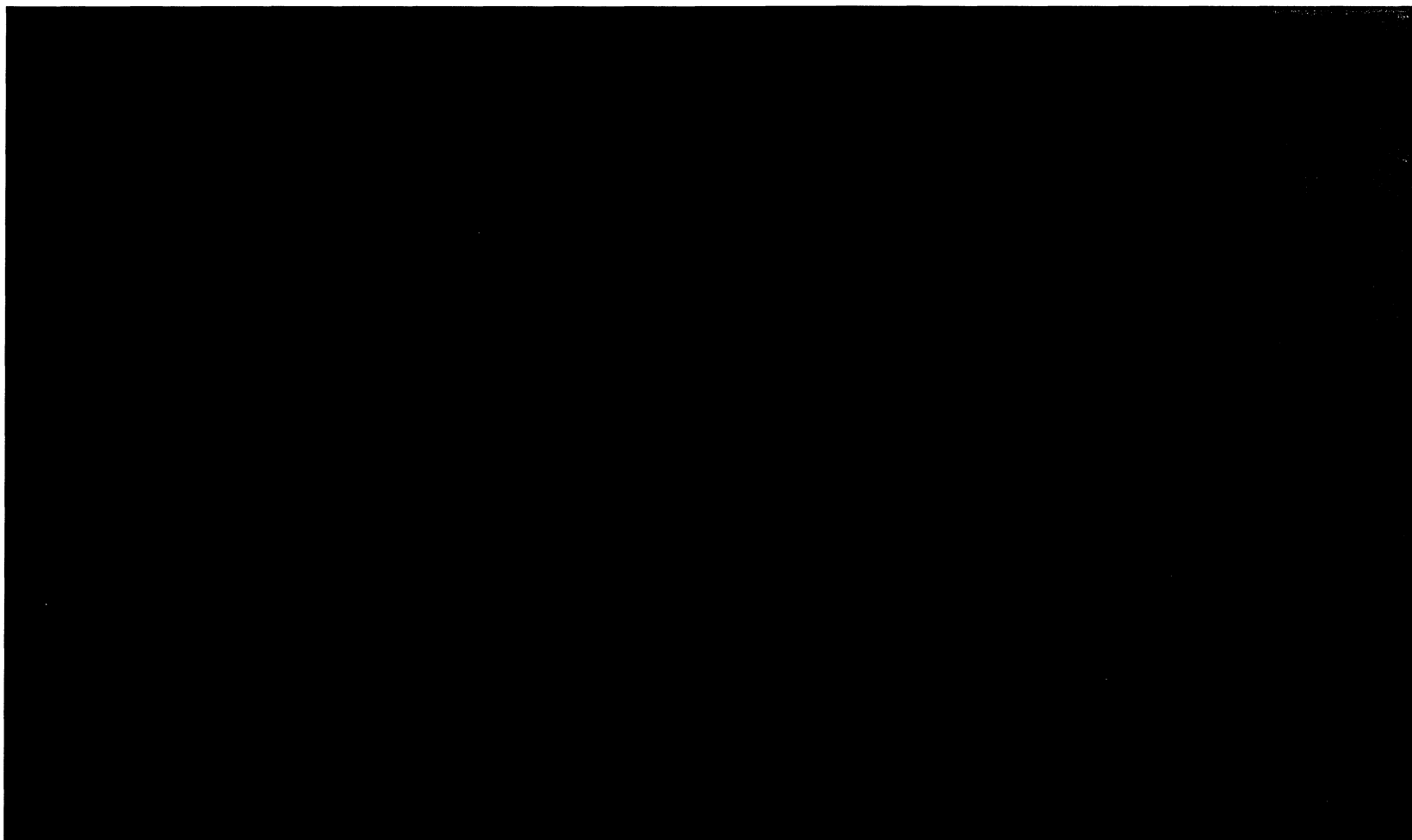


Table 10-B Firm Wholesale Purchased Power Contracts (CONFIDENTIAL)

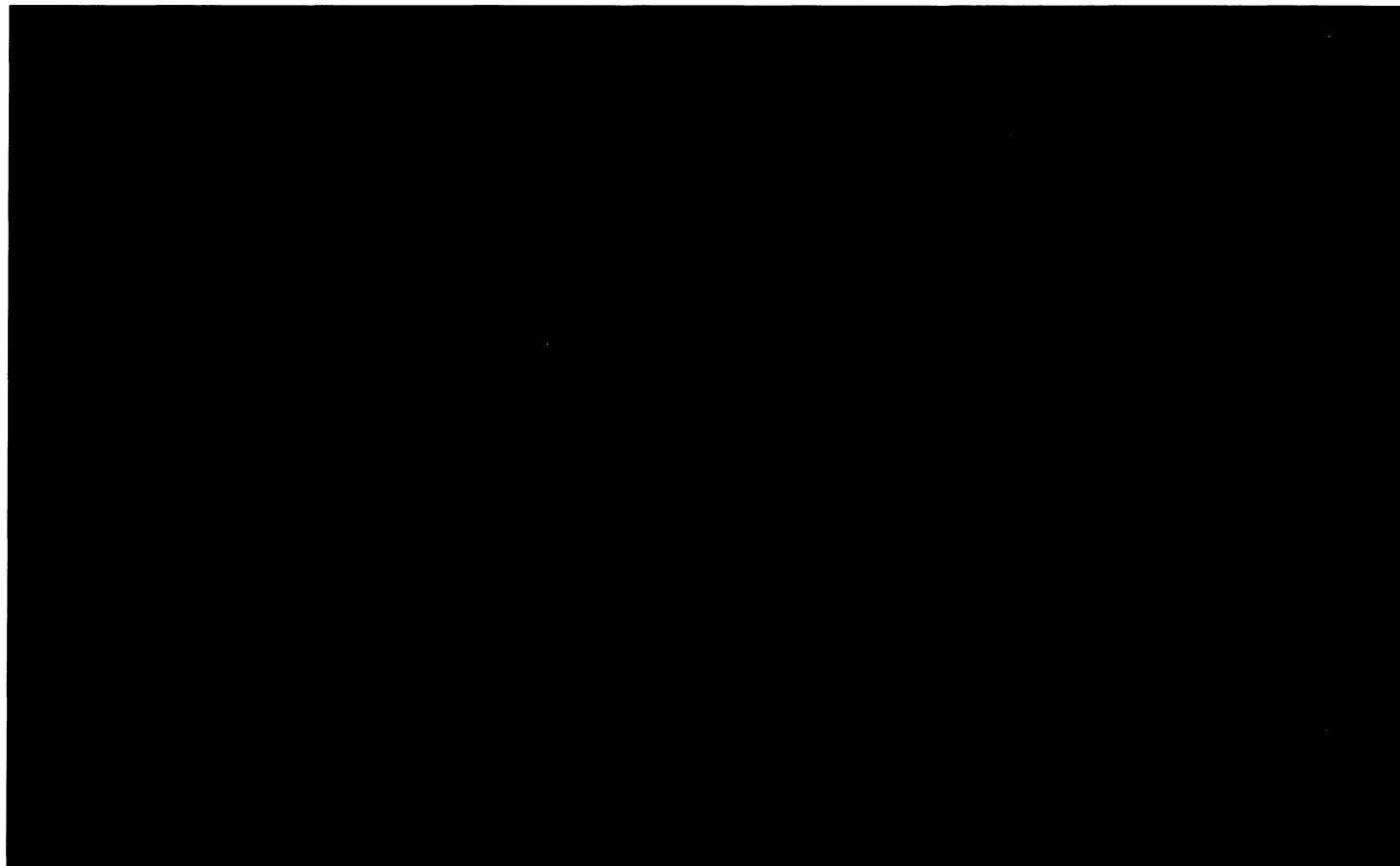


Table 10-C Non-Utility Generation

<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
North Carolina Generators:						
Facility 1	High Point	NC	Solar	Intermediate	Yes	8.813
Facility 2	High Point	NC	Solar	Intermediate	Yes	8.813
Facility 3	High Point	NC	Solar	Intermediate	Yes	8.904
Facility 4	Charlotte	NC	Solar	Intermediate	Yes	6.119
Facility 5	High Point	NC	Solar	Intermediate	Yes	8.813
Facility 6	Elkin	NC	Solar	Intermediate	Yes	5.97
Facility 7	Salisbury	NC	Solar	Intermediate	Yes	7.134
Facility 8	Harrisburg	NC	Solar	Intermediate	Yes	5.301
Facility 9	Winston-Salem	NC	Solar	Intermediate	Yes	2.793
Facility 10	Stanley	NC	Solar	Intermediate	Yes	6.475
Facility 11	Brevard	NC	Solar	Intermediate	Yes	4.366
Facility 12	Chapel Hill	NC	Solar	Intermediate	Yes	8.379
Facility 13	Hendersonville	NC	Solar	Intermediate	Yes	6.65
Facility 14	Hendersonville	NC	Solar	Intermediate	Yes	10.25
Facility 15	Chapel Hill	NC	Solar	Intermediate	Yes	3
Facility 16	Troutman	NC	Solar	Intermediate	Yes	260
Facility 17	Wilkesboro	NC	Solar	Intermediate	Yes	4.8
Facility 18	Wilkesboro	NC	Solar	Intermediate	Yes	1.92
Facility 19	Lincolnton	NC	Solar	Intermediate	Yes	75
Facility 20	Lincolnton	NC	Solar	Intermediate	Yes	75
Facility 21	Forest City	NC	Solar	Intermediate	Yes	4.458
Facility 22	Randleman	NC	Solar	Intermediate	Yes	5
Facility 23	Hendersonville	NC	Solar	Intermediate	Yes	4.219
Facility 24	Mount Holly	NC	Solar	Intermediate	Yes	3.254
Facility 25	Hillsborough	NC	Solar	Intermediate	Yes	4
Facility 26	Nebo	NC	Solar	Intermediate	Yes	8.023
Facility 27	Winston-Salem	NC	Solar	Intermediate	Yes	5.421
Facility 28	Charlotte	NC	Solar	Intermediate	Yes	170
Facility 29	Durham	NC	Solar	Intermediate	Yes	5.433
Facility 30	Durham	NC	Solar	Intermediate	Yes	4
Facility 31	Greensboro	NC	Solar	Intermediate	Yes	258

Table 10-C (cont.)

<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 32	Charlotte	NC	Solar	Intermediate	Yes	30
Facility 33	Greensboro	NC	Solar	Intermediate	Yes	3.907
Facility 34	Kannapolis	NC	Solar	Intermediate	Yes	10.45
Facility 35	Harrisburg	NC	Solar	Intermediate	Yes	4.348
Facility 36	Chapel Hill	NC	Solar	Intermediate	Yes	7.1
Facility 37	Chapel Hill	NC	Solar	Intermediate	Yes	2.8
Facility 38	Graham	NC	Solar	Intermediate	Yes	5
Facility 39	Altamahaw	NC	Hydroelectric	Baseload	Yes	240
Facility 40	Winston-Salem	NC	Solar	Intermediate	Yes	3.19
Facility 41	Charlotte	NC	Solar	Intermediate	Yes	8.493
Facility 42	Winston-Salem	NC	Solar	Intermediate	Yes	6
Facility 43	Black Mountain	NC	Solar	Intermediate	Yes	3.42
Facility 44	Durham	NC	Solar	Intermediate	Yes	6
Facility 45	Wilkesboro	NC	Solar	Intermediate	Yes	3.44
Facility 46	Durham	NC	Solar	Intermediate	Yes	3.8
Facility 47	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 48	Denver	NC	Solar	Intermediate	Yes	2.618
Facility 49	Indian Trail	NC	Solar	Intermediate	Yes	60
Facility 50	Greensboro	NC	Solar	Intermediate	Yes	68
Facility 51	Pineville	NC	Solar	Intermediate	Yes	68
Facility 52	High Point	NC	Solar	Intermediate	Yes	60
Facility 53	Harrisburg	NC	Solar	Intermediate	Yes	68
Facility 54	Salisbury	NC	Solar	Intermediate	Yes	312
Facility 55	Statesville	NC	Solar	Intermediate	Yes	60
Facility 56	Salisbury	NC	Solar	Intermediate	Yes	696
Facility 57	Salisbury	NC	Solar	Intermediate	Yes	60
Facility 58	Charlotte	NC	Solar	Intermediate	Yes	48
Facility 59	Denver	NC	Solar	Intermediate	Yes	72
Facility 60	Franklin	NC	Solar	Intermediate	Yes	1.943
Facility 61	Mebane	NC	Solar	Intermediate	Yes	8
Facility 62	liberty	NC	Solar	Intermediate	Yes	9
Facility 63	Shelby	NC	Solar	Intermediate	Yes	1.72
Facility 64	Chapel Hill	NC	Solar	Intermediate	Yes	5

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 65	Charlotte	NC	Solar	Intermediate	Yes	3.696
Facility 66	Charlotte	NC	Solar	Intermediate	Yes	3.421
Facility 67	Durham	NC	Solar	Intermediate	Yes	7.296
Facility 68	Sherrills Ford	NC	Solar	Intermediate	Yes	6.5
Facility 69	Fletcher	NC	Solar	Intermediate	Yes	95
Facility 70	Charlotte	NC	Solar	Intermediate	Yes	3.502
Facility 71	Carrboro	NC	Solar	Intermediate	Yes	5
Facility 72	Connelly Springs	NC	Solar	Intermediate	Yes	2.311
Facility 73	High Point	NC	Solar	Intermediate	Yes	6.658
Facility 74	High Point	NC	Solar	Intermediate	Yes	10.343
Facility 75	Graham	NC	Solar	Intermediate	Yes	5.151
Facility 76	Gold Hill	NC	Solar	Intermediate	Yes	4.704
Facility 77	Gold Hill	NC	Solar	Intermediate	Yes	4.704
Facility 78	Winston-Salem	NC	Solar	Intermediate	Yes	3.57
Facility 79	Durham	NC	Solar	Intermediate	Yes	3.6
Facility 80	Mebane	NC	Solar	Intermediate	Yes	5.283
Facility 81	Charlotte	NC	Solar	Intermediate	Yes	3.28
Facility 82	Charlotte	NC	Solar	Intermediate	Yes	2.85
Facility 83	Charlotte	NC	Solar	Intermediate	Yes	4.925
Facility 84	Mooresville	NC	Solar	Intermediate	Yes	4.52
Facility 85	Winston-Salem	NC	Solar	Intermediate	Yes	2.857
Facility 86	Westfield	NC	Solar	Intermediate	Yes	5
Facility 87	Chapel Hill	NC	Solar	Intermediate	Yes	4
Facility 88	Thomasville	NC	Solar	Intermediate	Yes	4.297
Facility 89	Forest City	NC	Solar	Intermediate	Yes	3000
Facility 90	Chapel Hill	NC	Solar	Intermediate	Yes	2.75
Facility 91	Harrisburg	NC	Solar	Intermediate	Yes	4.3
Facility 92	Chapel Hill	NC	Solar	Intermediate	Yes	3.8
Facility 93	Mooresville	NC	Solar	Intermediate	Yes	7.37
Facility 94	Huntersville	NC	Solar	Intermediate	Yes	0.86
Facility 95	Nebo	NC	Solar	Intermediate	Yes	3.8
Facility 96	Kannapolis	NC	Solar	Intermediate	Yes	9.476
Facility 97	Greensboro	NC	Solar	Intermediate	Yes	3.614

Table 10-C (cont.)

<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 98	Winston-Salem	NC	Solar	Intermediate	Yes	19.609
Facility 99	Hillsborough	NC	Solar	Intermediate	Yes	5
Facility 100	Hendersonville	NC	Solar	Intermediate	Yes	2.1
Facility 101	Summerfield	NC	Solar	Intermediate	Yes	5
Facility 102	Charlotte	NC	Solar	Intermediate	Yes	1.92
Facility 103	Durham	NC	Solar	Intermediate	Yes	1.92
Facility 104	Chapel Hill	NC	Solar	Intermediate	Yes	4.258
Facility 105	Charlotte	NC	Solar	Intermediate	Yes	1.72
Facility 106	Durham	NC	Solar	Intermediate	Yes	2.5
Facility 107	Charlotte	NC	Solar	Intermediate	Yes	6
Facility 108	Summerfield	NC	Solar	Intermediate	Yes	7
Facility 109	Sylva	NC	Solar	Intermediate	Yes	7.68
Facility 110	Durham	NC	Solar	Intermediate	Yes	2.5
Facility 111	Durham	NC	Solar	Intermediate	Yes	3.465
Facility 112	Charlotte	NC	Solar	Intermediate	Yes	5
Facility 113	Kannapolis	NC	Solar	Intermediate	Yes	6
Facility 114	Winston-Salem	NC	Solar	Intermediate	Yes	5.25
Facility 115	Andrews	NC	Solar	Intermediate	Yes	9.6
Facility 116	Charlotte	NC	Solar	Intermediate	Yes	3.8
Facility 117	Wilkesboro	NC	Solar	Intermediate	Yes	7.5
Facility 118	Whittier	NC	Solar	Intermediate	Yes	5.469
Facility 119	Newton	NC	Solar	Intermediate	Yes	5000
Facility 120	Bessemer City	NC	Solar	Intermediate	Yes	2.58
Facility 121	Mooresville	NC	Solar	Intermediate	Yes	3.51
Facility 122	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 123	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 124	Chapel Hill	NC	Solar	Intermediate	Yes	5.299
Facility 125	Chapel Hill	NC	Solar	Intermediate	Yes	4.59
Facility 126	TRINITY	NC	Solar	Intermediate	Yes	0.86
Facility 127	Cornelius	NC	Solar	Intermediate	Yes	5.25
Facility 128	Winston-Salem	NC	Solar	Intermediate	Yes	3
Facility 129	Matthews	NC	Solar	Intermediate	Yes	0.86
Facility 130	Winston-Salem	NC	Solar	Intermediate	Yes	4

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 131	Columbus	NC	Solar	Intermediate	Yes	6
Facility 132	Durham	NC	Solar	Intermediate	Yes	5
Facility 133	Greensboro	NC	Solar	Intermediate	Yes	4.3
Facility 134	Mooreville	NC	Solar	Intermediate	Yes	16.867
Facility 135	Rockwell	NC	Solar	Intermediate	Yes	2.45
Facility 136	Charlotte	NC	Solar	Intermediate	Yes	3.929
Facility 137	Archdale	NC	Solar	Intermediate	Yes	2.88
Facility 138	Charlotte	NC	Solar	Intermediate	Yes	3.5
Facility 139	Durham	NC	Solar	Intermediate	Yes	3
Facility 140	Gastonia	NC	Solar	Intermediate	Yes	6.09
Facility 141	Gastonia	NC	Solar	Intermediate	Yes	14
Facility 142	Charlotte	NC	Solar	Intermediate	Yes	4.525
Facility 143	Greensboro	NC	Solar	Intermediate	Yes	5.371
Facility 144	Claremont	NC	Solar	Intermediate	Yes	17500
Facility 145	Conover	NC	Solar	Intermediate	Yes	20000
Facility 146	Maiden	NC	Solar	Intermediate	Yes	20000
Facility 147	Maiden	NC	Biogas	Intermediate	Yes	10000
Facility 148	Newton	NC	Solar	Intermediate	Yes	4950
Facility 149	Kernersville	NC	Solar	Intermediate	Yes	7.508
Facility 150	Durham	NC	Solar	Intermediate	Yes	4
Facility 151	Mooreville	NC	Solar	Intermediate	Yes	10
Facility 152	Mooreville	NC	Solar	Intermediate	Yes	10
Facility 153	Mount Airy	NC	Solar	Intermediate	Yes	3500
Facility 154	Chapel Hill	NC	Solar	Intermediate	Yes	3.6
Facility 155	Greensboro	NC	Solar	Intermediate	Yes	3.858
Facility 156	Claremont	NC	Solar	Intermediate	Yes	5000
Facility 157	Walkertown	NC	Solar	Intermediate	Yes	4.455
Facility 158	Chapel Hill	NC	Solar	Intermediate	Yes	9.458
Facility 159	Harrisburg	NC	Solar	Intermediate	Yes	6.298
Facility 160	Franklin	NC	Wind	Intermediate	Yes	4
Facility 161	Charlotte	NC	Solar	Intermediate	Yes	1.72
Facility 162	Charlotte	NC	Solar	Intermediate	Yes	8.376
Facility 163	Chapel Hill	NC	Solar	Intermediate	Yes	10

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 164	Hamptonville	NC	Solar	Intermediate	Yes	4000
Facility 165	Charlotte	NC	Solar	Intermediate	Yes	2.676
Facility 166	Harrisburg	NC	Solar	Intermediate	Yes	5
Facility 167	Durham	NC	Solar	Intermediate	Yes	3
Facility 168	Dobson	NC	Solar	Intermediate	Yes	9.202
Facility 169	Catawba	NC	Solar	Intermediate	Yes	2.568
Facility 170	Mebane	NC	Solar	Intermediate	Yes	4.515
Facility 171	Shelby	NC	Solar	Intermediate	Yes	3000
Facility 172	Gastonia	NC	Solar	Intermediate	Yes	4998
Facility 173	Shelby	NC	Solar	Intermediate	Yes	19360
Facility 174	Chapel Hill	NC	Solar	Intermediate	Yes	4
Facility 175	Charlotte	NC	Solar	Intermediate	Yes	3
Facility 176	Claremont	NC	Solar	Intermediate	Yes	5.829
Facility 177	Chapel Hill	NC	Solar	Intermediate	Yes	4.678
Facility 178	Charlotte	NC	Solar	Intermediate	Yes	5
Facility 179	Burlington	NC	Solar	Intermediate	Yes	13.933
Facility 180	Burlington	NC	Solar	Intermediate	Yes	11.062
Facility 181	Charlotte	NC	Solar	Intermediate	Yes	2.467
Facility 182	Lenoir	NC	Solar	Intermediate	Yes	5.031
Facility 183	Winston-Salem	NC	Solar	Intermediate	Yes	4.126
Facility 184	Winston-Salem	NC	Solar	Intermediate	Yes	15.226
Facility 185	Vale	NC	Solar	Intermediate	Yes	11.486
Facility 186	Chapel Hill	NC	Solar	Intermediate	Yes	10.41
Facility 187	Charlotte	NC	Solar	Intermediate	Yes	19.68
Facility 188	Chapel Hill	NC	Solar	Intermediate	Yes	12.581
Facility 189	Hillsborough	NC	Solar	Intermediate	Yes	6
Facility 190	Brevard	NC	Solar	Intermediate	Yes	5
Facility 191	Caroleen	NC	Hydroelectric	Baseload	Yes	325
Facility 192	Charlotte	NC	Solar	Intermediate	Yes	3
Facility 193	Durham	NC	Solar	Intermediate	Yes	5.75
Facility 194	Davidson	NC	Solar	Intermediate	Yes	1.9
Facility 195	Durham	NC	Solar	Intermediate	Yes	5
Facility 196	Gastonia	NC	Solar	Intermediate	Yes	9.283

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 197	Charlotte	NC	Solar	Intermediate	Yes	4.418
Facility 198	Charlotte	NC	Solar	Intermediate	Yes	3.614
Facility 199	Jamestown	NC	Solar	Intermediate	Yes	4.341
Facility 200	Graham	NC	Solar	Intermediate	Yes	4.64
Facility 201	Hillsborough	NC	Solar	Intermediate	Yes	8.043
Facility 202	Harmony	NC	Solar	Intermediate	Yes	8.042
Facility 203	Durham	NC	Solar	Intermediate	Yes	2.809
Facility 204	Moravian Falls	NC	Other	Intermediate	Yes	(blank)
Facility 205	Durham	NC	Solar	Intermediate	Yes	5.889
Facility 206	Eden	NC	Solar	Intermediate	Yes	4.454
Facility 207	Lawndale	NC	Solar	Intermediate	Yes	10
Facility 208	Charlotte	NC	Solar	Intermediate	Yes	9.74
Facility 209	Charlotte	NC	Solar	Intermediate	Yes	1.44
Facility 210	Bryson City	NC	Solar	Intermediate	Yes	3
Facility 211	Hendersonville	NC	Solar	Intermediate	Yes	2.61
Facility 212	Clemmons	NC	Solar	Intermediate	Yes	9.178
Facility 213	Taylorsville	NC	Solar	Intermediate	Yes	5.511
Facility 214	Maiden	NC	Solar	Intermediate	Yes	7.454
Facility 215	Charlotte	NC	Solar	Intermediate	Yes	2.988
Facility 216	Kings Mountain	NC	Solar	Intermediate	Yes	3500
Facility 217	Durham	NC	Solar	Intermediate	Yes	5.043
Facility 218	Durham	NC	Solar	Intermediate	Yes	6.469
Facility 219	RTP	NC	Solar	Intermediate	Yes	15
Facility 220	Charlotte	NC	Solar	Intermediate	Yes	10.059
Facility 221	Lincolnton	NC	Solar	Intermediate	Yes	9.034
Facility 222	Chapel Hill	NC	Solar	Intermediate	Yes	3.49
Facility 223	Archdale	NC	Solar	Intermediate	Yes	28.8
Facility 224	Mooresboro	NC	Solar	Intermediate	Yes	4000
Facility 225	Hendersonville	NC	Solar	Intermediate	Yes	4.788
Facility 226	Charlotte	NC	Solar	Intermediate	Yes	30
Facility 227	Burlington	NC	Solar	Intermediate	Yes	30
Facility 228	Gastonia	NC	Solar	Intermediate	Yes	9.946
Facility 229	Lawndale	NC	Solar	Intermediate	Yes	4000

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 230	Durham	NC	Solar	Intermediate	Yes	3.25
Facility 231	High Point	NC	Solar	Intermediate	Yes	4
Facility 232	Conover	NC	Solar	Intermediate	Yes	4
Facility 233	Chapel Hill	NC	Solar	Intermediate	Yes	3
Facility 234	Kannapolis	NC	Solar	Intermediate	Yes	8.49
Facility 235	Durham	NC	Solar	Intermediate	Yes	5.438
Facility 236	Chapel Hill	NC	Solar	Intermediate	Yes	8.504
Facility 237	Durham	NC	Solar	Intermediate	Yes	2.205
Facility 238	Lenoir	NC	Solar	Intermediate	Yes	1104
Facility 239	Franklin	NC	Solar	Intermediate	Yes	2.75
Facility 240	China Grove	NC	Solar	Intermediate	Yes	4.68
Facility 241	Waxhaw	NC	Solar	Intermediate	Yes	4.622
Facility 242	Nebo	NC	Solar	Intermediate	Yes	9.889
Facility 243	Kernersville	NC	Solar	Intermediate	Yes	1.43
Facility 244	King	NC	Solar	Intermediate	Yes	3.028
Facility 245	Greensboro	NC	Solar	Intermediate	Yes	5.96
Facility 246	Julian	NC	Solar	Intermediate	Yes	5000
Facility 247	Charlotte	NC	Solar	Intermediate	Yes	6.534
Facility 248	Madison	NC	Solar	Intermediate	Yes	5.16
Facility 249	Chapel Hill	NC	Solar	Intermediate	Yes	6
Facility 250	Marshville	NC	Solar	Intermediate	Yes	5000
Facility 251	Charlotte	NC	Solar	Intermediate	Yes	12.488
Facility 252	Charlotte	NC	Solar	Intermediate	Yes	3.44
Facility 253	Charlotte	NC	Solar	Intermediate	Yes	4.842
Facility 254	Oak Ridge	NC	Solar	Intermediate	Yes	6.772
Facility 255	Gibsonville	NC	Solar	Intermediate	Yes	3000
Facility 256	Vale	NC	Solar	Intermediate	Yes	3.686
Facility 257	Hickory	NC	Solar	Intermediate	Yes	4.77
Facility 258	Hickory	NC	Solar	Intermediate	Yes	5
Facility 259	Gastonia	NC	Solar	Intermediate	Yes	1.29
Facility 260	Lawndale	NC	Solar	Intermediate	Yes	10.621
Facility 261	Rutherfordton	NC	Solar	Intermediate	Yes	3.064
Facility 262	Durham	NC	Solar	Intermediate	Yes	135

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 263	Charlotte	NC	Solar	Intermediate	Yes	8.788
Facility 264	Chapel Hill	NC	Solar	Intermediate	Yes	1.851
Facility 265	Hendersonville	NC	Solar	Intermediate	Yes	9
Facility 266	Harrisburg	NC	Solar	Intermediate	Yes	4.422
Facility 267	China Grove	NC	Solar	Intermediate	Yes	2.15
Facility 268	Brevard	NC	Solar	Intermediate	Yes	2.58
Facility 269	Elon	NC	Solar	Intermediate	Yes	20.43
Facility 270	Elon	NC	Solar	Intermediate	Yes	72.08
Facility 271	Elon	NC	Solar	Intermediate	Yes	40.85
Facility 272	Durham	NC	Solar	Intermediate	Yes	6.394
Facility 273	Denver	NC	Solar	Intermediate	Yes	6.175
Facility 274	Durham	NC	Solar	Intermediate	Yes	84
Facility 275	Stanley	NC	Solar	Intermediate	Yes	1560
Facility 276	Charlotte	NC	Solar	Intermediate	Yes	3.025
Facility 277	Greensboro	NC	Solar	Intermediate	Yes	7.775
Facility 278	Burlington	NC	Solar	Intermediate	Yes	0.74
Facility 279	Lincolnton	NC	Solar	Intermediate	Yes	1.35
Facility 280	Durham	NC	Solar	Intermediate	Yes	4.3
Facility 281	Waxhaw	NC	Solar	Intermediate	Yes	1.08
Facility 282	Kernersville	NC	Solar	Intermediate	Yes	2.668
Facility 283	Chapel Hill	NC	Solar	Intermediate	Yes	2.946
Facility 284	Andrews	NC	Solar	Intermediate	Yes	5.603
Facility 285	Lenoir	NC	Solar	Intermediate	Yes	6.257
Facility 286	Charlotte	NC	Solar	Intermediate	Yes	4.704
Facility 287	Mt. Holly	NC	Solar	Intermediate	Yes	6.434
Facility 288	Taylorsville	NC	Solar	Intermediate	Yes	2.054
Facility 289	Cullowhee	NC	Solar	Intermediate	Yes	3.75
Facility 290	Marion	NC	Solar	Intermediate	Yes	3.04
Facility 291	Durham	NC	Solar	Intermediate	Yes	5.122
Facility 292	Salisbury	NC	Solar	Intermediate	Yes	5.301
Facility 293	Concord	NC	Solar	Intermediate	Yes	2.821
Facility 294	Durham	NC	Solar	Intermediate	Yes	2.442
Facility 295	Hendersonville	NC	Solar	Intermediate	Yes	9.8

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 296	Chapel Hill	NC	Solar	Intermediate	Yes	1.438
Facility 297	Bostic	NC	Solar	Intermediate	Yes	2.422
Facility 298	Mooresville	NC	Solar	Intermediate	Yes	4.8
Facility 299	Old Fort	NC	Solar	Intermediate	Yes	7.54
Facility 300	Morganton	NC	Solar	Intermediate	Yes	1.72
Facility 301	Gastonia	NC	Solar	Intermediate	Yes	8.6
Facility 302	Lincolnton	NC	Solar	Intermediate	Yes	6.85
Facility 303	Chapel Hill	NC	Solar	Intermediate	Yes	1.485
Facility 304	Reidsville	NC	Solar	Intermediate	Yes	7.115
Facility 305	Midland	NC	Solar	Intermediate	Yes	2.318
Facility 306	Stoneville	NC	Solar	Intermediate	Yes	5.38
Facility 307	Hendersonville	NC	Solar	Intermediate	Yes	5.825
Facility 308	Durham	NC	Solar	Intermediate	Yes	2.7
Facility 309	Charlotte	NC	Solar	Intermediate	Yes	2.943
Facility 310	Hendersonville	NC	Solar	Intermediate	Yes	4.09
Facility 311	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 312	Mt Pleasant	NC	Solar	Intermediate	Yes	7
Facility 313	Brevard	NC	Solar	Intermediate	Yes	1.08
Facility 314	Hillsborough	NC	Solar	Intermediate	Yes	10.536
Facility 315	Greensboro	NC	Solar	Intermediate	Yes	4
Facility 316	Chapel Hill	NC	Solar	Intermediate	Yes	5
Facility 317	Greensboro	NC	Solar	Intermediate	Yes	3.36
Facility 318	Greensboro	NC	Solar	Intermediate	Yes	3.8
Facility 319	Chapel Hill	NC	Solar	Intermediate	Yes	3
Facility 320	Mount Pleasant	NC	Solar	Intermediate	Yes	6.08
Facility 321	Thomasville	NC	Solar	Intermediate	Yes	2.568
Facility 322	Charlotte	NC	Solar	Intermediate	Yes	6.678
Facility 323	Waxhaw	NC	Solar	Intermediate	Yes	7.372
Facility 324	Greensboro	NC	Solar	Intermediate	Yes	4.62
Facility 325	Robbinsville	NC	Solar	Intermediate	Yes	3.824
Facility 326	Mount Airy	NC	Solar	Intermediate	Yes	2.48
Facility 327	N. Wilkesboro	NC	Solar	Intermediate	Yes	3.595
Facility 328	Stony Point	NC	Solar	Intermediate	Yes	4.528

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 329	Midland	NC	Solar	Intermediate	Yes	8.323
Facility 330	Charlotte	NC	Solar	Intermediate	Yes	3.421
Facility 331	Chapel Hill	NC	Solar	Intermediate	Yes	3.564
Facility 332	Sylva	NC	Solar	Intermediate	Yes	8.282
Facility 333	Maiden	NC	Solar	Intermediate	Yes	3.028
Facility 334	King	NC	Solar	Intermediate	Yes	10.6
Facility 335	Hickory	NC	Solar	Intermediate	Yes	6.507
Facility 336	Pfafftown	NC	Solar	Intermediate	Yes	5.25
Facility 337	Thomasville	NC	Solar	Intermediate	Yes	3.44
Facility 338	Carrboro	NC	Solar	Intermediate	Yes	9.74
Facility 339	Durham	NC	Solar	Intermediate	Yes	7
Facility 340	Greensboro	NC	Solar	Intermediate	Yes	3.5
Facility 341	Morrisville	NC	Solar	Intermediate	Yes	5
Facility 342	Chapel Hill	NC	Solar	Intermediate	Yes	3.8
Facility 343	Gold Hill	NC	Solar	Intermediate	Yes	4000
Facility 344	Charlotte	NC	Solar	Intermediate	Yes	3.82
Facility 345	Chapel Hill	NC	Solar	Intermediate	Yes	13.755
Facility 346	Kernersville	NC	Solar	Intermediate	Yes	6.888
Facility 347	Charlotte	NC	Solar	Intermediate	Yes	8.561
Facility 348	Harrisburg	NC	Solar	Intermediate	Yes	4.418
Facility 349	Denver	NC	Solar	Intermediate	Yes	3.787
Facility 350	Durham	NC	Solar	Intermediate	Yes	4.821
Facility 351	Burlington	NC	Hydroelectric	Baseload	Yes	440
Facility 352	Colfax	NC	Solar	Intermediate	Yes	3.596
Facility 353	Reidsville	NC	Solar	Intermediate	Yes	5.651
Facility 354	Greensboro	NC	Solar	Intermediate	Yes	12.058
Facility 355	Taylorsville	NC	Solar	Intermediate	Yes	6.568
Facility 356	Connelly Springs	NC	Solar	Intermediate	Yes	7.127
Facility 357	Greensboro	NC	Solar	Intermediate	Yes	3.8
Facility 358	Chapel Hill	NC	Solar	Intermediate	Yes	3
Facility 359	Greensboro	NC	Solar	Intermediate	Yes	3
Facility 360	Durham	NC	Solar	Intermediate	Yes	23
Facility 361	Chapel Hill	NC	Solar	Intermediate	Yes	25

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 362	Durham	NC	Solar	Intermediate	Yes	4.396
Facility 363	Charlotte	NC	Solar	Intermediate	Yes	12.134
Facility 364	Durham	NC	Solar	Intermediate	Yes	2.328
Facility 365	Brevard	NC	Solar	Intermediate	Yes	2.746
Facility 366	Gold Hill	NC	Solar	Intermediate	Yes	4.304
Facility 367	Glenville	NC	Solar	Intermediate	Yes	5
Facility 368	Durham	NC	Solar	Intermediate	Yes	4
Facility 369	Huntersville	NC	Solar	Intermediate	Yes	6.697
Facility 370	Charlotte	NC	Solar	Intermediate	Yes	4.231
Facility 371	Charlotte	NC	Solar	Intermediate	Yes	6.3
Facility 372	Charlotte	NC	Solar	Intermediate	Yes	3.479
Facility 373	Charlotte	NC	Solar	Intermediate	Yes	7.68
Facility 374	Troutman	NC	Solar	Intermediate	Yes	2.97
Facility 375	Durham	NC	Solar	Intermediate	Yes	55.2
Facility 376	Waxhaw	NC	Solar	Intermediate	Yes	3.68
Facility 377	Lincolnton	NC	Solar	Intermediate	Yes	1.29
Facility 378	Hickory	NC	Solar	Intermediate	Yes	2.33
Facility 379	Matthews	NC	Solar	Intermediate	Yes	0.86
Facility 380	Denver	NC	Solar	Intermediate	Yes	3.787
Facility 381	Salisbury	NC	Solar	Intermediate	Yes	5.301
Facility 382	Durham	NC	Solar	Intermediate	Yes	6.45
Facility 383	Chapel Hill	NC	Solar	Intermediate	Yes	4
Facility 384	Ruffin	NC	Other	Intermediate	Yes	2.939
Facility 385	Hendersonville	NC	Solar	Intermediate	Yes	5.927
Facility 386	Troutman	NC	Solar	Intermediate	Yes	13
Facility 387	Winston-Salem	NC	Solar	Intermediate	Yes	2.8
Facility 388	Walnut Cove	NC	Solar	Intermediate	Yes	4000
Facility 389	Greensboro	NC	Solar	Intermediate	Yes	6.75
Facility 390	Elkin	NC	Solar	Intermediate	Yes	6
Facility 391	Carrboro	NC	Solar	Intermediate	Yes	2
Facility 392	Durham	NC	Solar	Intermediate	Yes	6.72
Facility 393	Ellenboro	NC	Solar	Intermediate	Yes	3.5
Facility 394	Carrboro	NC	Solar	Intermediate	Yes	5

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 395	Greensboro	NC	Solar	Intermediate	Yes	5.175
Facility 396	Thomasville	NC	Solar	Intermediate	Yes	4.025
Facility 397	Carrboro	NC	Solar	Intermediate	Yes	3.527
Facility 398	Franklin	NC	Solar	Intermediate	Yes	2.5
Facility 399	Salisbury	NC	Solar	Intermediate	Yes	157
Facility 400	Newton	NC	Landfill Gas	Intermediate	Yes	4000
Facility 401	Salisbury	NC	Solar	Intermediate	Yes	598
Facility 402	Salisbury	NC	Solar	Intermediate	Yes	2000
Facility 403	Troutman	NC	Solar	Intermediate	Yes	3
Facility 404	Harrisburg	NC	Solar	Intermediate	Yes	3.703
Facility 405	Greensboro	NC	Solar	Intermediate	Yes	4.381
Facility 406	China Grove	NC	Solar	Intermediate	Yes	2.4
Facility 407	Charlotte	NC	Solar	Intermediate	Yes	7.342
Facility 408	Carrboro	NC	Solar	Intermediate	Yes	6
Facility 409	Charlotte	NC	Solar	Intermediate	Yes	2.72
Facility 410	Burlington	NC	Solar	Intermediate	Yes	3
Facility 411	Monroe	NC	Solar	Intermediate	Yes	6
Facility 412	High Point	NC	Solar	Intermediate	Yes	9.563
Facility 413	Salisbury	NC	Solar	Intermediate	Yes	2.568
Facility 414	Harrisburg	NC	Solar	Intermediate	Yes	4.305
Facility 415	Hendersonville	NC	Solar	Intermediate	Yes	3.766
Facility 416	Kannapolis NC	NC	Solar	Intermediate	Yes	2.85
Facility 417	Chapel Hill	NC	Solar	Intermediate	Yes	40
Facility 418	Chapel Hill	NC	Solar	Intermediate	Yes	4
Facility 419	Carrboro	NC	Solar	Intermediate	Yes	16.4
Facility 420	Chapel Hill	NC	Solar	Intermediate	Yes	0.86
Facility 421	Kings Mountain	NC	Solar	Intermediate	Yes	8.351
Facility 422	Durham	NC	Solar	Intermediate	Yes	5
Facility 423	Charlotte	NC	Solar	Intermediate	Yes	2.4
Facility 424	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 425	Durham	NC	Solar	Intermediate	Yes	6
Facility 426	Durham	NC	Solar	Intermediate	Yes	4.16
Facility 427	Hendersonville	NC	Solar	Intermediate	Yes	4.875

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 428	Kings Mountain	NC	Solar	Intermediate	Yes	1.92
Facility 429	Greensboro	NC	Solar	Intermediate	Yes	3.78
Facility 430	Durham	NC	Solar	Intermediate	Yes	5.76
Facility 431	Kernersville	NC	Solar	Intermediate	Yes	0.74
Facility 432	Charlotte	NC	Solar	Intermediate	Yes	6.21
Facility 433	Charlotte	NC	Solar	Intermediate	Yes	1.85
Facility 434	Hillsborough	NC	Solar	Intermediate	Yes	3.84
Facility 435	Elon	NC	Solar	Intermediate	Yes	3
Facility 436	Winston-Salem	NC	Solar	Intermediate	Yes	3.84
Facility 437	Oak Ridge	NC	Solar	Intermediate	Yes	4.32
Facility 438	Browns Summit	NC	Solar	Intermediate	Yes	3.84
Facility 439	Stanley	NC	Solar	Intermediate	Yes	3
Facility 440	Cedar Grove	NC	Solar	Intermediate	Yes	2.4
Facility 441	Hendersonville	NC	Solar	Intermediate	Yes	7.6
Facility 442	Julian	NC	Solar	Intermediate	Yes	5000
Facility 443	Forest City	NC	Solar	Intermediate	Yes	5000
Facility 444	Chapel Hill	NC	Solar	Intermediate	Yes	3.83
Facility 445	Denver	NC	Solar	Intermediate	Yes	10.198
Facility 446	Harrisburg	NC	Solar	Intermediate	Yes	5.301
Facility 447	Charlotte	NC	Solar	Intermediate	Yes	4.939
Facility 448	Kings Mountain	NC	Solar	Intermediate	Yes	15
Facility 449	Cherokee	NC	Solar	Intermediate	Yes	3
Facility 450	Charlotte	NC	Solar	Intermediate	Yes	1.29
Facility 451	Chapel Hill	NC	Solar	Intermediate	Yes	5
Facility 452	Durham	NC	Solar	Intermediate	Yes	4.859
Facility 453	Mooresville	NC	Solar	Intermediate	Yes	12.959
Facility 454	Charlotte	NC	Other	Intermediate	Yes	(blank)
Facility 455	Concord	NC	Solar	Intermediate	Yes	0.86
Facility 456	Salisbury	NC	Solar	Intermediate	Yes	4.3
Facility 457	Mooresville	NC	Solar	Intermediate	Yes	8.235
Facility 458	Charlotte	NC	Solar	Intermediate	Yes	6
Facility 459	Sandy Ridge	NC	Solar	Intermediate	Yes	4.94
Facility 460	Durham	NC	Solar	Intermediate	Yes	7.7

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 461	Chapel Hill	NC	Solar	Intermediate	Yes	4.18
Facility 462	Charlotte	NC	Solar	Intermediate	Yes	5
Facility 463	Kings Mountain	NC	Solar	Intermediate	Yes	7.5
Facility 464	Harrisburg	NC	Solar	Intermediate	Yes	0.86
Facility 465	Moravian Falls	NC	Solar	Intermediate	Yes	2.4
Facility 466	Mooresville	NC	Solar	Intermediate	Yes	5.865
Facility 467	Monroe	NC	Solar	Intermediate	Yes	5
Facility 468	Gibsonville	NC	Solar	Intermediate	Yes	2
Facility 469	Greensboro	NC	Solar	Intermediate	Yes	4.8
Facility 470	Belmont	NC	Solar	Intermediate	Yes	5
Facility 471	Hillsborough	NC	Solar	Intermediate	Yes	8
Facility 472	Cornelius	NC	Solar	Intermediate	Yes	4.76
Facility 473	Thomasville	NC	Solar	Intermediate	Yes	2.75
Facility 474	Charlotte	NC	Solar	Intermediate	Yes	4.75
Facility 475	Matthews	NC	Solar	Intermediate	Yes	2.63
Facility 476	Mount Pleasant	NC	Solar	Intermediate	Yes	6.72
Facility 477	Waxhaw	NC	Solar	Intermediate	Yes	3
Facility 478	Chapel Hill	NC	Solar	Intermediate	Yes	7.6
Facility 479	Huntersville	NC	Solar	Intermediate	Yes	6
Facility 480	Sylva	NC	Solar	Intermediate	Yes	9.69
Facility 481	Charlotte	NC	Solar	Intermediate	Yes	4.2
Facility 482	Charlotte	NC	Solar	Intermediate	Yes	4.73
Facility 483	Concord	NC	Solar	Intermediate	Yes	12.198
Facility 484	Charlotte	NC	Solar	Intermediate	Yes	9.889
Facility 485	Elon	NC	Solar	Intermediate	Yes	4.349
Facility 486	Hendersonville	NC	Solar	Intermediate	Yes	14.752
Facility 487	Research Triangle Park	NC	Solar	Intermediate	Yes	100
Facility 488	Kernersville	NC	Solar	Intermediate	Yes	8.773
Facility 489	Charlotte	NC	Biogas	Intermediate	Yes	1059
Facility 490	Charlotte	NC	Solar	Intermediate	Yes	260.82
Facility 491	Charlotte	NC	Solar	Intermediate	Yes	100
Facility 492	Charlotte	NC	Solar	Intermediate	Yes	8
Facility 493	Greensboro	NC	Solar	Intermediate	Yes	5.16

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 494	Greensboro	NC	Solar	Intermediate	Yes	4
Facility 495	Saxapahaw	NC	Solar	Intermediate	Yes	2
Facility 496	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 497	Valdese	NC	Solar	Intermediate	Yes	3.504
Facility 498	Taylorsville	NC	Solar	Intermediate	Yes	7.626
Facility 499	Mebane	NC	Solar	Intermediate	Yes	8.022
Facility 500	Shelby	NC	Solar	Intermediate	Yes	0.86
Facility 501	Kannapolis	NC	Solar	Intermediate	Yes	0.86
Facility 502	Chapel Hill	NC	Solar	Intermediate	Yes	4
Facility 503	Matthews	NC	Solar	Intermediate	Yes	3.668
Facility 504	Durham	NC	Solar	Intermediate	Yes	5.888
Facility 505	Charlotte	NC	Biomass	Intermediate	Yes	1600
Facility 506	Durham	NC	Solar	Intermediate	Yes	30
Facility 507	Durham	NC	Wind	Intermediate	Yes	33
Facility 508	Salisbury	NC	Solar	Intermediate	Yes	7
Facility 509	Mooreboro	NC	Hydroelectric	Baseload	Yes	1600
Facility 510	Hildebran	NC	Solar	Intermediate	Yes	5000
Facility 511	Sylva	NC	Solar	Intermediate	Yes	2.597
Facility 512	Advance	NC	Solar	Intermediate	Yes	4.35
Facility 513	Wilkesboro	NC	Solar	Intermediate	Yes	1.92
Facility 514	Kernersville	NC	Solar	Intermediate	Yes	4.826
Facility 515	Chapel Hill	NC	Solar	Intermediate	Yes	1.414
Facility 516	Browns Summit	NC	Solar	Intermediate	Yes	5.589
Facility 517	Mount Airy	NC	Landfill Gas	Intermediate	Yes	1600
Facility 518	Mint Hill	NC	Solar	Intermediate	Yes	6.3
Facility 519	Durham	NC	Solar	Intermediate	Yes	3.599
Facility 520	Troutman	NC	Solar	Intermediate	Yes	5.534
Facility 521	Charlotte	NC	Solar	Intermediate	Yes	8.788
Facility 522	Statesville	NC	Solar	Intermediate	Yes	1.5
Facility 523	Hendersonville	NC	Solar	Intermediate	Yes	5.756
Facility 524	Charlotte	NC	Solar	Intermediate	Yes	4.9
Facility 525	Chapel Hill	NC	Solar	Intermediate	Yes	3.845
Facility 526	Burlington	NC	Solar	Intermediate	Yes	3.442

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 527	Clemmons	NC	Solar	Intermediate	Yes	5.729
Facility 528	Kernersville	NC	Solar	Intermediate	Yes	8.51
Facility 529	Reidsville	NC	Solar	Intermediate	Yes	169
Facility 530	Charlotte	NC	Solar	Intermediate	Yes	10.75
Facility 531	Advance	NC	Solar	Intermediate	Yes	10
Facility 532	Concord	NC	Landfill Gas	Intermediate	Yes	11500
Facility 533	Burlington	NC	Solar	Intermediate	Yes	3.696
Facility 534	Brown Summit	NC	Solar	Intermediate	Yes	750
Facility 535	Mooresville	NC	Solar	Intermediate	Yes	2.85
Facility 536	Matthews	NC	Solar	Intermediate	Yes	4.561
Facility 537	Hendersonville	NC	Solar	Intermediate	Yes	10
Facility 538	Chapel Hill	NC	Solar	Intermediate	Yes	5.871
Facility 539	Charlotte	NC	Solar	Intermediate	Yes	8.771
Facility 540	Greensboro	NC	Solar	Intermediate	Yes	8.923
Facility 541	Durham	NC	Solar	Intermediate	Yes	28
Facility 542	Old Fort	NC	Solar	Intermediate	Yes	3.376
Facility 543	Charlotte	NC	Solar	Intermediate	Yes	5.151
Facility 544	Durham	NC	Solar	Intermediate	Yes	2.749
Facility 545	China Grove	NC	Solar	Intermediate	Yes	10.594
Facility 546	Franklin	NC	Solar	Intermediate	Yes	3.194
Facility 547	Shelby	NC	Solar	Intermediate	Yes	1999
Facility 548	Mooresville	NC	Solar	Intermediate	Yes	3.302
Facility 549	Marion	NC	Solar	Intermediate	Yes	4.021
Facility 550	Carrboro	NC	Solar	Intermediate	Yes	10
Facility 551	Salisbury	NC	Solar	Intermediate	Yes	9.08
Facility 552	Salisbury,	NC	Solar	Intermediate	Yes	3.51
Facility 553	China Grove	NC	Solar	Intermediate	Yes	8.301
Facility 554	Salisbury	NC	Solar	Intermediate	Yes	10
Facility 555	Durham	NC	Solar	Intermediate	Yes	3.457
Facility 556	Mooresville	NC	Solar	Intermediate	Yes	7.258
Facility 557	China Grove	NC	Solar	Intermediate	Yes	6.522
Facility 558	Graham	NC	Solar	Intermediate	Yes	3.993
Facility 559	Durham	NC	Solar	Intermediate	Yes	5.191

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 560	Durham	NC	Solar	Intermediate	Yes	2.33
Facility 561	Durham	NC	Solar	Intermediate	Yes	3.765
Facility 562	Randleman	NC	Solar	Intermediate	Yes	7.137
Facility 563	Charlotte	NC	Solar	Intermediate	Yes	5.38
Facility 564	Charlotte	NC	Solar	Intermediate	Yes	4.09
Facility 565	Chapel Hill	NC	Solar	Intermediate	Yes	3.01
Facility 566	Hickory	NC	Solar	Intermediate	Yes	2.989
Facility 567	Lexington	NC	Solar	Intermediate	Yes	3.683
Facility 568	Winston-Salem	NC	Solar	Intermediate	Yes	4.267
Facility 569	Mooresville	NC	Solar	Intermediate	Yes	5.031
Facility 570	Durham	NC	Solar	Intermediate	Yes	4.269
Facility 571	Midland	NC	Solar	Intermediate	Yes	11.658
Facility 572	Midland	NC	Solar	Intermediate	Yes	3.508
Facility 573	Durham	NC	Solar	Intermediate	Yes	3
Facility 574	Locust	NC	Solar	Intermediate	Yes	2.15
Facility 575	Durham	NC	Solar	Intermediate	Yes	11.52
Facility 576	Sylva	NC	Solar	Intermediate	Yes	6
Facility 577	Winston-Salem	NC	Solar	Intermediate	Yes	2.82
Facility 578	Winston-Salem	NC	Solar	Intermediate	Yes	27
Facility 579	Summerfield	NC	Solar	Intermediate	Yes	4.1
Facility 580	China Grove	NC	Solar	Intermediate	Yes	5.76
Facility 581	Pilot Mountain	NC	Solar	Intermediate	Yes	4
Facility 582	Durham	NC	Solar	Intermediate	Yes	4.884
Facility 583	Statesville	NC	Solar	Intermediate	Yes	10
Facility 584	Marion	NC	Solar	Intermediate	Yes	2.264
Facility 585	Burlington	NC	Solar	Intermediate	Yes	1
Facility 586	Clemmons	NC	Solar	Intermediate	Yes	2.38
Facility 587	Mooresville	NC	Solar	Intermediate	Yes	2.33
Facility 588	Mebane	NC	Solar	Intermediate	Yes	3.243
Facility 589	Wingate	NC	Solar	Intermediate	Yes	2.12
Facility 590	Charlotte	NC	Solar	Intermediate	Yes	10
Facility 591	Winston-Salem	NC	Solar	Intermediate	Yes	6
Facility 592	Durham	NC	Solar	Intermediate	Yes	6.169

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 593	Chapel Hill	NC	Solar	Intermediate	Yes	4
Facility 594	Mocksville	NC	Solar	Intermediate	Yes	5000
Facility 595	Raleigh	NC	Solar	Intermediate	Yes	7.6
Facility 596	Chapel Hill	NC	Solar	Intermediate	Yes	6.075
Facility 597	Carrboro	NC	Solar	Intermediate	Yes	6.24
Facility 598	Kernersville	NC	Solar	Intermediate	Yes	1.72
Facility 599	Penrose	NC	Solar	Intermediate	Yes	2.4
Facility 600	Charlotte	NC	Solar	Intermediate	Yes	4
Facility 601	Charlotte	NC	Solar	Intermediate	Yes	7
Facility 602	Durham	NC	Solar	Intermediate	Yes	3.44
Facility 603	Kernersville	NC	Solar	Intermediate	Yes	2.467
Facility 604	Durham	NC	Solar	Intermediate	Yes	4.62
Facility 605	Conover	NC	Solar	Intermediate	Yes	1.72
Facility 606	Durham	NC	Solar	Intermediate	Yes	3
Facility 607	Moravian Falls	NC	Solar	Intermediate	Yes	3.24
Facility 608	Charlotte	NC	Solar	Intermediate	Yes	2.676
Facility 609	Durham	NC	Solar	Intermediate	Yes	2.28
Facility 610	Tobaccoville	NC	Solar	Intermediate	Yes	2.4
Facility 611	Harrisburg	NC	Solar	Intermediate	Yes	0.86
Facility 612	Shelby	NC	Solar	Intermediate	Yes	1.72
Facility 613	Catawba	NC	Solar	Intermediate	Yes	2.58
Facility 614	Mills River	NC	Solar	Intermediate	Yes	4.94
Facility 615	Stanley	NC	Solar	Intermediate	Yes	3
Facility 616	Durham	NC	Solar	Intermediate	Yes	4
Facility 617	Lenoir	NC	Solar	Intermediate	Yes	2.4
Facility 618	Hillsborough	NC	Solar	Intermediate	Yes	3.6
Facility 619	Concord	NC	Solar	Intermediate	Yes	12
Facility 620	Greensboro	NC	Solar	Intermediate	Yes	9
Facility 621	Valdese	NC	Solar	Intermediate	Yes	6.623
Facility 623	Westfield	NC	Solar	Intermediate	Yes	1.44
Facility 624	Westfield	NC	Solar	Intermediate	Yes	2.28
Facility 625	Durham	NC	Solar	Intermediate	Yes	4
Facility 626	Durham	NC	Solar	Intermediate	Yes	4

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 627	Statesville	NC	Solar	Intermediate	Yes	4.578
Facility 628	Pisgah Forest	NC	Solar	Intermediate	Yes	5
Facility 629	Flat Rock	NC	Wind	Intermediate	Yes	1.2
Facility 630	Charlotte	NC	Solar	Intermediate	Yes	4.5
Facility 631	Greensboro	NC	Solar	Intermediate	Yes	5
Facility 632	Creedmoor	NC	Solar	Intermediate	Yes	5
Facility 633	Statesville	NC	Solar	Intermediate	Yes	5
Facility 634	Greensboro	NC	Solar	Intermediate	Yes	6.02
Facility 635	China Grove	NC	Solar	Intermediate	Yes	4.3
Facility 636	Sylva	NC	Solar	Intermediate	Yes	8.35
Facility 637	Winston-Salem	NC	Solar	Intermediate	Yes	7
Facility 638	Charlotte	NC	Solar	Intermediate	Yes	1.29
Facility 639	Sandy Ridge	NC	Solar	Intermediate	Yes	3.6
Facility 640	Charlotte	NC	Solar	Intermediate	Yes	1.12
Facility 641	Charlotte	NC	Solar	Intermediate	Yes	3.8
Facility 642	Shelby	NC	Solar	Intermediate	Yes	5.16
Facility 643	Sylva	NC	Solar	Intermediate	Yes	11.4
Facility 644	Burlington	NC	Solar	Intermediate	Yes	3.12
Facility 645	Penrose	NC	Solar	Intermediate	Yes	3.44
Facility 646	Lenoir	NC	Solar	Intermediate	Yes	6
Facility 647	Durham	NC	Solar	Intermediate	Yes	3.44
Facility 648	High Point	NC	Solar	Intermediate	Yes	6.24
Facility 649	Charlotte	NC	Solar	Intermediate	Yes	4
Facility 650	Clemmons	NC	Solar	Intermediate	Yes	4.8
Facility 651	Tobaccoville	NC	Solar	Intermediate	Yes	0.86
Facility 652	Hiddenite	NC	Solar	Intermediate	Yes	7.6
Facility 653	Lawndale	NC	Solar	Intermediate	Yes	2.28
Facility 654	Greensboro	NC	Solar	Intermediate	Yes	4.73
Facility 655	Chapel Hill	NC	Solar	Intermediate	Yes	7.6
Facility 656	China Grove	NC	Solar	Intermediate	Yes	1.72
Facility 657	Claremont	NC	Solar	Intermediate	Yes	3
Facility 658	Charlotte	NC	Solar	Intermediate	Yes	0.7
Facility 659	Greensboro	NC	Solar	Intermediate	Yes	5

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 660	China Grove	NC	Solar	Intermediate	Yes	6
Facility 661	China Grove	NC	Wind	Intermediate	Yes	1
Facility 662	Sylva	NC	Solar	Intermediate	Yes	5.46
Facility 663	Matthews	NC	Solar	Intermediate	Yes	3.5
Facility 664	Browns Summit	NC	Solar	Intermediate	Yes	6
Facility 665	Hendersonville	NC	Solar	Intermediate	Yes	3
Facility 666	Chapel Hill	NC	Solar	Intermediate	Yes	2.5
Facility 667	Davidson	NC	Solar	Intermediate	Yes	94.08
Facility 668	Lexington	NC	Landfill Gas	Intermediate	Yes	1600
Facility 669	Chapel Hill	NC	Solar	Intermediate	Yes	3.207
Facility 670	McLeansville	NC	Solar	Intermediate	Yes	6.777
Facility 671	Elon	NC	Solar	Intermediate	Yes	5.283
Facility 672	Hendersonville	NC	Solar	Intermediate	Yes	3.261
Facility 673	Burlington	NC	Solar	Intermediate	Yes	3.595
Facility 674	Lewisville	NC	Solar	Intermediate	Yes	0.7
Facility 675	Durham	NC	Solar	Intermediate	Yes	4.452
Facility 676	Charlotte	NC	Solar	Intermediate	Yes	6.067
Facility 677	Browns Summit	NC	Solar	Intermediate	Yes	72
Facility 678	Durham	NC	Solar	Intermediate	Yes	4.174
Facility 679	Cherryville	NC	Solar	Intermediate	Yes	6.051
Facility 680	Burlington	NC	Solar	Intermediate	Yes	6.904
Facility 681	Oak Ridge	NC	Solar	Intermediate	Yes	6
Facility 682	Kannapolis	NC	Solar	Intermediate	Yes	0.86
Facility 683	Winston-Salem	NC	Solar	Intermediate	Yes	3.5
Facility 684	Charlotte	NC	Solar	Intermediate	Yes	2.76
Facility 685	Matthews	NC	Solar	Intermediate	Yes	20
Facility 686	Durham	NC	Solar	Intermediate	Yes	2.5
Facility 687	Durham	NC	Solar	Intermediate	Yes	6.37
Facility 688	Matthews	NC	Solar	Intermediate	Yes	30
Facility 689	China Grove	NC	Solar	Intermediate	Yes	4
Facility 690	Durham	NC	Solar	Intermediate	Yes	17.281
Facility 691	Charlotte	NC	Solar	Intermediate	Yes	7.562
Facility 692	Harrisburg	NC	Solar	Intermediate	Yes	9.355

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 693	Raleigh	NC	Solar	Intermediate	Yes	7.697
Facility 694	Lake Lure	NC	Solar	Intermediate	Yes	6.063
Facility 695	Charlotte	NC	Solar	Intermediate	Yes	6
Facility 696	Stanley	NC	Solar	Intermediate	Yes	1.72
Facility 697	Morrisville	NC	Solar	Intermediate	Yes	30
Facility 698	Mooreville	NC	Solar	Intermediate	Yes	4
Facility 699	Ronda	NC	Solar	Intermediate	Yes	4.16
Facility 700	Chapel Hill	NC	Solar	Intermediate	Yes	6.988
Facility 701	Whittier	NC	Solar	Intermediate	Yes	3.6
Facility 702	Brevard	NC	Solar	Intermediate	Yes	4
Facility 703	Graham	NC	Solar	Intermediate	Yes	5
Facility 704	Hillsborough	NC	Solar	Intermediate	Yes	3.8
Facility 705	Stanley	NC	Solar	Intermediate	Yes	7.83
Facility 706	Stanfield	NC	Solar	Intermediate	Yes	4.596
Facility 707	Charlotte	NC	Solar	Intermediate	Yes	3.08
Facility 708	Hillsborough	NC	Solar	Intermediate	Yes	5
Facility 709	Terrell	NC	Solar	Intermediate	Yes	10.05
Facility 710	Hickory	NC	Solar	Intermediate	Yes	2.58
Facility 711	Greensboro	NC	Solar	Intermediate	Yes	6.72
Facility 712	Kannapolis	NC	Solar	Intermediate	Yes	3.44
Facility 713	Chapel Hill	NC	Solar	Intermediate	Yes	3.669
Facility 714	Charlotte	NC	Solar	Intermediate	Yes	7.937
Facility 715	Mooreville	NC	Solar	Intermediate	Yes	4.3
Facility 716	Charlotte	NC	Solar	Intermediate	Yes	1.29
Facility 717	Greensboro	NC	Solar	Intermediate	Yes	29.4
Facility 718	Durham	NC	Solar	Intermediate	Yes	101.2
Facility 719	Carrboro	NC	Solar	Intermediate	Yes	1.935
Facility 720	Whittier	NC	Solar	Intermediate	Yes	4.41
Facility 721	Charlotte	NC	Solar	Intermediate	Yes	9
Facility 722	Salisbury	NC	Solar	Intermediate	Yes	5
Facility 723	Moravian Falls	NC	Solar	Intermediate	Yes	2.76
Facility 724	Charlotte	NC	Solar	Intermediate	Yes	1.5
Facility 725	Salisbury	NC	Solar	Intermediate	Yes	2

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 726	Charlotte	NC	Solar	Intermediate	Yes	2.15
Facility 727	Pelham	NC	Solar	Intermediate	Yes	5000
Facility 728	Matthews	NC	Solar	Intermediate	Yes	5.394
Facility 729	Clemmons	NC	Solar	Intermediate	Yes	4.8
Facility 730	Mooresville	NC	Solar	Intermediate	Yes	10.995
Facility 731	Charlotte	NC	Solar	Intermediate	Yes	3.75
Facility 732	Greensboro	NC	Solar	Intermediate	Yes	4.304
Facility 733	Elon	NC	Solar	Intermediate	Yes	4.126
Facility 734	Sylva	NC	Solar	Intermediate	Yes	3.638
Facility 735	Harrisburg	NC	Solar	Intermediate	Yes	4.303
Facility 736	Charlotte	NC	Solar	Intermediate	Yes	0.864
Facility 737	Charlotte	NC	Solar	Intermediate	Yes	7.993
Facility 738	Chapel Hill	NC	Solar	Intermediate	Yes	3.87
Facility 739	Greensboro	NC	Solar	Intermediate	Yes	36
Facility 740	Charlotte	NC	Solar	Intermediate	Yes	5
Facility 741	Mooresville	NC	Solar	Intermediate	Yes	7.032
Facility 742	Kings Mountain	NC	Solar	Intermediate	Yes	4000
Facility 743	Stony Point	NC	Solar	Intermediate	Yes	2.523
Facility 744	Charlotte	NC	Solar	Intermediate	Yes	18.597
Facility 745	Mt. Pleasant	NC	Solar	Intermediate	Yes	8.989
Facility 746	Charlotte	NC	Solar	Intermediate	Yes	3.003
Facility 747	Concord	NC	Solar	Intermediate	Yes	6.399
Facility 748	Charlotte	NC	Solar	Intermediate	Yes	4.3
Facility 749	Charlotte	NC	Solar	Intermediate	Yes	4
Facility 750	Durham	NC	Solar	Intermediate	Yes	4.77
Facility 751	Etowah	NC	Solar	Intermediate	Yes	4.806
Facility 752	Chapel Hill	NC	Solar	Intermediate	Yes	6.12
Facility 753	Ararat	NC	Solar	Intermediate	Yes	5
Facility 754	Ararat	NC	Solar	Intermediate	Yes	8
Facility 755	Mount Ulla	NC	Solar	Intermediate	Yes	4
Facility 756	King	NC	Solar	Intermediate	Yes	5
Facility 757	Monroe	NC	Solar	Intermediate	Yes	1.44
Facility 758	Monroe	NC	Solar	Intermediate	Yes	3

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 759	Salisbury	NC	Solar	Intermediate	Yes	1.72
Facility 760	Penrose	NC	Solar	Intermediate	Yes	5.76
Facility 761	Summerfield	NC	Solar	Intermediate	Yes	2.58
Facility 762	Charlotte	NC	Solar	Intermediate	Yes	2.65
Facility 763	Charlotte	NC	Solar	Intermediate	Yes	3.8
Facility 764	Mooresville	NC	Solar	Intermediate	Yes	6.02
Facility 765	Franklin	NC	Solar	Intermediate	Yes	4.5
Facility 766	Mooresville	NC	Solar	Intermediate	Yes	10
Facility 767	Charlotte	NC	Solar	Intermediate	Yes	4.06
Facility 768	Winston-Salem	NC	Solar	Intermediate	Yes	3.81
Facility 769	Chapel Hill	NC	Solar	Intermediate	Yes	3
Facility 770	Taylorsville	NC	Solar	Intermediate	Yes	0.7
Facility 771	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 772	Huntersville	NC	Solar	Intermediate	Yes	3.663
Facility 773	Chapel Hill	NC	Solar	Intermediate	Yes	3
Facility 774	Chapel Hill	NC	Solar	Intermediate	Yes	6
Facility 775	Pfafftown	NC	Solar	Intermediate	Yes	3.87
Facility 776	Charlotte	NC	Solar	Intermediate	Yes	1.08
Facility 777	Reidsville	NC	Solar	Intermediate	Yes	1.6
Facility 778	Morganton	NC	Solar	Intermediate	Yes	3
Facility 779	Burlington	NC	Solar	Intermediate	Yes	3
Facility 780	Reidsville	NC	Solar	Intermediate	Yes	3.87
Facility 781	Sherrills Ford	NC	Solar	Intermediate	Yes	6.06
Facility 782	Columbus	NC	Solar	Intermediate	Yes	3.6
Facility 783	Burlington	NC	Solar	Intermediate	Yes	10
Facility 784	Thomasville	NC	Solar	Intermediate	Yes	2.41
Facility 785	Charlotte	NC	Solar	Intermediate	Yes	5.381
Facility 786	Pineville	NC	Solar	Intermediate	Yes	3.534
Facility 787	Charlotte	NC	Solar	Intermediate	Yes	9.6
Facility 788	Gibsonville	NC	Solar	Intermediate	Yes	3
Facility 789	Franklin	NC	Solar	Intermediate	Yes	10
Facility 790	Winston-Salem	NC	Solar	Intermediate	Yes	10.56
Facility 791	Charlotte	NC	Solar	Intermediate	Yes	5

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 792	Salisbury	NC	Solar	Intermediate	Yes	7.8
Facility 793	Greensboro	NC	Solar	Intermediate	Yes	5.52
Facility 794	Charlotte	NC	Solar	Intermediate	Yes	3.337
Facility 795	Hickory	NC	Solar	Intermediate	Yes	4500
Facility 796	Durham	NC	Solar	Intermediate	Yes	6.777
Facility 797	Durham	NC	Solar	Intermediate	Yes	5.692
Facility 798	Charlotte	NC	Solar	Intermediate	Yes	3.801
Facility 799	Durham	NC	Solar	Intermediate	Yes	40
Facility 800	Harrisburg	NC	Solar	Intermediate	Yes	3.212
Facility 801	Charlotte	NC	Solar	Intermediate	Yes	4.348
Facility 802	Charlotte	NC	Solar	Intermediate	Yes	2.064
Facility 803	Durham	NC	Landfill Gas	Intermediate	Yes	3180
Facility 804	Durham	NC	Solar	Intermediate	Yes	3500
Facility 805	Hillsborough	NC	Solar	Intermediate	Yes	10.68
Facility 806	Charlotte	NC	Solar	Intermediate	Yes	4.035
Facility 807	Charlotte	NC	Solar	Intermediate	Yes	4.25
Facility 808	Old Fort	NC	Solar	Intermediate	Yes	2.58
Facility 809	Salisbury	NC	Solar	Intermediate	Yes	6
Facility 810	Durham	NC	Solar	Intermediate	Yes	3.25
Facility 811	Carrboro	NC	Solar	Intermediate	Yes	1.893
Facility 812	Harrisburg	NC	Solar	Intermediate	Yes	4.305
Facility 813	Charlotte	NC	Solar	Intermediate	Yes	4.24
Facility 814	Lexington	NC	Other	Intermediate	Yes	0
Facility 815	Cherokee	NC	Solar	Intermediate	Yes	5.16
Facility 816	Cherokee	NC	Solar	Intermediate	Yes	13.72
Facility 817	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 818	Elon	NC	Solar	Intermediate	Yes	5.031
Facility 819	Chapel Hill	NC	Solar	Intermediate	Yes	4
Facility 820	Franklin	NC	Solar	Intermediate	Yes	8.6
Facility 821	Concord	NC	Solar	Intermediate	Yes	1.29
Facility 822	Reidsville	NC	Solar	Intermediate	Yes	6
Facility 823	Burlington	NC	Solar	Intermediate	Yes	5
Facility 824	Mooresville	NC	Solar	Intermediate	Yes	2.4

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 825	Mebane	NC	Solar	Intermediate	Yes	5
Facility 826	Chapel Hill	NC	Solar	Intermediate	Yes	3.8
Facility 827	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 828	Chapel Hill	NC	Solar	Intermediate	Yes	3.56
Facility 829	Charlotte	NC	Solar	Intermediate	Yes	3.015
Facility 830	Charlotte	NC	Solar	Intermediate	Yes	5
Facility 831	Charlotte	NC	Solar	Intermediate	Yes	4.578
Facility 832	Matthews	NC	Solar	Intermediate	Yes	0.86
Facility 833	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 834	Chapel Hill	NC	Solar	Intermediate	Yes	5.16
Facility 835	Chapel Hill	NC	Solar	Intermediate	Yes	8.78
Facility 836	Winston-Salem	NC	Solar	Intermediate	Yes	2.64
Facility 837	Charlotte	NC	Solar	Intermediate	Yes	3
Facility 838	Pisgah Forest	NC	Solar	Intermediate	Yes	5.39
Facility 839	Pisgah Forest	NC	Solar	Intermediate	Yes	7.54
Facility 840	Chapel Hill	NC	Solar	Intermediate	Yes	5
Facility 841	Chapel Hill	NC	Solar	Intermediate	Yes	7.5
Facility 842	Charlotte	NC	Solar	Intermediate	Yes	4
Facility 843	Chapel Hill	NC	Solar	Intermediate	Yes	3
Facility 844	Durham	NC	Solar	Intermediate	Yes	15
Facility 845	Charlotte	NC	Solar	Intermediate	Yes	4.578
Facility 846	Chapel Hill	NC	Solar	Intermediate	Yes	4.95
Facility 847	Charlotte	NC	Solar	Intermediate	Yes	4.003
Facility 848	Burlington	NC	Solar	Intermediate	Yes	3000
Facility 849	Charlotte	NC	Solar	Intermediate	Yes	1.08
Facility 850	Greensboro	NC	Solar	Intermediate	Yes	4.8
Facility 851	Huntersville	NC	Solar	Intermediate	Yes	7.96
Facility 852	Winston-Salem	NC	Solar	Intermediate	Yes	4.8
Facility 853	Greensboro	NC	Solar	Intermediate	Yes	5
Facility 854	Charlotte	NC	Solar	Intermediate	Yes	3.75
Facility 855	Oak Ridge	NC	Solar	Intermediate	Yes	4.052
Facility 856	Durham	NC	Solar	Intermediate	Yes	3.5
Facility 857	Marion	NC	Solar	Intermediate	Yes	18

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 858	Lenoir	NC	Solar	Intermediate	Yes	1.4
Facility 859	Statesville	NC	Solar	Intermediate	Yes	19.153
Facility 860	Durham	NC	Solar	Intermediate	Yes	48
Facility 861	Horse Shoe	NC	Solar	Intermediate	Yes	10.519
Facility 862	Horse Shoe	NC	Solar	Intermediate	Yes	5.064
Facility 863	Matthews	NC	Solar	Intermediate	Yes	4
Facility 864	Dallas	NC	Solar	Intermediate	Yes	3.928
Facility 865	Charlotte	NC	Solar	Intermediate	Yes	6
Facility 866	Durham	NC	Solar	Intermediate	Yes	2.16
Facility 867	Harrisburg	NC	Solar	Intermediate	Yes	1.72
Facility 868	Davidson	NC	Solar	Intermediate	Yes	3.84
Facility 869	Raleigh	NC	Solar	Intermediate	Yes	3.8
Facility 870	Hendersonville	NC	Solar	Intermediate	Yes	4.9
Facility 871	Charlotte	NC	Solar	Intermediate	Yes	6
Facility 872	Greensboro	NC	Solar	Intermediate	Yes	634.8
Facility 873	Randleman	NC	Solar	Intermediate	Yes	6
Facility 874	Charlotte	NC	Solar	Intermediate	Yes	4.5
Facility 875	Gold Hill	NC	Solar	Intermediate	Yes	8.297
Facility 876	Nebo	NC	Solar	Intermediate	Yes	3
Facility 877	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 878	Concord	NC	Solar	Intermediate	Yes	0.86
Facility 879	Durham	NC	Solar	Intermediate	Yes	5.817
Facility 880	Charlotte	NC	Solar	Intermediate	Yes	2.558
Facility 881	Charlotte	NC	Solar	Intermediate	Yes	2.85
Facility 882	Charlotte	NC	Solar	Intermediate	Yes	9.03
Facility 883	Elon	NC	Solar	Intermediate	Yes	1999
Facility 884	Winston-Salem	NC	Solar	Intermediate	Yes	5.75
Facility 885	Greensboro	NC	Solar	Intermediate	Yes	9.12
Facility 886	Durham	NC	Solar	Intermediate	Yes	5.112
Facility 887	Durham	NC	Solar	Intermediate	Yes	4.05
Facility 888	Winston-Salem	NC	Solar	Intermediate	Yes	1.798
Facility 889	Whitsett	NC	Solar	Intermediate	Yes	7.932
Facility 890	Hickory	NC	Solar	Intermediate	Yes	4.844

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 891	Mocksville	NC	Solar	Intermediate	Yes	5.247
Facility 892	Brevard	NC	Solar	Intermediate	Yes	8.143
Facility 893	Durham	NC	Solar	Intermediate	Yes	4.483
Facility 894	Matthews	NC	Solar	Intermediate	Yes	2.544
Facility 895	Winston-Salem	NC	Solar	Intermediate	Yes	12.26
Facility 896	Charlotte	NC	Solar	Intermediate	Yes	8.364
Facility 897	Hendersonville	NC	Solar	Intermediate	Yes	10.767
Facility 898	Kernersville	NC	Solar	Intermediate	Yes	3.888
Facility 899	Franklin	NC	Solar	Intermediate	Yes	8.26
Facility 900	Mt. Pleasant	NC	Solar	Intermediate	Yes	7.006
Facility 901	Oakboro	NC	Solar	Intermediate	Yes	4950
Facility 902	Stanley	NC	Solar	Intermediate	Yes	5.953
Facility 903	Black Mountain	NC	Solar	Intermediate	Yes	9.187
Facility 904	Conover	NC	Solar	Intermediate	Yes	5000
Facility 905	Charlotte	NC	Solar	Intermediate	Yes	15.68
Facility 906	Greensboro	NC	Solar	Intermediate	Yes	14.4
Facility 907	Clemmons	NC	Solar	Intermediate	Yes	2.38
Facility 908	Marion	NC	Solar	Intermediate	Yes	4
Facility 909	Greensboro	NC	Solar	Intermediate	Yes	2.651
Facility 910	Catawba	NC	Solar	Intermediate	Yes	4.75
Facility 911	Graham	NC	Solar	Intermediate	Yes	2.7
Facility 912	Mount Ulla	NC	Solar	Intermediate	Yes	4.592
Facility 913	Denver	NC	Solar	Intermediate	Yes	5.964
Facility 914	Glen Alpine	NC	Solar	Intermediate	Yes	24
Facility 915	Winston-Salem	NC	Solar	Intermediate	Yes	8.018
Facility 916	Winston-Salem	NC	Solar	Intermediate	Yes	6.626
Facility 917	Greensboro	NC	Solar	Intermediate	Yes	4.585
Facility 918	Clemmons	NC	Solar	Intermediate	Yes	2.3
Facility 919	Charlotte	NC	Solar	Intermediate	Yes	6.107
Facility 920	Wilkesboro	NC	Solar	Intermediate	Yes	2.018
Facility 921	Wilkesboro	NC	Solar	Intermediate	Yes	6.742
Facility 922	Pisgah Forest	NC	Solar	Intermediate	Yes	3.709
Facility 923	Mooreboro	NC	Solar	Intermediate	Yes	6.423

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 924	Charlotte	NC	Solar	Intermediate	Yes	17.581
Facility 925	Hickory	NC	Solar	Intermediate	Yes	3.51
Facility 926	Hickory	NC	Solar	Intermediate	Yes	4.5
Facility 927	Chapel Hill	NC	Solar	Intermediate	Yes	5.59
Facility 928	Charlotte	NC	Solar	Intermediate	Yes	0.08
Facility 929	Charlotte	NC	Solar	Intermediate	Yes	11.77
Facility 930	Greensboro	NC	Solar	Intermediate	Yes	2.946
Facility 931	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 932	Salisbury	NC	Solar	Intermediate	Yes	2.88
Facility 933	Franklin	NC	Solar	Intermediate	Yes	18
Facility 934	Columbus	NC	Solar	Intermediate	Yes	5.71
Facility 935	Sylva	NC	Solar	Intermediate	Yes	4.45
Facility 936	Mebane	NC	Solar	Intermediate	Yes	5
Facility 937	Casar	NC	Solar	Intermediate	Yes	6.988
Facility 938	Chapel Hill	NC	Solar	Intermediate	Yes	5
Facility 939	Stanley	NC	Solar	Intermediate	Yes	4990
Facility 940	Salisbury	NC	Solar	Intermediate	Yes	82
Facility 941	Durham	NC	Solar	Intermediate	Yes	5.731
Facility 942	Claremont	NC	Solar	Intermediate	Yes	3500
Facility 943	Mebane	NC	Solar	Intermediate	Yes	3000
Facility 944	Gibsonville	NC	Solar	Intermediate	Yes	3.287
Facility 945	Kannapolis	NC	Solar	Intermediate	Yes	12.452
Facility 946	Durham	NC	Solar	Intermediate	Yes	8.502
Facility 947	Oak Ridge	NC	Solar	Intermediate	Yes	2.018
Facility 948	Charlotte	NC	Solar	Intermediate	Yes	8.373
Facility 949	Charlotte	NC	Solar	Intermediate	Yes	7.952
Facility 950	Claremont	NC	Solar	Intermediate	Yes	10.267
Facility 951	Charlotte	NC	Solar	Intermediate	Yes	72
Facility 952	Hendersonville	NC	Solar	Intermediate	Yes	5
Facility 953	Winston-Salem	NC	Solar	Intermediate	Yes	16.759
Facility 954	Greensboro	NC	Solar	Intermediate	Yes	1.75
Facility 955	Pisgah Forest	NC	Solar	Intermediate	Yes	4.38
Facility 956	Tryon	NC	Solar	Intermediate	Yes	3

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 957	China Grove	NC	Solar	Intermediate	Yes	3.44
Facility 958	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 959	Pilot Mountain	NC	Solar	Intermediate	Yes	10
Facility 960	Harrisburg	NC	Solar	Intermediate	Yes	5.301
Facility 961	Burlington	NC	Solar	Intermediate	Yes	4.595
Facility 962	Concord	NC	Solar	Intermediate	Yes	3.649
Facility 963	Lincolnton	NC	Solar	Intermediate	Yes	6.593
Facility 964	Durham	NC	Solar	Intermediate	Yes	7.289
Facility 965	Greensboro	NC	Solar	Intermediate	Yes	4.68
Facility 966	Charlotte	NC	Solar	Intermediate	Yes	2.199
Facility 967	Charlotte	NC	Solar	Intermediate	Yes	3.421
Facility 968	Sherrills Ford	NC	Solar	Intermediate	Yes	4.554
Facility 969	Kernersville	NC	Solar	Intermediate	Yes	6.782
Facility 970	Mooresville	NC	Solar	Intermediate	Yes	5.055
Facility 971	Carrboro	NC	Solar	Intermediate	Yes	2.597
Facility 972	Reidsville	NC	Solar	Intermediate	Yes	5
Facility 973	Charlotte	NC	Solar	Intermediate	Yes	1.29
Facility 974	Mount Holly	NC	Solar	Intermediate	Yes	0.86
Facility 975	Durham	NC	Solar	Intermediate	Yes	7.94
Facility 976	Whittier	NC	Solar	Intermediate	Yes	2.58
Facility 977	Concord	NC	Landfill Gas	Intermediate	Yes	5300
Facility 978	Dallas	NC	Landfill Gas	Intermediate	Yes	4800
Facility 979	Durham	NC	Solar	Intermediate	Yes	2.922
Facility 980	Durham	NC	Solar	Intermediate	Yes	6.234
Facility 981	Browns Summit	NC	Solar	Intermediate	Yes	2.16
Facility 982	Matthews	NC	Solar	Intermediate	Yes	3.62
Facility 983	Harrisburg	NC	Solar	Intermediate	Yes	2.851
Facility 984	Huntersville	NC	Solar	Intermediate	Yes	7.327
Facility 985	Durham	NC	Solar	Intermediate	Yes	700
Facility 986	Durham	NC	Solar	Intermediate	Yes	1000
Facility 987	Summerfield	NC	Solar	Intermediate	Yes	3.86
Facility 988	Summerfield	NC	Solar	Intermediate	Yes	6.86
Facility 989	Cedar Grove	NC	Solar	Intermediate	Yes	6

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 990	Chapel Hill	NC	Solar	Intermediate	Yes	3.06
Facility 991	Mooresville	NC	Solar	Intermediate	Yes	6
Facility 992	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 993	Nebo	NC	Solar	Intermediate	Yes	6
Facility 994	Hendersonville	NC	Solar	Intermediate	Yes	2.82
Facility 995	Charlotte	NC	Solar	Intermediate	Yes	1
Facility 996	Davidson	NC	Solar	Intermediate	Yes	4.3
Facility 997	Rural Hall	NC	Solar	Intermediate	Yes	4.5
Facility 998	Ruffin	NC	Solar	Intermediate	Yes	6
Facility 999	Columbus	NC	Solar	Intermediate	Yes	2.14
Facility 1000	Hillsborough	NC	Solar	Intermediate	Yes	3
Facility 1001	Charlotte	NC	Solar	Intermediate	Yes	1.96
Facility 1002	Durham	NC	Solar	Intermediate	Yes	3
Facility 1003	Franklin	NC	Solar	Intermediate	Yes	1.92
Facility 1004	Millers Creek	NC	Solar	Intermediate	Yes	2.58
Facility 1005	Bryson City	NC	Solar	Intermediate	Yes	7
Facility 1006	Hendersonville	NC	Solar	Intermediate	Yes	25
Facility 1007	Greensboro	NC	Solar	Intermediate	Yes	4.16
Facility 1008	Marion	NC	Solar	Intermediate	Yes	2.5
Facility 1009	Chapel Hill	NC	Solar	Intermediate	Yes	9.743
Facility 1010	Rural Hall	NC	Solar	Intermediate	Yes	1500
Facility 1011	Chapel Hill	NC	Solar	Intermediate	Yes	6
Facility 1012	Salisbury	NC	Solar	Intermediate	Yes	112
Facility 1013	Salisbury	NC	Solar	Intermediate	Yes	90.75
Facility 1014	Salisbury	NC	Solar	Intermediate	Yes	84
Facility 1015	Waxhaw	NC	Solar	Intermediate	Yes	3.595
Facility 1016	Gastonia	NC	Solar	Intermediate	Yes	6.038
Facility 1017	Charlotte	NC	Solar	Intermediate	Yes	16.448
Facility 1018	Charlotte	NC	Solar	Intermediate	Yes	6.236
Facility 1019	Charlotte	NC	Solar	Intermediate	Yes	4.05
Facility 1020	Winston-Salem	NC	Solar	Intermediate	Yes	5.013
Facility 1021	Charlotte	NC	Solar	Intermediate	Yes	2.907
Facility 1022	Mooresville	NC	Solar	Intermediate	Yes	6.98

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1023	Chapel Hill	NC	Solar	Intermediate	Yes	1.64
Facility 1024	Charlotte	NC	Solar	Intermediate	Yes	22.8
Facility 1025	Lewisville	NC	Solar	Intermediate	Yes	1.844
Facility 1026	Durham	NC	Solar	Intermediate	Yes	200
Facility 1027	Cedar Grove	NC	Solar	Intermediate	Yes	5.59
Facility 1028	Stanley	NC	Solar	Intermediate	Yes	1.29
Facility 1029	Danbury	NC	Solar	Intermediate	Yes	5.76
Facility 1030	Hickory	NC	Solar	Intermediate	Yes	1.4
Facility 1031	Charlotte	NC	Solar	Intermediate	Yes	1.72
Facility 1032	Mills River	NC	Solar	Intermediate	Yes	2.58
Facility 1033	Newton	NC	Solar	Intermediate	Yes	4.021
Facility 1034	Gastonia	NC	Solar	Intermediate	Yes	5.252
Facility 1035	Durham	NC	Solar	Intermediate	Yes	3.504
Facility 1036	Charlotte	NC	Solar	Intermediate	Yes	7.7
Facility 1037	Belmont	NC	Solar	Intermediate	Yes	12
Facility 1038	Salisbury	NC	Solar	Intermediate	Yes	2.857
Facility 1039	Gibsonville	NC	Solar	Intermediate	Yes	2.422
Facility 1040	Winston-Salem	NC	Solar	Intermediate	Yes	4.143
Facility 1041	Charlotte	NC	Solar	Intermediate	Yes	4.5
Facility 1042	Denver	NC	Solar	Intermediate	Yes	5.384
Facility 1043	Charlotte	NC	Solar	Intermediate	Yes	3.5
Facility 1044	Charlotte	NC	Solar	Intermediate	Yes	4.775
Facility 1045	Conover	NC	Solar	Intermediate	Yes	1.851
Facility 1046	Columbus	NC	Solar	Intermediate	Yes	2.15
Facility 1047	Columbus	NC	Solar	Intermediate	Yes	12.04
Facility 1048	Mount Holly	NC	Solar	Intermediate	Yes	4.304
Facility 1049	Greensboro	NC	Solar	Intermediate	Yes	7.31
Facility 1050	Greensboro	NC	Solar	Intermediate	Yes	50
Facility 1051	Hendersonville	NC	Solar	Intermediate	Yes	2.88
Facility 1052	Winston-Salem	NC	Solar	Intermediate	Yes	2.856
Facility 1053	Kannapolis	NC	Solar	Intermediate	Yes	3.01
Facility 1054	Franklin	NC	Solar	Intermediate	Yes	4.3
Facility 1055	Denver	NC	Solar	Intermediate	Yes	0.7

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1056	Chapel Hill	NC	Solar	Intermediate	Yes	5
Facility 1057	Clemmons	NC	Solar	Intermediate	Yes	8
Facility 1058	Stoneville	NC	Solar	Intermediate	Yes	3.808
Facility 1059	Kernersville	NC	Solar	Intermediate	Yes	2.907
Facility 1060	Charlotte	NC	Solar	Intermediate	Yes	3.677
Facility 1061	Chapel Hill	NC	Solar	Intermediate	Yes	12.244
Facility 1062	Charlotte	NC	Solar	Intermediate	Yes	3.504
Facility 1063	Greensboro	NC	Solar	Intermediate	Yes	11.995
Facility 1064	Charlotte	NC	Solar	Intermediate	Yes	4.9
Facility 1065	Charlotte	NC	Solar	Intermediate	Yes	3.694
Facility 1066	Charlotte	NC	Solar	Intermediate	Yes	6.125
Facility 1067	Kernersville	NC	Solar	Intermediate	Yes	6.803
Facility 1068	Reidsville	NC	Solar	Intermediate	Yes	6.742
Facility 1069	Waxhaw	NC	Solar	Intermediate	Yes	6.531
Facility 1070	Reidsville	NC	Solar	Intermediate	Yes	5.444
Facility 1071	Charlotte	NC	Solar	Intermediate	Yes	4.216
Facility 1072	Durham	NC	Solar	Intermediate	Yes	5.866
Facility 1073	Ellenboro	NC	Solar	Intermediate	Yes	2.58
Facility 1074	Hillsborough	NC	Solar	Intermediate	Yes	4.2
Facility 1075	Kernersville	NC	Solar	Intermediate	Yes	40
Facility 1076	Chapel Hill	NC	Solar	Intermediate	Yes	6
Facility 1077	Tryon	NC	Solar	Intermediate	Yes	5.858
Facility 1078	Sylva	NC	Solar	Intermediate	Yes	15.915
Facility 1079	Brevard	NC	Solar	Intermediate	Yes	2.609
Facility 1080	Charlotte	NC	Solar	Intermediate	Yes	2.385
Facility 1081	Durham	NC	Solar	Intermediate	Yes	5.474
Facility 1082	Mebane	NC	Solar	Intermediate	Yes	5.247
Facility 1083	Durham	NC	Solar	Intermediate	Yes	3.32
Facility 1084	Chapel Hill	NC	Solar	Intermediate	Yes	9.056
Facility 1085	Dobson	NC	Solar	Intermediate	Yes	2.054
Facility 1086	Mount Holly	NC	Solar	Intermediate	Yes	1.862
Facility 1087	Taylorsville	NC	Hydroelectric	Baseload	Yes	365
Facility 1088	Winston-Salem	NC	Solar	Intermediate	Yes	14.8

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1089	Columbus	NC	Solar	Intermediate	Yes	7.099
Facility 1090	Charlotte	NC	Solar	Intermediate	Yes	3.356
Facility 1091	Huntersville	NC	Solar	Intermediate	Yes	5.474
Facility 1092	Dallas	NC	Hydroelectric	Baseload	Yes	820
Facility 1093	Charlotte	NC	Solar	Intermediate	Yes	8.126
Facility 1094	Durham	NC	Solar	Intermediate	Yes	3.761
Facility 1095	Monroe	NC	Solar	Intermediate	Yes	5.38
Facility 1096	Whitsett	NC	Solar	Intermediate	Yes	7.5
Facility 1097	N Wilkesboro	NC	Solar	Intermediate	Yes	4
Facility 1098	Union Mills	NC	Solar	Intermediate	Yes	4.423
Facility 1099	Germanton	NC	Solar	Intermediate	Yes	6.068
Facility 1100	Charlotte	NC	Solar	Intermediate	Yes	2
Facility 1101	Concord	NC	Solar	Intermediate	Yes	5.2
Facility 1102	Horse Shoe	NC	Solar	Intermediate	Yes	5
Facility 1103	Granite Falls	NC	Solar	Intermediate	Yes	2.85
Facility 1104	Connelly Springs	NC	Solar	Intermediate	Yes	1.779
Facility 1105	Oakboro	NC	Solar	Intermediate	Yes	8.314
Facility 1106	China Grove	NC	Solar	Intermediate	Yes	2.753
Facility 1107	Denver	NC	Solar	Intermediate	Yes	2.777
Facility 1108	Black Mountain	NC	Solar	Intermediate	Yes	8.881
Facility 1109	Charlotte	NC	Solar	Intermediate	Yes	8.026
Facility 1110	Midland	NC	Solar	Intermediate	Yes	8.771
Facility 1111	Chapel Hill	NC	Solar	Intermediate	Yes	7.061
Facility 1112	Charlotte	NC	Solar	Intermediate	Yes	4.596
Facility 1113	Charlotte	NC	Solar	Intermediate	Yes	5.903
Facility 1114	Charlotte	NC	Solar	Intermediate	Yes	5.964
Facility 1115	Saxpawah	NC	Hydroelectric	Baseload	Yes	1500
Facility 1116	Shelby	NC	Solar	Intermediate	Yes	5.22
Facility 1117	Shelby	NC	Solar	Intermediate	Yes	8.688
Facility 1118	Charlotte	NC	Solar	Intermediate	Yes	6.226
Facility 1119	Lincolnton	NC	Solar	Intermediate	Yes	5000
Facility 1120	Greensboro	NC	Solar	Intermediate	Yes	40
Facility 1121	Durham	NC	Solar	Intermediate	Yes	3.01

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1122	Greensboro	NC	Solar	Intermediate	Yes	2.329
Facility 1123	Charlotte	NC	Solar	Intermediate	Yes	5.534
Facility 1124	Greensboro	NC	Solar	Intermediate	Yes	3.724
Facility 1125	Durham	NC	Solar	Intermediate	Yes	3.485
Facility 1126	Thomasville	NC	Solar	Intermediate	Yes	2.318
Facility 1127	Clemmons	NC	Solar	Intermediate	Yes	13.6
Facility 1128	Charlotte	NC	Solar	Intermediate	Yes	2.141
Facility 1129	Albemarle	NC	Solar	Intermediate	Yes	8.989
Facility 1130	Carrboro	NC	Solar	Intermediate	Yes	6.889
Facility 1131	Charlotte	NC	Solar	Intermediate	Yes	4.525
Facility 1132	Chapel Hill	NC	Solar	Intermediate	Yes	3.3
Facility 1133	Chapel Hill	NC	Solar	Intermediate	Yes	10.686
Facility 1134	Morrisville	NC	Solar	Intermediate	Yes	7.6
Facility 1135	Matthews	NC	Solar	Intermediate	Yes	1.08
Facility 1136	China Grove	NC	Solar	Intermediate	Yes	5
Facility 1137	Charlotte	NC	Solar	Intermediate	Yes	1.29
Facility 1138	Chapel Hill	NC	Solar	Intermediate	Yes	7
Facility 1139	Charlotte	NC	Solar	Intermediate	Yes	1.29
Facility 1140	Jamestown	NC	Solar	Intermediate	Yes	3.069
Facility 1141	Charlotte	NC	Solar	Intermediate	Yes	2.75
Facility 1142	Pisgah Forest	NC	Solar	Intermediate	Yes	5.457
Facility 1143	Chapel Hill	NC	Solar	Intermediate	Yes	4.51
Facility 1144	Rural Hall	NC	Solar	Intermediate	Yes	4.592
Facility 1145	Durham	NC	Solar	Intermediate	Yes	4.379
Facility 1146	Kannapolis	NC	Solar	Intermediate	Yes	2.568
Facility 1147	Charlotte	NC	Solar	Intermediate	Yes	3.5
Facility 1148	Mocksville	NC	Solar	Intermediate	Yes	1.92
Facility 1149	Charlotte	NC	Solar	Intermediate	Yes	2.598
Facility 1150	Chapel Hill	NC	Solar	Intermediate	Yes	7.2
Facility 1151	Chapel Hill	NC	Solar	Intermediate	Yes	5.76
Facility 1152	Durham	NC	Solar	Intermediate	Yes	4.576
Facility 1153	Charlotte	NC	Solar	Intermediate	Yes	4.063
Facility 1154	Charlotte	NC	Other	Intermediate	Yes	0

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1155	Chapel Hill	NC	Solar	Intermediate	Yes	3.122
Facility 1156	Waxhaw	NC	Solar	Intermediate	Yes	2.375
Facility 1157	Durham	NC	Solar	Intermediate	Yes	5.646
Facility 1158	Greensboro	NC	Solar	Intermediate	Yes	108
Facility 1159	Glenville	NC	Solar	Intermediate	Yes	6.635
Facility 1160	Concord	NC	Solar	Intermediate	Yes	10.111
Facility 1161	Yadkinville	NC	Solar	Intermediate	Yes	2.976
Facility 1162	Winston-Salem	NC	Solar	Intermediate	Yes	5.96
Facility 1163	Charlotte	NC	Solar	Intermediate	Yes	3.746
Facility 1164	Mooresville	NC	Solar	Intermediate	Yes	11
Facility 1165	Monroe	NC	Solar	Intermediate	Yes	6.16
Facility 1166	Charlotte	NC	Solar	Intermediate	Yes	2.15
Facility 1167	Thomasville	NC	Solar	Intermediate	Yes	1.29
Facility 1168	Greensboro	NC	Solar	Intermediate	Yes	4.8
Facility 1169	Salisbury	NC	Solar	Intermediate	Yes	7.228
Facility 1170	Denver	NC	Solar	Intermediate	Yes	4.549
Facility 1171	Denver	NC	Solar	Intermediate	Yes	2.247
Facility 1172	Winston-Salem	NC	Solar	Intermediate	Yes	3.576
Facility 1173	Haw River	NC	Solar	Intermediate	Yes	4
Facility 1174	Kannapolis	NC	Solar	Intermediate	Yes	3.393
Facility 1175	Troutman	NC	Solar	Intermediate	Yes	2.89
Facility 1176	Charlotte	NC	Solar	Intermediate	Yes	6
Facility 1177	Cornelius	NC	Solar	Intermediate	Yes	4.14
Facility 1178	Charlotte	NC	Solar	Intermediate	Yes	2.534
Facility 1179	Salisbury	NC	Solar	Intermediate	Yes	4.622
Facility 1180	Mooresboro	NC	Solar	Intermediate	Yes	6.038
Facility 1181	Durham	NC	Solar	Intermediate	Yes	6.853
Facility 1182	Lincolnton	NC	Solar	Intermediate	Yes	2.15
Facility 1183	Cedar Grove	NC	Solar	Intermediate	Yes	3
Facility 1184	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 1185	Salisbury	NC	Solar	Intermediate	Yes	2.318
Facility 1186	Harmony	NC	Solar	Intermediate	Yes	4.682
Facility 1187	Midland	NC	Solar	Intermediate	Yes	4998

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1188	Hendersonville	NC	Solar	Intermediate	Yes	3.805
Facility 1189	Charlotte	NC	Solar	Intermediate	Yes	4.366
Facility 1190	Charlotte	NC	Solar	Intermediate	Yes	5.847
Facility 1191	Reidsville	NC	Solar	Intermediate	Yes	4.297
Facility 1192	Advance	NC	Solar	Intermediate	Yes	9.138
Facility 1193	Franklin	NC	Solar	Intermediate	Yes	7.579
Facility 1194	Salisbury	NC	Solar	Intermediate	Yes	8.571
Facility 1195	Mooresboro	NC	Solar	Intermediate	Yes	5.031
Facility 1196	Mebane	NC	Solar	Intermediate	Yes	4.269
Facility 1197	Graham	NC	Solar	Intermediate	Yes	3.44
Facility 1198	Mebane	NC	Solar	Intermediate	Yes	6.959
Facility 1199	Chapel Hill	NC	Solar	Intermediate	Yes	0.175
Facility 1200	Forest City	NC	Solar	Intermediate	Yes	2
Facility 1201	Chapel Hill	NC	Solar	Intermediate	Yes	5.858
Facility 1202	Kannapolis	NC	Solar	Intermediate	Yes	9.893
Facility 1203	Reidsville	NC	Solar	Intermediate	Yes	5000
Facility 1204	Shelby	NC	Solar	Intermediate	Yes	5000
Facility 1205	Durham	NC	Solar	Intermediate	Yes	3.157
Facility 1206	High Point	NC	Solar	Intermediate	Yes	2.259
Facility 1207	Charlotte	NC	Solar	Intermediate	Yes	7.5
Facility 1208	Carrboro	NC	Solar	Intermediate	Yes	6
Facility 1209	Chapel Hill	NC	Solar	Intermediate	Yes	48
Facility 1210	Charlotte	NC	Solar	Intermediate	Yes	7.532
Facility 1211	Charlotte	NC	Solar	Intermediate	Yes	790
Facility 1212	Mount Pleasant	NC	Solar	Intermediate	Yes	8.085
Facility 1213	Summerfield	NC	Solar	Intermediate	Yes	15.207
Facility 1214	Winston-Salem	NC	Solar	Intermediate	Yes	11.254
Facility 1215	Haw River	NC	Solar	Intermediate	Yes	8.835
Facility 1216	N Wilkesboro	NC	Solar	Intermediate	Yes	63
Facility 1217	Glenville	NC	Solar	Intermediate	Yes	13.251
Facility 1218	Chapel Hill	NC	Solar	Intermediate	Yes	5.281
Facility 1219	Sylva	NC	Solar	Intermediate	Yes	18
Facility 1220	Hendersonville	NC	Solar	Intermediate	Yes	1996.4

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1221	Ellenboro	NC	Solar	Intermediate	Yes	1996.4
Facility 1222	Hendersonville	NC	Solar	Intermediate	Yes	1981
Facility 1223	Bostic	NC	Solar	Intermediate	Yes	1989
Facility 1224	Kings Mountain	NC	Solar	Intermediate	Yes	2500
Facility 1225	Hildebran	NC	Solar	Intermediate	Yes	2000
Facility 1226	Charlotte	NC	Solar	Intermediate	Yes	3.6
Facility 1227	Charlotte	NC	Solar	Intermediate	Yes	5.031
Facility 1228	Eden	NC	Hydroelectric	Baseload	Yes	500
Facility 1229	Cramerton	NC	Solar	Intermediate	Yes	2.944
Facility 1230	Mocksville	NC	Solar	Intermediate	Yes	5.111
Facility 1231	climax	NC	Solar	Intermediate	Yes	8.084
Facility 1232	liberty	NC	Solar	Intermediate	Yes	13.496
Facility 1233	Durham	NC	Solar	Intermediate	Yes	4.609
Facility 1234	Shelby	NC	Solar	Intermediate	Yes	10.249
Facility 1235	Mooreville	NC	Solar	Intermediate	Yes	3.84
Facility 1236	Charlotte	NC	Solar	Intermediate	Yes	2.568
Facility 1237	Vale	NC	Solar	Intermediate	Yes	10
Facility 1238	Salisbury	NC	Solar	Intermediate	Yes	4
Facility 1239	Pfafftown	NC	Solar	Intermediate	Yes	3.63
Facility 1240	Chapel Hill	NC	Solar	Intermediate	Yes	3.8
Facility 1241	Charlotte	NC	Solar	Intermediate	Yes	2.85
Facility 1242	Tobaccoville	NC	Solar	Intermediate	Yes	2.16
Facility 1243	Mooreville	NC	Solar	Intermediate	Yes	2.9
Facility 1244	Charlotte	NC	Solar	Intermediate	Yes	5.055
Facility 1245	Charlotte	NC	Solar	Intermediate	Yes	5.111
Facility 1246	Reidsville	NC	Solar	Intermediate	Yes	5000
Facility 1248	Charlotte	NC	Solar	Intermediate	Yes	4.56
Facility 1249	Rutherford College	NC	Solar	Intermediate	Yes	5.907
Facility 1250	Greensboro	NC	Solar	Intermediate	Yes	9.6
Facility 1251	Hillsborough	NC	Solar	Intermediate	Yes	6.283
Facility 1252	Mills River	NC	Solar	Intermediate	Yes	6
Facility 1253	Mills River	NC	Solar	Intermediate	Yes	6
Facility 1254	Charlotte	NC	Solar	Intermediate	Yes	11.671

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1255	Greensboro	NC	Solar	Intermediate	Yes	2.5
Facility 1256	Salisbury	NC	Solar	Intermediate	Yes	5
Facility 1257	Greensboro	NC	Solar	Intermediate	Yes	3.45
Facility 1258	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 1259	Chapel Hill	NC	Solar	Intermediate	Yes	9.17
Facility 1260	Kannapolis	NC	Solar	Intermediate	Yes	5
Facility 1261	Charlotte	NC	Solar	Intermediate	Yes	1.075
Facility 1262	Graham	NC	Solar	Intermediate	Yes	2.88
Facility 1263	Chapel Hill	NC	Solar	Intermediate	Yes	5
Facility 1264	Charlotte	NC	Solar	Intermediate	Yes	5
Facility 1265	Charlotte	NC	Solar	Intermediate	Yes	4
Facility 1266	Durham	NC	Solar	Intermediate	Yes	4.62
Facility 1267	Connelly Springs	NC	Solar	Intermediate	Yes	4
Facility 1268	Salisbury	NC	Solar	Intermediate	Yes	1.72
Facility 1269	Charlotte	NC	Solar	Intermediate	Yes	5
Facility 1270	Saluda	NC	Solar	Intermediate	Yes	5.16
Facility 1271	Lewisville	NC	Solar	Intermediate	Yes	2.4
Facility 1272	Mount Airy	NC	Solar	Intermediate	Yes	12.26
Facility 1273	Lincolnton	NC	Solar	Intermediate	Yes	0.86
Facility 1274	Hickory	NC	Solar	Intermediate	Yes	3.01
Facility 1275	Charlotte	NC	Solar	Intermediate	Yes	4
Facility 1276	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 1277	Rockwell	NC	Solar	Intermediate	Yes	2.58
Facility 1278	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 1279	Carrboro	NC	Solar	Intermediate	Yes	1.5
Facility 1280	Durham	NC	Solar	Intermediate	Yes	3.6
Facility 1281	Matthews	NC	Solar	Intermediate	Yes	3.6
Facility 1282	Mooresville	NC	Solar	Intermediate	Yes	7.6
Facility 1283	Germanton	NC	Solar	Intermediate	Yes	2.58
Facility 1284	Greensboro	NC	Solar	Intermediate	Yes	5
Facility 1285	Charlotte	NC	Solar	Intermediate	Yes	1.72
Facility 1286	Charlotte	NC	Solar	Intermediate	Yes	1.72
Facility 1287	Winston-Salem	NC	Solar	Intermediate	Yes	6.38

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1288	Highlands	NC	Solar	Intermediate	Yes	3
Facility 1289	High Point	NC	Solar	Intermediate	Yes	5.04
Facility 1290	Hillsborough	NC	Solar	Intermediate	Yes	6
Facility 1291	Salisbury	NC	Solar	Intermediate	Yes	2.4
Facility 1292	Salisbury	NC	Solar	Intermediate	Yes	6
Facility 1293	Winston-Salem	NC	Solar	Intermediate	Yes	2.856
Facility 1294	Charlotte	NC	Solar	Intermediate	Yes	1.25
Facility 1295	Durham	NC	Solar	Intermediate	Yes	4
Facility 1296	Charlotte	NC	Solar	Intermediate	Yes	1.75
Facility 1297	Durham	NC	Solar	Intermediate	Yes	3.75
Facility 1298	Monroe	NC	Solar	Intermediate	Yes	5
Facility 1299	Chapel Hill	NC	Solar	Intermediate	Yes	3.571
Facility 1300	King	NC	Solar	Intermediate	Yes	2.58
Facility 1301	Harrisburg	NC	Solar	Intermediate	Yes	6
Facility 1302	Saluda	NC	Solar	Intermediate	Yes	6.645
Facility 1303	Kannapolis	NC	Solar	Intermediate	Yes	5
Facility 1304	Pinnacle	NC	Solar	Intermediate	Yes	4
Facility 1305	Millers Creek	NC	Solar	Intermediate	Yes	2
Facility 1306	Carrboro	NC	Solar	Intermediate	Yes	2
Facility 1307	Kernersville	NC	Solar	Intermediate	Yes	1.5
Facility 1308	Hillsborough	NC	Solar	Intermediate	Yes	4
Facility 1309	Mebane	NC	Solar	Intermediate	Yes	2
Facility 1310	liberty	NC	Solar	Intermediate	Yes	4.9
Facility 1311	Concord	NC	Solar	Intermediate	Yes	4
Facility 1312	Durham	NC	Solar	Intermediate	Yes	2.205
Facility 1313	Durham	NC	Solar	Intermediate	Yes	5.29
Facility 1314	Charlotte	NC	Solar	Intermediate	Yes	1.4
Facility 1315	Charlotte	NC	Solar	Intermediate	Yes	5
Facility 1316	Salisbury	NC	Solar	Intermediate	Yes	6
Facility 1317	Durham	NC	Solar	Intermediate	Yes	3.84
Facility 1318	Concord	NC	Solar	Intermediate	Yes	1.92
Facility 1319	Chapel Hill	NC	Solar	Intermediate	Yes	5
Facility 1320	Charlotte	NC	Solar	Intermediate	Yes	2.568

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1321	Salisbury	NC	Solar	Intermediate	Yes	2.5
Facility 1322	Reidsville	NC	Solar	Intermediate	Yes	0.76
Facility 1323	Chapel Hill	NC	Solar	Intermediate	Yes	4
Facility 1324	Cullowhee	NC	Solar	Intermediate	Yes	2.58
Facility 1325	Union Mills	NC	Solar	Intermediate	Yes	4.18
Facility 1326	Chapel Hill	NC	Solar	Intermediate	Yes	2.62
Facility 1327	Monroe	NC	Solar	Intermediate	Yes	4.2
Facility 1328	Climax	NC	Solar	Intermediate	Yes	4.8
Facility 1329	Durham	NC	Solar	Intermediate	Yes	2.205
Facility 1330	Mooreville	NC	Solar	Intermediate	Yes	7.96
Facility 1331	Mooreville	NC	Solar	Intermediate	Yes	4.3
Facility 1332	Charlotte	NC	Solar	Intermediate	Yes	6.138
Facility 1333	Cornelius	NC	Solar	Intermediate	Yes	6.02
Facility 1334	Shelby	NC	Solar	Intermediate	Yes	3.3
Facility 1335	Wilkesboro	NC	Solar	Intermediate	Yes	4.2
Facility 1336	Pisgah Forest	NC	Solar	Intermediate	Yes	0.7
Facility 1337	Chapel Hill	NC	Solar	Intermediate	Yes	4
Facility 1338	Charlotte	NC	Solar	Intermediate	Yes	1.08
Facility 1339	Winston-Salem	NC	Solar	Intermediate	Yes	2.86
Facility 1340	Durham	NC	Solar	Intermediate	Yes	5
Facility 1341	Hendersonville	NC	Solar	Intermediate	Yes	4
Facility 1342	Durham	NC	Solar	Intermediate	Yes	13.5
Facility 1343	Charlotte	NC	Solar	Intermediate	Yes	2.38
Facility 1344	Winston-Salem	NC	Solar	Intermediate	Yes	3
Facility 1345	Mayodan	NC	Solar	Intermediate	Yes	1.2
Facility 1346	Chapel Hill	NC	Solar	Intermediate	Yes	3
Facility 1347	Durham	NC	Solar	Intermediate	Yes	2.48
Facility 1348	Mount Ulla	NC	Solar	Intermediate	Yes	5.301
Facility 1349	Charlotte	NC	Solar	Intermediate	Yes	3
Facility 1350	Harrisburg	NC	Solar	Intermediate	Yes	5.81
Facility 1351	Durham	NC	Solar	Intermediate	Yes	1.25
Facility 1352	Greensboro	NC	Solar	Intermediate	Yes	4.3
Facility 1353	Hillsborough	NC	Solar	Intermediate	Yes	5

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1354	Lenoir	NC	Solar	Intermediate	Yes	6.45
Facility 1355	Durham	NC	Solar	Intermediate	Yes	3.23
Facility 1356	Chapel Hill	NC	Solar	Intermediate	Yes	4.08
Facility 1357	Morrisville	NC	Solar	Intermediate	Yes	3.812
Facility 1358	Durham	NC	Solar	Intermediate	Yes	6.45
Facility 1359	Charlotte	NC	Solar	Intermediate	Yes	3.6
Facility 1360	Germantown	NC	Solar	Intermediate	Yes	2.36
Facility 1361	Browns Summit	NC	Solar	Intermediate	Yes	4.719
Facility 1362	Morrisville	NC	Solar	Intermediate	Yes	5.344
Facility 1363	Terrell	NC	Solar	Intermediate	Yes	4.3
Facility 1364	Graham	NC	Solar	Intermediate	Yes	2
Facility 1365	Pisgah Forest	NC	Solar	Intermediate	Yes	8.061
Facility 1366	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 1367	Connelly Springs	NC	Solar	Intermediate	Yes	6.88
Facility 1368	McLeansville	NC	Solar	Intermediate	Yes	2.856
Facility 1369	Mooresville	NC	Solar	Intermediate	Yes	2.4
Facility 1370	Concord	NC	Solar	Intermediate	Yes	3.8
Facility 1371	Durham	NC	Solar	Intermediate	Yes	5
Facility 1372	Cullowhee	NC	Solar	Intermediate	Yes	3
Facility 1373	Salisbury	NC	Solar	Intermediate	Yes	1.72
Facility 1374	Matthews	NC	Solar	Intermediate	Yes	2.88
Facility 1375	Chapel Hill	NC	Solar	Intermediate	Yes	4.15
Facility 1376	Greensboro	NC	Solar	Intermediate	Yes	2.15
Facility 1377	Chapel Hill	NC	Solar	Intermediate	Yes	4
Facility 1378	Concord	NC	Solar	Intermediate	Yes	3
Facility 1379	Kannapolis	NC	Solar	Intermediate	Yes	2.7
Facility 1380	Efland	NC	Solar	Intermediate	Yes	7.6
Facility 1381	Granite Falls	NC	Solar	Intermediate	Yes	6.45
Facility 1382	Browns Summit	NC	Solar	Intermediate	Yes	5
Facility 1383	Durham	NC	Solar	Intermediate	Yes	3
Facility 1384	Chapel Hill	NC	Solar	Intermediate	Yes	10
Facility 1385	Thomasville	NC	Solar	Intermediate	Yes	6
Facility 1386	Maiden	NC	Solar	Intermediate	Yes	2.58

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1387	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 1388	High Point	NC	Solar	Intermediate	Yes	4.5
Facility 1389	Charlotte	NC	Solar	Intermediate	Yes	5.194
Facility 1390	Brevard	NC	Solar	Intermediate	Yes	7.56
Facility 1391	Burlington	NC	Solar	Intermediate	Yes	3.24
Facility 1392	Burlington	NC	Solar	Intermediate	Yes	2.5
Facility 1393	Burlington	NC	Solar	Intermediate	Yes	2.88
Facility 1394	Greensboro	NC	Solar	Intermediate	Yes	2.38
Facility 1395	Old Fort	NC	Solar	Intermediate	Yes	3.01
Facility 1396	Marble	NC	Solar	Intermediate	Yes	7.6
Facility 1397	Hillsborough	NC	Solar	Intermediate	Yes	2.58
Facility 1398	Greensboro	NC	Solar	Intermediate	Yes	4.32
Facility 1399	Winston-Salem	NC	Solar	Intermediate	Yes	3.99
Facility 1400	Durham	NC	Solar	Intermediate	Yes	2.5
Facility 1401	Concord	NC	Solar	Intermediate	Yes	9.8
Facility 1402	Charlotte	NC	Solar	Intermediate	Yes	6
Facility 1403	Charlotte	NC	Solar	Intermediate	Yes	6
Facility 1404	Monroe	NC	Solar	Intermediate	Yes	0.86
Facility 1405	Durham	NC	Solar	Intermediate	Yes	3.896
Facility 1406	Hendersonville	NC	Solar	Intermediate	Yes	4
Facility 1407	Graham	NC	Solar	Intermediate	Yes	2
Facility 1408	Hickory	NC	Solar	Intermediate	Yes	4
Facility 1409	Durham	NC	Solar	Intermediate	Yes	5
Facility 1410	Browns Summit	NC	Solar	Intermediate	Yes	6
Facility 1411	Salisbury	NC	Solar	Intermediate	Yes	6
Facility 1412	Denver	NC	Solar	Intermediate	Yes	1.29
Facility 1413	Carrboro	NC	Solar	Intermediate	Yes	6.81
Facility 1414	Charlotte	NC	Solar	Intermediate	Yes	3.75
Facility 1415	Pfafftown	NC	Solar	Intermediate	Yes	9.45
Facility 1416	Hillsborough	NC	Solar	Intermediate	Yes	4
Facility 1417	Jonesville	NC	Solar	Intermediate	Yes	3.42
Facility 1418	Elon	NC	Solar	Intermediate	Yes	4.905
Facility 1419	Jonesville	NC	Solar	Intermediate	Yes	4

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1420	Gastonia	NC	Solar	Intermediate	Yes	4.389
Facility 1421	Shelby	NC	Wind	Intermediate	Yes	1.2
Facility 1422	Durham	NC	Solar	Intermediate	Yes	3.6
Facility 1423	Lewisville	NC	Solar	Intermediate	Yes	3.247
Facility 1424	Durham	NC	Solar	Intermediate	Yes	3
Facility 1425	Charlotte	NC	Solar	Intermediate	Yes	3.04
Facility 1426	Durham	NC	Solar	Intermediate	Yes	3.44
Facility 1427	Gibsonville	NC	Solar	Intermediate	Yes	2
Facility 1428	Durham	NC	Solar	Intermediate	Yes	2.82
Facility 1429	Rural Hall	NC	Solar	Intermediate	Yes	2.85
Facility 1430	Chapel Hill	NC	Solar	Intermediate	Yes	9
Facility 1431	Forest City	NC	Solar	Intermediate	Yes	5
Facility 1432	Charlotte	NC	Solar	Intermediate	Yes	4.95
Facility 1433	liberty	NC	Solar	Intermediate	Yes	2
Facility 1434	Durham	NC	Solar	Intermediate	Yes	3.6
Facility 1435	Chapel Hill	NC	Solar	Intermediate	Yes	3.84
Facility 1436	Chapel Hill	NC	Solar	Intermediate	Yes	5.76
Facility 1437	Greensboro	NC	Solar	Intermediate	Yes	1.57
Facility 1438	Lewisville	NC	Solar	Intermediate	Yes	2.85
Facility 1439	Greensboro	NC	Solar	Intermediate	Yes	2.58
Facility 1440	Mills River	NC	Solar	Intermediate	Yes	6.45
Facility 1441	Mills River	NC	Solar	Intermediate	Yes	10
Facility 1442	Charlotte	NC	Solar	Intermediate	Yes	1.29
Facility 1443	Carrboro	NC	Solar	Intermediate	Yes	3
Facility 1444	Greensboro	NC	Solar	Intermediate	Yes	4.277
Facility 1445	Charlotte	NC	Solar	Intermediate	Yes	3.2
Facility 1446	Charlotte	NC	Solar	Intermediate	Yes	3
Facility 1447	Waxhaw	NC	Solar	Intermediate	Yes	5.888
Facility 1448	Charlotte	NC	Solar	Intermediate	Yes	8.765
Facility 1449	Charlotte	NC	Solar	Intermediate	Yes	4.775
Facility 1450	Durham	NC	Solar	Intermediate	Yes	3.782
Facility 1451	Kannapolis	NC	Solar	Intermediate	Yes	4.459
Facility 1452	Charlotte	NC	Solar	Intermediate	Yes	4.366

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1453	Waxhaw	NC	Solar	Intermediate	Yes	3.623
Facility 1454	Chapel Hill	NC	Solar	Intermediate	Yes	7.8
Facility 1455	Oak Ridge	NC	Solar	Intermediate	Yes	15
Facility 1456	Saluda	NC	Solar	Intermediate	Yes	4.32
Facility 1457	Mills River	NC	Solar	Intermediate	Yes	7.31
Facility 1458	Waxhaw	NC	Solar	Intermediate	Yes	3
Facility 1459	Greensboro	NC	Solar	Intermediate	Yes	27
Facility 1460	Hendersonville	NC	Solar	Intermediate	Yes	2.58
Facility 1461	Charlotte	NC	Solar	Intermediate	Yes	3.87
Facility 1462	Chapel Hill	NC	Solar	Intermediate	Yes	5
Facility 1463	Tobaccoville	NC	Solar	Intermediate	Yes	3.3
Facility 1464	Rockwell	NC	Solar	Intermediate	Yes	6
Facility 1465	Winston-Salem	NC	Solar	Intermediate	Yes	7.68
Facility 1466	Charlotte	NC	Solar	Intermediate	Yes	5.25
Facility 1467	Durham	NC	Solar	Intermediate	Yes	4.25
Facility 1468	Marion	NC	Solar	Intermediate	Yes	3.92
Facility 1469	Spindale	NC	Solar	Intermediate	Yes	4.18
Facility 1470	Mt. Ulla	NC	Solar	Intermediate	Yes	9.31
Facility 1471	Hays	NC	Solar	Intermediate	Yes	2.624
Facility 1472	Durham	NC	Solar	Intermediate	Yes	4.408
Facility 1473	Charlotte	NC	Solar	Intermediate	Yes	2.568
Facility 1474	Hillsborough	NC	Solar	Intermediate	Yes	3.858
Facility 1475	Greensboro	NC	Solar	Intermediate	Yes	7.384
Facility 1476	Nebo	NC	Solar	Intermediate	Yes	4.304
Facility 1477	Walnut Cove	NC	Solar	Intermediate	Yes	7.192
Facility 1478	Durham	NC	Solar	Intermediate	Yes	0.312
Facility 1479	Marshville	NC	Solar	Intermediate	Yes	6.106
Facility 1480	Durham	NC	Solar	Intermediate	Yes	4.658
Facility 1481	Charlotte	NC	Solar	Intermediate	Yes	7.754
Facility 1482	Harrisburg	NC	Solar	Intermediate	Yes	1.757
Facility 1483	Charlotte	NC	Solar	Intermediate	Yes	3.4
Facility 1484	Summerfield	NC	Solar	Intermediate	Yes	3.9
Facility 1485	Charlotte	NC	Solar	Intermediate	Yes	7

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1486	Salisbury	NC	Solar	Intermediate	Yes	8.8
Facility 1487	Mooreville	NC	Solar	Intermediate	Yes	3.3
Facility 1488	Tobaccoville	NC	Solar	Intermediate	Yes	6
Facility 1489	Charlotte	NC	Solar	Intermediate	Yes	2.58
Facility 1490	East Bend	NC	Solar	Intermediate	Yes	4.73
Facility 1491	Durham	NC	Solar	Intermediate	Yes	5
Facility 1492	Durham	NC	Solar	Intermediate	Yes	4
Facility 1493	Charlotte	NC	Solar	Intermediate	Yes	1.63
Facility 1494	Gold Hill	NC	Solar	Intermediate	Yes	4.3
Facility 1495	Gold Hill	NC	Solar	Intermediate	Yes	9.3
Facility 1496	Mooreville	NC	Solar	Intermediate	Yes	250
Facility 1497	Durham	NC	Solar	Intermediate	Yes	4.733
Facility 1498	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 1499	Concord	NC	Solar	Intermediate	Yes	9
Facility 1500	N Wilkesboro	NC	Solar	Intermediate	Yes	4.73
Facility 1501	Greensboro	NC	Solar	Intermediate	Yes	3
Facility 1502	Durham	NC	Solar	Intermediate	Yes	5
Facility 1503	Burlington	NC	Solar	Intermediate	Yes	5
Facility 1504	Catawba	NC	Solar	Intermediate	Yes	15.2
Facility 1505	Catawba	NC	Solar	Intermediate	Yes	6
Facility 1506	Greensboro	NC	Solar	Intermediate	Yes	8.64
Facility 1507	Chapel Hill	NC	Solar	Intermediate	Yes	4
Facility 1508	Charlotte	NC	Solar	Intermediate	Yes	1.72
Facility 1509	Charlotte	NC	Solar	Intermediate	Yes	4
Facility 1510	Newton	NC	Solar	Intermediate	Yes	0.86
Facility 1511	Durham	NC	Solar	Intermediate	Yes	2.442
Facility 1512	Penrose	NC	Solar	Intermediate	Yes	3.742
Facility 1513	Durham	NC	Solar	Intermediate	Yes	6.62
Facility 1514	Cherryville	NC	Solar	Intermediate	Yes	3.36
Facility 1515	Marion	NC	Solar	Intermediate	Yes	0.76
Facility 1516	Marion	NC	Solar	Intermediate	Yes	3.92
Facility 1517	Chapel Hill	NC	Solar	Intermediate	Yes	5.305
Facility 1518	Durham	NC	Solar	Intermediate	Yes	5

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1519	Troutman	NC	Solar	Intermediate	Yes	4.214
Facility 1520	Robbinsville	NC	Solar	Intermediate	Yes	4.3
Facility 1521	Durham	NC	Solar	Intermediate	Yes	4.05
Facility 1522	Kernersville	NC	Solar	Intermediate	Yes	5
Facility 1523	Greensboro	NC	Solar	Intermediate	Yes	5.59
Facility 1524	Forest City	NC	Solar	Intermediate	Yes	0.86
Facility 1525	Germanton	NC	Solar	Intermediate	Yes	4.3
Facility 1526	Clemmons	NC	Solar	Intermediate	Yes	3
Facility 1527	Charlotte	NC	Solar	Intermediate	Yes	4.2
Facility 1528	Winston-Salem	NC	Solar	Intermediate	Yes	(blank)
Facility 1529	Chapel Hill	NC	Solar	Intermediate	Yes	3
Facility 1530	Brevard	NC	Solar	Intermediate	Yes	3
Facility 1531	Chapel Hill	NC	Solar	Intermediate	Yes	1.2
Facility 1532	Charlotte	NC	Solar	Intermediate	Yes	3.01
Facility 1533	Durham	NC	Solar	Intermediate	Yes	2.55
Facility 1534	Charlotte	NC	Solar	Intermediate	Yes	8
Facility 1535	Mooreville	NC	Solar	Intermediate	Yes	2.58
Facility 1536	Hendersonville	NC	Solar	Intermediate	Yes	3.5
Facility 1537	Charlotte	NC	Solar	Intermediate	Yes	8.416
Facility 1538	Hendersonville	NC	Solar	Intermediate	Yes	2.28
Facility 1539	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 1540	Winston-Salem	NC	Solar	Intermediate	Yes	7.65
Facility 1541	Reidsville	NC	Solar	Intermediate	Yes	4.3
Facility 1542	Harrisburg	NC	Solar	Intermediate	Yes	4.305
Facility 1543	Midland	NC	Solar	Intermediate	Yes	5.515
Facility 1544	Robbinsville	NC	Solar	Intermediate	Yes	3.766
Facility 1545	Winston-Salem	NC	Solar	Intermediate	Yes	5.358
Facility 1546	Sylva	NC	Solar	Intermediate	Yes	6
Facility 1547	TRINITY	NC	Solar	Intermediate	Yes	6.216
Facility 1548	Durham	NC	Solar	Intermediate	Yes	6.985
Facility 1549	Cherokee	NC	Solar	Intermediate	Yes	6.959
Facility 1550	Salisbury	NC	Solar	Intermediate	Yes	6
Facility 1551	Nebo	NC	Solar	Intermediate	Yes	2

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1552	Old Fort	NC	Solar	Intermediate	Yes	3
Facility 1553	Chapel Hill	NC	Solar	Intermediate	Yes	2.58
Facility 1554	King	NC	Solar	Intermediate	Yes	5
Facility 1555	Winston-Salem	NC	Solar	Intermediate	Yes	5.534
Facility 1556	Morganton	NC	Solar	Intermediate	Yes	5.031
Facility 1557	Durham	NC	Solar	Intermediate	Yes	3.25
Facility 1558	Hendersonville	NC	Solar	Intermediate	Yes	0.76
Facility 1559	Chapel Hill	NC	Solar	Intermediate	Yes	4
Facility 1560	Lewisville	NC	Solar	Intermediate	Yes	2.35
Facility 1561	Greensboro	NC	Solar	Intermediate	Yes	3
Facility 1562	Durham	NC	Solar	Intermediate	Yes	4.583
Facility 1563	Elon	NC	Solar	Intermediate	Yes	5.821
Facility 1564	Whittier	NC	Solar	Intermediate	Yes	3.526
Facility 1565	Chapel Hill	NC	Solar	Intermediate	Yes	2
Facility 1566	Mount Ulla	NC	Solar	Intermediate	Yes	10
Facility 1567	Winston-Salem	NC	Solar	Intermediate	Yes	6.168
Facility 1568	Ronda	NC	Solar	Intermediate	Yes	10
Facility 1569	Ronda	NC	Solar	Intermediate	Yes	14.5
Facility 1570	Burlington	NC	Solar	Intermediate	Yes	7.68
Facility 1571	Hillsborough	NC	Solar	Intermediate	Yes	6
Facility 1572	Charlotte	NC	Solar	Intermediate	Yes	2.5
Facility 1573	Tobaccoville	NC	Solar	Intermediate	Yes	3.8
Facility 1574	Franklin	NC	Solar	Intermediate	Yes	1.44
Facility 1575	Franklin	NC	Wind	Intermediate	Yes	1
Facility 1576	Pisgah Forest	NC	Solar	Intermediate	Yes	5.255
Facility 1577	Mount Holly	NC	Solar	Intermediate	Yes	3.896
Facility 1578	Dobson	NC	Solar	Intermediate	Yes	7.95
Facility 1579	Charlotte	NC	Solar	Intermediate	Yes	0.879
Facility 1580	Brevard	NC	Solar	Intermediate	Yes	3.8
Facility 1581	Summerfield	NC	Solar	Intermediate	Yes	7.6
Facility 1582	Harrisburg	NC	Solar	Intermediate	Yes	4.32
Facility 1583	Mooresville	NC	Solar	Intermediate	Yes	4
Facility 1584	Morrisville	NC	Solar	Intermediate	Yes	7.829

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1585	Winston-Salem	NC	Solar	Intermediate	Yes	2.373
Facility 1586	Durham	NC	Solar	Intermediate	Yes	6.523
Facility 1587	Greensboro	NC	Solar	Intermediate	Yes	3
Facility 1588	Charlotte	NC	Solar	Intermediate	Yes	18.13
Facility 1589	Charlotte	NC	Solar	Intermediate	Yes	6.96
Facility 1590	Burlington	NC	Solar	Intermediate	Yes	4.806
Facility 1591	Mocksville	NC	Solar	Intermediate	Yes	4.396
Facility 1592	Chapel Hill	NC	Solar	Intermediate	Yes	3
Facility 1593	Mount Airy	NC	Solar	Intermediate	Yes	4.6
Facility 1594	Durham	NC	Solar	Intermediate	Yes	3.78
Facility 1595	Hendersonville	NC	Solar	Intermediate	Yes	1.92
Facility 1596	Durham	NC	Solar	Intermediate	Yes	7.307
Facility 1597	Charlotte	NC	Solar	Intermediate	Yes	4.135
Facility 1598	Nebo	NC	Solar	Intermediate	Yes	5.307
Facility 1599	Chapel Hill	NC	Solar	Intermediate	Yes	13.33
Facility 1600	McLeansville	NC	Solar	Intermediate	Yes	4.527
Facility 1601	Chapel Hill	NC	Solar	Intermediate	Yes	4.126
Facility 1602	Hickory	NC	Solar	Intermediate	Yes	445
Facility 1603	Durham	NC	Solar	Intermediate	Yes	5.464
Facility 1604	Charlotte	NC	Solar	Intermediate	Yes	9
Facility 1605	Greensboro	NC	Solar	Intermediate	Yes	8.296
Facility 1606	Mooresville	NC	Solar	Intermediate	Yes	7.136
Facility 1607	Charlotte	NC	Solar	Intermediate	Yes	5.515
Facility 1608	Burlington	NC	Solar	Intermediate	Yes	280
Facility 1609	Winston-Salem	NC	Solar	Intermediate	Yes	280
Facility 1610	Durham	NC	Solar	Intermediate	Yes	3.318
Facility 1611	Durham	NC	Solar	Intermediate	Yes	3.504
Facility 1612	Chapel Hill	NC	Solar	Intermediate	Yes	5.181
Facility 1613	Sylva	NC	Solar	Intermediate	Yes	8.084
Facility 1614	Salisbury	NC	Solar	Intermediate	Yes	7.325
Facility 1615	Hillsborough	NC	Solar	Intermediate	Yes	2.682
Facility 1616	Charlotte	NC	Solar	Intermediate	Yes	5
Facility 1617	Hillsborough	NC	Solar	Intermediate	Yes	7.6

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1618	Mills River	NC	Solar	Intermediate	Yes	7.6
Facility 1619	Charlotte	NC	Solar	Intermediate	Yes	2.16
Facility 1620	Durham	NC	Solar	Intermediate	Yes	7.6
Facility 1621	Concord	NC	Solar	Intermediate	Yes	4
Facility 1622	Chapel Hill	NC	Solar	Intermediate	Yes	3.749
Facility 1623	Charlotte	NC	Solar	Intermediate	Yes	2.568
Facility 1624	Morrisville	NC	Solar	Intermediate	Yes	8.099
Facility 1625	Hickory	NC	Solar	Intermediate	Yes	3.44
Facility 1626	Andrews	NC	Solar	Intermediate	Yes	5
Facility 1627	Lewisville	NC	Solar	Intermediate	Yes	3.44
Facility 1628	Mt Holly	NC	Solar	Intermediate	Yes	6
Facility 1629	Charlotte	NC	Solar	Intermediate	Yes	1.851
Facility 1630	Charlotte	NC	Solar	Intermediate	Yes	7.479
Facility 1631	Rutherfordton	NC	Solar	Intermediate	Yes	3.724
Facility 1632	Shelby	NC	Solar	Intermediate	Yes	2000
Facility 1633	Sophia	NC	Solar	Intermediate	Yes	3.709
Facility 1634	Conover	NC	Solar	Intermediate	Yes	2.85
Facility 1635	Mooresville	NC	Solar	Intermediate	Yes	180
Facility 1636	Concord	NC	Solar	Intermediate	Yes	6.055
Facility 1637	Charlotte	NC	Solar	Intermediate	Yes	6.467
Facility 1638	Winston-Salem	NC	Solar	Intermediate	Yes	6.359
Facility 1639	Creedmoor	NC	Solar	Intermediate	Yes	3.003
Facility 1640	Catawba	NC	Solar	Intermediate	Yes	2.768
Facility 1641	Greensboro	NC	Solar	Intermediate	Yes	5.531
Facility 1642	Belews Creek	NC	Solar	Intermediate	Yes	2.523
Facility 1643	Durham	NC	Solar	Intermediate	Yes	2.438
Facility 1644	Durham	NC	Solar	Intermediate	Yes	2.681
Facility 1645	Durham	NC	Solar	Intermediate	Yes	2.681
Facility 1646	Durham	NC	Solar	Intermediate	Yes	2.438
Facility 1647	Mt. Pleasant	NC	Solar	Intermediate	Yes	5.258
Facility 1648	Denver	NC	Solar	Intermediate	Yes	3
Facility 1649	Sylva	NC	Solar	Intermediate	Yes	19.3
Facility 1650	Andrews	NC	Solar	Intermediate	Yes	3.01

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1651	Charlotte	NC	Solar	Intermediate	Yes	4.808
Facility 1652	Hillsborough	NC	Solar	Intermediate	Yes	4.613
Facility 1653	Durham	NC	Solar	Intermediate	Yes	4.205
Facility 1654	Charlotte	NC	Solar	Intermediate	Yes	2.086
Facility 1655	Fontana Dam	NC	Solar	Intermediate	Yes	3.855
Facility 1656	Chapel Hill	NC	Solar	Intermediate	Yes	6.398
Facility 1657	Marion	NC	Solar	Intermediate	Yes	3.57
Facility 1658	Ellenboro	NC	Solar	Intermediate	Yes	2.15
Facility 1659	Belmont	NC	Solar	Intermediate	Yes	8.25
Facility 1660	Valdese	NC	Solar	Intermediate	Yes	2.58
Facility 1661	Greensboro	NC	Solar	Intermediate	Yes	2.8
Facility 1662	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 1663	High Point	NC	Solar	Intermediate	Yes	2.38
Facility 1664	Winston-Salem	NC	Solar	Intermediate	Yes	5.76
Facility 1665	Franklin	NC	Solar	Intermediate	Yes	21.12
Facility 1666	Sylva	NC	Solar	Intermediate	Yes	5.7
Facility 1667	Carrboro	NC	Solar	Intermediate	Yes	5
Facility 1668	Lewisville	NC	Solar	Intermediate	Yes	4.86
Facility 1669	Durham	NC	Solar	Intermediate	Yes	7.658
Facility 1670	Huntersville	NC	Solar	Intermediate	Yes	4.095
Facility 1671	Winston-Salem	NC	Solar	Intermediate	Yes	1.844
Facility 1672	Hendersonville	NC	Solar	Intermediate	Yes	3.031
Facility 1673	Durham	NC	Solar	Intermediate	Yes	6.118
Facility 1674	Charlotte	NC	Solar	Intermediate	Yes	1.08
Facility 1675	Durham	NC	Solar	Intermediate	Yes	3.8
Facility 1676	Durham	NC	Solar	Intermediate	Yes	2.5
Facility 1677	Charlotte	NC	Solar	Intermediate	Yes	7.5
Facility 1678	Kannapolis	NC	Solar	Intermediate	Yes	2.15
Facility 1679	Mount Pleasant	NC	Solar	Intermediate	Yes	4.5
Facility 1680	Charlotte	NC	Solar	Intermediate	Yes	7.857
Facility 1681	Durham	NC	Solar	Intermediate	Yes	7
Facility 1682	Greensboro	NC	Solar	Intermediate	Yes	3.68
Facility 1683	Carrboro	NC	Solar	Intermediate	Yes	2.597

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1684	Charlotte	NC	Solar	Intermediate	Yes	0.22
Facility 1685	Carrboro	NC	Solar	Intermediate	Yes	2.888
Facility 1686	Charlotte	NC	Solar	Intermediate	Yes	4.5
Facility 1687	Matthews	NC	Solar	Intermediate	Yes	7.172
Facility 1688	Salisbury	NC	Solar	Intermediate	Yes	2
Facility 1689	Durham	NC	Solar	Intermediate	Yes	5
Facility 1690	Charlotte	NC	Solar	Intermediate	Yes	5
Facility 1691	Durham	NC	Solar	Intermediate	Yes	5
Facility 1692	King	NC	Solar	Intermediate	Yes	3.097
Facility 1693	McLeansville	NC	Solar	Intermediate	Yes	3.376
Facility 1694	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 1695	Woodleaf	NC	Solar	Intermediate	Yes	2.096
Facility 1696	Indian Trail	NC	Solar	Intermediate	Yes	1.075
Facility 1697	Salisbury	NC	Solar	Intermediate	Yes	2.318
Facility 1698	Reidsville	NC	Solar	Intermediate	Yes	4.823
Facility 1699	Durham	NC	Solar	Intermediate	Yes	3.44
Facility 1700	Pfafftown	NC	Solar	Intermediate	Yes	4.2
Facility 1701	Mocksville	NC	Solar	Intermediate	Yes	9.035
Facility 1702	Kannapolis	NC	Solar	Intermediate	Yes	4.297
Facility 1703	Charlotte	NC	Solar	Intermediate	Yes	3.44
Facility 1704	Graham	NC	Solar	Intermediate	Yes	6.317
Facility 1705	Concord	NC	Solar	Intermediate	Yes	0.86
Facility 1706	Greensboro	NC	Solar	Intermediate	Yes	35.475
Facility 1707	Taylorsville	NC	Solar	Intermediate	Yes	1.94
Facility 1708	Greensboro	NC	Solar	Intermediate	Yes	3.3
Facility 1709	Carrboro	NC	Solar	Intermediate	Yes	4
Facility 1710	Raleigh	NC	Solar	Intermediate	Yes	6.867
Facility 1711	Tobaccoville	NC	Solar	Intermediate	Yes	6
Facility 1712	Charlotte	NC	Solar	Intermediate	Yes	1.075
Facility 1713	Summerfield	NC	Solar	Intermediate	Yes	4.905
Facility 1714	Hickory	NC	Solar	Intermediate	Yes	2.227
Facility 1715	Newton	NC	Solar	Intermediate	Yes	5.831
Facility 1716	Stanley	NC	Solar	Intermediate	Yes	5

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1717	Stanley	NC	Solar	Intermediate	Yes	0.86
Facility 1718	Elon	NC	Solar	Intermediate	Yes	4.752
Facility 1719	Mt Airy	NC	Solar	Intermediate	Yes	7.125
Facility 1720	Matthews	NC	Solar	Intermediate	Yes	40.25
Facility 1721	Chapel Hill	NC	Solar	Intermediate	Yes	5.299
Facility 1722	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 1723	Charlotte	NC	Solar	Intermediate	Yes	6
Facility 1724	Newton	NC	Solar	Intermediate	Yes	0.86
Facility 1725	Bostic	NC	Solar	Intermediate	Yes	4999
Facility 1726	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 1727	Maiden	NC	Solar	Intermediate	Yes	3.01
Facility 1728	Mooresville	NC	Solar	Intermediate	Yes	2.88
Facility 1729	Chapel Hill	NC	Solar	Intermediate	Yes	5.948
Facility 1730	Durham	NC	Solar	Intermediate	Yes	3.84
Facility 1731	East Bend	NC	Solar	Intermediate	Yes	5
Facility 1732	Lawndale	NC	Solar	Intermediate	Yes	9
Facility 1733	Charlotte	NC	Solar	Intermediate	Yes	1.72
Facility 1734	Charlotte	NC	Solar	Intermediate	Yes	2.944
Facility 1735	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 1736	Charlotte	NC	Solar	Intermediate	Yes	4.977
Facility 1737	Charlotte	NC	Solar	Intermediate	Yes	0.77
Facility 1738	Winston-Salem	NC	Solar	Intermediate	Yes	3.44
Facility 1739	Greensboro	NC	Solar	Intermediate	Yes	3.87
Facility 1740	Charlotte	NC	Solar	Intermediate	Yes	3.5
Facility 1741	Gerton	NC	Hydroelectric	Baseload	Yes	6
Facility 1742	Mebane	NC	Solar	Intermediate	Yes	6.622
Facility 1743	Hillsborough	NC	Solar	Intermediate	Yes	7.019
Facility 1744	Charlotte	NC	Solar	Intermediate	Yes	36
Facility 1745	Belmont	NC	Solar	Intermediate	Yes	14.224
Facility 1746	Monroe	NC	Solar	Intermediate	Yes	0.86
Facility 1747	Salisbury	NC	Solar	Intermediate	Yes	3
Facility 1748	Salisbury	NC	Solar	Intermediate	Yes	2.88
Facility 1749	Thomasville	NC	Solar	Intermediate	Yes	4.928

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1750	Charlotte	NC	Solar	Intermediate	Yes	4.408
Facility 1751	Davidson	NC	Solar	Intermediate	Yes	7.9
Facility 1752	Charlotte	NC	Solar	Intermediate	Yes	6.281
Facility 1753	Miller Creek	NC	Solar	Intermediate	Yes	2.5
Facility 1754	Raleigh	NC	Solar	Intermediate	Yes	240
Facility 1755	Mills River	NC	Solar	Intermediate	Yes	8.881
Facility 1756	Kannapolis	NC	Solar	Intermediate	Yes	9.192
Facility 1757	Conover	NC	Solar	Intermediate	Yes	6.1
Facility 1758	Elon	NC	Solar	Intermediate	Yes	4000
Facility 1759	Salisbury	NC	Solar	Intermediate	Yes	14
Facility 1760	Matthews	NC	Solar	Intermediate	Yes	1.08
Facility 1761	Greensboro	NC	Solar	Intermediate	Yes	3
Facility 1762	Browns Summit	NC	Solar	Intermediate	Yes	3.84
Facility 1763	Union Mills	NC	Solar	Intermediate	Yes	1.935
Facility 1764	Mount Airy	NC	Solar	Intermediate	Yes	4.3
Facility 1765	Pisgah Forest	NC	Solar	Intermediate	Yes	6
Facility 1766	Gerton	NC	Solar	Intermediate	Yes	3.152
Facility 1767	Denver	NC	Solar	Intermediate	Yes	3.784
Facility 1768	Durham	NC	Solar	Intermediate	Yes	3.84
Facility 1769	Hillsborough	NC	Solar	Intermediate	Yes	3.8
Facility 1770	Hillsborough	NC	Solar	Intermediate	Yes	4
Facility 1771	Ronda	NC	Solar	Intermediate	Yes	3.49
Facility 1772	Winston-Salem	NC	Solar	Intermediate	Yes	1.72
Facility 1773	Charlotte	NC	Solar	Intermediate	Yes	4.068
Facility 1774	Tobaccoville	NC	Solar	Intermediate	Yes	3.081
Facility 1775	Kings Mountain	NC	Solar	Intermediate	Yes	1999
Facility 1776	Indian Trail	NC	Solar	Intermediate	Yes	15.787
Facility 1777	Charlotte	NC	Solar	Intermediate	Yes	7.965
Facility 1778	Charlotte	NC	Solar	Intermediate	Yes	5
Facility 1779	Clemmons	NC	Solar	Intermediate	Yes	2.58
Facility 1780	Kings Mountain	NC	Solar	Intermediate	Yes	135
Facility 1781	Indian Trail	NC	Solar	Intermediate	Yes	3.494
Facility 1782	Kernersville	NC	Solar	Intermediate	Yes	6.02

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1783	Kernersville	NC	Solar	Intermediate	Yes	6.02
Facility 1784	Kernersville	NC	Solar	Intermediate	Yes	6.02
Facility 1785	Kernersville	NC	Solar	Intermediate	Yes	6.02
Facility 1786	Kernersville	NC	Solar	Intermediate	Yes	3.87
Facility 1787	Durham	NC	Solar	Intermediate	Yes	2.15
Facility 1788	Norwood	NC	Solar	Intermediate	Yes	2.054
Facility 1789	Durham	NC	Solar	Intermediate	Yes	2.749
Facility 1790	Belmont	NC	Solar	Intermediate	Yes	7.258
Facility 1791	Summerfield	NC	Solar	Intermediate	Yes	5.674
Facility 1792	Belmont	NC	Solar	Intermediate	Yes	9
Facility 1793	Mint Hill	NC	Solar	Intermediate	Yes	6.3
Facility 1794	Denver	NC	Solar	Intermediate	Yes	4.109
Facility 1795	Huntersville	NC	Solar	Intermediate	Yes	4.91
Facility 1796	Durham	NC	Solar	Intermediate	Yes	2.831
Facility 1797	Winston-Salem	NC	Solar	Intermediate	Yes	2.88
Facility 1798	Charlotte	NC	Solar	Intermediate	Yes	4.2
Facility 1799	Troutman	NC	Solar	Intermediate	Yes	5.252
Facility 1800	Mebane	NC	Solar	Intermediate	Yes	2.88
Facility 1801	Elon	NC	Solar	Intermediate	Yes	7.008
Facility 1802	Kannapolis	NC	Solar	Intermediate	Yes	6.534
Facility 1803	Charlotte	NC	Solar	Intermediate	Yes	4.582
Facility 1804	Greensboro	NC	Solar	Intermediate	Yes	2.794
Facility 1805	Winston-Salem	NC	Solar	Intermediate	Yes	3.84
Facility 1806	High Point	NC	Solar	Intermediate	Yes	8.813
Facility 1807	High Point	NC	Solar	Intermediate	Yes	8.813
Facility 1808	Durham	NC	Solar	Intermediate	Yes	3.174
Facility 1809	Chapel Hill	NC	Solar	Intermediate	Yes	3
Facility 1810	Charlotte	NC	Solar	Intermediate	Yes	4.32
Facility 1811	Wingate	NC	Solar	Intermediate	Yes	5
Facility 1812	Charlotte	NC	Solar	Intermediate	Yes	5.064
Facility 1813	Hillsborough	NC	Solar	Intermediate	Yes	3.56
Facility 1814	Charlotte	NC	Solar	Intermediate	Yes	6
Facility 1815	Durham	NC	Solar	Intermediate	Yes	2.31

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1816	Lincolnton	NC	Solar	Intermediate	Yes	3
Facility 1817	Chapel Hill	NC	Solar	Intermediate	Yes	3.6
Facility 1818	Hillsborough	NC	Solar	Intermediate	Yes	2.58
Facility 1819	Hickory	NC	Solar	Intermediate	Yes	2.4
Facility 1820	Graham	NC	Solar	Intermediate	Yes	2.1
Facility 1821	Clemmons	NC	Solar	Intermediate	Yes	1.075
Facility 1822	Matthews	NC	Solar	Intermediate	Yes	6.75
Facility 1823	Salisbury	NC	Solar	Intermediate	Yes	1.72
Facility 1824	Chapel Hill	NC	Solar	Intermediate	Yes	5
Facility 1825	Denver	NC	Solar	Intermediate	Yes	3.765
Facility 1826	Stanley	NC	Solar	Intermediate	Yes	4999
Facility 1827	China Grove	NC	Solar	Intermediate	Yes	2.58
Facility 1828	Durham	NC	Solar	Intermediate	Yes	5.2
Facility 1829	Wilkesboro	NC	Solar	Intermediate	Yes	5.16
Facility 1830	Chapel Hill	NC	Solar	Intermediate	Yes	2.4
Facility 1831	Marion	NC	Solar	Intermediate	Yes	3.36
Facility 1832	Chapel Hill	NC	Solar	Intermediate	Yes	5.56
Facility 1833	China Grove	NC	Solar	Intermediate	Yes	1.7
Facility 1834	Waxhaw	NC	Solar	Intermediate	Yes	2.94
Facility 1835	Advance	NC	Solar	Intermediate	Yes	7.848
Facility 1836	Chapel Hill	NC	Solar	Intermediate	Yes	4
Facility 1837	Saluda	NC	Solar	Intermediate	Yes	3.655
Facility 1838	Clemmons	NC	Solar	Intermediate	Yes	3.87
Facility 1839	Durham	NC	Solar	Intermediate	Yes	5.16
Facility 1840	Charlotte	NC	Solar	Intermediate	Yes	6
Facility 1841	Penrose	NC	Solar	Intermediate	Yes	8.88
Facility 1842	Otto	NC	Solar	Intermediate	Yes	2.58
Facility 1843	Stokesdale	NC	Solar	Intermediate	Yes	4
Facility 1844	Charlotte	NC	Solar	Intermediate	Yes	3.75
Facility 1845	Salisbury	NC	Solar	Intermediate	Yes	12
Facility 1846	Salisbury	NC	Solar	Intermediate	Yes	2
Facility 1847	Harrisburg	NC	Solar	Intermediate	Yes	6.66
Facility 1848	Durham	NC	Solar	Intermediate	Yes	3

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1849	Charlotte	NC	Solar	Intermediate	Yes	1.4
Facility 1850	Lexington	NC	Solar	Intermediate	Yes	3.45
Facility 1851	Charlotte	NC	Solar	Intermediate	Yes	2.58
Facility 1852	Reidsville	NC	Solar	Intermediate	Yes	4950
Facility 1853	Chapel Hill	NC	Solar	Intermediate	Yes	4
Facility 1854	Shelby	NC	Solar	Intermediate	Yes	4.7
Facility 1855	Davidson	NC	Solar	Intermediate	Yes	3.5
Facility 1856	Durham	NC	Solar	Intermediate	Yes	3.87
Facility 1857	Winston-Salem	NC	Solar	Intermediate	Yes	4.269
Facility 1858	Mount Airy	NC	Solar	Intermediate	Yes	2.668
Facility 1859	Marshville	NC	Solar	Intermediate	Yes	4950
Facility 1860	Chapel Hill	NC	Solar	Intermediate	Yes	6.366
Facility 1861	Brevard	NC	Solar	Intermediate	Yes	3.92
Facility 1862	Chapel Hill	NC	Solar	Intermediate	Yes	1.92
Facility 1863	Charlotte	NC	Solar	Intermediate	Yes	1.72
Facility 1864	Huntersville	NC	Solar	Intermediate	Yes	4
Facility 1865	Mooresville	NC	Solar	Intermediate	Yes	60
Facility 1866	Charlotte	NC	Solar	Intermediate	Yes	6.98
Facility 1867	Salisbury	NC	Solar	Intermediate	Yes	2.523
Facility 1868	Mooresville	NC	Solar	Intermediate	Yes	2.825
Facility 1869	Hickory	NC	Solar	Intermediate	Yes	28
Facility 1870	Conover	NC	Solar	Intermediate	Yes	4.75
Facility 1871	Durham	NC	Solar	Intermediate	Yes	2.205
Facility 1872	Randleman	NC	Solar	Intermediate	Yes	2.58
Facility 1873	Chapel Hill	NC	Solar	Intermediate	Yes	4
Facility 1874	Charlotte	NC	Solar	Intermediate	Yes	1.72
Facility 1875	Charlotte	NC	Solar	Intermediate	Yes	2.695
Facility 1876	Clemmons	NC	Solar	Intermediate	Yes	14
Facility 1877	Mills River	NC	Solar	Intermediate	Yes	1.5
Facility 1878	Mebane	NC	Solar	Intermediate	Yes	3.11
Facility 1879	Hillsborough	NC	Solar	Intermediate	Yes	5
Facility 1880	Snow Camp	NC	Solar	Intermediate	Yes	6
Facility 1881	Charlotte	NC	Solar	Intermediate	Yes	0.86

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1882	Durham	NC	Solar	Intermediate	Yes	4.32
Facility 1883	Winston-Salem	NC	Solar	Intermediate	Yes	3.15
Facility 1884	Franklin	NC	Solar	Intermediate	Yes	5
Facility 1885	Hendersonville	NC	Solar	Intermediate	Yes	2.7
Facility 1886	Chapel Hill	NC	Solar	Intermediate	Yes	1.948
Facility 1887	Charlotte	NC	Solar	Intermediate	Yes	5.494
Facility 1888	Reidsville	NC	Solar	Intermediate	Yes	7.139
Facility 1889	Durham	NC	Solar	Intermediate	Yes	4.501
Facility 1890	Jamestown	NC	Solar	Intermediate	Yes	5.18
Facility 1891	Hickory	NC	Solar	Intermediate	Yes	4.573
Facility 1892	Haw River	NC	Solar	Intermediate	Yes	3.504
Facility 1893	Clemmons	NC	Solar	Intermediate	Yes	7.31
Facility 1894	Durham	NC	Solar	Intermediate	Yes	2.205
Facility 1895	Winston-Salem	NC	Solar	Intermediate	Yes	9.72
Facility 1896	Charlotte	NC	Solar	Intermediate	Yes	9.46
Facility 1897	Mebane	NC	Solar	Intermediate	Yes	5.16
Facility 1898	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 1899	Charlotte	NC	Solar	Intermediate	Yes	3.15
Facility 1900	Clemmons	NC	Solar	Intermediate	Yes	3.36
Facility 1901	Chapel Hill	NC	Solar	Intermediate	Yes	4.8
Facility 1902	Charlotte	NC	Solar	Intermediate	Yes	3.44
Facility 1903	Concord	NC	Solar	Intermediate	Yes	4.73
Facility 1904	Forrest City	NC	Solar	Intermediate	Yes	5.892
Facility 1905	East Bend	NC	Solar	Intermediate	Yes	2.314
Facility 1906	East Bend	NC	Solar	Intermediate	Yes	3.766
Facility 1907	Charlotte	NC	Solar	Intermediate	Yes	5.91
Facility 1908	Taylorsville	NC	Solar	Intermediate	Yes	3.98
Facility 1909	Morganton	NC	Solar	Intermediate	Yes	3.5
Facility 1910	Browns Summit	NC	Solar	Intermediate	Yes	2.25
Facility 1911	Chapel Hill	NC	Solar	Intermediate	Yes	2.36
Facility 1912	Chapel Hill	NC	Solar	Intermediate	Yes	7.5
Facility 1913	Charlotte	NC	Solar	Intermediate	Yes	0.7
Facility 1914	Harrisburg	NC	Solar	Intermediate	Yes	1.92

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1915	Hendersonville	NC	Solar	Intermediate	Yes	3.461
Facility 1916	Mt Airy	NC	Solar	Intermediate	Yes	1000
Facility 1917	Mayodan	NC	Hydroelectric	Baseload	Yes	951
Facility 1918	Mayodan	NC	Hydroelectric	Baseload	Yes	1275
Facility 1919	Durham	NC	Solar	Intermediate	Yes	5.058
Facility 1920	Clemmons	NC	Solar	Intermediate	Yes	5.831
Facility 1921	Brevard	NC	Solar	Intermediate	Yes	3.82
Facility 1922	High Point	NC	Solar	Intermediate	Yes	3.077
Facility 1923	Indian Trail	NC	Solar	Intermediate	Yes	7.304
Facility 1924	Franklin	NC	Solar	Intermediate	Yes	8.77
Facility 1925	Durham	NC	Solar	Intermediate	Yes	4.576
Facility 1926	Durham	NC	Solar	Intermediate	Yes	6.175
Facility 1927	Charlotte	NC	Solar	Intermediate	Yes	3.677
Facility 1928	Durham	NC	Solar	Intermediate	Yes	2.962
Facility 1929	Franklin	NC	Solar	Intermediate	Yes	5.237
Facility 1930	Durham	NC	Solar	Intermediate	Yes	5.829
Facility 1931	Hendersonville	NC	Solar	Intermediate	Yes	4.029
Facility 1932	Zirconia	NC	Solar	Intermediate	Yes	11.58
Facility 1933	Durham	NC	Solar	Intermediate	Yes	9.152
Facility 1934	Mooresville	NC	Solar	Intermediate	Yes	1.982
Facility 1935	Zirconia	NC	Solar	Intermediate	Yes	4.29
Facility 1936	Winston-Salem	NC	Solar	Intermediate	Yes	4.806
Facility 1937	Harrisburg	NC	Solar	Intermediate	Yes	3.479
Facility 1938	Durham	NC	Solar	Intermediate	Yes	6.449
Facility 1939	Rockwell	NC	Solar	Intermediate	Yes	5000
Facility 1940	Mount Airy	NC	Solar	Intermediate	Yes	4.658
Facility 1941	Greensboro	NC	Solar	Intermediate	Yes	8.751
Facility 1942	Hickory	NC	Solar	Intermediate	Yes	8.17
Facility 1943	Charlotte	NC	Solar	Intermediate	Yes	49
Facility 1944	Charlotte	NC	Solar	Intermediate	Yes	12
Facility 1945	Charlotte	NC	Solar	Intermediate	Yes	4.722
Facility 1946	Kernersville	NC	Solar	Intermediate	Yes	8.584
Facility 1947	Charlotte	NC	Solar	Intermediate	Yes	6.204

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1948	Lincolnton	NC	Solar	Intermediate	Yes	7.617
Facility 1949	Brevard	NC	Solar	Intermediate	Yes	2.704
Facility 1950	Morrisville	NC	Solar	Intermediate	Yes	6.479
Facility 1951	Huntersville	NC	Solar	Intermediate	Yes	4
Facility 1952	Clemmons	NC	Solar	Intermediate	Yes	2.96
Facility 1953	Durham	NC	Solar	Intermediate	Yes	3
Facility 1954	Charlotte	NC	Solar	Intermediate	Yes	4
Facility 1955	Durham	NC	Solar	Intermediate	Yes	7
Facility 1956	Charlotte	NC	Solar	Intermediate	Yes	5.221
Facility 1957	Randleman	NC	Solar	Intermediate	Yes	6.639
Facility 1958	Charlotte	NC	Solar	Intermediate	Yes	5.576
Facility 1959	Durham	NC	Solar	Intermediate	Yes	1.42
Facility 1960	Hendersonville	NC	Solar	Intermediate	Yes	3.24
Facility 1961	Winston-Salem	NC	Solar	Intermediate	Yes	9.119
Facility 1962	Mooresville	NC	Solar	Intermediate	Yes	1.938
Facility 1963	Hendersonville	NC	Solar	Intermediate	Yes	8.428
Facility 1964	Archdale	NC	Solar	Intermediate	Yes	9.1
Facility 1965	Randleman	NC	Solar	Intermediate	Yes	4.8
Facility 1966	Hendersonville	NC	Solar	Intermediate	Yes	1.72
Facility 1967	Durham	NC	Solar	Intermediate	Yes	4.305
Facility 1968	Union Mills	NC	Solar	Intermediate	Yes	1.96
Facility 1969	Salisbury	NC	Solar	Intermediate	Yes	4.805
Facility 1970	Winston-Salem	NC	Solar	Intermediate	Yes	2.2
Facility 1971	Charlotte	NC	Solar	Intermediate	Yes	5.76
Facility 1972	Chapel Hill	NC	Solar	Intermediate	Yes	3.25
Facility 1973	Charlotte	NC	Solar	Intermediate	Yes	12
Facility 1974	King	NC	Solar	Intermediate	Yes	2.64
Facility 1975	Stanfield	NC	Solar	Intermediate	Yes	6
Facility 1976	Chapel Hill	NC	Solar	Intermediate	Yes	1.32
Facility 1977	Elon	NC	Solar	Intermediate	Yes	5.16
Facility 1978	Yadkinville	NC	Solar	Intermediate	Yes	14.2
Facility 1979	Charlotte	NC	Solar	Intermediate	Yes	1.53
Facility 1980	Charlotte	NC	Solar	Intermediate	Yes	1.89

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 1981	Glenville	NC	Solar	Intermediate	Yes	2.76
Facility 1982	Charlotte	NC	Solar	Intermediate	Yes	2.15
Facility 1983	Durham	NC	Solar	Intermediate	Yes	5
Facility 1984	Charlotte	NC	Solar	Intermediate	Yes	5
Facility 1985	Charlotte	NC	Solar	Intermediate	Yes	8.8
Facility 1986	Charlotte	NC	Solar	Intermediate	Yes	1.72
Facility 1987	Old Fort	NC	Solar	Intermediate	Yes	3.84
Facility 1988	Union Mills	NC	Solar	Intermediate	Yes	1.94
Facility 1989	Charlotte	NC	Solar	Intermediate	Yes	4.905
Facility 1990	Belmont	NC	Solar	Intermediate	Yes	3.44
Facility 1991	Hickory	NC	Solar	Intermediate	Yes	4.8
Facility 1992	Mooresville	NC	Solar	Intermediate	Yes	2.795
Facility 1993	Mount Ulla	NC	Solar	Intermediate	Yes	7.714
Facility 1994	Davidson	NC	Solar	Intermediate	Yes	4
Facility 1995	Yadkinville	NC	Solar	Intermediate	Yes	6
Facility 1996	Salisbury	NC	Solar	Intermediate	Yes	2.88
Facility 1997	Winston-Salem	NC	Solar	Intermediate	Yes	3.84
Facility 1998	Greensboro	NC	Solar	Intermediate	Yes	5.787
Facility 1999	Charlotte	NC	Solar	Intermediate	Yes	3
Facility 2000	Durham	NC	Solar	Intermediate	Yes	5
Facility 2001	Lexington	NC	Solar	Intermediate	Yes	4.32
Facility 2002	Lake Lure	NC	Solar	Intermediate	Yes	3
Facility 2003	Oak Ridge	NC	Solar	Intermediate	Yes	3.36
Facility 2004	Salisbury	NC	Solar	Intermediate	Yes	2.58
Facility 2005	Salisbury	NC	Solar	Intermediate	Yes	4.3
Facility 2006	Chapel Hill	NC	Solar	Intermediate	Yes	54
Facility 2007	Durham	NC	Solar	Intermediate	Yes	3.23
Facility 2008	Franklin	NC	Solar	Intermediate	Yes	1.44
Facility 2009	Columbus	NC	Solar	Intermediate	Yes	2.782
Facility 2010	Mooresville	NC	Solar	Intermediate	Yes	1500
Facility 2011	Whitsett	NC	Solar	Intermediate	Yes	7.6
Facility 2012	Carrboro	NC	Solar	Intermediate	Yes	4.539
Facility 2013	Hickory	NC	Solar	Intermediate	Yes	5.055

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2014	Concord	NC	Solar	Intermediate	Yes	3.322
Facility 2015	Hendersonville	NC	Solar	Intermediate	Yes	4.287
Facility 2016	Randleman	NC	Solar	Intermediate	Yes	4998
Facility 2017	Charlotte	NC	Solar	Intermediate	Yes	3.201
Facility 2018	High Shoals	NC	Hydroelectric	Baseload	Yes	1800
Facility 2019	Burlington	NC	Solar	Intermediate	Yes	3000
Facility 2020	Charlotte	NC	Solar	Intermediate	Yes	2
Facility 2021	Graham	NC	Solar	Intermediate	Yes	3000
Facility 2022	Durham	NC	Solar	Intermediate	Yes	2.345
Facility 2023	Township of Ridenhour	NC	Solar	Intermediate	Yes	4998
Facility 2024	Advance	NC	Solar	Intermediate	Yes	4.704
Facility 2025	Mocksville	NC	Solar	Intermediate	Yes	5000
Facility 2026	Mooresville	NC	Solar	Intermediate	Yes	2.054
Facility 2027	Durham	NC	Solar	Intermediate	Yes	3
Facility 2028	Graham	NC	Solar	Intermediate	Yes	3
Facility 2029	Salisbury	NC	Solar	Intermediate	Yes	3.36
Facility 2030	Charlotte	NC	Solar	Intermediate	Yes	0.96
Facility 2031	Monroe	NC	Solar	Intermediate	Yes	4998
Facility 2032	Charlotte	NC	Solar	Intermediate	Yes	5.38
Facility 2033	Hickory	NC	Solar	Intermediate	Yes	2.673
Facility 2034	Brevard	NC	Solar	Intermediate	Yes	5.76
Facility 2035	Reidsville	NC	Solar	Intermediate	Yes	4950
Facility 2036	Summerfield	NC	Solar	Intermediate	Yes	4.341
Facility 2037	Graham	NC	Solar	Intermediate	Yes	2.944
Facility 2038	Durham	NC	Solar	Intermediate	Yes	4.917
Facility 2039	Midland	NC	Solar	Intermediate	Yes	5.111
Facility 2040	Pfafftown	NC	Solar	Intermediate	Yes	1.862
Facility 2041	Durham	NC	Solar	Intermediate	Yes	3.758
Facility 2042	Germanton	NC	Solar	Intermediate	Yes	3.01
Facility 2043	Moravian Falls	NC	Solar	Intermediate	Yes	6.586
Facility 2044	Stanley	NC	Solar	Intermediate	Yes	8.771
Facility 2045	Salisbury	NC	Solar	Intermediate	Yes	4.977
Facility 2046	Lake Lure	NC	Solar	Intermediate	Yes	1.453

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2047	Vale	NC	Solar	Intermediate	Yes	3.003
Facility 2048	Brevard	NC	Solar	Intermediate	Yes	5.947
Facility 2049	Salisbury	NC	Solar	Intermediate	Yes	24
Facility 2050	Charlotte	NC	Solar	Intermediate	Yes	18.93
Facility 2051	Harrisburg	NC	Solar	Intermediate	Yes	4.305
Facility 2052	Durham	NC	Solar	Intermediate	Yes	4.495
Facility 2053	Clemmons	NC	Solar	Intermediate	Yes	7.374
Facility 2054	Hickory	NC	Solar	Intermediate	Yes	7.22
Facility 2055	Winston-Salem	NC	Solar	Intermediate	Yes	2.018
Facility 2056	Gastonia	NC	Solar	Intermediate	Yes	5.649
Facility 2057	Harrisburg	NC	Solar	Intermediate	Yes	8.816
Facility 2058	Tryon	NC	Solar	Intermediate	Yes	0.86
Facility 2059	Hillsborough	NC	Solar	Intermediate	Yes	4.348
Facility 2060	North Wilkesboro	NC	Solar	Intermediate	Yes	4.488
Facility 2061	Charlotte	NC	Solar	Intermediate	Yes	4.8
Facility 2062	Durham	NC	Solar	Intermediate	Yes	4.339
Facility 2063	Stanley	NC	Solar	Intermediate	Yes	6
Facility 2064	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 2065	Durham	NC	Solar	Intermediate	Yes	2.58
Facility 2066	Harrisburg	NC	Solar	Intermediate	Yes	5.743
Facility 2067	Chapel Hill	NC	Solar	Intermediate	Yes	5.52
Facility 2068	Burlington	NC	Solar	Intermediate	Yes	4.3
Facility 2069	Haw River	NC	Solar	Intermediate	Yes	3.87
Facility 2070	Graham	NC	Solar	Intermediate	Yes	5.5
Facility 2071	Charlotte	NC	Solar	Intermediate	Yes	3.8
Facility 2072	Charlotte	NC	Solar	Intermediate	Yes	4.861
Facility 2073	Newton	NC	Solar	Intermediate	Yes	5
Facility 2074	Charlotte	NC	Solar	Intermediate	Yes	35
Facility 2075	Gastonia	NC	Solar	Intermediate	Yes	635
Facility 2076	Charlotte	NC	Solar	Intermediate	Yes	30
Facility 2077	Charlotte	NC	Solar	Intermediate	Yes	3.447
Facility 2078	Research Triangle Park	NC	Solar	Intermediate	Yes	28
Facility 2079	Hickory	NC	Solar	Intermediate	Yes	15.2

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2080	Chapel Hill	NC	Solar	Intermediate	Yes	6.044
Facility 2081	Pilot Mountain	NC	Solar	Intermediate	Yes	4.109
Facility 2082	Troutman	NC	Solar	Intermediate	Yes	7.601
Facility 2083	Durham	NC	Solar	Intermediate	Yes	4.669
Facility 2084	Shelby	NC	Solar	Intermediate	Yes	1990
Facility 2085	Durham	NC	Solar	Intermediate	Yes	4.475
Facility 2086	Durham	NC	Solar	Intermediate	Yes	3.19
Facility 2087	Conover	NC	Solar	Intermediate	Yes	135
Facility 2088	Chapel Hill	NC	Solar	Intermediate	Yes	3.6
Facility 2089	Monroe	NC	Solar	Intermediate	Yes	2.318
Facility 2090	Monroe	NC	Solar	Intermediate	Yes	2.819
Facility 2091	Wilkesboro	NC	Solar	Intermediate	Yes	12
Facility 2092	liberty	NC	Solar	Intermediate	Yes	5000
Facility 2093	Charlotte	NC	Solar	Intermediate	Yes	4.304
Facility 2094	Hickory	NC	Solar	Intermediate	Yes	2.58
Facility 2095	Charlotte	NC	Solar	Intermediate	Yes	5
Facility 2096	Pisgah Forest	NC	Solar	Intermediate	Yes	4.73
Facility 2097	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 2098	Charlotte	NC	Solar	Intermediate	Yes	12.174
Facility 2099	Charlotte	NC	Solar	Intermediate	Yes	6.325
Facility 2100	Wingate	NC	Solar	Intermediate	Yes	2.63
Facility 2101	Salem	NC	Solar	Intermediate	Yes	1
Facility 2102	Hendersonville	NC	Solar	Intermediate	Yes	6
Facility 2103	Gibsonville	NC	Solar	Intermediate	Yes	3.33
Facility 2104	Durham	NC	Solar	Intermediate	Yes	5.847
Facility 2105	Kannapolis	NC	Solar	Intermediate	Yes	10
Facility 2106	Mill Springs	NC	Hydroelectric	Baseload	Yes	5500
Facility 2107	Brevard	NC	Solar	Intermediate	Yes	6.626
Facility 2108	Reidsville	NC	Solar	Intermediate	Yes	3.028
Facility 2109	Waxhaw	NC	Solar	Intermediate	Yes	4.622
Facility 2110	Charlotte	NC	Solar	Intermediate	Yes	6.3
Facility 2111	Mebane	NC	Solar	Intermediate	Yes	221.76
Facility 2112	Charlotte	NC	Solar	Intermediate	Yes	3.421

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2113	Hillsborough	NC	Solar	Intermediate	Yes	18.48
Facility 2114	Reidsville	NC	Solar	Intermediate	Yes	3.888
Facility 2115	Hillsborough	NC	Solar	Intermediate	Yes	18.48
Facility 2116	Salisbury	NC	Solar	Intermediate	Yes	4.348
Facility 2117	Thomasville	NC	Solar	Intermediate	Yes	1500
Facility 2118	Monroe	NC	Solar	Intermediate	Yes	5000
Facility 2119	Cornelius	NC	Solar	Intermediate	Yes	4
Facility 2120	Charlotte	NC	Solar	Intermediate	Yes	5.59
Facility 2121	Durham	NC	Solar	Intermediate	Yes	3.821
Facility 2122	Salisbury	NC	Solar	Intermediate	Yes	7.5
Facility 2123	Sylva	NC	Solar	Intermediate	Yes	4.573
Facility 2124	Charlotte	NC	Solar	Intermediate	Yes	7.7
Facility 2125	Cornelius	NC	Solar	Intermediate	Yes	18.287
Facility 2126	Mooresville	NC	Solar	Intermediate	Yes	7.613
Facility 2127	Charlotte	NC	Biogas	Intermediate	Yes	5200
Facility 2128	Huntersville	NC	Solar	Intermediate	Yes	2.511
Facility 2129	Charlotte	NC	Solar	Intermediate	Yes	33.88
Facility 2130	Bessemer City	NC	Solar	Intermediate	Yes	6.423
Facility 2131	Charlotte	NC	Solar	Intermediate	Yes	2.064
Facility 2132	Durham	NC	Solar	Intermediate	Yes	5.642
Facility 2133	Lincolnton	NC	Solar	Intermediate	Yes	5000
Facility 2134	Denver	NC	Solar	Intermediate	Yes	3.708
Facility 2135	Denver	NC	Solar	Intermediate	Yes	2.767
Facility 2136	Woodleaf	NC	Solar	Intermediate	Yes	5.828
Facility 2137	Woodleaf	NC	Solar	Intermediate	Yes	3.325
Facility 2138	Harrisburg	NC	Solar	Intermediate	Yes	5.301
Facility 2139	Carrboro	NC	Solar	Intermediate	Yes	5.3
Facility 2140	Charlotte	NC	Solar	Intermediate	Yes	5
Facility 2141	Charlotte	NC	Wind	Intermediate	Yes	3
Facility 2142	Salisbury	NC	Solar	Intermediate	Yes	5.977
Facility 2143	Greensboro	NC	Solar	Intermediate	Yes	13.483
Facility 2144	Carrboro	NC	Solar	Intermediate	Yes	4.5
Facility 2145	Durham	NC	Solar	Intermediate	Yes	7.77

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2146	Kannapolis	NC	Solar	Intermediate	Yes	4.622
Facility 2147	Durham	NC	Solar	Intermediate	Yes	3.209
Facility 2148	Durham	NC	Solar	Intermediate	Yes	1.901
Facility 2149	Valdese	NC	Solar	Intermediate	Yes	9.09
Facility 2150	Chapel Hill	NC	Solar	Intermediate	Yes	6
Facility 2151	Morrisville	NC	Solar	Intermediate	Yes	6.209
Facility 2152	Germanton	NC	Solar	Intermediate	Yes	4.842
Facility 2153	Hiddenite	NC	Solar	Intermediate	Yes	3.773
Facility 2154	Hickory	NC	Solar	Intermediate	Yes	4.807
Facility 2155	Hendersonville	NC	Solar	Intermediate	Yes	0.991
Facility 2156	China Grove	NC	Solar	Intermediate	Yes	2.318
Facility 2157	Harrisburg	NC	Solar	Intermediate	Yes	5.301
Facility 2158	Durham	NC	Solar	Intermediate	Yes	4.341
Facility 2159	Charlotte	NC	Solar	Intermediate	Yes	4.91
Facility 2160	Salisbury	NC	Solar	Intermediate	Yes	5.301
Facility 2161	Charlotte	NC	Solar	Intermediate	Yes	6.66
Facility 2162	Charlotte	NC	Solar	Intermediate	Yes	9.67
Facility 2163	Durham	NC	Solar	Intermediate	Yes	3
Facility 2164	Mooresville	NC	Solar	Intermediate	Yes	18.9
Facility 2165	Charlotte	NC	Solar	Intermediate	Yes	4.25
Facility 2166	Summerfield	NC	Solar	Intermediate	Yes	1.72
Facility 2167	Durham	NC	Solar	Intermediate	Yes	3.5
Facility 2168	Old Fort	NC	Solar	Intermediate	Yes	4.68
Facility 2169	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 2170	Monroe	NC	Solar	Intermediate	Yes	1.08
Facility 2171	McLeansville	NC	Solar	Intermediate	Yes	3.6
Facility 2172	Oak Ridge	NC	Solar	Intermediate	Yes	3.01
Facility 2173	Stokesdale	NC	Solar	Intermediate	Yes	6
Facility 2174	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 2175	Durham	NC	Solar	Intermediate	Yes	6
Facility 2176	Kings Mountain	NC	Solar	Intermediate	Yes	81.08
Facility 2177	Charlotte	NC	Solar	Intermediate	Yes	4
Facility 2178	Monroe	NC	Solar	Intermediate	Yes	0.86

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2179	Mooresville	NC	Solar	Intermediate	Yes	7.032
Facility 2180	Charlotte	NC	Solar	Intermediate	Yes	3.746
Facility 2181	Morrisville	NC	Solar	Intermediate	Yes	6.209
Facility 2182	High Point	NC	Solar	Intermediate	Yes	2.856
Facility 2183	Salisbury	NC	Solar	Intermediate	Yes	7.7
Facility 2184	Charlotte	NC	Solar	Intermediate	Yes	1.72
Facility 2185	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 2186	Franklin	NC	Solar	Intermediate	Yes	1.92
Facility 2187	Lawndale	NC	Solar	Intermediate	Yes	5.76
Facility 2188	Chapel Hill	NC	Solar	Intermediate	Yes	3.78
Facility 2189	Lewisville	NC	Solar	Intermediate	Yes	7.68
Facility 2190	Salisbury	NC	Solar	Intermediate	Yes	4.2
Facility 2191	Rockwell	NC	Solar	Intermediate	Yes	3.44
Facility 2192	Clemmons	NC	Solar	Intermediate	Yes	7.68
Facility 2193	Chapel Hill	NC	Solar	Intermediate	Yes	4
Facility 2194	Graham	NC	Solar	Intermediate	Yes	2
Facility 2195	Gibsonville	NC	Solar	Intermediate	Yes	3.44
Facility 2196	Lincolnton	NC	Solar	Intermediate	Yes	0.86
Facility 2197	Durham	NC	Solar	Intermediate	Yes	5
Facility 2198	Whitsett	NC	Solar	Intermediate	Yes	15
Facility 2199	Durham	NC	Solar	Intermediate	Yes	3.627
Facility 2200	Charlotte	NC	Solar	Intermediate	Yes	9.02
Facility 2201	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 2202	Midland	NC	Solar	Intermediate	Yes	7.562
Facility 2203	Greensboro	NC	Solar	Intermediate	Yes	2.944
Facility 2204	Valdese	NC	Solar	Intermediate	Yes	3.461
Facility 2205	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 2206	Jamestown	NC	Solar	Intermediate	Yes	5.426
Facility 2207	Concord	NC	Other	Intermediate	Yes	0
Facility 2208	Morrisville	NC	Solar	Intermediate	Yes	3.855
Facility 2209	Charlotte	NC	Solar	Intermediate	Yes	2.422
Facility 2210	Jonesville	NC	Solar	Intermediate	Yes	3.6
Facility 2211	Kannapolis	NC	Solar	Intermediate	Yes	6.534

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2212	Mooresville	NC	Solar	Intermediate	Yes	6.593
Facility 2213	Tryon	NC	Solar	Intermediate	Yes	3.84
Facility 2214	Durham	NC	Solar	Intermediate	Yes	3.85
Facility 2215	Durham	NC	Solar	Intermediate	Yes	4.3
Facility 2216	Denver	NC	Solar	Intermediate	Yes	9.18
Facility 2217	Greensboro	NC	Solar	Intermediate	Yes	2.7
Facility 2218	Winston-Salem	NC	Solar	Intermediate	Yes	6
Facility 2219	Burlington	NC	Solar	Intermediate	Yes	3
Facility 2220	Butner	NC	Solar	Intermediate	Yes	5.1
Facility 2221	Durham	NC	Solar	Intermediate	Yes	3.36
Facility 2222	Charlotte	NC	Solar	Intermediate	Yes	6.494
Facility 2223	Charlotte	NC	Solar	Intermediate	Yes	1.57
Facility 2224	Kernersville	NC	Solar	Intermediate	Yes	3.709
Facility 2225	Durham	NC	Solar	Intermediate	Yes	4.792
Facility 2226	Charlotte	NC	Solar	Intermediate	Yes	6.117
Facility 2227	Ellenboro	NC	Solar	Intermediate	Yes	5
Facility 2228	Ellenboro	NC	Solar	Intermediate	Yes	3.68
Facility 2229	Salisbury	NC	Solar	Intermediate	Yes	2.58
Facility 2230	Kannapolis	NC	Solar	Intermediate	Yes	9.549
Facility 2231	Charlotte	NC	Solar	Intermediate	Yes	7.6
Facility 2232	Shelby	NC	Hydroelectric	Baseload	Yes	600
Facility 2233	Greensboro	NC	Solar	Intermediate	Yes	1.8
Facility 2234	Sylva	NC	Solar	Intermediate	Yes	9
Facility 2235	Stem	NC	Solar	Intermediate	Yes	7.6
Facility 2236	Durham	NC	Solar	Intermediate	Yes	4.269
Facility 2237	Mocksville	NC	Solar	Intermediate	Yes	5.97
Facility 2238	Union Mills	NC	Solar	Intermediate	Yes	2.568
Facility 2239	Mount Pleasant	NC	Solar	Intermediate	Yes	3.549
Facility 2240	Conover	NC	Solar	Intermediate	Yes	7.554
Facility 2241	Newton	NC	Solar	Intermediate	Yes	4.414
Facility 2242	Hickory	NC	Solar	Intermediate	Yes	5.932
Facility 2243	Hickory	NC	Solar	Intermediate	Yes	9.141
Facility 2244	Greensboro	NC	Solar	Intermediate	Yes	4.592

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2245	High Point	NC	Solar	Intermediate	Yes	7.166
Facility 2246	Chapel Hill	NC	Solar	Intermediate	Yes	5.98
Facility 2247	Mills River	NC	Solar	Intermediate	Yes	2.571
Facility 2248	Chapel Hill	NC	Solar	Intermediate	Yes	5
Facility 2249	Charlotte	NC	Solar	Intermediate	Yes	7.6
Facility 2250	Charlotte	NC	Solar	Intermediate	Yes	3.5
Facility 2251	Carrboro	NC	Solar	Intermediate	Yes	4.086
Facility 2252	Salisbury	NC	Solar	Intermediate	Yes	4.32
Facility 2253	Lenoir	NC	Solar	Intermediate	Yes	3.325
Facility 2254	Waxhaw	NC	Solar	Intermediate	Yes	5.111
Facility 2255	Mooresville	NC	Solar	Intermediate	Yes	7.773
Facility 2256	Durham	NC	Solar	Intermediate	Yes	5.311
Facility 2257	Winston-Salem	NC	Solar	Intermediate	Yes	2.753
Facility 2258	Mount Holly	NC	Solar	Intermediate	Yes	4.304
Facility 2259	Durham	NC	Solar	Intermediate	Yes	248.4
Facility 2260	Durham	NC	Solar	Intermediate	Yes	10.677
Facility 2261	Mooresboro	NC	Solar	Intermediate	Yes	4.682
Facility 2262	Cleveland	NC	Solar	Intermediate	Yes	6.056
Facility 2263	Durham	NC	Solar	Intermediate	Yes	6.262
Facility 2264	Kannapolis	NC	Solar	Intermediate	Yes	3.479
Facility 2265	Charlotte	NC	Solar	Intermediate	Yes	27.36
Facility 2266	Charlotte	NC	Solar	Intermediate	Yes	3.472
Facility 2267	Harrisburg	NC	Solar	Intermediate	Yes	14.618
Facility 2268	Charlotte	NC	Solar	Intermediate	Yes	52.47
Facility 2269	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 2270	Charlotte	NC	Solar	Intermediate	Yes	2.38
Facility 2271	Charlotte	NC	Solar	Intermediate	Yes	4.545
Facility 2272	Horse Shoe	NC	Solar	Intermediate	Yes	0.19
Facility 2273	Hendersonville	NC	Solar	Intermediate	Yes	14
Facility 2274	Glenville	NC	Solar	Intermediate	Yes	4
Facility 2275	Burlington	NC	Solar	Intermediate	Yes	4.917
Facility 2276	Charlotte	NC	Solar	Intermediate	Yes	8.8
Facility 2277	Hillsborough	NC	Solar	Intermediate	Yes	3

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2278	Charlotte	NC	Solar	Intermediate	Yes	6.63
Facility 2279	Charlotte	NC	Solar	Intermediate	Yes	4.385
Facility 2280	Walnut Cove	NC	Solar	Intermediate	Yes	1.89
Facility 2281	Charlotte	NC	Solar	Intermediate	Yes	2.7
Facility 2282	Durham	NC	Solar	Intermediate	Yes	7
Facility 2283	Charlotte	NC	Solar	Intermediate	Yes	7.6
Facility 2284	Summerfield	NC	Solar	Intermediate	Yes	2.45
Facility 2285	Charlotte	NC	Solar	Intermediate	Yes	4.1
Facility 2286	Vale	NC	Solar	Intermediate	Yes	2.815
Facility 2287	Vale	NC	Solar	Intermediate	Yes	2.845
Facility 2288	Vale	NC	Solar	Intermediate	Yes	5.719
Facility 2289	Vale	NC	Solar	Intermediate	Yes	19.374
Facility 2290	Hickory	NC	Solar	Intermediate	Yes	3.212
Facility 2291	Charlotte	NC	Solar	Intermediate	Yes	2.58
Facility 2292	Chapel Hill	NC	Solar	Intermediate	Yes	1.2
Facility 2293	Salisbury	NC	Solar	Intermediate	Yes	3.44
Facility 2294	Rutherfordton	NC	Solar	Intermediate	Yes	3.44
Facility 2295	Cary	NC	Solar	Intermediate	Yes	5.841
Facility 2296	Carrboro	NC	Solar	Intermediate	Yes	6.316
Facility 2297	China Grove	NC	Solar	Intermediate	Yes	4.573
Facility 2298	Hendersonville	NC	Solar	Intermediate	Yes	3.322
Facility 2299	Winston-Salem	NC	Solar	Intermediate	Yes	4.385
Facility 2300	Charlotte	NC	Solar	Intermediate	Yes	4.373
Facility 2301	Lawndale	NC	Solar	Intermediate	Yes	2.568
Facility 2302	Summerfield	NC	Solar	Intermediate	Yes	5.649
Facility 2303	Durham	NC	Solar	Intermediate	Yes	4.936
Facility 2304	Charlotte	NC	Solar	Intermediate	Yes	7
Facility 2305	Mocksville	NC	Solar	Intermediate	Yes	10
Facility 2306	Mocksville	NC	Solar	Intermediate	Yes	336
Facility 2307	Chapel Hill	NC	Solar	Intermediate	Yes	4
Facility 2308	Claremont	NC	Solar	Intermediate	Yes	4508
Facility 2309	Greensboro	NC	Solar	Intermediate	Yes	4.585
Facility 2310	Charlotte	NC	Solar	Intermediate	Yes	2

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2311	Durham	NC	Solar	Intermediate	Yes	4.86
Facility 2312	Rutherfordton	NC	Solar	Intermediate	Yes	5.76
Facility 2313	Tryon	NC	Solar	Intermediate	Yes	4.5
Facility 2314	Chapel Hill	NC	Solar	Intermediate	Yes	3
Facility 2315	Marion	NC	Solar	Intermediate	Yes	7
Facility 2316	Durham	NC	Solar	Intermediate	Yes	1.2
Facility 2317	Concord	NC	Solar	Intermediate	Yes	9.117
Facility 2318	Winston-Salem	NC	Solar	Intermediate	Yes	3
Facility 2319	Columbus	NC	Solar	Intermediate	Yes	1.72
Facility 2320	Charlotte	NC	Solar	Intermediate	Yes	18.06
Facility 2321	Hillsborough	NC	Solar	Intermediate	Yes	1.949
Facility 2322	Cleveland	NC	Solar	Intermediate	Yes	2000
Facility 2323	Chapel Hill	NC	Solar	Intermediate	Yes	5.991
Facility 2324	Lewisville	NC	Solar	Intermediate	Yes	5.258
Facility 2325	Carrboro	NC	Solar	Intermediate	Yes	3.85
Facility 2326	Charlotte	NC	Solar	Intermediate	Yes	8.6
Facility 2327	Durham	NC	Solar	Intermediate	Yes	4.776
Facility 2328	East Bend	NC	Solar	Intermediate	Yes	3.545
Facility 2329	Charlotte	NC	Biomass	Intermediate	Yes	1900
Facility 2330	Chapel Hill	NC	Solar	Intermediate	Yes	7
Facility 2331	Harmony	NC	Solar	Intermediate	Yes	2
Facility 2332	Salisbury	NC	Solar	Intermediate	Yes	14.116
Facility 2333	Davidson	NC	Solar	Intermediate	Yes	3.805
Facility 2334	Hendersonville	NC	Solar	Intermediate	Yes	2.5
Facility 2335	Charlotte	NC	Solar	Intermediate	Yes	3
Facility 2336	Ellenboro	NC	Solar	Intermediate	Yes	1.29
Facility 2337	Salisbury	NC	Solar	Intermediate	Yes	6
Facility 2338	Winston-Salem	NC	Solar	Intermediate	Yes	1.94
Facility 2339	Carrboro	NC	Solar	Intermediate	Yes	5
Facility 2340	Hendersonville	NC	Solar	Intermediate	Yes	3.8
Facility 2341	Huntersville	NC	Solar	Intermediate	Yes	9
Facility 2342	Kernersville	NC	Solar	Intermediate	Yes	3.377
Facility 2343	Randleman	NC	Solar	Intermediate	Yes	2.3

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2344	Pinnacle	NC	Solar	Intermediate	Yes	4.5
Facility 2345	Charlotte	NC	Solar	Intermediate	Yes	3
Facility 2346	Hillsborough	NC	Solar	Intermediate	Yes	3.57
Facility 2347	Chapel Hill	NC	Solar	Intermediate	Yes	3.06
Facility 2348	Hillsborough	NC	Solar	Intermediate	Yes	5
Facility 2349	Durham	NC	Solar	Intermediate	Yes	4
Facility 2350	Otto	NC	Solar	Intermediate	Yes	3.6
Facility 2351	Mount Holly	NC	Solar	Intermediate	Yes	5
Facility 2352	Chapel Hill	NC	Solar	Intermediate	Yes	6
Facility 2353	Gold Hill	NC	Solar	Intermediate	Yes	6
Facility 2354	Norwood	NC	Solar	Intermediate	Yes	5.17
Facility 2355	Indian Trail	NC	Solar	Intermediate	Yes	6.79
Facility 2356	Charlotte	NC	Solar	Intermediate	Yes	3.45
Facility 2357	Chapel Hill	NC	Solar	Intermediate	Yes	3
Facility 2358	Winston-Salem	NC	Solar	Intermediate	Yes	4.3
Facility 2359	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 2360	Mooresville	NC	Solar	Intermediate	Yes	5.649
Facility 2361	Monroe	NC	Solar	Intermediate	Yes	6.507
Facility 2362	Purlear	NC	Solar	Intermediate	Yes	6.748
Facility 2363	Charlotte	NC	Solar	Intermediate	Yes	2.676
Facility 2364	Forest City	NC	Solar	Intermediate	Yes	6
Facility 2365	Hickory	NC	Solar	Intermediate	Yes	2.946
Facility 2366	Moravian FLS	NC	Solar	Intermediate	Yes	3.675
Facility 2367	Hickory	NC	Solar	Intermediate	Yes	36
Facility 2368	Clemmons	NC	Solar	Intermediate	Yes	4.8
Facility 2369	Greensboro	NC	Solar	Intermediate	Yes	2.58
Facility 2370	Greensboro	NC	Solar	Intermediate	Yes	5.59
Facility 2371	Salisbury	NC	Solar	Intermediate	Yes	5
Facility 2372	Efland	NC	Solar	Intermediate	Yes	6
Facility 2373	Charlotte	NC	Solar	Intermediate	Yes	4.7
Facility 2374	Durham	NC	Solar	Intermediate	Yes	3.78
Facility 2375	Durham	NC	Solar	Intermediate	Yes	3.78
Facility 2376	Chapel Hill	NC	Solar	Intermediate	Yes	5

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2377	Glenville	NC	Solar	Intermediate	Yes	13
Facility 2378	Greensboro	NC	Solar	Intermediate	Yes	2.4
Facility 2379	Charlotte	NC	Solar	Intermediate	Yes	2.5
Facility 2380	Waxhaw	NC	Solar	Intermediate	Yes	4
Facility 2381	Harrisburg	NC	Solar	Intermediate	Yes	3.225
Facility 2382	Hendersonville	NC	Solar	Intermediate	Yes	4
Facility 2383	Burlington	NC	Solar	Intermediate	Yes	6
Facility 2384	Chapel Hill	NC	Solar	Intermediate	Yes	3.5
Facility 2385	Julian	NC	Solar	Intermediate	Yes	1.1
Facility 2386	Charlotte	NC	Solar	Intermediate	Yes	5.25
Facility 2387	Harrisburg	NC	Solar	Intermediate	Yes	3.36
Facility 2388	Kernersville	NC	Solar	Intermediate	Yes	2.88
Facility 2389	Mount Holly	NC	Solar	Intermediate	Yes	0.86
Facility 2390	Saluda	NC	Solar	Intermediate	Yes	5.16
Facility 2391	Charlotte	NC	Solar	Intermediate	Yes	2.35
Facility 2392	Hillsborough	NC	Solar	Intermediate	Yes	5.1
Facility 2393	Horse Shoe	NC	Solar	Intermediate	Yes	3.01
Facility 2394	Gold Hill	NC	Solar	Intermediate	Yes	0.86
Facility 2395	Franklin	NC	Solar	Intermediate	Yes	2.58
Facility 2396	Gastonia	NC	Solar	Intermediate	Yes	8
Facility 2397	Clemmons	NC	Solar	Intermediate	Yes	5.28
Facility 2398	Greensboro	NC	Solar	Intermediate	Yes	4
Facility 2399	Charlotte	NC	Solar	Intermediate	Yes	4.32
Facility 2400	Charlotte	NC	Solar	Intermediate	Yes	0.96
Facility 2401	Charlotte	NC	Solar	Intermediate	Yes	5
Facility 2402	Charlotte	NC	Solar	Intermediate	Yes	1.29
Facility 2403	Chapel Hill	NC	Solar	Intermediate	Yes	4
Facility 2404	Durham	NC	Solar	Intermediate	Yes	5
Facility 2405	Waxhaw	NC	Solar	Intermediate	Yes	3.125
Facility 2406	Valdese	NC	Solar	Intermediate	Yes	3.75
Facility 2407	Hendersonville	NC	Solar	Intermediate	Yes	0.76
Facility 2408	Pisgah Forest	NC	Solar	Intermediate	Yes	7.579
Facility 2409	Charlotte	NC	Solar	Intermediate	Yes	9.192

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2410	Madison	NC	Landfill Gas	Intermediate	Yes	800
Facility 2411	Rockwell	NC	Solar	Intermediate	Yes	3480
Facility 2412	Indian Trail	NC	Solar	Intermediate	Yes	1
Facility 2413	Oak Ridge	NC	Solar	Intermediate	Yes	4.216
Facility 2414	Hendersonville	NC	Solar	Intermediate	Yes	0.969
Facility 2415	Troutman	NC	Solar	Intermediate	Yes	2.88
Facility 2416	Mooresville	NC	Solar	Intermediate	Yes	2.4
Facility 2417	Sylva	NC	Solar	Intermediate	Yes	4.571
Facility 2418	Harrisburg	NC	Solar	Intermediate	Yes	5.674
Facility 2419	Pittsboro	NC	Solar	Intermediate	Yes	6
Facility 2420	Graham	NC	Solar	Intermediate	Yes	5.52
Facility 2421	Norwood	NC	Solar	Intermediate	Yes	5
Facility 2422	Charlotte	NC	Solar	Intermediate	Yes	4.94
Facility 2423	Salisbury	NC	Solar	Intermediate	Yes	6.45
Facility 2424	Waxhaw	NC	Solar	Intermediate	Yes	7
Facility 2425	Waxhaw	NC	Solar	Intermediate	Yes	2.48
Facility 2426	Hendersonville	NC	Solar	Intermediate	Yes	1.72
Facility 2427	Hendersonville	NC	Solar	Intermediate	Yes	6
Facility 2428	Burlington	NC	Solar	Intermediate	Yes	3
Facility 2429	Franklin	NC	Solar	Intermediate	Yes	5.94
Facility 2430	Randleman	NC	Solar	Intermediate	Yes	5
Facility 2431	Claremont	NC	Solar	Intermediate	Yes	1.92
Facility 2432	Wilkesboro	NC	Hydroelectric	Baseload	Yes	200
Facility 2433	Durham	NC	Solar	Intermediate	Yes	5.761
Facility 2434	Grover	NC	Solar	Intermediate	Yes	5000
Facility 2435	McLeansville	NC	Solar	Intermediate	Yes	3.897
Facility 2436	Pisgah Forest	NC	Solar	Intermediate	Yes	5.59
Facility 2437	Charlotte	NC	Solar	Intermediate	Yes	8
Facility 2438	Winston-Salem	NC	Solar	Intermediate	Yes	4.658
Facility 2439	Chapel Hill	NC	Solar	Intermediate	Yes	7.093
Facility 2440	Durham	NC	Solar	Intermediate	Yes	4.992
Facility 2441	Reidsville	NC	Solar	Intermediate	Yes	3.494
Facility 2442	Mooresville	NC	Solar	Intermediate	Yes	3

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2443	Charlotte	NC	Solar	Intermediate	Yes	2.743
Facility 2444	Charlotte	NC	Solar	Intermediate	Yes	2.503
Facility 2445	Mooresville	NC	Other	Intermediate	Yes	0
Facility 2446	Salisbury	NC	Solar	Intermediate	Yes	16.2
Facility 2447	Salisbury	NC	Solar	Intermediate	Yes	42
Facility 2448	Huntersville	NC	Solar	Intermediate	Yes	3.907
Facility 2449	Durham	NC	Solar	Intermediate	Yes	4.452
Facility 2450	Winston-Salem	NC	Solar	Intermediate	Yes	4.73
Facility 2451	Carrboro	NC	Solar	Intermediate	Yes	5
Facility 2452	Durham	NC	Solar	Intermediate	Yes	3.75
Facility 2453	Hendersonville	NC	Solar	Intermediate	Yes	3.984
Facility 2454	Mooresville	NC	Solar	Intermediate	Yes	3.325
Facility 2455	Hendersonville	NC	Solar	Intermediate	Yes	9
Facility 2456	Charlotte	NC	Solar	Intermediate	Yes	5.399
Facility 2457	Midland	NC	Solar	Intermediate	Yes	9.883
Facility 2458	Hendersonville	NC	Solar	Intermediate	Yes	5.16
Facility 2459	Durham	NC	Solar	Intermediate	Yes	3.8
Facility 2460	Kernersville	NC	Solar	Intermediate	Yes	2.4
Facility 2461	Mooresville	NC	Solar	Intermediate	Yes	2.94
Facility 2462	Brevard	NC	Solar	Intermediate	Yes	3
Facility 2463	Hickory	NC	Solar	Intermediate	Yes	5.729
Facility 2464	Charlotte	NC	Solar	Intermediate	Yes	2.597
Facility 2465	Forest City	NC	Solar	Intermediate	Yes	74800
Facility 2466	Charlotte	NC	Solar	Intermediate	Yes	4.91
Facility 2467	Carrboro	NC	Solar	Intermediate	Yes	3.57
Facility 2468	Charlotte	NC	Solar	Intermediate	Yes	7.6
Facility 2469	Charlotte	NC	Solar	Intermediate	Yes	255
Facility 2470	Winston-Salem	NC	Landfill Gas	Intermediate	Yes	4750
Facility 2471	Chapel Hill	NC	Solar	Intermediate	Yes	3.8
Facility 2472	Durham	NC	Solar	Intermediate	Yes	5
Facility 2473	Durham	NC	Solar	Intermediate	Yes	6.033
Facility 2474	Charlotte	NC	Solar	Intermediate	Yes	4.73
Facility 2475	Charlotte	NC	Solar	Intermediate	Yes	10.8

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2476	Charlotte	NC	Solar	Intermediate	Yes	7.63
Facility 2477	Durham	NC	Solar	Intermediate	Yes	5.89
Facility 2478	Carrboro	NC	Solar	Intermediate	Yes	3.75
Facility 2479	Elon	NC	Solar	Intermediate	Yes	3.44
Facility 2480	Elon	NC	Solar	Intermediate	Yes	2.4
Facility 2481	Durham	NC	Solar	Intermediate	Yes	6
Facility 2482	Rutherfordton	NC	Solar	Intermediate	Yes	3.6
Facility 2483	Lincolnton	NC	Solar	Intermediate	Yes	0.86
Facility 2484	Waxhaw	NC	Solar	Intermediate	Yes	2.15
Facility 2485	Albemarle	NC	Solar	Intermediate	Yes	0.86
Facility 2486	Winston-Salem	NC	Solar	Intermediate	Yes	3.974
Facility 2487	McLeansville	NC	Solar	Intermediate	Yes	24
Facility 2488	Durham	NC	Solar	Intermediate	Yes	1.761
Facility 2489	Belews Creek	NC	Solar	Intermediate	Yes	7.6
Facility 2490	Chapel Hill	NC	Solar	Intermediate	Yes	2.58
Facility 2491	Durham	NC	Solar	Intermediate	Yes	4
Facility 2492	Pelham	NC	Solar	Intermediate	Yes	2.82
Facility 2493	Mebane	NC	Solar	Intermediate	Yes	5.65
Facility 2494	Midland	NC	Solar	Intermediate	Yes	2.857
Facility 2495	Pineville	NC	Solar	Intermediate	Yes	20
Facility 2496	Mills River	NC	Solar	Intermediate	Yes	8.64
Facility 2497	Tryon	NC	Solar	Intermediate	Yes	2.58
Facility 2498	Hillsborough	NC	Solar	Intermediate	Yes	2.4
Facility 2499	Durham	NC	Solar	Intermediate	Yes	4.5
Facility 2500	Mills River	NC	Solar	Intermediate	Yes	7.584
Facility 2501	Elon	NC	Solar	Intermediate	Yes	4.445
Facility 2502	Burlington	NC	Solar	Intermediate	Yes	5.141
Facility 2503	Whittier	NC	Solar	Intermediate	Yes	4.304
Facility 2504	Mooreville	NC	Solar	Intermediate	Yes	5.091
Facility 2505	Durham	NC	Solar	Intermediate	Yes	4.433
Facility 2506	Charlotte	NC	Solar	Intermediate	Yes	4.541
Facility 2507	Chapel Hill	NC	Solar	Intermediate	Yes	17.349
Facility 2508	Charlotte	NC	Solar	Intermediate	Yes	2.054

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2509	Highpoint	NC	Solar	Intermediate	Yes	5.788
Facility 2510	Greensboro	NC	Solar	Intermediate	Yes	2.291
Facility 2511	Carrboro	NC	Solar	Intermediate	Yes	3.226
Facility 2512	Durham	NC	Solar	Intermediate	Yes	4.634
Facility 2513	Concord	NC	Solar	Intermediate	Yes	4.658
Facility 2514	Salisbury	NC	Solar	Intermediate	Yes	16.417
Facility 2515	Concord	NC	Solar	Intermediate	Yes	7.912
Facility 2516	Mooresville	NC	Solar	Intermediate	Yes	8.099
Facility 2517	Julian	NC	Solar	Intermediate	Yes	3.097
Facility 2518	Durham	NC	Solar	Intermediate	Yes	4.586
Facility 2519	Greensboro	NC	Solar	Intermediate	Yes	5.46
Facility 2520	Chapel Hill	NC	Solar	Intermediate	Yes	4.636
Facility 2521	Conover	NC	Solar	Intermediate	Yes	2.58
Facility 2522	Charlotte	NC	Solar	Intermediate	Yes	4.25
Facility 2523	Chapel Hill	NC	Solar	Intermediate	Yes	2.58
Facility 2524	Durham	NC	Solar	Intermediate	Yes	5
Facility 2525	Chapel Hill	NC	Solar	Intermediate	Yes	7.6
Facility 2526	Charlotte	NC	Solar	Intermediate	Yes	2.838
Facility 2527	Marion	NC	Solar	Intermediate	Yes	1.02
Facility 2528	Chapel Hill	NC	Solar	Intermediate	Yes	3.8
Facility 2529	Chapel Hill	NC	Solar	Intermediate	Yes	6
Facility 2530	Charlotte	NC	Solar	Intermediate	Yes	9.29
Facility 2531	Stanley	NC	Solar	Intermediate	Yes	6.398
Facility 2532	Rockwell	NC	Solar	Intermediate	Yes	6.593
Facility 2533	Durham	NC	Solar	Intermediate	Yes	3.5
Facility 2534	Charlotte	NC	Solar	Intermediate	Yes	1.72
Facility 2535	Greensboro	NC	Solar	Intermediate	Yes	5.991
Facility 2536	Charlotte	NC	Solar	Intermediate	Yes	7
Facility 2537	Carrboro	NC	Solar	Intermediate	Yes	3.8
Facility 2538	Chapel Hill	NC	Solar	Intermediate	Yes	13.112
Facility 2539	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 2540	Concord	NC	Solar	Intermediate	Yes	4.5
Facility 2541	Concord	NC	Solar	Intermediate	Yes	3

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2542	Whittier	NC	Solar	Intermediate	Yes	1.72
Facility 2543	Reidsville	NC	Solar	Intermediate	Yes	5.76
Facility 2544	Hillsborough	NC	Solar	Intermediate	Yes	4
Facility 2545	Concord	NC	Solar	Intermediate	Yes	2.541
Facility 2546	Sylva	NC	Solar	Intermediate	Yes	6
Facility 2547	Shelby	NC	Solar	Intermediate	Yes	1990
Facility 2548	Mooreville	NC	Solar	Intermediate	Yes	7.83
Facility 2549	Durham	NC	Solar	Intermediate	Yes	4
Facility 2550	Hendersonville	NC	Solar	Intermediate	Yes	5
Facility 2551	Taylorsville	NC	Solar	Intermediate	Yes	2.58
Facility 2552	Chapel Hill	NC	Solar	Intermediate	Yes	4.869
Facility 2553	Elon	NC	Solar	Intermediate	Yes	3.212
Facility 2554	Durham	NC	Solar	Intermediate	Yes	5.225
Facility 2555	Durham	NC	Solar	Intermediate	Yes	4.269
Facility 2556	Durham	NC	Solar	Intermediate	Yes	0.926
Facility 2557	Marion	NC	Solar	Intermediate	Yes	3
Facility 2558	Statesville	NC	Solar	Intermediate	Yes	4.4
Facility 2559	Greensboro	NC	Solar	Intermediate	Yes	2.58
Facility 2560	Kernersville	NC	Solar	Intermediate	Yes	1.994
Facility 2561	Indian Trail	NC	Solar	Intermediate	Yes	0.86
Facility 2562	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 2563	Charlotte	NC	Solar	Intermediate	Yes	11.11
Facility 2564	Concord	NC	Solar	Intermediate	Yes	4500
Facility 2565	Graham	NC	Solar	Intermediate	Yes	3.805
Facility 2566	Mooreville	NC	Solar	Intermediate	Yes	17.801
Facility 2567	Durham	NC	Solar	Intermediate	Yes	101.2
Facility 2568	Shelby	NC	Solar	Intermediate	Yes	4875
Facility 2569	China Grove	NC	Solar	Intermediate	Yes	0.86
Facility 2570	Mooreville	NC	Solar	Intermediate	Yes	17.635
Facility 2571	Fletcher	NC	Biogas	Intermediate	Yes	400
Facility 2572	Fletcher	NC	Solar	Intermediate	Yes	600
Facility 2573	Charlotte	NC	Solar	Intermediate	Yes	3.494
Facility 2574	Newton	NC	Solar	Intermediate	Yes	4950

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2575	Crouse	NC	Solar	Intermediate	Yes	6.156
Facility 2576	Charlotte	NC	Solar	Intermediate	Yes	8.846
Facility 2577	Greensboro	NC	Solar	Intermediate	Yes	12
Facility 2578	Charlotte	NC	Solar	Intermediate	Yes	8.119
Facility 2579	Salisbury	NC	Solar	Intermediate	Yes	6.625
Facility 2580	Winston-Salem	NC	Solar	Intermediate	Yes	10
Facility 2581	Durham	NC	Solar	Intermediate	Yes	6.339
Facility 2582	Durham	NC	Solar	Intermediate	Yes	4.39
Facility 2583	Morganton	NC	Solar	Intermediate	Yes	8.297
Facility 2584	TRINITY	NC	Solar	Intermediate	Yes	2.946
Facility 2585	Mooreville	NC	Solar	Intermediate	Yes	5.563
Facility 2586	Matthews	NC	Solar	Intermediate	Yes	4.408
Facility 2587	Colfax	NC	Solar	Intermediate	Yes	5.013
Facility 2588	Cherryville	NC	Solar	Intermediate	Yes	6.4
Facility 2589	Burlington	NC	Solar	Intermediate	Yes	24
Facility 2590	Marshville	NC	Solar	Intermediate	Yes	6.056
Facility 2591	Charlotte	NC	Solar	Intermediate	Yes	4
Facility 2592	Burlington	NC	Solar	Intermediate	Yes	1.375
Facility 2593	Chapel Hill	NC	Solar	Intermediate	Yes	6.523
Facility 2594	Cullowhee	NC	Solar	Intermediate	Yes	4.842
Facility 2595	Salisbury	NC	Solar	Intermediate	Yes	2.857
Facility 2596	Carrboro	NC	Solar	Intermediate	Yes	2.765
Facility 2597	Rockwell	NC	Solar	Intermediate	Yes	4.366
Facility 2598	Durham	NC	Solar	Intermediate	Yes	3
Facility 2599	Charlotte	NC	Solar	Intermediate	Yes	2.58
Facility 2600	Winston-Salem	NC	Solar	Intermediate	Yes	3.447
Facility 2601	Durham	NC	Solar	Intermediate	Yes	3.824
Facility 2602	Durham	NC	Solar	Intermediate	Yes	4.821
Facility 2603	Hickory	NC	Solar	Intermediate	Yes	440
Facility 2604	Charlotte	NC	Solar	Intermediate	Yes	3.687
Facility 2605	Charlotte	NC	Solar	Intermediate	Yes	5.043
Facility 2606	Salisbury	NC	Solar	Intermediate	Yes	6.88
Facility 2607	Winston-Salem	NC	Solar	Intermediate	Yes	5.96

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2608	Charlotte	NC	Solar	Intermediate	Yes	4.025
Facility 2609	Newton	NC	Solar	Intermediate	Yes	5000
Facility 2610	Mooreboro	NC	Solar	Intermediate	Yes	4500
Facility 2611	Winston-Salem	NC	Solar	Intermediate	Yes	4998
Facility 2612	Cooleemee	NC	Hydroelectric	Baseload	Yes	1500
Facility 2613	Mount Airy	NC	Solar	Intermediate	Yes	9.87
Facility 2614	Greensboro	NC	Solar	Intermediate	Yes	60
Facility 2615	Greensboro	NC	Solar	Intermediate	Yes	1.863
Facility 2616	Charlotte	NC	Solar	Intermediate	Yes	5.834
Facility 2617	Salisbury	NC	Solar	Intermediate	Yes	4995
Facility 2618	Gastonia	NC	Hydroelectric	Baseload	Yes	560
Facility 2619	Pfafftown	NC	Solar	Intermediate	Yes	4
Facility 2620	Conover	NC	Solar	Intermediate	Yes	4.692
Facility 2621	Graham	NC	Solar	Intermediate	Yes	2.984
Facility 2622	Greensboro	NC	Solar	Intermediate	Yes	2.88
Facility 2623	Harrisburg	NC	Solar	Intermediate	Yes	5.686
Facility 2624	Durham	NC	Solar	Intermediate	Yes	3
Facility 2625	Kannapolis	NC	Solar	Intermediate	Yes	3.325
Facility 2626	Elkin	NC	Solar	Intermediate	Yes	5
Facility 2627	Durham	NC	Solar	Intermediate	Yes	6.056
Facility 2628	Durham	NC	Solar	Intermediate	Yes	3.261
Facility 2629	Winston-Salem	NC	Solar	Intermediate	Yes	8
Facility 2630	Greensboro	NC	Solar	Intermediate	Yes	3.504
Facility 2631	Hillsborough	NC	Solar	Intermediate	Yes	3.85
Facility 2632	Charlotte	NC	Solar	Intermediate	Yes	4.423
Facility 2633	Chapel Hill	NC	Solar	Intermediate	Yes	8.6
Facility 2634	Stanley	NC	Solar	Intermediate	Yes	5
Facility 2635	Durham	NC	Solar	Intermediate	Yes	5000
Facility 2636	Matthews	NC	Solar	Intermediate	Yes	4.775
Facility 2637	Mooresville	NC	Solar	Intermediate	Yes	2.644
Facility 2638	Chapel Hill	NC	Solar	Intermediate	Yes	7.668
Facility 2639	Mt Pleasant	NC	Solar	Intermediate	Yes	8.838
Facility 2640	Charlotte	NC	Solar	Intermediate	Yes	3.87

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2641	Pleasant Garden	NC	Solar	Intermediate	Yes	3.709
Facility 2642	Charlotte	NC	Solar	Intermediate	Yes	243
Facility 2643	Charlotte	NC	Solar	Intermediate	Yes	208
Facility 2644	Mebane	NC	Solar	Intermediate	Yes	10.754
Facility 2645	Charlotte	NC	Solar	Intermediate	Yes	4.5
Facility 2646	Salisbury	NC	Solar	Intermediate	Yes	4.32
Facility 2647	Salisbury	NC	Solar	Intermediate	Yes	1.72
Facility 2648	Durham	NC	Solar	Intermediate	Yes	3.66
Facility 2649	Charlotte	NC	Solar	Intermediate	Yes	3.36
Facility 2650	Lincolnton	NC	Solar	Intermediate	Yes	0.86
Facility 2651	Durham	NC	Solar	Intermediate	Yes	2.04
Facility 2652	Durham	NC	Solar	Intermediate	Yes	3.87
Facility 2653	Oak Ridge	NC	Solar	Intermediate	Yes	6.48
Facility 2654	Morganton	NC	Solar	Intermediate	Yes	3.04
Facility 2655	Reidsville	NC	Solar	Intermediate	Yes	5
Facility 2656	Statesville	NC	Solar	Intermediate	Yes	1.51
Facility 2657	Durham	NC	Solar	Intermediate	Yes	3.44
Facility 2658	Charlotte	NC	Solar	Intermediate	Yes	9.74
Facility 2659	Charlotte	NC	Solar	Intermediate	Yes	3.84
Facility 2660	Charlotte	NC	Solar	Intermediate	Yes	1.72
Facility 2661	Summerfield	NC	Solar	Intermediate	Yes	5
Facility 2662	Durham	NC	Solar	Intermediate	Yes	4
Facility 2663	Whittier	NC	Solar	Intermediate	Yes	3.44
Facility 2664	Whittier	NC	Solar	Intermediate	Yes	0.43
Facility 2665	Reidsville	NC	Solar	Intermediate	Yes	10
Facility 2666	Reidsville	NC	Solar	Intermediate	Yes	4.73
Facility 2667	Pfafftown	NC	Solar	Intermediate	Yes	5
Facility 2668	Lincolnton	NC	Hydroelectric	Baseload	Yes	750
Facility 2669	Hickory	NC	Solar	Intermediate	Yes	4.41
Facility 2670	Durham	NC	Solar	Intermediate	Yes	4.4
Facility 2671	Charlotte	NC	Solar	Intermediate	Yes	2
Facility 2672	Greensboro	NC	Solar	Intermediate	Yes	2.4
Facility 2673	Greensboro	NC	Solar	Intermediate	Yes	8

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2674	Cedar Grove	NC	Solar	Intermediate	Yes	5
Facility 2675	Chapel Hill	NC	Solar	Intermediate	Yes	5.17
Facility 2676	Mount Pleasant	NC	Solar	Intermediate	Yes	4.3
Facility 2677	Snow Camp	NC	Solar	Intermediate	Yes	2.85
Facility 2678	Snow Camp	NC	Solar	Intermediate	Yes	2.85
Facility 2679	Chapel Hill	NC	Solar	Intermediate	Yes	9
Facility 2680	Mooreville	NC	Solar	Intermediate	Yes	1.728
Facility 2681	Brevard	NC	Solar	Intermediate	Yes	3.36
Facility 2682	Harrisburg	NC	Solar	Intermediate	Yes	9.186
Facility 2683	Hiddenite	NC	Solar	Intermediate	Yes	5000
Facility 2684	Waxhaw	NC	Solar	Intermediate	Yes	7
Facility 2685	Bostic	NC	Solar	Intermediate	Yes	1.938
Facility 2686	Durham	NC	Solar	Intermediate	Yes	4.792
Facility 2687	Elkin	NC	Solar	Intermediate	Yes	5.908
Facility 2688	Newton	NC	Solar	Intermediate	Yes	7.915
Facility 2689	Stoneville	NC	Solar	Intermediate	Yes	9
Facility 2690	Kernersville	NC	Solar	Intermediate	Yes	2.422
Facility 2691	Mount Pleasant	NC	Solar	Intermediate	Yes	2.909
Facility 2692	Mebane	NC	Solar	Intermediate	Yes	4500
Facility 2693	Greensboro	NC	Solar	Intermediate	Yes	8.682
Facility 2694	Greensboro	NC	Solar	Intermediate	Yes	5.788
Facility 2695	Durham	NC	Solar	Intermediate	Yes	3.998
Facility 2696	Winston-Salem	NC	Solar	Intermediate	Yes	6
Facility 2697	Mebane	NC	Solar	Intermediate	Yes	3
Facility 2698	Charlotte	NC	Solar	Intermediate	Yes	9
Facility 2699	Efland	NC	Solar	Intermediate	Yes	16.855
Facility 2700	Durham	NC	Solar	Intermediate	Yes	2.741
Facility 2701	Pfafftown	NC	Solar	Intermediate	Yes	5.38
Facility 2702	Chapel Hill	NC	Solar	Intermediate	Yes	4.269
Facility 2703	Greensboro	NC	Solar	Intermediate	Yes	35.985
Facility 2704	Summerfield	NC	Solar	Intermediate	Yes	21.4
Facility 2705	Charlotte	NC	Solar	Intermediate	Yes	5
Facility 2706	Charlotte	NC	Solar	Intermediate	Yes	115

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2707	Lexington	NC	Solar	Intermediate	Yes	15500
Facility 2708	Durham	NC	Solar	Intermediate	Yes	4.825
Facility 2709	Pisgah Forest	NC	Solar	Intermediate	Yes	6
Facility 2710	Franklin	NC	Solar	Intermediate	Yes	6
Facility 2711	Chapel Hill	NC	Solar	Intermediate	Yes	4.3
Facility 2712	Hillsborough	NC	Solar	Intermediate	Yes	7.6
Facility 2713	Chapel Hill	NC	Solar	Intermediate	Yes	9.24
Facility 2714	Advance	NC	Solar	Intermediate	Yes	5.4
Facility 2715	Chapel Hill	NC	Solar	Intermediate	Yes	4.41
Facility 2716	Charlotte	NC	Solar	Intermediate	Yes	5
Facility 2717	Durham	NC	Solar	Intermediate	Yes	2.205
Facility 2718	Mount Ulla	NC	Solar	Intermediate	Yes	0.86
Facility 2719	Conover	NC	Solar	Intermediate	Yes	4.76
Facility 2720	Durham	NC	Solar	Intermediate	Yes	1.92
Facility 2721	Chapel Hill	NC	Solar	Intermediate	Yes	4
Facility 2722	Gastonia	NC	Solar	Intermediate	Yes	1.14
Facility 2723	Greensboro	NC	Solar	Intermediate	Yes	3.84
Facility 2724	Charlotte	NC	Solar	Intermediate	Yes	1.962
Facility 2725	Chapel Hill	NC	Solar	Intermediate	Yes	5
Facility 2726	Reidsville	NC	Solar	Intermediate	Yes	2.8
Facility 2727	Durham	NC	Solar	Intermediate	Yes	5
Facility 2728	Monroe	NC	Solar	Intermediate	Yes	6
Facility 2729	Davidson	NC	Solar	Intermediate	Yes	4
Facility 2730	Carrboro	NC	Solar	Intermediate	Yes	4.3
Facility 2731	Reidsville	NC	Solar	Intermediate	Yes	2.23
Facility 2732	Winston-Salem	NC	Solar	Intermediate	Yes	5
Facility 2733	Mooresville	NC	Solar	Intermediate	Yes	4.2
Facility 2734	Morganton	NC	Solar	Intermediate	Yes	7.053
Facility 2735	Bryson City	NC	Solar	Intermediate	Yes	5
Facility 2736	Charlotte	NC	Solar	Intermediate	Yes	7.44
Facility 2737	Denver	NC	Solar	Intermediate	Yes	1.851
Facility 2738	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 2739	Burlington	NC	Solar	Intermediate	Yes	5.692

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2740	Durham	NC	Solar	Intermediate	Yes	2.8
Facility 2741	Research Triangle Park	NC	Solar	Intermediate	Yes	5
Facility 2742	Charlotte	NC	Solar	Intermediate	Yes	3.44
Facility 2743	Burlington	NC	Solar	Intermediate	Yes	8.6
Facility 2744	Matthews	NC	Solar	Intermediate	Yes	4.63
Facility 2745	Lincolnton	NC	Solar	Intermediate	Yes	6.02
Facility 2746	Walnut Cove	NC	Solar	Intermediate	Yes	6.423
Facility 2747	Mooresboro	NC	Solar	Intermediate	Yes	2.568
Facility 2748	Carrboro	NC	Solar	Intermediate	Yes	3.89
Facility 2749	Greensboro	NC	Solar	Intermediate	Yes	2.15
Facility 2750	Mooresville	NC	Solar	Intermediate	Yes	6.298
Facility 2751	Durham	NC	Solar	Intermediate	Yes	2.5
Facility 2752	Charlotte	NC	Solar	Intermediate	Yes	7.7
Facility 2753	Charlotte	NC	Solar	Intermediate	Yes	3.5
Facility 2754	Matthews	NC	Solar	Intermediate	Yes	0.86
Facility 2755	Winston-Salem	NC	Solar	Intermediate	Yes	324
Facility 2756	Charlotte	NC	Solar	Intermediate	Yes	396
Facility 2757	Wesley Chapel	NC	Solar	Intermediate	Yes	360
Facility 2758	Charlotte	NC	Solar	Intermediate	Yes	360
Facility 2759	Charlotte	NC	Solar	Intermediate	Yes	360
Facility 2760	Charlotte	NC	Solar	Intermediate	Yes	360
Facility 2761	Charlotte	NC	Solar	Intermediate	Yes	644
Facility 2762	Hickory	NC	Solar	Intermediate	Yes	396
Facility 2763	Mint Hill	NC	Solar	Intermediate	Yes	7.367
Facility 2764	Kannapolis	NC	Solar	Intermediate	Yes	2.568
Facility 2765	Charlotte	NC	Solar	Intermediate	Yes	2.568
Facility 2766	Claremont	NC	Solar	Intermediate	Yes	5.59
Facility 2767	Waxhaw	NC	Solar	Intermediate	Yes	6
Facility 2768	Archdale	NC	Solar	Intermediate	Yes	20
Facility 2769	Archdale	NC	Solar	Intermediate	Yes	52
Facility 2770	Greensboro	NC	Solar	Intermediate	Yes	5
Facility 2771	Greensboro	NC	Solar	Intermediate	Yes	175
Facility 2772	Greensboro	NC	Solar	Intermediate	Yes	6

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2773	Julian	NC	Solar	Intermediate	Yes	4.8
Facility 2774	Chapel Hill	NC	Solar	Intermediate	Yes	0.74
Facility 2775	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 2776	Greensboro	NC	Solar	Intermediate	Yes	4.32
Facility 2777	Charlotte	NC	Solar	Intermediate	Yes	1.12
Facility 2778	Mooresville	NC	Solar	Intermediate	Yes	3
Facility 2779	Oak Ridge	NC	Solar	Intermediate	Yes	2.15
Facility 2780	Pfafftown	NC	Solar	Intermediate	Yes	1.72
Facility 2781	Mills River	NC	Solar	Intermediate	Yes	6
Facility 2782	Kannapolis	NC	Solar	Intermediate	Yes	1.72
Facility 2783	Durham	NC	Solar	Intermediate	Yes	13.77
Facility 2784	Durham	NC	Solar	Intermediate	Yes	2.58
Facility 2785	Winston-Salem	NC	Solar	Intermediate	Yes	4.944
Facility 2786	Graham	NC	Solar	Intermediate	Yes	5.056
Facility 2787	Durham	NC	Solar	Intermediate	Yes	2.568
Facility 2788	Harrisburg	NC	Solar	Intermediate	Yes	4.305
Facility 2789	Carrboro	NC	Solar	Intermediate	Yes	26.8
Facility 2790	Charlotte	NC	Solar	Intermediate	Yes	4.6
Facility 2791	Charlotte	NC	Solar	Intermediate	Yes	250
Facility 2792	Hickory	NC	Solar	Intermediate	Yes	4.7
Facility 2793	Hickory	NC	Solar	Intermediate	Yes	4.7
Facility 2794	Greensboro	NC	Solar	Intermediate	Yes	0.96
Facility 2795	Greensboro	NC	Solar	Intermediate	Yes	0.96
Facility 2796	Chapel Hill	NC	Solar	Intermediate	Yes	4
Facility 2797	Durham	NC	Solar	Intermediate	Yes	2.28
Facility 2798	Davidson	NC	Solar	Intermediate	Yes	1.72
Facility 2799	Columbus	NC	Solar	Intermediate	Yes	6
Facility 2800	Burlington	NC	Solar	Intermediate	Yes	1.9
Facility 2801	Mooresville	NC	Solar	Intermediate	Yes	4.678
Facility 2802	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 2803	Black Mountain	NC	Solar	Intermediate	Yes	10
Facility 2804	Durham	NC	Solar	Intermediate	Yes	4.58
Facility 2805	Charlotte	NC	Solar	Intermediate	Yes	2.58

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2806	Hendersonville	NC	Solar	Intermediate	Yes	1.935
Facility 2807	Indian Trail	NC	Solar	Intermediate	Yes	4.3
Facility 2808	Stokesdale	NC	Solar	Intermediate	Yes	3.44
Facility 2809	liberty	NC	Solar	Intermediate	Yes	3.98
Facility 2810	Winston-Salem	NC	Solar	Intermediate	Yes	5
Facility 2811	Concord	NC	Solar	Intermediate	Yes	4
Facility 2812	Concord	NC	Solar	Intermediate	Yes	3.08
Facility 2813	Bryson City	NC	Solar	Intermediate	Yes	6
Facility 2814	Bryson City	NC	Solar	Intermediate	Yes	2.52
Facility 2815	Charlotte	NC	Solar	Intermediate	Yes	7.5
Facility 2816	Bostic	NC	Solar	Intermediate	Yes	2.8
Facility 2817	Charlotte	NC	Solar	Intermediate	Yes	6.24
Facility 2818	Burlington	NC	Solar	Intermediate	Yes	7.02
Facility 2819	Charlotte	NC	Solar	Intermediate	Yes	2.4
Facility 2820	Iron Station	NC	Solar	Intermediate	Yes	5.16
Facility 2821	Chapel Hill	NC	Solar	Intermediate	Yes	5
Facility 2822	Carrboro	NC	Solar	Intermediate	Yes	6
Facility 2823	Charlotte	NC	Solar	Intermediate	Yes	4.945
Facility 2824	Charlotte	NC	Solar	Intermediate	Yes	5.75
Facility 2825	Pittsboro	NC	Solar	Intermediate	Yes	5
Facility 2826	Charlotte	NC	Solar	Intermediate	Yes	9.085
Facility 2827	Carrboro	NC	Solar	Intermediate	Yes	3.801
Facility 2828	Hillsborough	NC	Solar	Intermediate	Yes	4.743
Facility 2829	Chapel Hill	NC	Solar	Intermediate	Yes	7.115
Facility 2830	Valdese	NC	Solar	Intermediate	Yes	4.487
Facility 2831	Burlington	NC	Solar	Intermediate	Yes	2.89
Facility 2832	Burlington	NC	Solar	Intermediate	Yes	4.818
Facility 2833	Hendersonville	NC	Solar	Intermediate	Yes	2.488
Facility 2834	Chapel Hill	NC	Solar	Intermediate	Yes	5.378
Facility 2835	Winston-Salem	NC	Solar	Intermediate	Yes	3.209
Facility 2836	Greensboro	NC	Solar	Intermediate	Yes	4.087
Facility 2837	Haw River	NC	Solar	Intermediate	Yes	14.8
Facility 2838	Chapel Hill	NC	Solar	Intermediate	Yes	2.808

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2839	Charlotte	NC	Solar	Intermediate	Yes	4.277
Facility 2840	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 2841	Hickory	NC	Solar	Intermediate	Yes	5.59
Facility 2842	Cashiers	NC	Solar	Intermediate	Yes	7.35
Facility 2843	Salisbury	NC	Solar	Intermediate	Yes	4.842
Facility 2844	Charlotte	NC	Solar	Intermediate	Yes	2.782
Facility 2845	Advance	NC	Solar	Intermediate	Yes	4950
Facility 2846	Durham	NC	Solar	Intermediate	Yes	4.945
Facility 2847	Waxhaw	NC	Solar	Intermediate	Yes	1.29
Facility 2848	Chapel Hill	NC	Solar	Intermediate	Yes	1.48
Facility 2849	Randleman	NC	Solar	Intermediate	Yes	2.5
Facility 2850	Randleman	NC	Solar	Intermediate	Yes	4
Facility 2851	Waxhaw	NC	Solar	Intermediate	Yes	4
Facility 2852	Chapel Hill	NC	Solar	Intermediate	Yes	9
Facility 2853	Hillsborough	NC	Solar	Intermediate	Yes	4.3
Facility 2854	Matthews	NC	Solar	Intermediate	Yes	0.86
Facility 2855	Durham	NC	Solar	Intermediate	Yes	7
Facility 2856	King	NC	Solar	Intermediate	Yes	5
Facility 2857	Burlington	NC	Solar	Intermediate	Yes	4
Facility 2858	Davidson	NC	Solar	Intermediate	Yes	2
Facility 2859	Carrboro	NC	Solar	Intermediate	Yes	4
Facility 2860	Saluda	NC	Solar	Intermediate	Yes	3.84
Facility 2861	Reidsville	NC	Solar	Intermediate	Yes	5
Facility 2862	Browns Summit	NC	Solar	Intermediate	Yes	2.32
Facility 2863	Carrboro	NC	Solar	Intermediate	Yes	4.37
Facility 2864	Charlotte	NC	Solar	Intermediate	Yes	3.29
Facility 2865	Bessemer City	NC	Solar	Intermediate	Yes	5.136
Facility 2866	Morganton	NC	Solar	Intermediate	Yes	2.58
Facility 2867	Greensboro	NC	Solar	Intermediate	Yes	1.851
Facility 2868	Kannapolis	NC	Solar	Intermediate	Yes	8
Facility 2869	Rockwell	NC	Solar	Intermediate	Yes	4
Facility 2870	Greensboro	NC	Solar	Intermediate	Yes	2.88
Facility 2871	Concord	NC	Solar	Intermediate	Yes	1.29

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2872	Nebo	NC	Solar	Intermediate	Yes	4.41
Facility 2873	Lincolnton	NC	Solar	Intermediate	Yes	9
Facility 2874	Winston-Salem	NC	Solar	Intermediate	Yes	6.522
Facility 2875	Mooreville	NC	Solar	Intermediate	Yes	1.726
Facility 2876	Chapel Hill	NC	Solar	Intermediate	Yes	3.8
Facility 2877	Lake Lure	NC	Hydroelectric	Baseload	Yes	3600
Facility 2878	Sylva	NC	Solar	Intermediate	Yes	5
Facility 2879	Cornelius	NC	Solar	Intermediate	Yes	14.7
Facility 2880	Kannapolis	NC	Solar	Intermediate	Yes	14.02
Facility 2881	Durham	NC	Solar	Intermediate	Yes	3.01
Facility 2882	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 2883	Mooreville	NC	Solar	Intermediate	Yes	5.853
Facility 2884	Mount Pleasant	NC	Solar	Intermediate	Yes	2.909
Facility 2885	Hickory	NC	Solar	Intermediate	Yes	4.596
Facility 2886	Greensboro	NC	Solar	Intermediate	Yes	30
Facility 2887	Durham	NC	Solar	Intermediate	Yes	27.6
Facility 2888	Whittier	NC	Solar	Intermediate	Yes	7.367
Facility 2889	Hickory	NC	Solar	Intermediate	Yes	3.8
Facility 2890	Statesville	NC	Solar	Intermediate	Yes	4998
Facility 2891	Morrisville	NC	Solar	Intermediate	Yes	4.885
Facility 2892	Greensboro	NC	Solar	Intermediate	Yes	6.877
Facility 2893	Charlotte	NC	Solar	Intermediate	Yes	18
Facility 2894	Durham	NC	Solar	Intermediate	Yes	8.967
Facility 2895	Salisbury	NC	Solar	Intermediate	Yes	3.84
Facility 2896	Summerfield	NC	Solar	Intermediate	Yes	2.16
Facility 2897	Durham	NC	Solar	Intermediate	Yes	4
Facility 2898	Durham	NC	Solar	Intermediate	Yes	16
Facility 2899	Mills River	NC	Solar	Intermediate	Yes	5.868
Facility 2900	Elon	NC	Solar	Intermediate	Yes	3.209
Facility 2901	Durham	NC	Solar	Intermediate	Yes	6.818
Facility 2902	Charlotte	NC	Solar	Intermediate	Yes	1.5
Facility 2903	Kings Mountain	NC	Solar	Intermediate	Yes	4.395
Facility 2904	Catawba	NC	Solar	Intermediate	Yes	10.111

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2905	Charlotte	NC	Solar	Intermediate	Yes	360
Facility 2906	Charlotte	NC	Solar	Intermediate	Yes	480
Facility 2907	Hickory	NC	Solar	Intermediate	Yes	5000
Facility 2908	Wilkesboro	NC	Solar	Intermediate	Yes	96
Facility 2909	Charlotte	NC	Solar	Intermediate	Yes	2.373
Facility 2910	Conover	NC	Solar	Intermediate	Yes	1.72
Facility 2911	Pleasant Garden	NC	Solar	Intermediate	Yes	7.382
Facility 2912	Charlotte	NC	Solar	Intermediate	Yes	4.8
Facility 2913	Wingate	NC	Solar	Intermediate	Yes	9.03
Facility 2914	Chapel Hill	NC	Solar	Intermediate	Yes	20
Facility 2915	Chapel Hill	NC	Landfill Gas	Intermediate	Yes	1059
Facility 2916	Greensboro	NC	Solar	Intermediate	Yes	3
Facility 2917	Haw River	NC	Solar	Intermediate	Yes	56
Facility 2918	Yadkinville	NC	Solar	Intermediate	Yes	750
Facility 2919	Winston-Salem	NC	Solar	Intermediate	Yes	31.327
Facility 2920	Chapel Hill	NC	Solar	Intermediate	Yes	80
Facility 2921	Conover	NC	Solar	Intermediate	Yes	301.95
Facility 2922	RTP	NC	Solar	Intermediate	Yes	3000
Facility 2923	RTP	NC	Solar	Intermediate	Yes	51
Facility 2924	RTP	NC	Solar	Intermediate	Yes	112
Facility 2925	Winston-Salem	NC	Solar	Intermediate	Yes	95.2
Facility 2926	Troutman	NC	Solar	Intermediate	Yes	4.093
Facility 2927	Durham	NC	Solar	Intermediate	Yes	50
Facility 2928	Durham	NC	Solar	Intermediate	Yes	30
Facility 2929	Durham	NC	Solar	Intermediate	Yes	75
Facility 2930	Durham	NC	Solar	Intermediate	Yes	52.9
Facility 2931	Mount Airy	NC	Solar	Intermediate	Yes	14
Facility 2932	Chapel Hill	NC	Solar	Intermediate	Yes	2.7
Facility 2933	Reidsville	NC	Solar	Intermediate	Yes	9.719
Facility 2934	Mocksville	NC	Solar	Intermediate	Yes	4.136
Facility 2935	Charlotte	NC	Solar	Intermediate	Yes	4.408
Facility 2936	Summerfield	NC	Solar	Intermediate	Yes	4.582
Facility 2937	Graham	NC	Solar	Intermediate	Yes	3.951

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2938	Monroe	NC	Solar	Intermediate	Yes	4.822
Facility 2939	Jamestown	NC	Solar	Intermediate	Yes	3
Facility 2940	Winston-Salem	NC	Solar	Intermediate	Yes	0.426
Facility 2941	Reidsville	NC	Solar	Intermediate	Yes	5.622
Facility 2942	Mooresville	NC	Solar	Intermediate	Yes	8.45
Facility 2943	Mooresville	NC	Solar	Intermediate	Yes	12.2
Facility 2944	King	NC	Solar	Intermediate	Yes	9.602
Facility 2945	Concord	NC	Solar	Intermediate	Yes	5
Facility 2946	Hillsborough	NC	Solar	Intermediate	Yes	4
Facility 2947	Salisbury	NC	Solar	Intermediate	Yes	8.54
Facility 2948	Elon	NC	Solar	Intermediate	Yes	2.58
Facility 2949	Winston-Salem	NC	Solar	Intermediate	Yes	2.58
Facility 2950	Indian Trail	NC	Solar	Intermediate	Yes	2.5
Facility 2951	Oak Ridge	NC	Solar	Intermediate	Yes	8
Facility 2952	Charlotte	NC	Solar	Intermediate	Yes	4
Facility 2953	Concord	NC	Solar	Intermediate	Yes	2.511
Facility 2954	Elon	NC	Solar	Intermediate	Yes	6.02
Facility 2955	Summerfield	NC	Solar	Intermediate	Yes	5.151
Facility 2956	Hillsborough	NC	Solar	Intermediate	Yes	5.714
Facility 2957	Lincolnton	NC	Solar	Intermediate	Yes	1.29
Facility 2958	Charlotte	NC	Solar	Intermediate	Yes	6
Facility 2959	Greensboro	NC	Solar	Intermediate	Yes	2.753
Facility 2960	Charlotte	NC	Solar	Intermediate	Yes	5.81
Facility 2961	Reidsville	NC	Solar	Intermediate	Yes	800.4
Facility 2962	Durham	NC	Solar	Intermediate	Yes	5.078
Facility 2963	Charlotte	NC	Solar	Intermediate	Yes	3.08
Facility 2964	Winston-Salem	NC	Solar	Intermediate	Yes	1.92
Facility 2965	Charlotte	NC	Solar	Intermediate	Yes	27.47
Facility 2966	Eden	NC	Biomass	Intermediate	Yes	700
Facility 2967	Chapel Hill	NC	Solar	Intermediate	Yes	14.51
Facility 2968	Durham	NC	Solar	Intermediate	Yes	3.937
Facility 2969	Kings Mountain	NC	Solar	Intermediate	Yes	4950
Facility 2970	Conover	NC	Solar	Intermediate	Yes	3

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 2971	Rutherford College	NC	Solar	Intermediate	Yes	2.968
Facility 2972	Stony Point	NC	Solar	Intermediate	Yes	4.025
Facility 2973	Charlotte	NC	Solar	Intermediate	Yes	8.228
Facility 2974	Winston-Salem	NC	Solar	Intermediate	Yes	9.36
Facility 2975	Sylva	NC	Solar	Intermediate	Yes	2.765
Facility 2976	Charlotte	NC	Solar	Intermediate	Yes	2.88
Facility 2977	Newton	NC	Solar	Intermediate	Yes	3.926
Facility 2978	Salisbury	NC	Solar	Intermediate	Yes	150
Facility 2979	Gibsonville	NC	Solar	Intermediate	Yes	14.04
Facility 2980	Walkertown	NC	Solar	Intermediate	Yes	6
Facility 2981	Summerfield	NC	Solar	Intermediate	Yes	2
Facility 2982	Salisbury	NC	Solar	Intermediate	Yes	12.4
Facility 2983	Charlotte	NC	Solar	Intermediate	Yes	8.881
Facility 2984	Statesville	NC	Solar	Intermediate	Yes	1.4
Facility 2985	McLeansville	NC	Solar	Intermediate	Yes	8.008
Facility 2986	Andrews	NC	Solar	Intermediate	Yes	8.2
Facility 2987	Harrisburg	NC	Solar	Intermediate	Yes	5.301
Facility 2988	Chapel Hill	NC	Solar	Intermediate	Yes	4.32
Facility 2989	Charlotte	NC	Solar	Intermediate	Yes	18.466
Facility 2990	Greensboro	NC	Solar	Intermediate	Yes	4
Facility 2991	Durham	NC	Solar	Intermediate	Yes	4.707
Facility 2992	Charlotte	NC	Solar	Intermediate	Yes	5.38
Facility 2993	Boone	NC	Landfill Gas	Intermediate	Yes	186
Facility 2994	Taylorsville	NC	Solar	Intermediate	Yes	3.976
Facility 2995	Chapel Hill	NC	Solar	Intermediate	Yes	4.341
Facility 2996	Mt Pleasant	NC	Solar	Intermediate	Yes	8.718
Facility 2997	Elkin	NC	Solar	Intermediate	Yes	3
Facility 2998	Greensboro	NC	Solar	Intermediate	Yes	5
Facility 2999	Carrboro	NC	Solar	Intermediate	Yes	5.194
Facility 3000	Mocksville	NC	Solar	Intermediate	Yes	0.7
Facility 3001	Winston-Salem	NC	Solar	Intermediate	Yes	6.068
Facility 3002	Troutman	NC	Solar	Intermediate	Yes	4.775
Facility 3003	Charlotte	NC	Solar	Intermediate	Yes	7.7

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 3004	Robbinsville	NC	Solar	Intermediate	Yes	7.62
Facility 3005	Lincolnton	NC	Solar	Intermediate	Yes	4.4
Facility 3006	Moravian Falls	NC	Solar	Intermediate	Yes	2.85
Facility 3007	Efland	NC	Solar	Intermediate	Yes	6
Facility 3008	McLeansville	NC	Solar	Intermediate	Yes	1.44
Facility 3009	Chapel Hill	NC	Solar	Intermediate	Yes	4
Facility 3010	Durham	NC	Solar	Intermediate	Yes	6.209
Facility 3011	Mooresville	NC	Solar	Intermediate	Yes	2.58
Facility 3012	Charlotte	NC	Solar	Intermediate	Yes	6
Facility 3013	Hendersonville	NC	Solar	Intermediate	Yes	2.58
Facility 3014	Ellenboro	NC	Solar	Intermediate	Yes	2.65
Facility 3015	Shelby	NC	Solar	Intermediate	Yes	0.86
Facility 3016	Salisbury	NC	Solar	Intermediate	Yes	4998
Facility 3017	Carrboro	NC	Solar	Intermediate	Yes	18.6
Facility 3018	Carrboro	NC	Solar	Intermediate	Yes	9.61
Facility 3019	Winston-Salem	NC	Solar	Intermediate	Yes	3.276
Facility 3020	Durham	NC	Solar	Intermediate	Yes	4.059
Facility 3021	Kernersville	NC	Solar	Intermediate	Yes	4.823
Facility 3022	Tobaccoville	NC	Solar	Intermediate	Yes	4.035
Facility 3023	Chapel Hill	NC	Solar	Intermediate	Yes	5000
Facility 3024	Chapel Hill	NC	Solar	Intermediate	Yes	2002.08
Facility 3025	Saluda	NC	Solar	Intermediate	Yes	5
Facility 3026	Brevard	NC	Solar	Intermediate	Yes	0.65
Facility 3027	Taylorsville	NC	Solar	Intermediate	Yes	23.776
Facility 3028	Clemmons	NC	Solar	Intermediate	Yes	7.889
Facility 3029	Saluda	NC	Solar	Intermediate	Yes	5.885
Facility 3030	Mount Ulla	NC	Solar	Intermediate	Yes	6.051
Facility 3031	Charlotte	NC	Solar	Intermediate	Yes	6.63
Facility 3032	Mooresboro	NC	Solar	Intermediate	Yes	3.498
Facility 3033	Summerfield	NC	Solar	Intermediate	Yes	4.983
Facility 3034	Summerfield	NC	Solar	Intermediate	Yes	4.983
Facility 3035	Concord	NC	Solar	Intermediate	Yes	2.511
Facility 3036	Durham	NC	Solar	Intermediate	Yes	6.829

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 3037	N Wilkesboro	NC	Wind	Intermediate	Yes	2.4
Facility 3038	Wilkesboro	NC	Landfill Gas	Intermediate	Yes	70
Facility 3039	Rural Hall	NC	Solar	Intermediate	Yes	7.794
Facility 3040	Rural Hall	NC	Solar	Intermediate	Yes	6.913
Facility 3041	Greensboro	NC	Solar	Intermediate	Yes	4.52
Facility 3042	Lawndale	NC	Solar	Intermediate	Yes	2.5
Facility 3043	Chapel Hill	NC	Solar	Intermediate	Yes	2.3
Facility 3044	Chapel Hill	NC	Solar	Intermediate	Yes	5
Facility 3045	Durham	NC	Solar	Intermediate	Yes	4.32
Facility 3046	Matthews	NC	Solar	Intermediate	Yes	2.41
Facility 3047	Chapel Hill	NC	Solar	Intermediate	Yes	6
Facility 3048	Jamestown	NC	Solar	Intermediate	Yes	2.4
Facility 3049	Wingate	NC	Solar	Intermediate	Yes	2.58
Facility 3050	Salisbury	NC	Solar	Intermediate	Yes	7.68
Facility 3051	Highlands	NC	Solar	Intermediate	Yes	3
Facility 3052	Franklin	NC	Solar	Intermediate	Yes	2.58
Facility 3053	Winston-Salem	NC	Solar	Intermediate	Yes	5.16
Facility 3054	Snow Camp	NC	Solar	Intermediate	Yes	4.5
Facility 3055	Greensboro	NC	Solar	Intermediate	Yes	5.1
Facility 3056	Winston-Salem	NC	Solar	Intermediate	Yes	2.94
Facility 3057	Durham	NC	Solar	Intermediate	Yes	2
Facility 3058	Concord	NC	Solar	Intermediate	Yes	2.75
Facility 3059	McLeansville	NC	Solar	Intermediate	Yes	2.88
Facility 3060	Oak Ridge	NC	Solar	Intermediate	Yes	6.5
Facility 3061	Chapel Hill	NC	Solar	Intermediate	Yes	2
Facility 3062	Greensboro	NC	Solar	Intermediate	Yes	4.8
Facility 3063	Durham	NC	Solar	Intermediate	Yes	3.8
Facility 3064	Durham	NC	Solar	Intermediate	Yes	3
Facility 3065	Charlotte	NC	Solar	Intermediate	Yes	3.3
Facility 3066	Durham	NC	Solar	Intermediate	Yes	3
Facility 3067	Taylorsville	NC	Solar	Intermediate	Yes	3
Facility 3068	Mooresville	NC	Solar	Intermediate	Yes	6
Facility 3069	Winston-Salem	NC	Solar	Intermediate	Yes	4.5

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 3070	Greensboro	NC	Solar	Intermediate	Yes	2.88
Facility 3071	Carrboro	NC	Solar	Intermediate	Yes	5.3
Facility 3072	Winston-Salem	NC	Solar	Intermediate	Yes	22.8
Facility 3073	Winston-Salem	NC	Solar	Intermediate	Yes	3.3
Facility 3074	Charlotte	NC	Solar	Intermediate	Yes	7.008
Facility 3075	Sylva	NC	Solar	Intermediate	Yes	6
Facility 3076	Monroe	NC	Solar	Intermediate	Yes	3.504
Facility 3077	Charlotte	NC	Solar	Intermediate	Yes	5.938
Facility 3078	Mount Holly	NC	Solar	Intermediate	Yes	2.948
Facility 3079	Hendersonville	NC	Solar	Intermediate	Yes	4.528
Facility 3080	Charlotte	NC	Solar	Intermediate	Yes	3.415
Facility 3081	Reidsville	NC	Solar	Intermediate	Yes	6.522
Facility 3082	Greensboro	NC	Solar	Intermediate	Yes	3.245
Facility 3083	Chapel Hill	NC	Solar	Intermediate	Yes	3.668
Facility 3084	Charlotte	NC	Solar	Intermediate	Yes	3.906
Facility 3085	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 3086	Charlotte	NC	Solar	Intermediate	Yes	0.86
Facility 3087	Marion	NC	Solar	Intermediate	Yes	2.848
Facility 3088	Charlotte	NC	Solar	Intermediate	Yes	6.432
Facility 3089	Highlands	NC	Solar	Intermediate	Yes	5.663
Facility 3090	Oak Ridge	NC	Solar	Intermediate	Yes	4.775
Facility 3091	Colfax	NC	Solar	Intermediate	Yes	5.534
Facility 3092	Mebane	NC	Solar	Intermediate	Yes	2.58
Facility 3093	Old Fort	NC	Solar	Intermediate	Yes	4.842
Facility 3094	Graham	NC	Solar	Intermediate	Yes	10.179
Facility 3095	Salisbury	NC	Solar	Intermediate	Yes	9.46
Facility 3096	Matthews	NC	Solar	Intermediate	Yes	4.025
Facility 3097	Tobaccoville	NC	Solar	Intermediate	Yes	8.029
Facility 3098	Winston-Salem	NC	Solar	Intermediate	Yes	5.619
Facility 3099	Pelham	NC	Solar	Intermediate	Yes	2.17
Facility 3100	Kernersville	NC	Landfill Gas	Intermediate	Yes	2400
Facility 3101	Charlotte	NC	Solar	Intermediate	Yes	4
Facility 3102	Hickory	NC	Solar	Intermediate	Yes	4.91

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 3103	Charlotte	NC	Solar	Intermediate	Yes	4.063
Facility 3104	Greensboro	NC	Solar	Intermediate	Yes	3.067
Facility 3105	Monroe	NC	Solar	Intermediate	Yes	6
Facility 3106	Clemmons	NC	Solar	Intermediate	Yes	3.82
Facility 3107	Hudson	NC	Solar	Intermediate	Yes	3.595
Facility 3108	Hillsborough	NC	Solar	Intermediate	Yes	8.093
Facility 3109	Matthews	NC	Solar	Intermediate	Yes	2.327
Facility 3110	Greensboro	NC	Solar	Intermediate	Yes	2.247
Facility 3111	Chapel Hill	NC	Solar	Intermediate	Yes	17.864
Facility 3112	Thomasville	NC	Solar	Intermediate	Yes	83.72
Facility 3113	Chapel Hill	NC	Solar	Intermediate	Yes	2.585
Facility 3114	Charlotte	NC	Solar	Intermediate	Yes	225
Facility 3115	Browns Summit	NC	Solar	Intermediate	Yes	4.3
Facility 3116	Charlotte	NC	Solar	Intermediate	Yes	5.934
Facility 3117	Yadkinville	NC	Solar	Intermediate	Yes	3000
Facility 3118	Yadkinville	NC	Solar	Intermediate	Yes	3480
Facility 3119	Mooreville	NC	Solar	Intermediate	Yes	2.523
Facility 3120	Mooreville	NC	Solar	Intermediate	Yes	5.031
Facility 3121	Highlands	NC	Solar	Intermediate	Yes	5.48
Facility 3122	Lake Lure	NC	Solar	Intermediate	Yes	3.751
Facility 3123	Kings Mountain	NC	Solar	Intermediate	Yes	1890
Facility 3124	Charlotte	NC	Solar	Intermediate	Yes	4.418
Facility 3125	Stokesdale	NC	Solar	Intermediate	Yes	5.031
Facility 3126	Stokesdale	NC	Solar	Intermediate	Yes	5.534
Facility 3127	Durham	NC	Solar	Intermediate	Yes	3.122
Facility 3128	Charlotte	NC	Solar	Intermediate	Yes	1.29
Facility 3129	Charlotte	NC	Solar	Intermediate	Yes	7.7
Facility 3130	Brevard	NC	Solar	Intermediate	Yes	4
Facility 3131	Pfafftown	NC	Solar	Intermediate	Yes	6.803
Facility 3132	Durham	NC	Solar	Intermediate	Yes	7.189
Facility 3133	Durham	NC	Solar	Intermediate	Yes	4.987
Facility 3134	Mocksville	NC	Solar	Intermediate	Yes	3.44
Facility 3135	Greensboro	NC	Solar	Intermediate	Yes	5.502

Table 10-C (cont.)						
<u>Facility Name</u>	<u>City/County</u>	<u>State</u>	<u>Primary Fuel Type</u>	<u>Designation</u>	<u>Inclusion in Utility's Resources</u>	<u>Capacity (AC kW)</u>
Facility 3136	Charlotte	NC	Solar	Intermediate	Yes	8.846
Facility 3137	Charlotte	NC	Solar	Intermediate	Yes	2.021
Facility 3138	Charlotte	NC	Solar	Intermediate	Yes	4.405
Facility 3139	Charlotte	NC	Solar	Intermediate	Yes	9.6
Facility 3140	Raleigh	NC	Solar	Intermediate	Yes	9.335
Facility 3141	Durham	NC	Solar	Intermediate	Yes	2.916
Facility 3142	Greensboro	NC	Solar	Intermediate	Yes	5.945
Facility 3143	Fletcher	NC	Solar	Intermediate	Yes	3.931
Facility 3144	Charlotte	NC	Solar	Intermediate	Yes	1.72

11. CROSS-REFERENCE TABLE & SUBSEQUENT COMMISSION ORDER REQUIREMENTS

This section contains a cross-reference table, Table 11-A, that lists each requirement for the 2017 IRP Update Report, as well as the location of the Company's compliance with each.

Additionally, based upon the Commission's 2016 Order Accepting Integrated Resource Plans and Accepting REPS Compliance Plans as part of Docket No. E-100, Sub 147, Table 11-B includes the location of the Company's required responses in this 2017 Update IRP Report.

Table 11-A Cross-Reference Table

	Requirement:	Location:
1.	Summary of significant amendments or revisions to most recently filed biennial report (including amendments to type and size of resources identified)	Chapter 4
2.	Short-term action plan	Chapter 7
3.	REPS Compliance Plan	Attachment: NC REPS Compliance Plan
4.	Most recent 10-year history and forecast of: - customers by each customer class, - energy sales (MWh) by each customer class, - utilities summer and winter peak load	Chapter 5
5.	15 year table (w/ and w/o projected supply or demand side resources) of: - Peak loads for summer and winter seasons of each year - annual energy forecasts - Reserve margins - Load duration curves - Effects of DR and EE programs on forecasted annual energy and peak loads	Chapter 5
6.	Description of future supply-side resources including type of capacity / resource (MW rating, fuel source, base, intermediate, or peaking)	Chapter 6
7.	List of existing units in service with: - type of fuel(s) used - Type of unit (base, int, peak) - Location of existing unit - List of units to be retired with location and date - List of units for which there are specific plans for life extension, refurbishment, or upgrading - Other changes to existing generating units that are expected to impact gen capability by 10% or 10 MW	Chapter 8
8.	Planned Generation Additions with: - Type of fuel used - Type of unit (MW rating, base, int, peak) - Location if determined - Summaries of analyses supporting any new gen additions included in its 15-year forecast	Chapter 6
9.	List of all NUG facilities - facility name - location - primary fuel type - capacity (base, int, peak) - which are included in its total supply of resources	Chapter 10
10.	Cumulative resource additions necessary to meet load obligation & reserve margins	Chapter 6

Table 11-B Commission Order Requirements for 2017 IRP Update Report

	Requirement:	Location:
1.	Address any refinements made to forecasting methodology to better address load response in general, but especially the previous extreme winter weather events.	Chapter 5
2.	Clarify how 540 MW NCEMC backstand agreement is treated in load forecast	Chapter 5
3.	Concerns regarding reserve margin study outlined by Public Staff & SACE, NRDC and Sierra Club Consultant Wilson should be acknowledged and fully addressed.	Chapter 4
4.	Work with Public Staff to address Public Staff & SACE, NRDC and Sierra Club Consultant Wilson concerns and implement changes as necessary to help ensure reserve margin targets are fully supported.	Chapter 4
5.	Duke Energy/ Public Staff to file joint report summarizing review and conclusions regarding reserve margin summary concerns.	Chapter 4
6.	Evaluate feasibility and benefits of advanced analytic techniques that incorporate sub-hourly modeling / more granular system performance data and utilize these resources if feasible.	Chapter 4



The Duke Energy Carolinas

NC Renewable Energy & Energy Efficiency Portfolio Standard (NC REPS) Compliance Plan

September 1, 2017

**NC REPS COMPLIANCE PLAN
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I. INTRODUCTION:

Duke Energy Carolinas, LLC (“DEC” or “the Company”) submits its annual Renewable Energy and Energy Efficiency Portfolio Standard (“NC REPS” or “REPS”) Compliance Plan (“Compliance Plan”) in accordance with NC Gen. Stat. § 62-133.8 and North Carolina Utilities Commission (“the Commission”) Rule R8-67(b). This Compliance Plan, set forth in detail in Section II and Section III, provides the required information and outlines the Company’s projected plans to comply with NC REPS for the period 2017 to 2019 (“the Planning Period”). Section IV addresses the cost implications of the Company’s REPS Compliance Plan.

In 2007, the North Carolina General Assembly enacted Session Law 2007-397 (Senate Bill 3), codified in relevant part as NC Gen. Stat. § 62-133.8, in order to:

- Diversify the resources used to reliably meet the energy needs of consumers in the State;
- Provide greater energy security through the use of indigenous energy resources available within the State;
- Encourage private investment in renewable energy and energy efficiency; and
- Provide improved air quality and other benefits to energy consumers and citizens of the State.

As part of the broad policy initiatives listed above, Senate Bill 3 established the NC REPS, which requires the investor-owned utilities, electric membership corporations or co-operatives, and municipalities to procure or produce renewable energy, or achieve energy efficiency savings, in amounts equivalent to specified percentages of their respective retail megawatt-hour (MWh) sales from the prior calendar year.

Duke Energy Carolinas seeks to advance these State policies and comply with its REPS obligations through a diverse portfolio of cost-effective renewable energy and energy efficiency resources. Specifically, the key components of Duke Energy Carolinas’ 2017 Compliance Plan include: (1) purchases of renewable energy certificates (RECs); (2) constructing and operating Company-owned renewable facilities; (3) energy efficiency programs that will generate savings that can be counted towards the Company’s REPS obligation; and (4) research studies to enhance the Company’s ability to comply with its future REPS obligations. The Company believes that these actions yield a diverse portfolio of qualifying resources and allow a flexible mechanism for compliance with the requirements of NC Gen. Stat. § 62-133.8.

In addition, the Company has undertaken, and will continue to undertake, specific regulatory and operational initiatives to support REPS compliance, including: (1) submission of regulatory applications to pursue reasonable and appropriate renewable energy and energy efficiency initiatives in support of the Company's REPS compliance needs; (2) solicitation, review, and analysis of proposals from renewable energy suppliers offering RECs and diligent pursuit of the most attractive opportunities, as appropriate; and (3) development and implementation of administrative processes to manage the Company's REPS compliance operations, such as procuring and managing renewable resource contracts, accounting for RECs, safely interconnecting renewable energy suppliers, reporting renewable generation to the North Carolina Renewable Energy Tracking System (NC-RETS), and forecasting renewable resource availability and cost in the future.

The Company believes these actions collectively constitute a thorough and prudent plan for compliance with NC REPS and demonstrate the Company's commitment to pursue its renewable energy and energy efficiency strategies for the benefit of its customers.

II. REPS COMPLIANCE OBLIGATION

Duke Energy Carolinas calculates its NC REPS Compliance Obligations⁷ for 2017, 2018, and 2019 based on interpretation of the statute (NC Gen. Stat. § 62-133.8), the Commission's rules implementing Senate Bill 3 (Rule R8-67), and subsequent Commission orders, as applied to the Company's actual or forecasted retail sales in the Planning Period, as well as the actual and forecasted retail sales of those wholesale customers for whom the Company is supplying REPS compliance services. The Company's wholesale customers for whom it supplies REPS compliance services are Rutherford Electric Membership Corporation, Blue Ridge Electric Membership Corporation, Town of Dallas, Town of Forest City, City of Concord, Town of Highlands, and the City of Kings Mountain (collectively referred to as "Wholesale" or "Wholesale Customers")⁸. The contracts for the City of Concord and the City of Kings Mountain terminate on December 31, 2018. DEC's obligation to provide REPS compliance service for the towns ends when their power supply agreements terminate; therefore, this Compliance Plan only reflects REPS compliance services for

⁷ For the purposes of this Compliance Plan, Compliance Obligation is more specifically defined as the sum of Duke Energy Carolinas' native load obligations for both the Company's retail sales and for wholesale native load priority customers' retail sales for whom the Company is supplying REPS compliance. All references to the respective Set-Aside requirements, the General Requirements, and REPS Compliance Obligation of the Company include the aggregate obligations of both Duke Energy Carolinas and the Wholesale Customers. Also, for purposes of this Compliance Plan, all references to the compliance activities and plans of the Company shall encompass such activities and plans being undertaken by Duke Energy Carolinas on behalf of the Wholesale Customers.

⁸ For purposes of this Compliance Plan, Retail Sales is defined as the sum of Duke Energy Carolinas retail sales and the retail sales of the Wholesale Customers for whom the company is supplying REPS compliance.

these customers through 2018. Table 1 below shows the Company's retail and Wholesale customers' REPS Compliance Obligation.

Table 1: Duke Energy Carolinas' NC REPS Compliance Obligation

Compliance Year	Previous Year DEC Retail Sales (MWhs) (1)	Previous Year Wholesale Sales (MWhs) (1) (2)	Total Retail sales for REPS Compliance (MWhs)	Solar Set-Aside (RECs)	Swine Set-Aside (RECs)	Poultry Set-Aside (RECs)	REPS Requirement (%)	Total REPS Compliance Obligation (RECs)
2017	57,542,362	3,579,968	61,122,330	85,571	42,786	318,866	6%	3,667,340
2018	56,984,744	3,612,656	60,597,400	121,195	42,418	409,970	10%	6,059,740
2019	57,381,989	2,592,307	59,974,296	119,949	83,964	403,214	10%	5,997,430

(1) Annual compliance REC requirements are determined based on prior-year MWh sales. Retail sales figures shown for compliance years 2018 and 2019, are estimates of 2017 and 2018 retail sales, respectively.

(2) DEC's contractual obligation to serve as designated utility compliance aggregator for two of its seven wholesale customers for which it provides REPS compliance services ends effective December 31, 2018. Therefore, combined estimated retail sales for the City of Concord and the City of Kings Mountain (totaling 1,055,030 MWh) applicable to compliance year 2019, are excluded from compliance year 2019 totals.

As shown in Table 1, the Company's requirements in the Planning Period include the solar energy resource requirement ("Solar Set-Aside"), swine waste resource requirement ("Swine Waste Set-Aside"), and poultry waste resource requirement ("Poultry Waste Set-Aside"). In addition, the Company must also ensure that, in total, the RECs that it produces or procures, combined with energy efficiency savings, is an amount equivalent to 6% of its prior-year retail sales in compliance year 2017 and 10% of its prior-year retail sales in compliance years 2018 and 2019. The Company refers to this as its Total Obligation. For clarification, the Company refers to its Total Obligation, net of the Solar, Swine Waste, and Poultry Waste Set-Aside requirements, as its General Requirement.

III. REPS COMPLIANCE PLAN

In accordance with Commission Rule R8-67b(1)(i), the Company describes its planned actions to comply with the Solar, Swine Waste, and Poultry Waste Set-Asides, as well as the General Requirement below. The discussion first addresses the Company's efforts to meet the Set-Aside requirements and then outlines the Company's efforts to meet its General Requirement in the Planning Period.

A. SOLAR ENERGY RESOURCES

Pursuant to NC Gen. Stat. § 62-133.8(d), the Company must produce or procure solar RECs equal to a minimum of 0.14% of the prior year's total electric energy in megawatt-hours (MWh) sold to retail customers in North Carolina in 2017, and 0.20% of the prior year's total

electric energy in megawatt-hours (MWh) sold to retail customers in North Carolina in 2018 and 2019.

Based on the Company's actual retail sales in 2016, the Solar Set-Aside is 85,571 RECs in 2017. Based on forecasted retail sales, the Solar Set-Aside is projected to be approximately 121,195 RECs in 2018 and 119,949 RECs in 2019.

The Company has fully satisfied and exceeded the minimum Solar Set-Aside requirements in the Planning Period through a combination of Power Purchase Agreements and Company-owned solar facilities, including those listed below.

- Monroe Solar Facility – 60MW, located in Union County, placed in service on March 29, 2017; and
- Mocksville Solar Facility – 15MW, located in Davie County, placed in service on December 16, 2016.

Additional details with respect to the REC purchase agreements are set forth in Exhibit A.

B. SWINE WASTE-TO-ENERGY RESOURCES

Pursuant to NC Gen. Stat. § 62-133.8(e), as amended by the NCUC *Order Modifying the Swine and Poultry Waste Set-Aside Requirement and Providing Other Relief*, Docket No. E-100, Sub 113 (October 2016), for compliance years 2017 and 2018, at least 0.07%, and in 2019, at least 0.14%, of prior-year total retail electric energy sold in aggregate by utilities in North Carolina must be supplied by energy derived from swine waste. The Company's Swine Waste Set-Aside is estimated to be 42,786 RECs in 2017, 42,418 RECs in 2018, and 83,964 RECs in 2019.

Swine waste-to-energy compliance challenges have been numerous and varied. Three paths to the creation of swine waste-to-energy RECs have been identified, although each faces unique challenges.

1. On-farm generation

Projects consisting of digestion and generation on a single farm or tight cluster of farms often face gas production and feedstock agreement challenges, as well as interconnection difficulties. The Company understands that many farms in NC are contract growers and have only limited term agreements with the integrators. Accordingly, many contract growers are not in a position to provide a firm supply of waste sufficient to support project financing. The Company is exploring ways to overcome such risks. On July 27, 2017 Governor Cooper signed into law the

“Competitive Energy Solutions for North Carolina” bill or House Bill 589 (“HB 589”) (SL 2017-92), which includes establishing an expedited interconnection review process for swine and poultry waste facilities that are two megawatts or less in size. This provision should help overcome some of the interconnection difficulties projects have experienced in the past.

2. Centralized digestion

This type of system would benefit farmers that cannot individually construct and operate an anaerobic digester manure handling system on their own due to the capital expense or just don’t have the number of animals required to operate a digester successfully or cost effectively. Farms located close to each other could share the cost of the centrally located digester system. The centralized digester operated by an individual or private company would carry out the operation and maintenance of the digester and its mechanical systems. It would have the same advantages as on-farm digesters of odor reduction, pathogen and weed seed destruction, biogas production and a stable effluent ready to fertilize fields and crops. A potential downside with centralized digestion exists if the liquid swine waste has to be transported to the central site. One project has overcome this risk by co-locating the facility adjacent to a swine processing plant.

The Company recognizes that NIMBY (“Not In My Back Yard”) issues may scuttle some developers’ plans for overcoming fuel supply and interconnection problems faced by more rural, on-farm projects.

3. Directed biogas

In theory, directed biogas⁹ reduces costs by using large, efficient, centralized generation in the place of smaller, less-efficient reciprocating engines typical of other projects. Technological advances in this field have helped drive pricing down to comparable levels of on-site generation for swine projects. The Company has worked diligently with Piedmont Natural Gas to help develop alternative natural gas specifications and contracts that developers can utilize for interconnection. Continued challenges in this area include additional gas clean-up requirements prior to injection and the general lack of physical proximity between clusters of farms and pipeline infrastructure.

⁹ “Directed Biogas” is defined as pipeline quality methane, injected into the pipeline system, and nominated to Duke Energy Carolinas generating facilities; this methane is biogenically derived from Swine Waste, Poultry Waste, and general Biomass sources.

The Company has entered into two contracts to purchase swine waste-derived directed biogas from projects in the Midwest and one contract to purchase swine waste-derived directed biogas from a project in North Carolina. The directed biogas will be transported on interstate pipelines and used for fuel in the Company's Buck or Dan River combined cycle plants. The Company continues to explore opportunities for additional directed biogas in North Carolina through discussions with developers as well as participation in a collaborative group working to deploy renewable natural gas in Eastern North Carolina.

In an effort to meet compliance with the Swine Waste Set Aside, the Company (1) continues direct negotiations for additional supplies of both in-state and out-of-state resources; (2) continues support of the Loyd Ray Farms research and development project; (3) works diligently to understand the technological, permitting, and operational risks associated with various methods of producing qualifying swine RECs to aid developers in overcoming those risks; when those risks cannot be overcome, the Company works with developers via contract amendments to adjust for outcomes that the developers believe are achievable based on new experience; (4) explores and is engaging in modification of current biomass and set-asides contracts by working with developers to add swine waste to their fuel mix; (5) continues pursuit of swine-derived directed biogas from North Carolina facilities and directing such biogas to DEC's combined cycle plants for combustion and generation of zero emission renewable electricity; (6) utilizes the Company's REC trader to search the broker market for out-of-state swine RECs available in the market; and (7) engages the North Carolina Pork Council ("NCPC") in a project evaluation collaboration effort that will allow the Company and the NCPC to discuss project viability, as appropriate with respect to the Company's obligations to keep certain sensitive commercial information confidential.

In spite of Duke Energy Carolinas' active and diligent efforts to secure resources to comply with its Swine Waste Set-Aside requirements, it is uncertain if the Company will be able to procure sufficient volumes of RECs to meet its pro-rata share of the Swine Waste Set-Aside requirements in 2017. One new project has recently come online and another is expected to come online later this year. DEC's ability to meet the 2017 compliance requirement is dependent on these projects producing at their contracted levels, and historical experience indicates that projects usually experience some start-up issues and take time to reach full expected production levels. Therefore, due to the uncertainty of compliance in 2017, the Company submitted a motion to the Commission for approval of a request to relieve the Company from compliance with the Swine Waste Set-Aside requirements until calendar year 2018 by delaying the compliance obligation for a one-year period.

The Company's ability to comply in 2018 and 2019 remains subject to multiple variables, particularly related to counterparty achievement of projected delivery requirements and commercial

operation milestones. Additional details with respect to the Company's compliance efforts and REC purchase agreements are set forth in Exhibit A and the Company's semiannual progress reports, filed confidentially in Docket No. E-100 Sub113A. The Company remains actively engaged in seeking additional resources and continues to make every reasonable effort to comply with the swine waste set-aside requirements.

C. POULTRY WASTE-TO-ENERGY RESOURCES

Pursuant to NC Gen. Stat. § 62-133.8(f), as amended by NCUC *Order Modifying the Swine and Poultry Waste Set-Aside Requirements and Providing Other Relief*, Docket No. E-100, Sub 113 (October 2016), for calendar year 2017, at least 700,000 MWhs, and for 2018 and 2019, at least 900,000 MWhs, or an equivalent amount of energy, shall be produced or procured each year from poultry waste, as defined per the Statute and additional clarifying Orders. As the Company's retail sales share of the State's total retail megawatt-hour sales is approximately 46%, the Company's Poultry Waste Set-Aside is estimated to be 318,866 RECs in 2017, 409,970 RECs in 2018, and 403,214 in 2019.

In an effort to meet compliance with the Poultry Waste Set-Aside, the Company (1) continues direct negotiations for additional supplies of both in-state and out-of-state resources with multiple counterparties; (2) works diligently to understand the technological, permitting, and operational risks associated with various methods of producing qualifying poultry RECs to aid developers in overcoming those risks; when those risks cannot be overcome, the Company works with developers via contract amendments to adjust for more realistic outcomes; (3) explores leveraging current biomass contracts by working with developers to add poultry waste to their fuel mix; (4) explores adding thermal capabilities to current poultry sites to bolster REC production; (5) explores poultry-derived directed biogas at facilities located in North Carolina and directing such biogas to DEC's combined cycle plants for combustion and generation of zero emission renewable electricity; and (6) utilizes the Company's REC trader to search the broker market for out-of-state poultry RECs available in the market.

In spite of Duke Energy Carolinas' active and diligent efforts to secure resources to comply with its Poultry Waste Set-Aside requirements, poultry waste-to-energy compliance remains a challenge for the Company. The Company's ability to procure sufficient volumes of RECs to meet its pro-rata share of the Poultry Waste Set-Aside requirements in 2017, 2018 and 2019 remains uncertain and largely subject to counterparty performance. Two new poultry projects have come online in 2017 and another is estimated to come online later this year. DEC's ability to comply in 2017 is dependent on these projects producing at their contracted levels, and historical experience indicates that projects usually experience some start-up issues and take time to reach full expected production

levels. Therefore, the Company submitted a motion to the Commission for approval of a request to reduce the 2017 Poultry Waste Set-Aside requirement to 170,000 MWh, maintaining the level of the 2014 - 2016 state-wide requirements and delaying the increase to 700,000 MWh until 2018.

Ramping up to meet the increased compliance targets for 2017 - 2019 has been problematic because suppliers have either delayed projects or lowered the volume of RECs to be produced. The Company is, nevertheless, encouraged by the growing use of thermal poultry RECs and the proposals that it has recently received from developers. In addition, the Company signed a contract to purchase poultry waste-derived directed biogas from a project in North Carolina that is scheduled to come online in 2018. The directed biogas will be transported via intrastate pipelines and used for fuel in the Company's Dan River or Buck combined cycle plants. The Company remains actively engaged in seeking additional resources and continues to make every reasonable effort to comply with the Poultry Waste Set-Aside requirements.

Additional details with respect to the Company's compliance efforts and REC purchase agreements are set forth in Exhibit A and the Company's semiannual progress reports, filed confidentially in Docket No. E-100 Sub113A.

D. GENERAL REQUIREMENT RESOURCES

Pursuant to NC Gen. Stat. § 62-133.8, DEC is required to comply with its Total Obligation in 2017 by submitting for retirement a total volume of RECs equivalent to 6% of prior-year retail sales in North Carolina; in 2018 and 2019, the requirement jumps to 10% of prior-year retail sales in North Carolina. Based on the Company's actual retail sales in 2016, the Total Requirement is 3,667,340 RECs in 2017. Based on forecasted retail sales, the Total Requirement is projected to be approximately 6,059,740 RECs in 2018, and 5,997,430 RECs in 2019. This requirement net of the Solar, Swine Waste, and Poultry Waste Set-Aside requirements, referred to as the General Requirement, is estimated to be 3,220,117 RECs in 2017, 5,486,157 RECs in 2018, and 5,390,303 in 2019. The various resource options available to the Company to meet the General Requirement are discussed below, as well as the Company's plan to meet the General Requirement with these resources.

1. Energy Efficiency

During the Planning Period, the Company plans to meet up to 25% of the Total Obligation with Energy Efficiency (EE) savings, which is the maximum allowable amount under NC Gen. Stat. § 62-133.7(b)(2)c. The Company continues to develop and offer its customers new and innovative EE programs that will deliver savings and count towards its future NC REPS requirements.

Pursuant to Commission Rule R8-67b(1)(iii), the Company has attached a list of those EE measures that it plans to use toward REPS compliance, including projected impacts and a description of the measure, as Exhibit B.

2. Hydroelectric Power

Duke Energy Carolinas plans to use hydroelectric power from three sources to meet a portion of the General Requirement in the Planning Period: (1) Duke-owned hydroelectric stations that are approved as renewable energy facilities; (2) Wholesale Customers' Southeastern Power Administration (SEPA) allocations; and (3) hydroelectric generation suppliers whose facilities have received Qualifying Facility (QF or QF Hydro) status. The Company has received Commission approval for ten of its hydroelectric stations as renewable energy facilities. The Company continues to use, as appropriate, the RECs generated by these facilities to meet the General Requirements of Duke Energy Carolinas' Wholesale Customers, pursuant to NC Gen. Stat. § 62-33.8(c)(2)d. Wholesale Customers may also bank and utilize hydroelectric resources arising from their full allocations of SEPA. When supplying compliance for the Wholesale Customers, the Company will ensure that hydroelectric resources do not comprise more than 30% of each Wholesale Customers' respective compliance portfolio, pursuant to NC Gen. Stat. § 62-133.8(c)(2)c. In 2012, the Company also received Commission approval for a new, incremental capacity addition at another of its hydro facilities, Bridgewater. The Company intends to apply RECs generated by this facility toward the General Requirements of Duke Energy Carolinas' retail customers. In addition, the Company is purchasing RECs from multiple QF Hydro facilities in the Carolinas and will use RECs from these facilities toward General Requirements of Duke Energy Carolinas' retail and wholesale customers. Please see Exhibit A for more information on these contracts.

3. Biomass Resources

Duke Energy Carolinas plans to meet a portion of the General Requirement through a variety of biomass resources, including landfill gas to energy, combined heat and power, and direct combustion of biomass fuels. The Company is purchasing RECs from multiple biomass facilities in the Carolinas, including landfill gas to energy facilities and biomass-fueled combined heat and power facilities, all of which qualify as renewable energy facilities. Please see Exhibit A for more information on each of these contracts.

Duke Energy Carolinas notes, however, that reliance on direct-combustion biomass remains limited in long-term planning horizons, in part due to continued uncertainties around the developable potential of such resources in the Carolinas and the projected availability of other forms of renewable resources to offset the need for biomass.

4. Wind

DEC considers wind a potential viable option to support increased diversity of the renewables portfolio and plans to meet a portion of the General Requirement with RECs from wind facilities.

Therefore, DEC issued a Request for Proposals (RFP) on August 15, 2017 for delivered energy, capacity and associated RECs produced by wind generators to identify viable wind projects ranging in size from 100 to 500 MW and capable of delivering energy on or before December 31, 2022. This RFP is in response to the Company's need to expand and diversify its renewable generation portfolio and satisfy its in-state General REC Requirement under REPS.

5. Use of Solar Resources for General Requirement

Duke Energy Carolinas plans to meet a portion of the General Requirement with RECs from solar facilities. Solar energy has emerged as a predominant renewable energy resource in the Southeast, and the Company views the downward trend in solar equipment and installation costs over the past several years as a positive development. New solar facilities also benefit from generous supportive Federal policies that will be in place beyond 2016. As such, the Company fully expects solar resources to contribute to our compliance efforts beyond the Solar Set-Aside minimum threshold for NC REPS during the Planning Period.

In October 2016, DEC issued two requests for proposals (RFPs) for additional renewable resources for General RECs to meet REPS compliance. DEC received great response to the DEC REPS General Requirements RFP that sought up to 750,000 MWhs of energy and associated RECs. DEC has notified all projects that were selected and anticipates these projects will be online and producing RECs for REPS compliance starting in the 2019 – 2020 timeframe. DEC received no bids in response to the REC-only RFP, which solicited proposals for RECs from projects operating under a DEC Power Purchase Agreement that would achieve commercial operation on or before December 31, 2016.

Additionally, HB 589 introduces a competitive procurement process for 2,660 MW of additional solar in the Carolinas, with proposals issued over a 45 month period. DEC may develop 30% of the competitive procurement volume and will evaluate the potential for acquiring facilities where appropriate. RECs from these projects will be evaluated for use for future compliance.

6. Review of Company's General Requirement Plan

The Company has contracted for, or has a plan to procure, sufficient resources to meet its General Requirement in the Planning Period. Based on the known information available at the time of this filing, the Company is confident that it will meet this General Requirement during the Planning Period and submits that the actions and plans described herein represent a reasonable and prudent plan for meeting the General Requirement.

E. SUMMARY OF RENEWABLE RESOURCES

The Company has evaluated, procured, and/or developed a variety of types of renewable energy and energy efficiency resources to meet its NC REPS requirements within the compliance Planning Period. As noted above, several risks and uncertainties exist across the various types of resources and the associated parameters of the NC REPS requirements. The Company continues to carefully monitor opportunities and unexpected developments across all facets of its compliance requirements. Duke Energy Carolinas submits that it has crafted a prudent, reasonable plan with a diversified balance of renewable resources that will allow the Company to comply with its NC REPS obligation over the Planning Period.

IV. COST IMPLICATIONS OF REPS COMPLIANCE PLAN

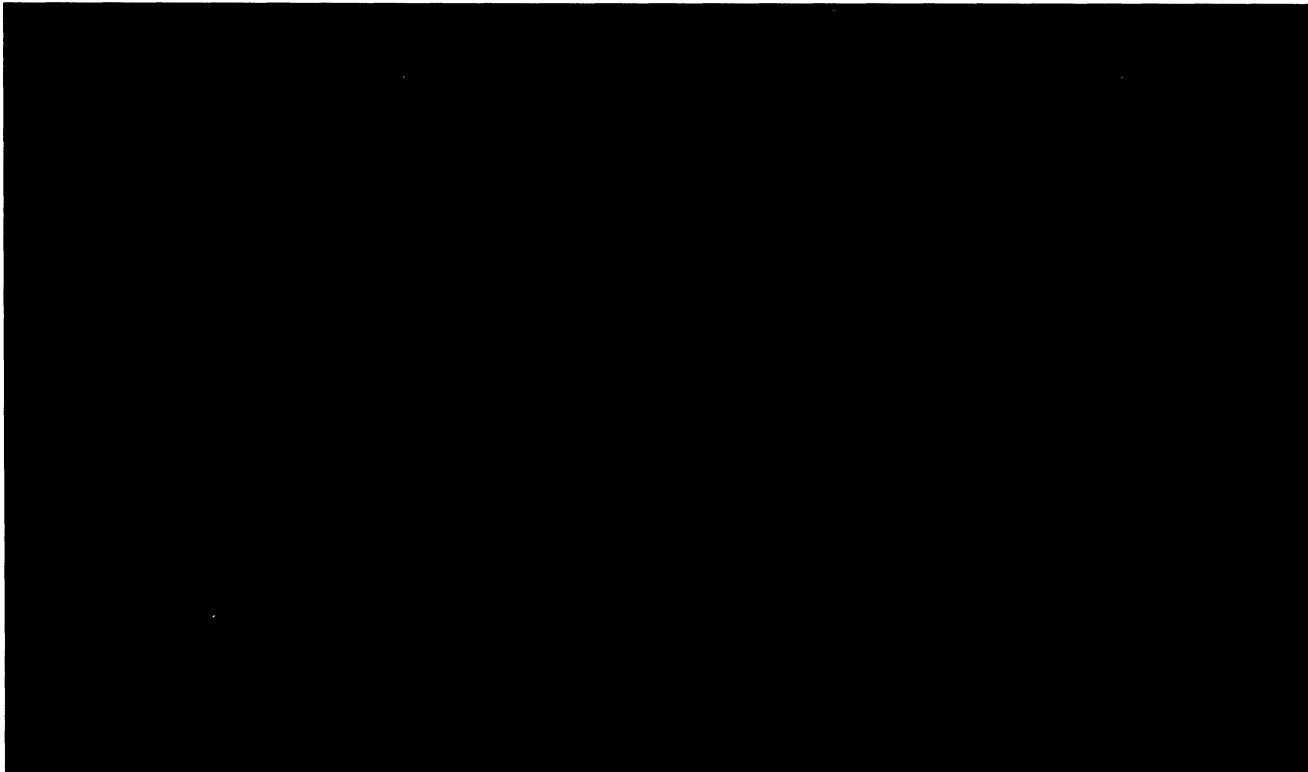
A. CURRENT AND PROJECTED AVOIDED COST RATES

The Current Avoided Energy and Capacity costs included in the table below represent key data elements used to determine the PP (NC) tariff rates filed for DEC in Docket No. E-100, Sub 148. The "Energy" columns reflect the cost of fuel and variable O&M per kwh embedded in the filed tariff energy rates. The "Capacity" column is based on the installed cost and capacity rating of a combustion turbine unit as reflected in the filed capacity rates.

The Projected Avoided Energy Costs included below reflect updated estimates of the same data elements provided with the current costs. The capacity cost shown is a placeholder based on the current avoided cost filing.

The avoided costs contained herein are subject to change, including (but not limited to) fuel price projections, variable O&M estimates, turbine costs and equipment capability..

Table 2: Current and Projected Avoided Cost Rates Table [BEGIN CONFIDENTIAL]



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**PROJECTED TOTAL NORTH CAROLINA RETAIL AND WHOLESALE SALES AND
YEAR-END NUMBER OF CUSTOMER ACCOUNTS BY CLASS**

Table 3: Retail Sales for Retail and Wholesale Customers

	2016 Actual	2017 Forecast	2018 Forecast	2019 Forecast (1)
Retail MWh Sales	57,542,362	56,984,744	57,381,989	57,654,126
Wholesale MWh Sales	3,579,968	3,612,656	3,647,337	2,619,572
Total MWh Sales	61,122,330	60,597,400	61,029,326	60,273,698

The MWh sales reported above are those applicable to REPS compliance years 2017-2020, and represent actual MWh sales for 2016, and projected MWh sales for 2017-2019.

(1) DEC's contractual obligation to serve as designated utility compliance aggregator for two of its seven wholesale customers for which it provides REPS compliance services ends effective December 31, 2018. Combined estimated retail sales for the City of Concord and the City of Kings Mountain total 1,062,827 MWhs for 2019, and are excluded from the 2019 amount shown above.

Table 4: Retail and Wholesale Year-end Number of Customer Accounts

	2016 (Actual)	2017 (Projected)	2018 (Projected)	2019 (Projected) (1)
Residential Accts	1,843,033	1,861,200	1,879,548	1,867,476
General Accts	258,596	260,811	260,924	258,311
Industrial Accts	5,130	5,060	5,061	4,925

The number of accounts reported above are those applicable to the cost caps for compliance years 2017 – 2020, and represent the actual number of accounts for year-end 2016, and the projected number of accounts for year-end 2017 – 2019.

(1) DEC's contractual obligation to serve as designated utility compliance aggregator for two of its seven wholesale customers for which it provides REPS compliance services ends effective December 31, 2018. Combined estimated 2019 year-end account totals for the City of Concord and the City of Kings Mountain are: Residential - 30,606, General - 4,734, and Industrial - 79. These amounts are excluded from the 2019 amounts shown above.

C. PROJECTED ANNUAL COST CAP COMPARISON OF TOTAL AND INCREMENTAL COSTS, REPS RIDER AND FUEL COST IMPACT

Projected compliance costs for the Planning Period are presented in the cost tables below by calendar year. The cost cap data is based on the number of accounts as reported above.

Table 5: Projected Annual Cost Caps and Fuel Related Cost Impact

	2017	2018	2019 (1)
Total projected REPS compliance costs	\$ 84,222,049	\$ 98,994,688	\$ 105,997,022
Recovered through the Fuel Rider	\$ 60,015,667	\$ 62,706,469	\$ 62,953,888
Total incremental costs (REPS Rider)	\$ 24,206,382	\$ 36,288,219	\$ 43,043,134
Total including Regulatory Fee	\$ 24,240,319	\$ 36,339,094	\$ 43,103,479
Projected Annual Cost Caps (REPS Rider)	\$ 93,681,291	\$ 94,434,135	\$ 93,349,347

(1) DEC's contractual obligation to serve as designated utility compliance aggregator for two of its seven wholesale customers for which it provides REPS compliance services ends effective December 31, 2018. Accordingly, the 2019 compliance activity totals shown above exclude amounts for the City of Concord and the City of Kings Mountain. The combined estimated cost cap for Concord and Kings Mountain for compliance year 2019 totals approximately \$1,598,000.

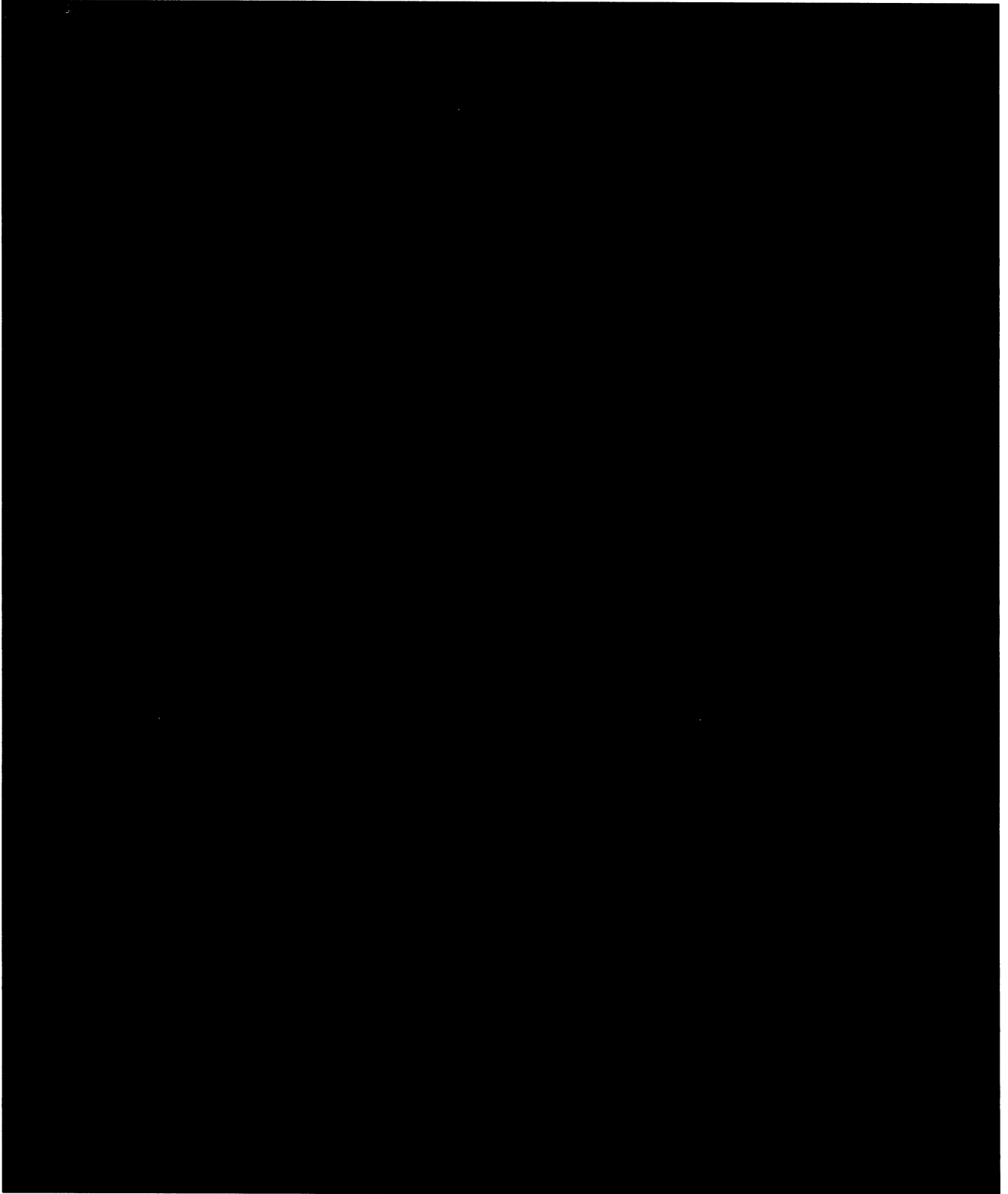
Note that the projected REPS compliance costs in Table 5 do not include any costs for the NC Rebate Program in HB 589.

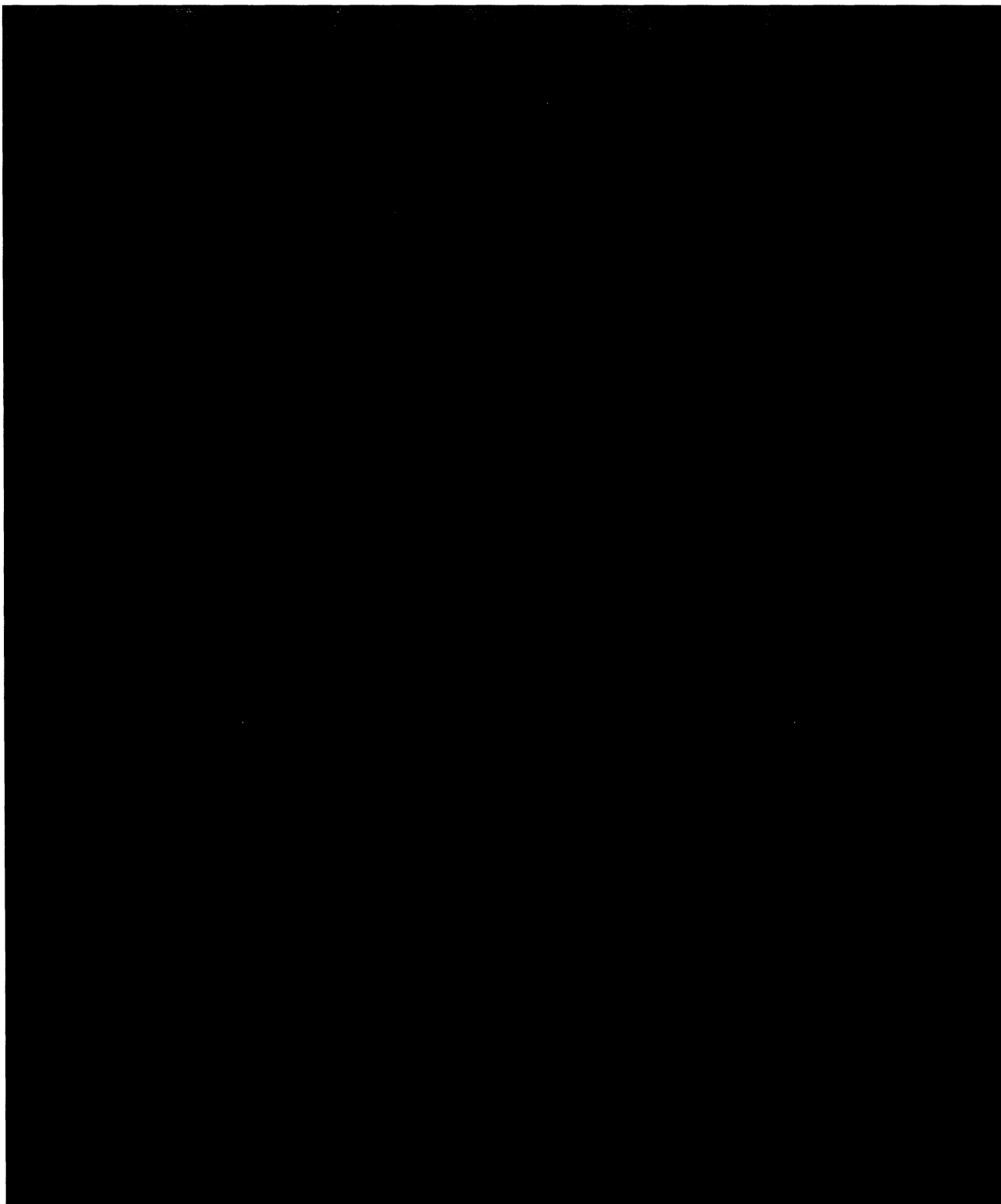
EXHIBIT A

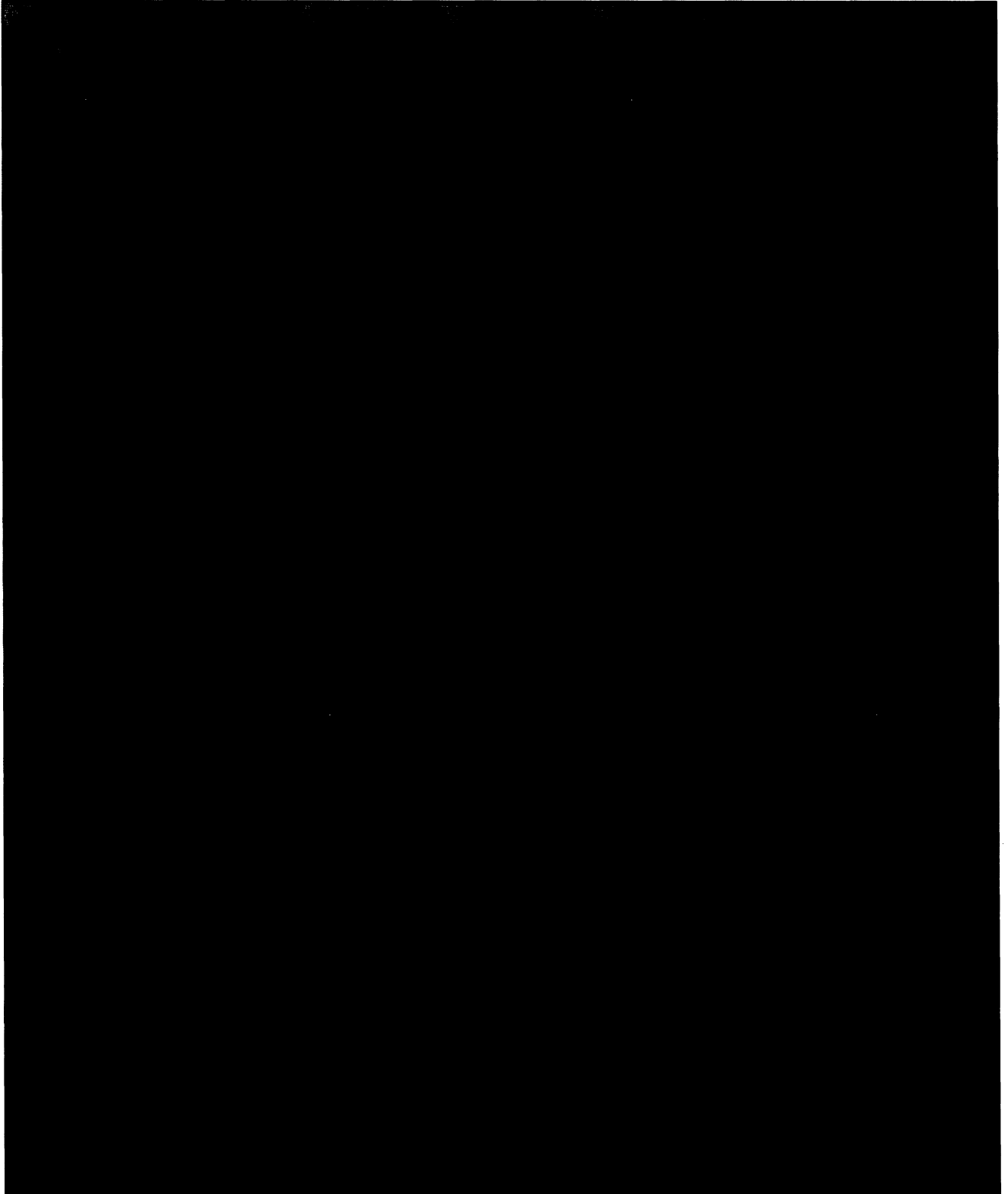
**Duke Energy Carolinas, LLC's 2017 REPS Compliance Plan
Duke Energy Carolinas' Renewable Resource Procurement from 3rd Parties
(signed contracts as of June 30, 2017)**

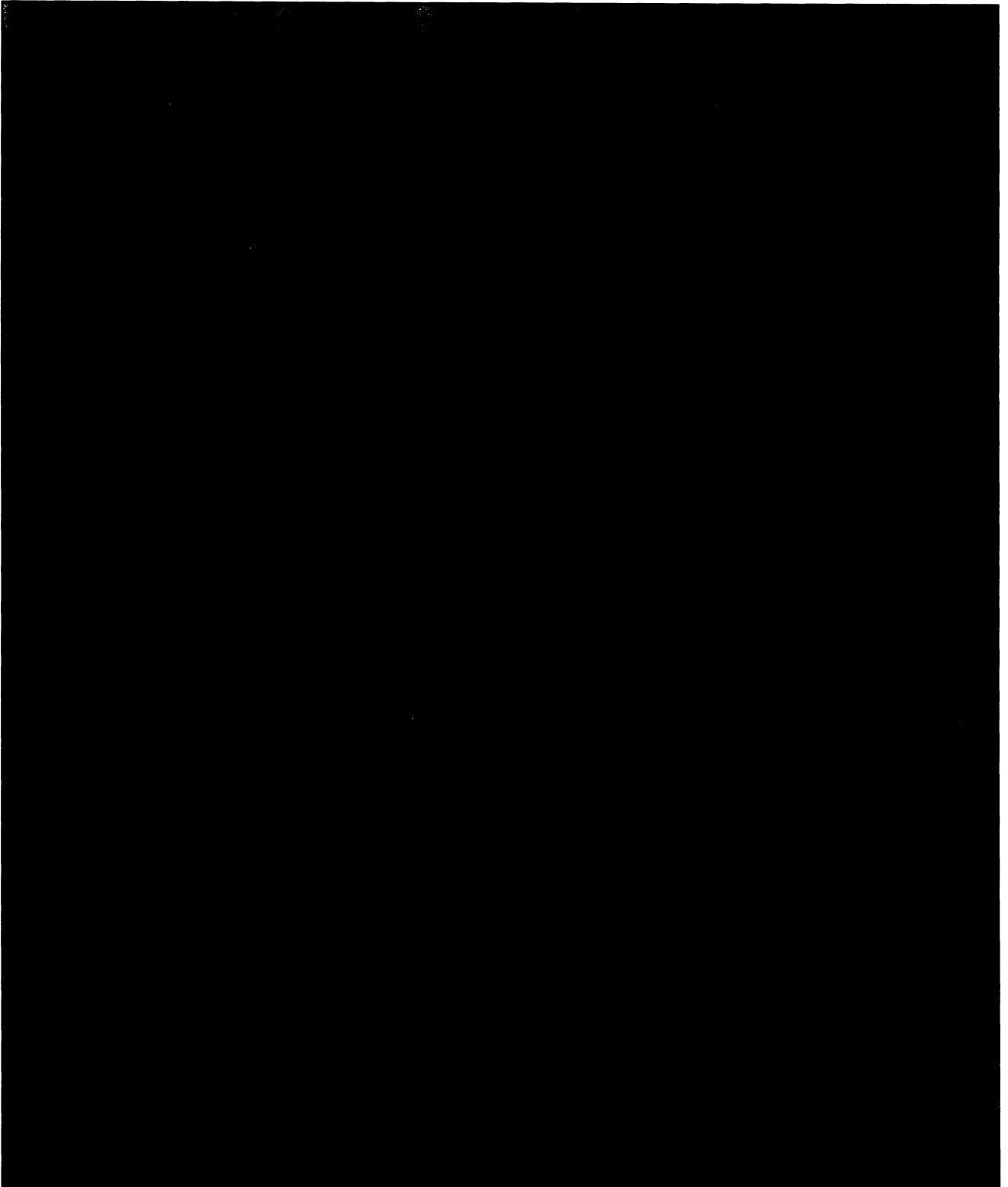
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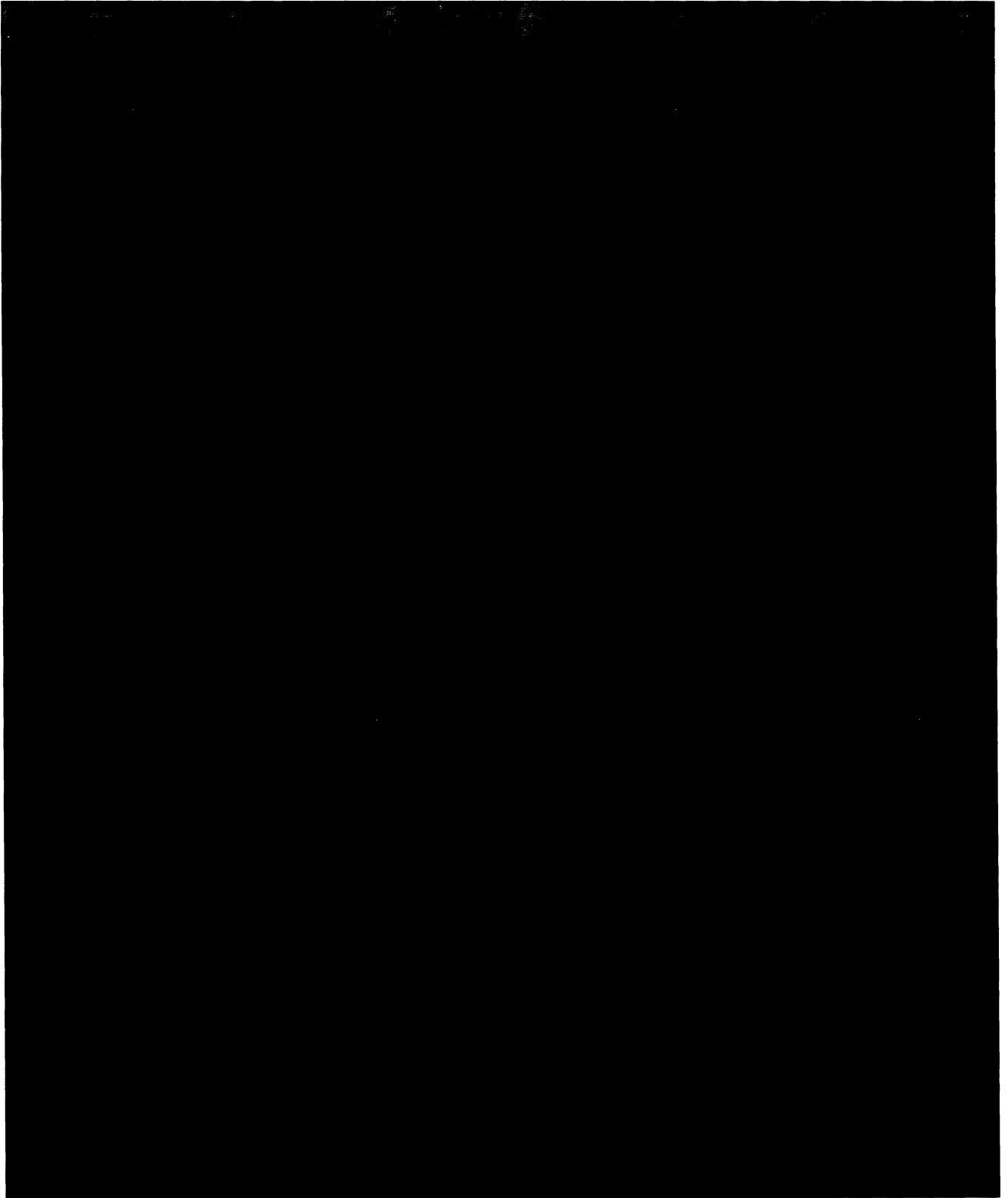


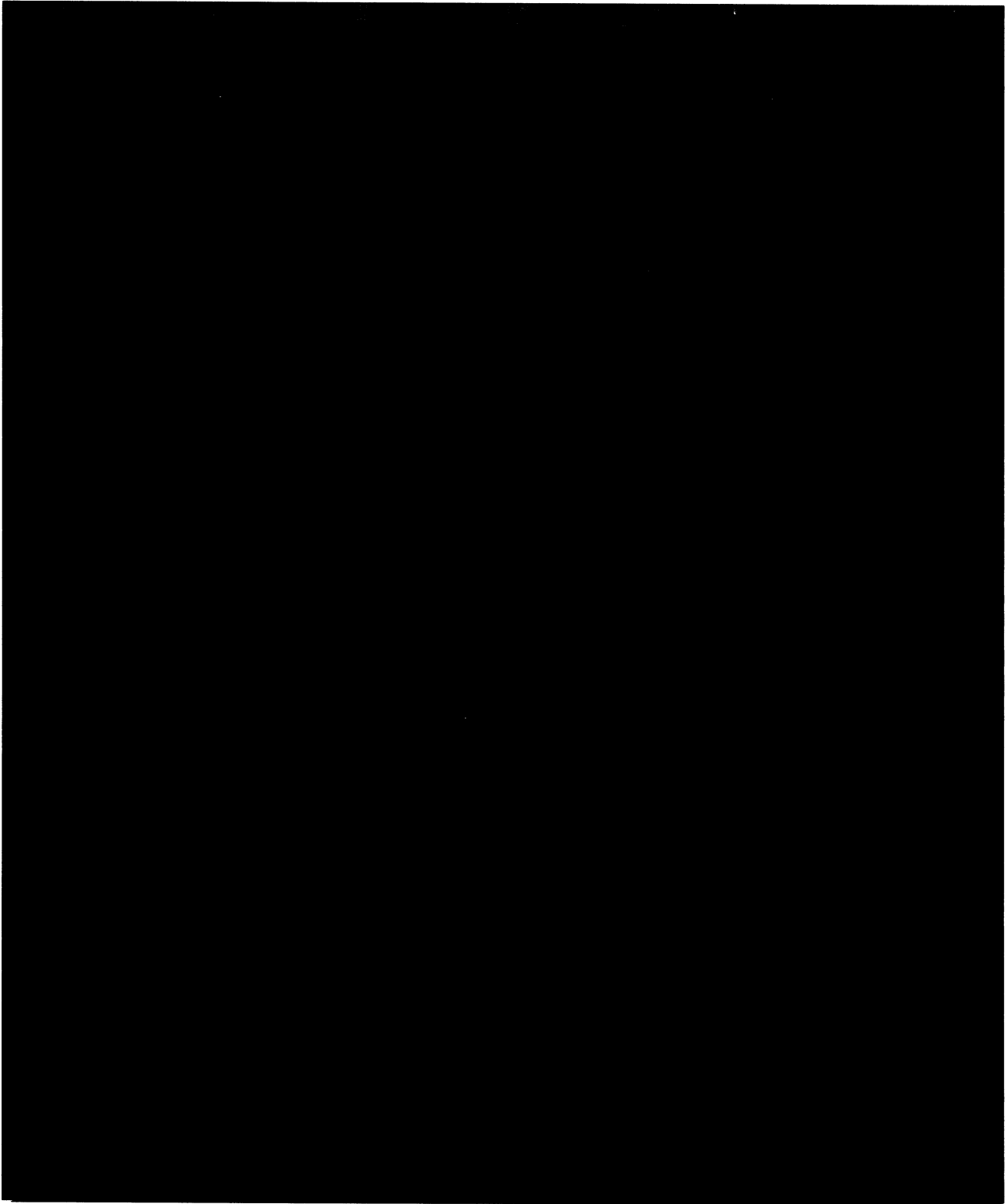


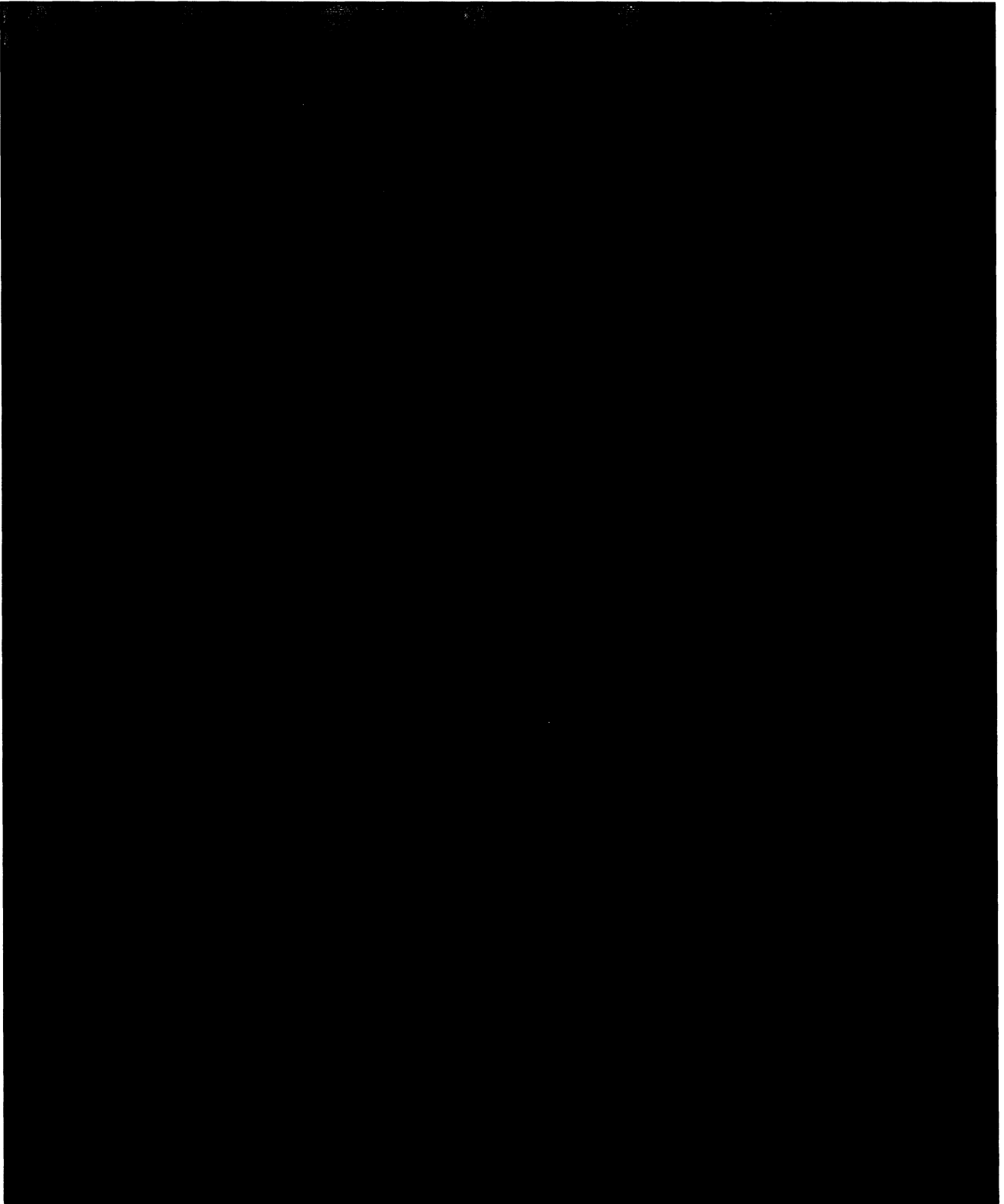














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EXHIBIT B

**Duke Energy Carolinas, LLC's 2017 REPS Compliance Plan
Duke Energy Carolinas, LLC's EE Programs and Projected REPS Impacts**

Forecast Annual Energy Efficiency Impacts for the REPS Compliance Planning Period 2017-2019 (MWhs)			
Residential Programs	2017	2018	2019
Energy Education Program for Schools	3,554,622	3,492,095	3,737,321
Energy Efficient Appliances and Devices	88,303,886	77,384,506	82,818,693
HVAC EE Products & Services	4,196,405	3,966,901	4,245,469
Income Qualified EE Products & Services	3,258,946	3,294,642	3,526,002
Multi-Family EE Products & Services	10,754,137	14,470,765	15,486,948
My Home Energy Report	(10,805,077)	2,849,091	1,557,323
Residential Energy Assessments	4,491,708	4,633,387	4,958,758
Sub Total	103,754,627	110,091,386	116,330,515
Non Residential Programs	2017	2018	2019
Non-Res Custom Assessments	13,900,624	12,196,086	12,350,808
Non-Res Custom Incentive	63,295,687	57,202,294	57,927,977
Non-Res Energy Star Food Service Products	572,184	641,143	649,277
EnergyWise for Business	1,605,778	1,843,114	1,866,497
Non-Res HVAC	3,430,135	3,241,291	3,282,411
Non-Res Information Technology	3,181,172	2,851,624	2,887,800
Non-Res Lighting	70,554,743	66,202,261	67,042,118
Non-Res Process Equipment	95,442	261,304	264,619
Non-Res Pumps and Motors	2,534,643	2,694,395	2,728,577
Small Business Energy Saver	52,839,179	46,757,635	47,350,814
Smart Energy in Offices	3,763,858	(456,432)	0
Sub Total	201,872,820	181,238,629	184,000,089
Total	305,627,447	291,330,015	300,330,604

DEC Energy Efficiency Programs

DEC uses the following EE programs in its IRP to efficiently and cost-effectively alter customer demands and reduce the long-run supply costs for energy and peak demand.

Residential Customer Programs

- Residential Energy Assessments Program
- Energy Efficiency Education Program
- Energy Efficient Appliances and Devices
- Heating, Ventilation and Air Conditioning (HVAC) Energy Efficiency Program
- Income-Qualified Energy Efficiency and Weatherization Program
- Multi-Family Energy Efficiency Program
- My Home Energy Report

Non-Residential Customer Programs

- Non-Residential Smart Saver® Energy Efficient Food Service Products Program
- Non-Residential Smart Saver® Energy Efficient HVAC Products Program
- Non-Residential Smart Saver® Energy Efficient IT Products Program
- Non-Residential Smart Saver® Energy Efficient Lighting Products Program
- Non-Residential Smart Saver® Energy Efficient Process Equipment Products Program
- Non-Residential Smart Saver® Energy Efficient Pumps and Drives Products Program
- Non-Residential Smart Saver® Custom Program
- Non-Residential Smart Saver® Custom Energy Assessments Program
- Small Business Energy Saver
- Smart Energy in Offices
- EnergyWiseSM for Business

Residential EE Programs

Residential Energy Assessments Program provides eligible customers with a free in-home energy assessment performed by a Building Performance Institute (BPI) certified energy specialist designed to help customers reduce energy usage and save money. The BPI certified energy specialist completes a 60 to 90 minute walk through assessment of a customer's home and analyzes energy usage to identify energy savings opportunities. The energy specialist discusses behavioral and equipment modifications that can save energy and money with the customer. The customer also receives a customized report that identifies actions the customer can take to increase their home's efficiency.

In addition to a customized report, customers receive an energy efficiency starter kit with a variety of measures that can be directly installed by the energy specialist. The kit includes measures such as energy efficiency lighting, low flow shower head, low flow faucet aerators, outlet/switch gaskets, weather stripping and an energy saving tips booklet.

Energy Efficiency Education Program is designed to educate students in grades K-12 about energy and the impact they can have by becoming more energy efficient and using energy more wisely. In conjunction with teachers and administrators, the Company will provide educational materials and curriculum for targeted schools and grades that meet grade-appropriate state education standards. The curriculum and engagement method may vary over time to adjust to market conditions, but currently utilizes theatre to deliver the program into the school. Enhancing the message with a live theatrical production truly captures the children's attention and reinforces the classroom and take-home assignments. Students learn about EE measures in the Energy Efficiency Starter Kit and then implement these energy saving measures in their homes. Students are sharing what they have learned with their parents and helping their entire households learn how to save more energy.

Energy Efficient Appliances and Devices Program (formerly part of Residential Smart Saver® program) provides incentives to residential customers for installing energy efficient appliances and devices to drive reductions in energy usage. The program includes the following measures:

- **Energy Efficient Pool Equipment:** This measure encourages the purchase and installation of energy efficient equipment and controls. Initially, the measure will focus on variable speed pumps, but the pool equipment offerings may evolve with the marketplace to include additional equipment options and control devices that reduce energy consumption and/or demand.
- **Energy Efficient Lighting:** This measure encourages the installation of energy efficient lighting products and controls. The product examples may include, but are not limited to the following: standard compact fluorescent light bulbs (CFLs), specialty CFLs, A lamp light emitting diodes (LEDs), specialty LEDs, CFL fixtures, LED fixtures, 2X incandescent, LED holiday lighting, motion sensors, photo cells, timers, dimmers and daylight sensors.
- **Energy Efficient Water Heating and Usage:** This measure encourages the adoption of heat pump water heaters, insulation, temperature cards and low flow devices.
- **Other Energy Efficiency Products and Services:** Other cost-effective measures may be added to in-home installations, purchases, enrollments and events. Examples of additional measures may include, without limitation, outlet gaskets, switch gaskets,

weather stripping, filter whistles, fireplace damper seals, caulking, smart strips and energy education tools/materials.

Heating, Ventilation, and Air Conditioning (HVAC) Energy Efficiency Program (formerly part of Residential Smart Saver® program) provides residential customers with opportunities to lower their home's electric use through maintenance and improvements to their central HVAC system(s) as well as the structure of their home's building envelope and duct system(s). This program reaches Duke Energy Carolinas customers during the decision-making process for measures included in the program. The prescriptive and a-la-carte design of the program allows customers to implement individual, high priority measures in their homes without having to commit to multiple measures and higher price tags. A referral channel provides free, trusted referrals to customers seeking reliable, qualified contractors for their energy saving home improvement needs. The measures eligible for incentives through the program are:

- Central Air Conditioner
- Heat Pump
- Attic Insulation and Air Sealing
- Duct Sealing
- Duct Insulation
- Central Air Conditioner Tune Up
- Heat Pump Tune Up
- HVAC Quality Installation
- Smart Thermostat

Income-Qualified Energy Efficiency and Weatherization Program consists of three distinct components designed to provide EE to different segments of its low income customers:

- Neighborhood Energy Saver (NES) is available only to individually-metered residences served by Duke Energy Carolinas in neighborhoods selected by the Company, which are considered low-income based on third party and census data, which includes income level and household size. Neighborhoods targeted for participation in this program will typically have approximately 50% or more of the households with income below 200% of the poverty level established by the U.S. Government. This approach allows the Company to reach a larger audience of low income customers than traditional government agency flow-through methods. The program provides customers with the direct installation of measures into the home to increase the EE and comfort level of the home. Additionally, customers receive EE education to encourage behavioral changes for managing energy usage and costs.

- The Company recognizes the existence of customers whose EE needs surpass the standard low cost measure offerings provided through NES. In order to accommodate customers needing this more substantial assistance, the Company will also offer the following two programs that are deployed in conjunction with the existing government-funded North Carolina Weatherization Assistance Program when feasible. Collaborating with these programs will result in a reduction of overhead and administration costs.
- The Refrigerator Replacement Program (RRP) includes, but is not limited to, replacement of inefficient operable refrigerators in low income households. The program will be available to homeowners, renters, and landlords with income qualified tenants that own a qualified appliance. Income eligibility for RRP will mirror the income eligibility standards for the North Carolina Weatherization Assistance Program.

Multi-Family Energy Efficiency Program provides energy efficient technologies to be installed in multi-family dwellings, which include, but are not limited to, the following:

- Energy Efficient Lighting
- Energy Efficient Water Heating Measures
- Other cost-effective measures may be added to in-home installations, purchases, enrollments and events. Examples of additional measures may include, without limitation, outlet gaskets, switch gaskets, weather stripping, filter whistles, fireplace damper seals, caulking, smart strips and energy education tools/materials.

My Home Energy Report Program provides residential customers with a comparative usage report up to twelve times a year that engages and motivates customers by comparing energy use to similar residences in the same geographical area based upon the age, size and heating source of the home. The report also empowers customers to become more efficient by providing them with specific energy saving recommendations to improve the efficiency of their homes. The actionable energy savings tips, as well as measure-specific coupons, rebates or other Company program offers that may be included in a customer's report are based on that specific customer's energy profile.

An interactive online portal was introduced in 2016, allowing customers to further engage and learn more about their energy use and opportunities to reduce usage. Electronic versions of the My Home Energy Report are sent to customers enrolled on the portal.

Non-Residential EE Programs

Non-Residential Smart Saver® Energy Efficient Food Service Products Program provides prescriptive incentive payments to non-residential customers to encourage and partially offset the

cost of the installation of new high efficiency food service equipment in new and existing non-residential establishments and repairs to maintain or enhance efficiency levels in currently installed equipment. Measures include, but are not limited to, commercial refrigerators and freezers, steam cookers, pre-rinse sprayers, vending machine controllers, and anti-sweat heater controls.

Non-Residential Smart Saver® Energy Efficient HVAC Products Program provides prescriptive incentive payments to non-residential customers to encourage and partially offset the cost of the installation of new high efficient HVAC equipment in new and existing non-residential establishments and efficiency-directed repairs to maintain or enhance efficiency levels in currently installed equipment. Measures include, but are not limited to, chillers, unitary and rooftop air conditioners, programmable thermostats, and guest room energy management systems.

Non-Residential Smart Saver® Energy Efficient Information Technologies (IT) Products Program provides prescriptive incentive payments to non-residential customers to encourage and partially offset the cost of the installation of high efficiency new IT equipment in new and existing non-residential establishments and efficiency-directed repairs to maintain or enhance efficiency levels in currently-installed equipment. Measures include, but are not limited to, Energy Star-rated desktop computers and servers, PC power management from network, server virtualization, variable frequency drives (VFD) for computer room air conditioners and VFD for chilled water pumps.

Non-Residential Smart Saver® Energy Efficient Lighting Products Program provides prescriptive incentive payments to non-residential customers to encourage and partially offset the cost of the installation of new high efficiency lighting equipment in new and existing non-residential establishments and the efficiency-directed repairs to maintain or enhance efficiency levels in currently installed equipment. Measures include, but are not limited to, interior and exterior LED lamps and fixtures, reduced wattage and high performance T8 systems, T8 and T5 high bay fixtures, and occupancy sensors.

Non-Residential Smart Saver® Energy Efficient Process Equipment Products Program provides prescriptive incentive payments to non-residential customers to encourage and partially offset the cost of the installation of new high efficiency equipment in new and existing non-residential establishments and efficiency-directed repairs to maintain or enhance high efficiency levels in currently installed equipment. Measures include, but are not limited to, VFD air compressors, barrel wraps, and pellet dryer insulation.

Non-Residential Smart Saver® Energy Efficient Pumps and Drives Products Program provides prescriptive incentive payments to non-residential customers to encourage and partially offset the cost of the installation of new high efficiency equipment in new and existing non-residential establishments and efficiency-directed repairs to maintain or enhance efficiency levels in currently installed equipment. Measures include, but are not limited to, pumps and VFD on HVAC pumps and fans.

Non-Residential Smart Saver® Custom Program provides custom incentive payments to non-residential customers to encourage and partially offset the cost of the installation of new high efficiency equipment in new and existing non-residential establishments. This program allows for eligible customers to apply for and the Company to provide custom incentives in the amount up to 75% of the installed cost difference between standard equipment and new higher efficiency equipment or efficiency-directed repair activities in order to cover measures and efficiency-driven activities that are not offered in the various Non-Residential Smart Saver prescriptive programs.

Non-Residential Smart Saver® Custom Energy Assessments Program provides customers who may be unaware of EE opportunities at their facilities with a custom incentive payment in the amount up to 50% of the costs of a qualifying energy assessment. The purpose of this component of the program is to overcome financial barriers by off-setting a customer's upfront costs to identify and evaluate EE projects that will lead to the installation of energy efficient measures. The scope of an energy assessment may include but is not limited to a facility energy audit, a new construction/renovation energy performance simulation, a system energy study and retro-commissioning service. After the energy assessment is complete, program participants may receive an additional custom incentive payment in the amount of up to 75% of the installed cost difference between standard equipment and higher efficiency equipment or efficiency-directed repair activities.

Small Business Energy Saver Program is designed to reduce energy usage by improving energy efficiency through the offer and installation of eligible energy efficiency measures. Program measures address major end-uses in lighting, refrigeration, and HVAC applications. The Program is available to existing non-residential establishments served on a Duke Energy Carolinas general service or industrial rate schedule from the Duke Energy Carolinas' retail distribution system that are not opted-out of the EE portion of Rider EE. Program participants must have an average annual demand of 100 kW or less per active account. Participants may be owner-occupied or tenant facilities with owner permission.

Smart Energy in Offices Program is designed to increase the energy efficiency of targeted customers by engaging building occupants, tenants, property managers and facility teams with information, education, and data to drive behavior change and reduce energy consumption. This Program leverages communities to target owners and managers of potential participating accounts by providing participants with detailed information on the account/building's energy usage, support to launch energy saving campaigns, information to make comparisons between their building's energy performance and others within their community and actionable recommendations to improve their energy performance. The Program is available to existing non-residential accounts located in eligible commercial buildings served on a Duke Energy Carolinas' general service rate schedule from the Duke Energy Carolinas' retail distribution system that are not opted out of the EE portion of the Rider EE.

EnergyWiseSM for Business is both an energy efficiency and demand response program for non-residential customers that allows DEC to reduce the operation of participants air conditioning units to mitigate system capacity constraints and improve reliability of the power grid.

Program participants can choose between a Wi-Fi thermostat or load control switch that will be professionally installed for free on each air conditioning or heat pump unit. In addition to equipment choice, participants can also select the cycling level they prefer (i.e., a 30%, 50% or 75% reduction of the normal on/off cycle of the unit). During a conservation period, DEC will send a signal to the thermostat or switch to reduce the on time of the unit by the cycling percentage selected by the participant. Participating customers will receive a \$50 annual bill credit for each unit at the 30% cycling level, \$85 for 50% cycling, or \$135 for 75% cycling. Participants that have a heat pump unit with electric resistance emergency/back up heat and choose the thermostat can also participate in a winter option that allows control of the emergency/back up heat at 100% cycling for an additional \$25 annual bill credit. Participants are allowed to override two conservation periods per year.

Participants choosing the thermostat are given access to a portal that allows them to set schedules, adjust the temperature set points, and receive energy conservation tips and communications from DEC. In addition to the portal access, participants also receive conservation period notifications, so they can make adjustments to their schedules or notify their employees of the upcoming conservation periods.