

Addendum B
to the Final Environmental Assessment
for the

**POWER SUPPLY UPGRADE – ALGOOD 161-KV
TRANSMISSION LINE**
Putnam County, Tennessee

Listing of Comments Received
on the
Draft Environmental Assessment

TENNESSEE VALLEY AUTHORITY

MAY 2008

Page intentionally blank

Wendy Askins
Upper Cumberland Development District
Cookeville, Tennessee
Comment:

UPPER CUMBERLAND DEVELOPMENT DISTRICT



1225 South Willow Avenue
Cookeville, TN 38506
Phone: (931) 432-4111
Fax: (931) 432-6010

Chairman:
Stephen Bilbrey
Vice Chairman:
John B. Mullinix
Secretary:
Kenneth Copeland
Treasurer:
Billy Robbins
Executive Director:
Wendy Askins

December 10, 2007

Mr. James F. Williamson, Jr.
Tennessee Valley Authority
400 West Summit Hill Drive WT 11D
Knoxville TN 37901

RE: Algood Power Supply Upgrade - Algood 161-KV Transmission Line

Dear Mr. Williamson,

Upon receiving your Draft Environmental Assessment package dated December 10, 2007 I have allowed my Environmental Department to review the contents of this package and the following is the findings of our department:

After careful review of this proposed project regarding the Power Supply Upgrade –Transmission Line project and having found no conflicts with any needs, plans, or priorities of our agency at this time it is the findings of this department to give this project full endorsement. It is of great concern of the Upper Cumberland Development District for continued Power Supply Upgrades in the state of Tennessee.

I fully endorse this project and encourage its approval.

If you need additional information, please do not hesitate to contact me.

Sincerely


Wendy Askins
Executive Director


Larry Webb
Deputy Director

LW/rh

Michael Atchison

Tennessee Department of Economic and Community Development
Nashville, Tennessee

Comment:

“I prefer alternative 2, the action alternative. Thanks.”

Lee A. Barclay
U. S. Fish and Wildlife Service
Cookeville, Tennessee



United States Department of the Interior

FISH AND WILDLIFE SERVICE
446 Neal Street
Cookeville, TN 38501

1/3/08

December 27, 2007

Ms. Peggy Shute
Tennessee Valley Authority
400 West Summit Hill Drive
Knoxville, Tennessee 37902-1499

Subject: Draft Environmental Assessment (EA), Power Supply Upgrade – Algood 161-KV Transmission Line, Putnam County, Tennessee.

Dear Ms. Shute:

Fish and Wildlife Service biologists have reviewed the subject Draft EA and supporting bat survey reports, which you provided with a letter dated November 20, 2007. A preferred transmission line route was delineated in the Draft EA, and you requested concurrence with the Tennessee Valley Authority (TVA) finding that the project is not likely to adversely affect threatened or endangered species. The Indiana bat (*Myotis sodalis*) and gray bat (*Myotis grisescens*) were specifically named in this finding. Please consider the following comments during further development of the project plans.

We believe that TVA has conducted an adequate evaluation of the potential for impacts to threatened and endangered species, including the Indiana bat and gray bat. Further, it appears that the measures proposed for protection of bat habitat during installation and maintenance of the transmission line adequately address the needs of these species. Therefore, we concur with your finding of "not likely to adversely affect" for the Indiana bat and gray bat.

As you indicated in your letter regarding the Draft EA, forested habitat in the project area could provide summer habitat for the Indiana bat. The Romme model was used to evaluate potential Indiana bat habitat, and the majority of the overall habitat was rated as low quality for the project area. However, the Romme model is not particularly appropriate for evaluating middle Tennessee habitats, and an analysis of separate habitat variables would likely demonstrate a higher value of some areas as potential feeding sites and roosting habitats for the Indiana bat within the project area. The steep, forested slopes of Buck Mountain also provide habitat for bats and other wildlife that are somewhat unique relative to the habitats exhibited by the potential alignment routes considered for this project that were not designated as preferred. It appears that large portions of the routes associated with Tap 1, Tap 2, and Tap 3 would traverse habitats that are much more disturbed than the preferred route. Because of the degree of habitat conversion

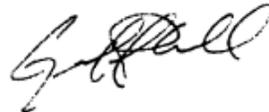
Barclay – page 2

that would occur as a result of installing the transmission line along the preferred route, we believe that a route located west of the preferred one (for example, the Highway 111 corridor) would be less environmentally damaging.

In conclusion, we believe the Draft EA adequately addresses threatened and endangered species concerns. However, we request that the TVA carefully reconsider alternatives to the route identified as the preferred transmission line route.

Thank you for the opportunity to review the Draft Environmental Assessment. Please contact David Pelren of my staff at 931/528-6481 (ext. 204) if you have questions about these comments.

Sincerely,



FER Lee A. Barclay, Ph.D.
Field Supervisor

LeBron and Keeble Bell

Cookeville, Tennessee

Comment:

“ We are very concerned about the proposed TVA transmission line in Putnam County. Is there really a need for this transmission line? We are also very worried about the environmental impact this will have on our community.

Sincerely,
LeBron and Keeble Bell”

Janice Blaylock

Cookeville, Tennessee

Comment:

“My father owns a large piece of the land that the proposed transmission line will cross. The need for this line has not been demonstrated and a full NEPA study is needed. My father is elderly and has a pace maker. He has suffered great stress over this proposed line on the property that he has farmed for over 53 years. Please do what you can to prevent this.

Janice Blaylock”

William P. Bonner

Cookeville, Tennessee

Comment:

“I write in reference to your environmental assessment for the proposed power line to serve Algood, TN.

I have read your assessment and what can I say. You indicate that all federal and State regulations will be followed. I could not ask more. I agree with you regarding some environmentally sensitive areas and the desire to preserve them and limit environmental damage to all areas. I regret that some areas that are not regarded as environmentally sensitive will be disturbed.

My primary concern is the effect the line will have on property owners along the way. Surely there should be a more desirable route but that is not in your area of responsibility.

As stated earlier, what can I say. The path has been chosen based upon a number of considerations and apparently the line will be constructed. Please use all deliberate efforts to minimize damage.

William P. Bonner”

Harold Boswell

Monterey, Tennessee

Comment:

“I disagree with this project for several reasons. The primary reason being that there has been inadequate justification shown as to the need for this

project, and it has the appearance that it will not now be necessary. Plans for a 400 unit apartment in Algood that was shown as a reason have been discontinued and with the current economic conditions, specifically in the housing market, it is highly unlikely that there will be any large increase for demand in power for residential or industrial uses. UCEMC will actually lose 1200 customers in one area annexed by Cookeville. The three industries that were shown as additional reasons were based on outdated information. The Chamber of Commerce in Putnam County has said that they have no knowledge of any new industries locating in Algood. Landowners whose land is to be taken via eminent domain laws have not been given proper access to the information providing justification for this line. TVA's position that there they have no authority to release UCEMC's data supporting the need is not a reasonable position. In the proceedings by TVA to condemn the land I was given 20 days to raise any objections before the land was taken. This motion was filed July 6, 2007. I was then sent a letter on the 13 of July signed by a federal judge giving TVA possession. This was only 8 days. There appears to be a rush to push this project thru with only a limited environmental analysis. Reading the draft EA makes it clear that a full National Environmental Impact Analysis needs to be completed.

Harold Boswell”

Janice Boswell

Monterey, Tennessee

Comment:

“I am opposed to the building of this Project based on the lack of coherent data justifying a need. During a meeting at Buck Mountain on Jan. 8, 2007, the landowners discussed the fact that the four future power demand sources were based on information that is not current or is inaccurate. The TVA representative at the meeting responded by saying the real reason for this line was to take load off of the West Cookeville substation. In that discussion, it was also unclear if the South Cookeville Substation fed from the West Cookeville substation or just from the same source as the West Cookeville substation. The South Cookeville substation would supply some of the power to the area which is being annexed by the city of Cookeville thus taking load from the Algood substation. This all needs to be cleared up before a final decision is made. It does appear that the public has been misinformed as to the real reasons behind the need for this power line. With all the confusion about the line really being needed, and UCEMC's refusal to release all pertinent information by , I feel that my land is being taken away without documented justification presented to me.

I also protest the timing and the rush of the draft EA. In that document, many of the protected plants and animals were not observed because it was not the season for them to be discovered. A complete National Environmental Impact Analysis should be required and would be more valid if done in the correct season.

Janice Boswell”

J. Mark Cantrell
Alliance for Native American Indian Rights
Franklin, Tennessee
Comment:

Alliance for Native American Indian Rights of Tennessee

January 14, 2008

Tennessee Valley Authority (TVA)

To Whom It May Concern,

SUBJECT: BUCK MOUNTAIN

The Alliance for Native American Indian Rights of Tennessee is a 20 year old, grass-roots, not-for-profit organization that is dedicated to preserving and protecting Native American burial, sacred and culturally significant sites.

Upon learning of the TVA's plans to run a transmission line across Buck Mountain, we felt it imperative to formally write to you our objections. Buck Mountain certainly falls within our area of interest and must be preserved. A transmission line across this area will impact significant archeological sites that will scientifically prove the existence of early Native American habitation in the Cumberland Plateau area. In addition, this project has the potential to endanger rare wildlife and destroy underground streams that supply water to larger water sources in and around the Cookeville and Algood areas.

We urge you to rethink the placement of this transmission line and respectfully request that you take time to perform additional research. To destroy such a historically significant area would be a catastrophic loss of Tennessee history, not to mention the further destruction of habitat to endangered species and natural resources. Overall, in a day when we as a society have tried to better ourselves through education, we should carefully weigh our options when making such a broad impact on our surroundings.

Sincerely,

J. Mark Cantrell, Vice President
Alliance for Native American Indian Rights of Tennessee

adc
cc: Buck Mountain Community Organization

Gary Davis, Esq.

Attorney for the Buck Mountain Community Organization

Hot Springs, North Carolina

Comment:

GARY A. DAVIS & ASSOCIATES

ATTORNEYS AT LAW

61 NORTH ANDREWS AVENUE

HOT SPRINGS, NORTH CAROLINA 28743

GARY A. DAVIS
LICENSED IN NC, TN, CA (INACTIVE)
GADAVIS@ENVIROATTORNEY.COM

MAILING ADDRESS:
P.O. Box 649
HOT SPRINGS, NC 28743

REBECCA C. KAMAN
LICENSED IN TN
BKAMAN@ENVIROATTORNEY.COM

TELEPHONE: 828-622-0044
FACSIMILE: 828-622-7610

January 15, 2008

Jim Williamson, Senior NEPA Specialist
400 W. Summit Hill Dr. (WT 11D)
Knoxville, TN 37916-1499

VIA HAND DELIVERY

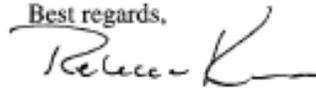
RE: Comments on the Draft Environmental Assessment for the Power Supply Upgrade –
Algood 161-KV Transmission Line, Putnam County, Tennessee

Dear Mr. Williamson:

Please find enclosed comments submitted on behalf of the Buck Mountain Community Organization on the Draft Environmental Assessment for the Power Supply Upgrade – Algood 161-KV Transmission Line in Putnam County, Tennessee.

Please contact me if you have any questions. I may be contacted at (828)622-0044 or (865) 850-3452.

Best regards,



Rebecca C. Kaman

cc: Paul Isbell
Berry Stein

BEFORE THE TENNESSEE VALLEY AUTHORITY

RE: DRAFT ENVIRONMENTAL ASSESSMENT)
POWER SUPPLY UPGRADE – ALGOOD 161-KV)
TRANSMISSION LINE, PUTNAM COUNTY, TN)

COMMENTS OF BUCK MOUNTAIN COMMUNITY ORGANIZATION

I. INTRODUCTION

These comments on the Draft Environmental Assessment (“EA” or “DEA”) for the proposed Transmission Line are submitted on behalf of the Buck Mountain Community Organization (“BMCO”), an organization of residents from Putnam County, Tennessee, who would be directly impacted by the construction of the proposed transmission line, both as property owners along the path of the transmission line and as members and customers of Upper Cumberland Electric Membership Corporation (“UCEMC”). BMCO opposes the construction of the proposed transmission line discussed in the DEA, because the transmission line and new Algood substation are not needed, because there are alternatives to the transmission line and substation, and because the line would destroy over 32 acres of forest, much of which is on Buck Mountain on or near the property of members of BMCO.

Under the National Environmental Policy Act (“NEPA”) and Council on Environmental Quality (“CEQ”) Guidelines, an EA is prepared to identify if a project will have any significant impact on the environment, thereby triggering the preparation of an Environmental Impact Statement (“EIS”). These comments are supplemental to those that have been submitted on behalf of BMCO to date and to those submitted by individual members of BMCO. Due to the short time in which to comment on such a large and complex project and unavailability of background documents upon which TVA relied that are being withheld by TVA, these comments are not the complete comments of BMCO on the DEA. Additional comments will be submitted as soon as TVA furnishes additional background documents that have been requested pursuant to the Freedom of Information Act.

For the reasons set out in these comments, BMCO strongly urges TVA to go back to the drawing board on this project and on the DEA. There is no need for the proposed transmission line, and TVA has not fully considered all aspects or consequences of the project. Further, if TVA decides to proceed, an EIS should be prepared and circulated for agency and public comment, as required by NEPA, because this project would clearly have significant impacts on the environment.

II. DATA AND INFORMATION RELIED UPON BY TVA DO NOT SUPPORT THE NEED FOR THE PROJECT.

Council on Environmental Quality Guidelines at 40 C.F.R. § 1508.9(b) require an environmental assessment to include a discussion of the need for the proposal and of alternatives as required by the NEPA, 42 U.S.C. § 102(2)(E). The claimed need for the project, as discussed

in the Draft EA, has three components:

- (a) TVA's West Cookeville 161-kV substation transformer bank is projected to be above its calculated capability by summer 2008.
- (b) UCEMC's Algood 69-kV substation is projected to be above its firm capability by summer 2008.
- (c) TVA's West Cookeville-East Cookeville-Algood 69-kV transmission line will exceed its capability by summer 2008.

In response to a Freedom of Information Act request TVA provided Buck Mountain Community Organization with two documents that supposedly support these three components: "One Ownership Study: Upper Cumberland EMC Algood Substation, PowerTech Engineering, LLC (July 2006)" and "Project Justification Data Algood, Tennessee 161 kV Substation, Upper Cumberland Electric Membership Corporation (UCEMC) Provide 161 kV Delivery Point (W0693)" (attached). Although the authorship of the second document was not provided, it appears to have come from TVA staff. Neither of these documents supports a need for the proposed new transmission line.

Both documents rely on projected new loads for the Algood substation of approximately 7.8 MW to justify the three components of the need. These new load projections were described in general in the documents, but their specific descriptions were redacted from the documents provided to Buck Mountain Community Organization.¹ The Draft EA refers to them as "planned increases in commercial and residential development," and further describes them as "[a]nticipated commercial and residential growth includes a 400-unit apartment complex, two housing developments (36 homes), a school, a bank, a drug store, and three industries." It has since been determined, and TVA has admitted, that there is no basis for these projected new loads. See Comments on TVA Draft EA For Algood Transmission Line (2007-12), Submitted by Dr. Barry Stein, attached.

BMCO has attached comments from Peter J. Lanzalotta, Lanzalotta & Associates LLC, an expert on transmission line and electric system planning, who questions the need for the proposed transmission line and substation to satisfy either of the three stated needs for the project. In addition to the comments of Mr. Lanzalotta, it is unclear where the forecast increases in load for the two substations (called "ESF Forecast" in Figure 3 and "Forecast" in Figure 4 of the Project Justification Data document) come from without the 7.8 MW projected additions, but the forecasts are belied by the actual trends which show a decrease in load between 2005 and 2006 for both substations. Buck Mountain requested recent load data for the UCEMC Algood substation, but these data were withheld by TVA (see letter attached). Similarly, in Figure 5, the actual load data for the existing West Cookeville – East Cookeville transmission line were well below capacity in 2005 and 2006, but the forecast for 2007 shows a marked (11%) jump even without the projected load additions. No data have been provided to justify these forecast loads.

TVA correctly points out that three Cookeville substations, in addition to the Algood substation, receive electricity through the TVA West Cookeville substation. According to TVA

¹ In addition, four pages of the second document were withheld. Buck Mountain Community Organization appealed the FOIA violation to TVA management, but the appeal was denied. See attached requests and appeal documents.

the Algood substation is only about 30% of the load on the West Cookeville substation. Actual demand data for the three Cookeville stations fed through West Cookeville show that demand is generally flat or decreasing except for the abnormally hot months in 2007 (see data attached). With 70% of the load, Cookeville has more reason to be concerned about the potential for exceeding the capacity of West Cookeville, but it is not supporting the proposed new transmission line. Instead, as discussed below, Cookeville has proposed redirecting some of the load through its underused South Cookeville substation, which receives electricity directly from TVA's 161 kV line and not through West Cookeville.

III. THE STATED PURPOSE AND NEED FOR THE PROJECT DO NOT CONSIDER OTHER ALTERNATIVES FOR REDUCING LOADS ON TVA'S WEST COOKEVILLE 161-KV SUBSTATION, THE EXISTING ALGOOD SUBSTATION, AND THE EXISTING TRANSMISSION LINE.

NEPA requires agencies to "study, develop, and describe appropriate alternatives to recommended courses of action in any proposal which involves unresolved conflicts concerning alternative uses of available resources." 42 U.S.C. § 4332(2)(E). NEPA regulations require that "Federal agencies shall, to the fullest extent possible: [u]se the NEPA process to identify and assess the reasonable alternatives to proposed actions that will avoid or minimize adverse effects of these actions upon the quality of the human environment." 40 C.F.R. § 1500.2(e). The purpose of this analysis is to "provid[e] a clear basis for choice among options by the decisionmaker and the public." 40 C.F.R. § 1502.14; see also 42 U.S.C. § 4332(2)(E); 40 C.F.R. §§ 1507.2(d), 1508.9(b).

The Draft EA does not comply with these NEPA requirements, because it does not address several reasonable alternatives that will accomplish the project purposes without building any new transmission line with its attendant adverse environmental impacts. According to the Draft EA, the only alternative to TVA building a new transmission line is for UCEMC to build the same transmission line. The Draft EA dismisses out of hand any no-build alternative, including both conservation and distributed generation as a means of reducing the projected loads that are cited as the basis for the proposed project.

Assuming for the purpose of these comments that there may be a need for shifting loads from the West Cookeville substation and the existing transmission line and Algood substation, it is obvious that there are other alternatives for meeting each of these components of claimed need. These are discussed in detail in Mr. Lanzalotta's comments and include singly or in combination:

- (a) Cookeville Electric's proposal to TVA to shift approximately 16 MVA of load to the underutilized South Cookeville substation that receives electricity directly from TVA's 161 kV transmission line, not through West Cookeville or East Cookeville. (See attached letter from Tony Peake to TVA.)
- (b) Reliance upon the existing Algood substation with the loads reduced as a result of Cookeville's annexation.

- (c) Use of an existing and unutilized 8 MW diesel generator currently located at Tennessee Technological University and connected to the West Cookeville substation to reduce peak loads on the West Cookeville substation.
- (d) The UCEMC reintegration plan approved by the U.S. District Court for the Middle District of Tennessee in UCEMC's challenge to Cookeville's annexation of 9 areas served by UCEMC, which includes a new substation built under TVA's 161 kV line northwest of Cookeville and feeding a loop around Cookeville, including the Algood substation, using existing poles and rights of way.

There is no apparent reason why these alternatives cannot be implemented as quickly as the proposed 5.2 mile long transmission line and new Algood substation. Each of these alternatives are likely to be cheaper than the proposed project.

As mentioned by Mr. Lanzalotta, the evaluation of purpose and need in the DEA failed to consider the annexation of UCEMC customers by the City of Cookeville and the court-approved UCEMC reintegration plan, both of which contradict the need for the proposed new Algood substation and transmission line. Cookeville has annexed 16 areas served by UCEMC since 2003, including 9 areas that have been the subject of a federal court challenge by UCEMC. The U.S. District Court for the Middle District of Tennessee and the U.S. Court of Appeals for the Sixth Circuit upheld the authority of Cookeville to annex the 9 areas, which include areas served by the Algood substation, and approved a reintegration plan submitted by UCEMC to reconfigure its system once Cookeville begins serving the annexed areas (decisions attached). TVA did not even consider the annexations and the reintegration plan in its discussion of need for the project.

According to UCEMC's reintegration plan, entitled "Report and Analysis of City of Cookeville Annexation on the Upper Cumberland EMC Electric System," the 9 annexations prior to 2003 involved 5,631.4 acres and approximately 1,170 UCEMC customers. Although Cookeville could have chosen to allow UCEMC to continue serving these customers in the annexed areas, it instead opted to condemn the UCEMC transmission lines and other facilities and provide electric service itself. Cookeville has estimated that approximately 500 customers in these 9 annexed areas are currently served by the UCEMC Algood substation. These customers would no longer be served by the Algood substation. The reintegration plan and its exhibits are attached.

In addition, Cookeville annexed an 86-acre area in March 2003 that was not part of the 9 challenged areas and an additional 6 areas in October 2007 (letters and maps attached). Furthermore, as pointed out in the UCEMC reintegration plan, Cookeville has an approved Urban Growth Boundary that would permit the city to annex additional areas now served by UCEMC. Some of these areas would contain UCEMC customers currently served by the Algood substation who would be shifted to Cookeville facilities, further reducing demand on the Algood substation. The Cookeville Urban Growth Boundary is shown on Exhibits A-C of the reintegration report and as part of the attached Affidavit of Joseph A. Peake.

The planned new facilities included in the UCEMC reintegration plan approved by the federal courts further contradict the need for a new Algood substation and TVA transmission line

as proposed in the Draft EA. First, the reintegration plan would accomplish one of the stated needs in the Draft EA by removing UCEMC loads from the TVA West Cookeville substation. But instead of building a new Algood substation and a new 161 kV transmission line to serve that substation, the plan would build a new UCEMC substation on the opposite side of Cookeville on Benton Young Road directly under and fed by TVA's existing 161/69 kV transmission line. The plan would also build a new UCEMC loop around Cookeville connecting this new substation to the existing Algood substation using existing poles and rights of way. This new substation and loop would provide additional reinforcement to the Algood substation and obviate any need for a new transmission line from the West Cookeville substation to the Algood substation.

IV. ALTERNATIVE ROUTES FOR THE PROPOSED TRANSMISSION LINE SHOULD HAVE BEEN EVALUATED WITH A TRANSPARENT METHODOLOGY IN THE DRAFT EA.

Assuming for purposes of these comments that a new transmission line may be needed, TVA should have evaluated the alternative routes for the proposed line with a transparent scientific methodology in the Draft EA. Instead, TVA eliminated all routes except for Alternate 1 from consideration before assessment of alternatives in the Draft EA. These alternative routes were established and eliminated using a subjective methodology which included a mixture of engineering, environmental, land use, and cultural criteria. Although the considerations for each type of criteria were explained in the Draft EA, there was no basis provided for how any of the routes were established, why others were not considered, how specific indicators for the four types of criteria were chosen, for how scores were assigned to each of the routes for these indicators, how these scores were summed to generate an overall score for each route, and how the different criteria were weighted in comparing routes (e.g., how environmental criteria were balanced with engineering criteria). When asked to supply any further information about the matrix of siting criteria used, TVA referred BMCO to the "Fact Sheet" on its website for the project. The Fact Sheet is attached to these comments.

There was little basis provided for how the alternative routes were established. It is particularly troubling that all of the alternative routes except the preferred alternative were fairly similar and were routed through Booger Swamp which contains protected wetlands. Neither the right of way for the existing transmission line to the Algood substation nor the straightest and widest highway right of way (Highway 111) was evaluated in the matrix or the Draft EA. In a letter to Ms. Ada Haynes TVA stated its basis for eliminating a Highway 111 route as a desirable option, but did not state that it was not a feasible route.

The "Fact Sheet" provided by TVA as the basis for its selection of the preferred route does not adequately explain or document the use of a methodology for selecting the preferred route. For each of the types of criteria "opportunities and constraints" were selected, but the Fact Sheet does not explain how these particular indicators of opportunities and constraints used in Table 1 were selected from among the universe of indicators that could be applied to transmission line siting. Further, the ranking of routes was performed before any field review had been performed, and some of the conclusions used to rank Alternative 1 as preferred compared to the others have been contradicted by the field data. Table 1 clearly skews indicators in this case by having 3 different environmental constraints that would be applied to any route through

Booger Swamp, where the existing transmission line is already located (wetland acres, special protected areas, and natural areas), as compared with only one environmental constraint that would apply to most of the route over Buck Mountain (forest acres). It also skews indicators by having 4 different indicators of land use constraints for proximity to houses, ensuring that any route through a more populated area would show the most land use constraints.

Somehow, after Table 1 was filled out without field data, TVA narrowed the alternative routes to 6 routes and ranked them using Table 2. There was no description of the methodology for eliminating the other 11 routes at this point and no description of how the relative ranking was performed. Did TVA simply add the numbers in each type of criteria (engineering, environmental, land use, and cultural) and choose the lowest numbers for each? This would be worse than adding apples and oranges: at least they are both fruit. The magnitude of impact represented by each of the numbers is not comparable and additive. Then somehow after achieving rankings by criteria for each route, TVA selected Alternative 1 as preferred. Was this done by adding the relative ranking numbers? If so, this would be profound mathematical error, because these numbers are on an ordinal scale, not an interval scale. For an ordinal scale all that can be said is that a “2” is higher than a “1”, not that “2” is twice as high as “1” or that the interval between “1” and “2” is the same as the interval between “2” and “3”.

TVA has implicitly expressed environmental preferences without scientific justification in its use of this ranking system. For instance, TVA clearly prefers routes that avoid wetlands as compared to routes that avoid destroying forest. It is likely that the route through wetlands, however, would have less overall acreage impacts on wetlands vegetation than the route through forests would have on forest vegetation, because in wetlands the only permanent clearing that would need to be done is for the power poles themselves, because wetlands vegetation in this area does not achieve heights that would threaten the transmission lines. On the other hand, the whole swath of forest would be permanently destroyed. TVA has also implicitly expressed preferences regarding land use constraints, selecting as preferred the route that crosses the fewest parcels of land. The preferred route crosses only 2 fewer parcels than the Alternatives 11 and 12, making the distinction meaningless.

The Draft EA states that “[c]valuation the alternative routes for the number of road crossings and existing transmission lines affected resulted in no major constraints along any of the alternative routes.” If all of the routes were feasible from an engineering standpoint, then they all should have been evaluated in the Draft EA for their relative environmental impacts.

V. IMPACTS TO THREATENED AND ENDANGERED SPECIES WERE NOT ADEQUATELY CONSIDERED.

TVA’s DEA states in Section 3.3.1 states that “no federally listed species [of terrestrial animals] were found.” Note, however, that TVA’s sampling of the area took place during August and September 2007. Several of the species known to exist in that area are not easily found in the fall. The fact that TVA’s sampling did not locate certain species will not prevent those species from being impacted by the proposed transmission line. The limited timeframe of TVA’s sampling methods should be considered faulty at best due to their limited scope.

There are threatened and endangered species that exist in the route corridor selected by TVA which were not mentioned in the DEA, including, but not limited to:

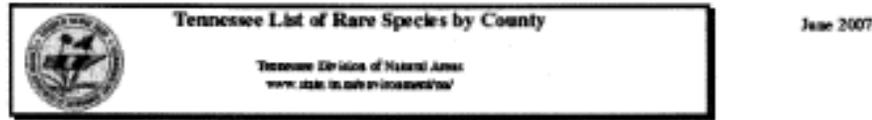
- Carolina northern flying squirrel (*Glaucomys sabrinus coloratus*; listed Endangered federally and in Tennessee); and
- Northern Pine Snake (*Pituophis melanoleucus melanoleucus*; listed Threatened in Tennessee)

Some species are of special concern as the decline in their numbers is related to loss of habitat that has resulted from the intrusion of humans to their territories. One such species is the Cerulean Warbler (*Dendroica cerulean*; see the attached letter from Dr. Stephen Stedman; listed “Deemed in Need of Management” in Tennessee; under consideration to be listed as a Threatened species).

The DEA states “[n]o designated critical plant habitat is located within the area of the proposed actions.” However, as TVA’s survey period took place during the late summer to early fall of 2007, many species that may exist within the planned corridor were not visible at the time of the survey. Many of the species listed above are known to be visible or present during the spring and early summer months. For instance, the Least Trillium (*Trillium pusillum*; listed Endangered in Tennessee) blooms for a short time in May and is nearly impossible to locate at any other time. Consequently, TVA’s survey was wholly inadequate as it could not quantify the species which frequent the area of the proposed transmission line because the survey was not conducted at the appropriate time of the year.

TVA’s methods of cave assessment were deficient. TVA missed at least one cave on the property of Paul Isbell, a significant habitat likely to attract bats, and the assessment of the caves they did investigate was deficient. TVA should have done a complete cave study for each cave site to determine the biological, historical, and/or archeological significance of each cave. Merely looking inside to count the number of bats, as TVA apparently did, is an insufficient cave study. Further, TVA’s selection of its sample points was arbitrary. The DEA does not explain how TVA chose the twenty sample points it chose, of which, TVA determined nineteen to be low quality habitat. As such, the points selected were arbitrary and should have been chosen with the goal of finding the bats and other animals. In mist netting for bats outside of the caves, it would have been logical for TVA to have extended its bat survey area for one to two miles on either side of the planned route as bats’s erratic flight patterns are not likely to remain within the planned route corridor.

The following page contains a list of the flora and fauna that exist in or near the proposed transmission line route. Several of these are endangered or threatened. As the transmission line route goes through a number of different habitats, it is likely that these species exist on or near the proposed route. Consequently, these species will be affected by the construction of the transmission line, the disruption and/or destruction of their habitats. All of the following species are known to exist in the area:



Putnam

Vascular Plant		Federal Status	State Status	Global Rank	State Rank
<i>Ageratina lacini-bracteata</i>	Lucy Street's White Snakeroot		T	G3	S3
<i>Botrychium jensoni</i>	Alabama Graptoph		T	G3G4	S1
<i>Carex chapmani</i>	Chapman's Sedge		T	G3	S1
<i>Dianthus smitii</i>	Small's Stonecrop		E	G4	S1S2
<i>Draba ramosissima</i>	Beeching Whitlow-grass		S	G4	S2
<i>Eleocharis equisetoides</i>	Horse-tail Spike-rush		E	G4	S1
<i>Elymus montani</i>	Sweeney's Wild-eye		E	G3	S2
<i>Eriogonum longifolium</i> var. <i>harperi</i>	Harper's Umbrella-plant		E	G4T2	S1
<i>Erysimum capitatum</i>	Western Wallflower		E	G5	S1S2
<i>Hydrastis canadensis</i>	Goldenseal		S-CE	G4	S3
<i>Juncus cinereus</i>	Butternut		T	G4	S3
<i>Lilium canadense</i>	Canada Lily		T	G5	S3
<i>Lonicera dioica</i>	Mountain Honeysuckle		S	G5	S2
<i>Muhlenbergia cuspidata</i>	Plains Mubly		E	G4	S1
<i>Potamogeton amplifolius</i>	Large-leaf Pondweed		T	G5	S1
<i>Rhynchospora perplexa</i>	Oblique Beak-rush		T	G5	S2
<i>Spiraea alba</i>	Narrow-leaved Meadowsweet		E	G5	S1
<i>Thuja occidentalis</i>	Northern White Cedar		S	G5	S3
<i>Trillium pauciflorum</i>	Least Trillium		E	G3	S2
Invertebrate Animal		Federal Status	State Status	Global Rank	State Rank
<i>Atractodes pannosus</i>	A Cave Obligate Beetle			G1	S1S2
<i>Cambarus crispipes</i>	Bowditch's Crayfish			G3	S3
<i>Cambarus obryensis</i>	Ober Crayfish		T	G2	S2
<i>Cyprogenia teretica</i>	Eastern Fanshell Pearly Mussel	LE, XN	E	G3Q1	S1
<i>Dreissena ducanum</i>	Decedary Pearlymussel	LE, XN, FXN	E	G1	S1
<i>Epiblatina brevidens</i>	Cambridgian Combshell	LE, XN, FXN	E	G1	S1
<i>Epiblatina capreaformis</i>	Oyster Mussel	LE, XN, FXN	E	G1	S1
<i>Kryptocentron stygium</i>	A Cave Obligate Pseudoscorpion			G1	S1S2
<i>Lampyris abrupta</i>	Pink Mucket	LE	E	G2	S2
<i>Orconectes australis</i>	A Crayfish			G5	S3
<i>Orconectes incomptus</i>	Tennessee Cave Crayfish		E	G1	S1
<i>Pisarcyba clava</i>	Clubshell	LE, XN	E	G2	S3
<i>Villosa trabalis</i>	Cambridgian Bean	LE, XN, FXN	E	G1	S1
Vertebrate Animal		Federal Status	State Status	Global Rank	State Rank
<i>Aimophila cristata</i>	Bachman's Sparrow		E	G3	S2
<i>Aneides anax</i>	Green Salamander			G3G4	S3S4
<i>Corynorhinus rafinesquii</i>	Rarest Big-eared Bat		D	G3G4	S3
<i>Dendroica cerulea</i>	Cerulean Warbler		D	G4	S3B
<i>Ethnotoma albiventer</i>	Sooty Darter (=dirty Darter)		D	G3	S3
<i>Hemidactylus scutatum</i>	Four-toed Salamander		D	G5	S3
<i>Inobrychus exilis</i>	Least Hittite		D	G5	S2B
<i>Myotis grisescens</i>	Gray Bat	LE	E	G3	S2
<i>Neotoma magister</i>	Eastern Woodrat		D	G3G4	S3
<i>Nothopis rufescens</i>	Baldock Shiner		D	G2	S2
<i>Ptychocheilus melanoleucus melanoleucus</i>	Northern Pine Snake		T	G4T4	S3
<i>Sorex cinereus</i>	Common Shrew		D	G5	S4
<i>Sorex fumeus</i>	Smokey Shrew		D	G5	S4
<i>Sorex longirostris</i>	Southeastern Shrew		D	G5	S4
<i>Typhlichthys subterraneus</i>	Southern Cavefish		D	G4	S3
<i>Zapus hudsonius</i>	Meadow Jumping Mouse		D	G5	S4

LE = Listed Endangered; LT = Listed Threatened; E = Endangered; T = Threatened; D= "Deemed in Need of Management." Table is an excerpt of the Tennessee Natural Heritage Program, Rare Animals List published in June 2007 by the Tennessee Department of Environment and Conservation, Division of Natural Heritage.

VI. GROUNDWATER, GEOLOGY, AND CONTAMINATION ISSUES HAVE NOT BEEN ADEQUATELY ASSESSED.

TVA is proposing to place this transmission line through an area that is riddled with Karst features, including sinkholes and caves. TVA has stated that without knowing the location of access roads that it will avoid Karst features in the construction of the proposed transmission line, there remains the issue of groundwater contamination and, thereby, contamination of well water. This area supplies ground water to the Falling Water river basin and the residences in the Poplar Grove Community and Rockwell Holler below Buck Mountain.

Not only will the Karst features of the area assist with the spread of contamination to drinking water supplies, contamination is almost certain during construction of the transmission line and during herbicide application to maintain the ROW. As TVA has itself noted in Section 3.5, "Karst systems are readily susceptible to contamination as the waters can travel long distances through conduits with no chance for natural filtering processes of soil or bacterial action to diminish the contamination."

There is no evidence that TVA did any sort of well survey, neither in assessing the number of wells in the area nor the quality of the water coming out of them. A large number of residents of the area rely solely on wells for their drinking water. Because of the Karst features of the land, the multiple streams, and geography, it is likely that any contamination (e.g. herbicides or other toxins used by TVA on the vegetation on the route) to the transmission line route would contaminate the entire area.

VII. EROSION ISSUES HAVE NOT BEEN ADEQUATELY ADDRESSED.

It is the nature of geography of the area on around Buck Mountain that erosion is inevitable if there is a construction project. TVA's Fact Sheet shows that 11.2% of the route has a slope of greater than 20%. If this proposed transmission line were to be built, not only would residents have to contend with contamination from herbicides sprayed by TVA, they would have to deal with sedimentation issues as the transmission line is built. Sediment would clog streams and threatened endangered species living in those streams. The sediment will also end up in wetlands and the watershed at the base of Buck Mountain, changing hydrology and damaging the watershed.

At this time, TVA has not seen fit to inform the public through its DEA of the location of the access roads which will be used for the construction of the planned transmission line. The construction of these roads in steep terrain and the heavy equipment that will utilize these dirt roads in order to carry the appropriate equipment will result in erosion despite protective measures.

VIII. HEALTH IMPACTS HAVE NOT BEEN ADEQUATELY ADDRESSED.

TVA has stated that it will be spraying herbicides along the transmission line. However, as the easement for the transmission line will cut directly through private property, TVA must take into account the health of the residents. Many individuals have asthma, allergies, and severe adverse reactions to the introduction of toxins to their environment. Ada Haynes is one such person. Her physician has made clear in a letter (see attached letter from Dr. Donald Grisham) that introduction of the spray TVA plans to use will be a direct threat to her health if sprayed less than one mile from her home. Ms. Haynes is not the only individual in the area with these problems. TVA must take the health of the persons in the path of the transmission line before arbitrarily introducing toxins to their properties.

IX. TVA ARBITRARILY DOWNPLAYS THE SEVERE IMPACT THE PROPOSED TRANSMISSION LINE WILL HAVE ON FORESTS.

TVA states in Section 4.1.2 of the DEA that the destruction of 32.8 acres is insignificant in comparison to the duration of the “regional land use changes expected to occur in the foreseeable future. This comparison is useless as TVA should be considering the Cumulative Impact that all of these events will have together. Ceq Guidelines 40 C.F.R. § 1508.7 state:

“Cumulative impact” is the impact on the environment which results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency (Federal or non-Federal) or person undertakes such other actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time.

Other fall-out from the destruction of 32 acres of hardwood trees include significant erosion and the destruction of critical habitat. The mature hardwoods are located on the side of Bush Mountain. Removing the natural protection of the mountain will leave it bare to the elements and erosion will likely be immediate whether it is accomplished through wind or rain. Trees such as the shagbark hickory (*Carya ovata*) provide homes for bats and other creatures. If a significant number of these trees are removed, the habitat for some threatened and endangered creatures will be immediately diminished.

Section 4.1.2 jumps to an erroneous conclusion with the statement that “[a]doption of the Action Alternative would not significantly affect the vegetation of the region. Adoption of this alternative would require clearing of about 32.8 acres of forest including over 10 acres of minimally disturbed oak-hickory and mesic forest located between the substation and Parragon Road.” By comparing 32.8 acres of destruction to the acres of forest in a multi-county area, TVA has turned an environmental impact assessment on its ear. TVA’s survey of the area took place during August and September 2007, there is no comprehensive assessment of the state of the vegetation of the area. And without an adequate assessment of the current baseline, TVA would not be able to state how much impact the vegetation of the region would suffer. There is no way to determine, for instance, if the Least Trillium is located within the proposed transmission line corridor, or if it is located safely outside of the corridor. Further, there has

been no assessment of the affect the addition of herbicides and other toxins will have on the vegetation of the region.

Further, Section 4.1.2 discusses “change in the composition of wildlife habitats” from forest to early successional habitats and the resulting change in the “overall species composition of the area.” As the components of an ecosystem are interdependent, it is a logical conclusion, therefore, that the vegetation of the region would certainly be impacted as the proposed transmission line would increase the amount of successional habitat and decrease the forest habitat.

X. ARCHEOLOGICAL AND HISTORICAL RESOURCES HAVE NOT BEEN ADDRESSED IN THE DEA.

Multiple Indian archeological sites were uncovered during the construction of Interstate 40 and are currently on or near the path of the proposed transmission line. The existence of a burial cave and a burial mound indicate that there was an Indian settlement in this area at one time. Further, “there is an old Indian trail leading to habitation areas in the vicinity of Fall Water River.” (See attached letter from Randal Williams). In addition to the Indian artifacts, Mr. Williams discusses an old Horse and Carriage Route which is currently being considered for registration on the National Historic Register.

With such an overwhelming amount of archeological and historic heritage, TVA must follow the requirements of Section 106 of the National Historic Preservation Act, which requires that TVA identify and evaluate historic properties, assess the proposed transmission line’s effects on the properties, and make a plan to resolve the adverse effects. TVA should also take into consideration measures to avoid, and measures to minimize or mitigate adverse effects.

While TVA has acknowledged “documentation of artifacts recovered in around the proposed transmission line and expert letters about the presence of extensive Native American habitation in this area from prehistoric times (8000 B.C. to 3000 B.C)” in the DEA, it does not take steps to follow Section 106. TVA makes the presumption in Section 4.9.2, without adequate investigation that the sites “would not be affected by the proposed undertaking.”

XI. RECREATION

Hidden Hollow is a recreation area that exists at the base of Buck Mountain. The lake and any other water body at the base of Buck Mountain will be contaminated in the same manner as the local water supply will be contaminated if TVA sprays herbicides or other toxins on the proposed transmission line corridor. The lake is fed from springs on Buck Mountain and from Booger Swamp.

XII. PROCEDURAL ISSUES

BMCO has attempted to obtain and review background documents that were relied upon in the preparation of the DEA pursuant to the Tennessee Public Records Act and FOIA. BMCO has made requests to both UCEMC and TVA, but neither agency has been forthcoming. (see attached letters to UCEMC and TVA, and the responses thereto). It is exceedingly difficult to

comment on a project when the documents showing the basis for the decision are kept hidden from public review.

This project has been the subject of much controversy, as evidenced by the formation of the Buck Mountain Community Organization, the opinions expressed by other persons in the newspaper (see attached articles from the Herald-Citizen), and the number of comments submitted to TVA in response to the DEA. As the issue remains controversial, NEPA requires that an Environmental Impact Statement be completed before this project may be allowed to progress.

XIII. CONCLUSION

TVA should abandon this project as the need for the transmission line simply doesn't exist. Further, should TVA persist in pursuing the construction of this transmission line, then NEPA mandates that an Environmental Impact Statement be completed. As evidenced above, the construction of this transmission line poses a significant impact. Destruction of 32.8 acres of mature forest is perhaps the greatest of all the impacts, but the impacts on the water, wetlands, flora and fauna of the area cannot be discounted.

DATED: January 15, 2008

SUBMITTED BY:

Gary A. Davis, Esq.
Rebecca C. Kaman, Esq.
Gary A. Davis & Associates
61 North Andrews Avenue
P.O. Box 649
Hot Springs, NC 28743
Tel.: (828) 622-0044
Fax: (828) 622-7610

ONE OWNERSHIP STUDY

UPPER CUMBERLAND EMC

South Carthage, TN

ALGOOD SUBSTATION

July 2006

Prepared by

PowerTech Engineering, LLC

Tucker, GA 30084

770-209-9119

**ONE OWNERSHIP STUDY
DELIVERY POINT JUSTIFICATION FOR
ALGOOD 161-13 KV SUBSTATION FOR
UPPER CUMBERLAND EMC**

The replacement and upgrade of Algood 69-13 kV Substation to 161-13 kV will be proposed as part of Upper Cumberland Electric Membership Corporation's (UCEMC) 2006-2007 Construction Work Plan. The replacement and upgrade will address the additional capacity requirements as well as improving safety and reliability.

Algood Substation is served from breaker 764 in TVA's 161-69 kV West Cookeville Primary Substation approximately 10 miles away. East Cookeville Substation is also served from this circuit. Algood Substation represents approximately 30% of the total circuit load.

Algood Substation has seen two (2) momentary interruptions on the Cookeville – Livingston 161 kV line in the past 5 years. There have been five (5) interruptions on the Algood 69 kV line in the past 5 years. These interruptions ranged from 1 minute to 41 minutes in duration. ☹

The following is provided to justify the need for this 161 kV delivery point substation with an in-service date of December 2007.

REASONS FOR NEW ALGOOD 161-13 KV SUBSTATION

Algood Substation serves the town of Algood, TN, part of Cookeville, TN, Putnam County and part of White County. Algood currently serves over 4,700 meters.

The Algood service area is seeing both commercial and residential growth (see chart). The chart shows "identifiable" growth of over 32% in the next 3-5 years. This growth should continue due to its proximity to Hwy 111 and I-40. A new Wal-Mart in the area has spurred additional development along Main St. and Hwy 111.

The existing Algood Substation consists of two (2) 10/13.33/16.67/18.67 MVA, 68.8-13.09 kV transformers and four (4) feeder breakers. The transformers were built in 1968.

The winter peak demand for the Algood Substation has exceeded the top nameplate rating (18.67 MVA) each year since 2001.

2001 – 21,460 kW
2002 – 20,088 kW
2003 – 24,203 kW
2004 – 20,608 kW
2005 – 22,377 kW

We cannot add a third transformer due to land restrictions. Also, we cannot add feeders due to lack of available land to build on. In addition, three of the four existing feeders are thermally limited.

Replacing the transformers with larger units sufficient to meet future needs will increase the fault available to unacceptable levels for some distribution equipment. Also, an extended outage will be necessary to upgrade the bus work and switches to meet the increased load and fault levels. A mobile transformer will be needed to carry the load during the extended outage, since the substation loads cannot be transferred to other substations.

The most practical and economical solution is the construction of the new 21/28/39.2 MVA Algood Substation at a cost of 2.2 million dollars. Upper Cumberland will acquire land just west of the existing substation adjacent to 1st Avenue (see attached map).

If present growth continues, this substation construction will provide adequate capacity to the Algood area for another 25+ years. Other benefits of the project include:

- Improved primary voltage to the areas served by these substations
- Improved ability to backfeed
- Increased feeder capacity
- Reduced peak load losses
- Improved sectionalizing and alternate feed capabilities.

PEAK LOADING

Feeder	Winter Peak 2003 (kW)	Additional Identified Loading by 2008 (kW)	Total Load – 2008 (kW)	Total Load – 2026 (kW)	Feeder Conductor out of substation	Feeder Capacity @ 50% of Rated Conductor Capacity	Major feeder tie to:
224	6300	—	6300	7,940	336 ACSR	271 amps/5,867 kW	Cookeville 274
234	2300	3900	6200	7,800	336 ACSR	271 amps/5,867 kW	Bangham 224 & 244
244	3800	1210	5010	6,310	336 ACSR	271 amps/5,867 kW	Cookeville 274 & 294
254	11800	2700	14,500	18,270	556 AAC	358 amps/7,751 kW	Cookeville 274
TOTAL	24,200	7,810	32,010	40,320			

- Feeder capacity of 50% rated conductor ampacity is RUS's recommendation to provide backup capability and reduce losses.
- Standard conductor ratings have been increased 30% to account for a 10C winter ambient temperature.
- Total load for 2026 is calculated at a 1.5% annual increase after 2008.

Feeders 224, 234 and 244 are 336 ACSR out of the substation. Feeder 254 is 556 AAC out of the substation and runs south 13 miles across I-40.

Upper Cumberland's design criteria for maximum thermal loading is 75% for any lines and 50% for major feeders that tie to other substations for backup. Feeders 224 and 254 are now above the maximum thermal loading and *all feeders are projected to be above the maximum thermal loading in 2008.*

The additional loads above are projected based on a normal average winter. These projections could go higher if we experienced a severe winter. Based on these projections, each feeder will

have to be re-conducted if load is not diverted to another source. Space is not available at the substation for additional circuit breakers and feeders.

ALTERNATE SCENARIOS

Alternative 1 – New Algood Substation South of Existing Site

UCEMC would build a new 161-13 kV substation in Algood's industrial park, south of the existing substation. TVA would build a 161 kV line to serve the new Algood 161-13 kV Substation.

After discussions with land owners in the industrial park, we have concluded that land costs make this option cost prohibitive.

Costs:	Substation -	\$2,618,000
	Distribution -	\$ 750,000 *
	Land Cost -	\$ 250,000
	Facilities Charge -	(\$1,355,635)
	TOTAL -	\$2,262,365

* Distribution costs are present day based on 30% installation in 2006 and 70% in 2007

Facilities Charge - Savings due to elimination of the facilities charge – Present value of 30 years of \$8,128* monthly facilities charges for Algood delivery at 69 kV. Interest rate of 6%.

Benefits: Higher reliability
Lower outage rate
Improved power quality
More switching and dual feed options
Better voltage stability
Improved operation and maintenance
Maintain single delivery point charge
Greater capacity long term

Negatives: Increased O&M costs
Must acquire ROW for transmission line
Land cost is high

Alternative 2- New 161-13 kV Algood Substation near the Existing Substation

UCEMC would build a new 161-13 kV substation near the existing substation. The new substation would be built next to Highway 111 at the access road to the existing substation. TVA would build a 161 kV line to serve the new Algood 161-13 kV Substation. The new site would provide the ability to install additional feeders, which would allow UCEMC to better balance the load between feeders and eliminate overloading individual feeders.

Summary: Construct 33 MVA Algood Substation and upgrade feeders. TVA to construct 161 kV tap line.

Costs:	Substation -	\$2,618,000
	Distribution -	\$ 675,000 *
	Land Cost -	\$ 25,000
	Facilities for existing 69-13 kV substation -	<u>(\$1,355,635)</u>
	TOTAL -	\$1,962,365

* Distribution costs are present day based on 30% installation in 2006 and 70% in 2007

Facilities Charge - Savings due to elimination of the facilities charge – Present value of 30 years of \$8,128* monthly facilities charges for Algood delivery at 69 kV. Interest rate of 6%.

Benefits: Higher reliability
Lower outage rate
Improved power quality
More switching and dual feed options
Better voltage stability
Improved operation and maintenance
Greater capacity long term

Negatives: Increased O&M costs
Must acquire ROW for transmission line
Increased exposure for transmission system

Alternative 3 – Upgrade Existing Substation Capacity

Since land is not available to add a third transformer or additional feeders, this alternative will examine replacing the transformers and upgrading the feeders.

If the existing transformers (10/18.67 MVA) are replaced with higher capacity transformers (21/28/35 MVA), the results would be:

- Higher fault current
 - o Fault current would be >10kA which would exceed equipment rating for some downstream devices.
- 13 kV bus would need to be upgraded to 1500+ amperes
 - o This work would require a major outage. UCCEMC cannot backfeed all of the feeders at Algood for an extended period. A mobile transformer would have to be rented from TVA at a cost of \$300/day for 120 days.
- The existing transformers are 35 years old. If the transformers were sold for \$15,000 each, the result would be a \$ 270,000 write-off.

Costs:	Substation -	\$2,033,920
	Distribution -	\$1,200,000 *
	Additional Cost of Losses versus Alt. #1 or #2	\$ 780,000 **
	Mobile transformer cost (120 days @ \$300/day)	\$ 36,000
	Write-off Existing Transformers	\$ 270,000
	TOTAL -	\$4,319,920

* Distribution costs are present day based on 20% installation in 2006, 40% in 2007 and 40% in 2008.

** Additional cost of losses are present day costs @ 6% interest over a 30 year period based on 1.3% linear load increase.

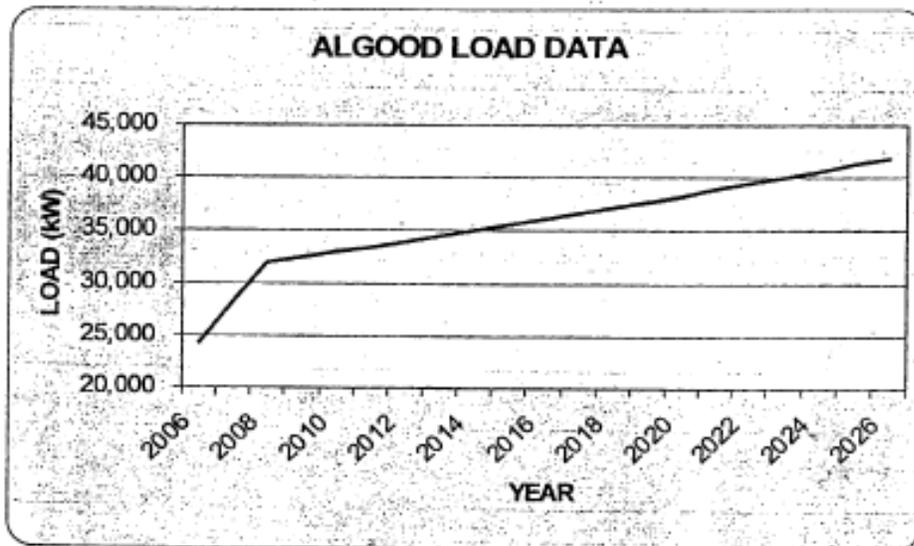
Benefits: No transmission/ ROW costs

Negatives: Unable to add more feeder circuits
Feeder Circuits are Overloaded Now!
Lower reliability
Increased outage rate
Fewer switching options
Reduced voltage stability
Poor operation and maintenance flexibility

Additional identified loads for Algood are shown on next page. These loads are anticipated to be on line by December 2008.

IDENTIFIED LOADS

FEEDER	DESCRIPTION OF LOAD	TOTAL LOAD
234	[600 kW
		100 kW
		3,200 kW
		3,900 kW
244		300 kW
		150 kW
		160 kW
		600 kW
		1210 kW
254		300 kW
	600 kW	
	1200 kW	
	600 kW	
	2,700 kW	
TOTAL ADDITIONS FOR ALGOOD		7,810 kW





**ALTERNATIVE #1
 WEST CUMBERLAND EMC
 15 kV ALGOOD 161-13 KV SUBSTATION SOUTH OF EXISTING LOCATION
 SUBSTATION COST ESTIMATE DETAILS**

Material Description	Quantity	Unit Cost	Total Cost
Power Transformers			
1-13 kV, 3-PH, 20/26.6/33.3 MVA, LTC	2	\$550,000	\$1,100,000
Circuit Switchers	2	\$40,000	\$80,000
Circuit Breakers, 15 kV, 1200 amp	6	\$15,000	\$90,000
Control Building	Lot	\$30,000	\$30,000
AC/DC Panels & DC System	Lot	\$50,000	\$50,000
Structures	Lot	\$100,000	\$100,000
Wiring, grounding, switches, and labor	Lot	\$600,000	\$600,000
Contingency	Lot	\$75,000	\$75,000
Contingency	10%		\$212,500
UBTOTAL			2,337,500
Design & Construction Engineering	5%		\$116,875
Construction Management	4%		\$93,500
Owner's Overhead Expense	3%		\$70,125
UBTOTAL ENGINEERING & MANAGEMENT FEES			\$280,500.00
UBSTATION TOTAL COST			\$2,618,000
Accelerated construction (present day cost)			\$750,000
Savings due to elimination of the facilities charge – Present value of 30 years of \$8,128* monthly facilities charges for Algood delivery at 69 kV. Interest rate of 6%			(\$1,355,635)
Land Cost			\$250,000
TOTAL COST OF ALTERNATIVE #1			\$2,262,365

- Monthly facilities charge is the average of 2003-2005.

**ALTERNATIVE #2
UPPER CUMBERLAND EMC
NEW ALGOOD 161-13 KV SUBSTATION NEAR EXISTING LOCATION
SUBSTATION COST ESTIMATE DETAILS**

Material Description	Quantity	Unit Cost	Total Cost
Power Transformers 161-13 kV, 3-PH, 20/26.6/33.3 MVA, LTC	2	\$550,000	\$1,100,000
Circuit Switchers	2	\$40,000	\$80,000
Circuit Breakers, 15 kV, 1200 amp	6	\$15,000	\$90,000
Control Building	Lot	\$30,000	\$30,000
AC/DC Panels & DC System	Lot	\$50,000	\$50,000
Structures	Lot	\$100,000	\$100,000
Bus, grounding, switches, and labor	Lot	\$600,000	\$600,000
Additional Grading	Lot	\$75,000	\$75,000
Contingency	10%		\$212,500
SUBTOTAL			2,337,500
Design & Construction Engineering	5%		\$116,875
Construction Management	4%		\$93,500
Owner's Overhead Expense	3%		\$70,125
SUBTOTAL ENGINEERING & MANAGEMENT FEES			\$280,500.00
SUBSTATION TOTAL COST			\$2,618,000
Feeder Construction (present day cost)			\$675,000
Savings due to elimination of the facilities charge – Present value of 30 years of \$8,128* monthly facilities charges for Algood delivery at 69 kV. Interest rate of 6%			(\$1,355,635)
Land Cost			\$25,000
TOTAL COST OF ALTERNATIVE #2			\$1,962,365

- Monthly facilities charge is the average of 2003-2005.

**ALTERNATIVE #3
UPPER CUMBERLAND EMC
UPGRADE EXISTING SUBSTATION CAPACITY
COST ESTIMATE DETAILS**

Although this alternative has several disadvantages mentioned previously, we are presenting the financial analysis for purposes of evaluation.

Material Description	Quantity	Unit Cost	Total Cost
Power Transformers 69-13 kV, 3-PH, 20/26.6/33.3 MVA, LTC	2	\$500,000	\$1,000,000
Circuit Switchers	2	\$40,000	\$80,000
Circuit Breakers, 15 kV, 1200 amp	4	\$15,000	\$60,000
Control Building & Relay Panels	Lot	\$70,000	\$70,000
AC/DC Panels & DC System	Lot	\$50,000	\$50,000
Bus, grounding, switches, foundations and labor	Lot	\$400,000	\$400,000
Contingency	10%		\$156,000
SUBTOTAL EQUIP, LABOR & CONTINGENCY			\$1,816,000
Design & Construction Engineering	5%		\$90,800
Construction Management	4%		\$72,640
Owner's Overhead Expense	3%		\$54,480
SUBTOTAL ENGINEERING & FEES			\$217,920.00
SUBSTATION TOTAL			\$2,033,920.00
Additional cost of losses versus Alt. 1 or 2 (present day over 20 year period)			\$780,000
Rebuild four feeders for increased capacity (present day cost)			\$1,200,000
Write off existing transformers			\$270,000
TOTAL COST OF ALTERNATIVE #3			\$4,319,920.00

NA

**PROJECT JUSTIFICATION DATA
ALGOOD, TENNESSEE 161-kV SUBSTATION
UPPER CUMBERLAND ELECTRIC MEMBERSHIP CORPORATION
(UCEMC)
PROVIDE 161-kV DELIVERY POINT (W0693)
Estimated In-Service Date: June 1, 2008**

1. REASON FOR IMPROVEMENT

Delivery Point - Joint One-Ownership - A policy was approved by the TVA Board of Directors on August 26, 1987 stating that distributors and TVA shall be guided by the policy of providing the most economical of the practical combinations of transmission and distribution facilities in solving certain transmission or distribution system problems. This is known as TVA's joint one-ownership policy. Accordingly, UCEMC has requested a new 161-kV delivery point at Algood by 6/1/08. Figures 1 and 2 show the power supply in the Cookeville area.



Figure 1

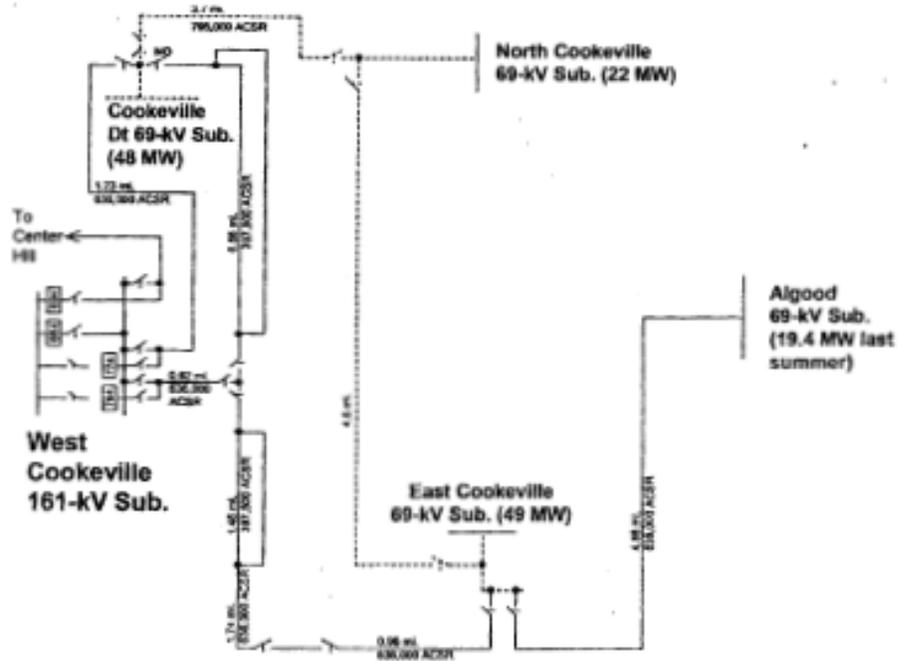


Figure 4

2. **PROBLEM DEFINITION**

New Load

The Algood, Tennessee area is experiencing significant growth. The following loads have been identified for the Algood area and are expected to be completed by the summer of 2008. See Table 1 below.

<i>Load Description</i>	<i>Total New Load</i>
[]	500 kW
[]	100 kW
[]	3,200 kW
[]	500 kW
[]	600 kW

	160 kW
	500 kW
	300 kW
	500 kW
	1,200 kW
	600 kW
Totals	7,810 kW

Table 1

West Cookeville Substation Loading

The Cookeville District, North Cookeville, East Cookeville, and Algood 69-kV Substations are all supplied from the West Cookeville 161-69-13-kV Substation. The West Cookeville Substation contains four 1-phase 30/40/50 MVA, 161-69-13-kV transformers with a calculated capability of 153 MVA. Transformers at the West Cookeville substation are projected to be loaded to 155.3 MVA which exceeds the calculated capability by approximately 2.3 MVA according to TVA's latest extreme summer load projections. With the projected new Algood loads, the transformers are projected to be loaded to 163.1 MVA which exceeds the calculated capability by 10.1 MVA by the summer of 2008. Figure 3 below shows the loading on the West Cookeville transformers.

West Cookeville Transformer Loading

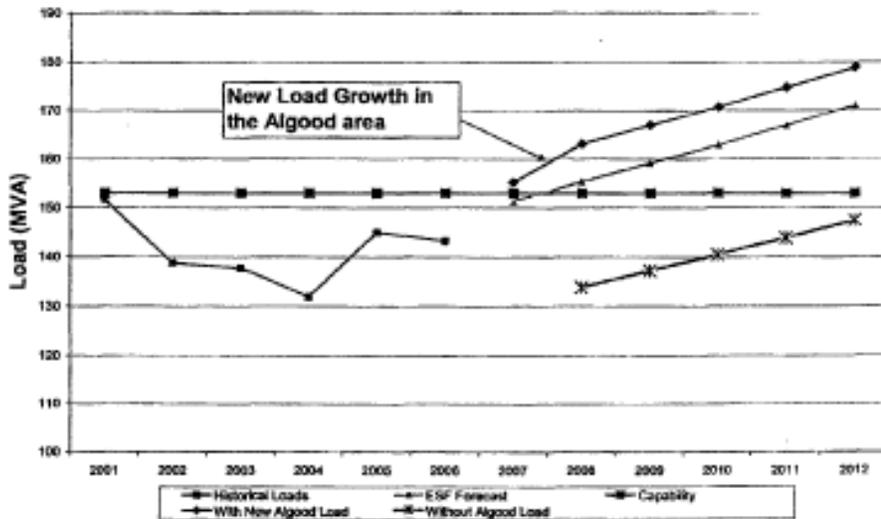


Figure 3

Algood Transformer Loading

The Algood, Tennessee area is supplied from the Algood 69-kV Substation. The Algood Substation contains two 3-phase 10/13.33/16.67/18.67 MVA, 69-13-kV transformers with a firm capability of 18.67 MVA. Transformers at the Algood substation have been loaded to 19.42 MVA this summer already. Loads in the Algood area are projected to be 26.4 MVA by the summer of 2008 including the new growth shown above in Table 1. This exceeds the firm capability of the transformers at Algood by 7.73 MVA. Figure 4 below shows the loading on the Algood transformers.

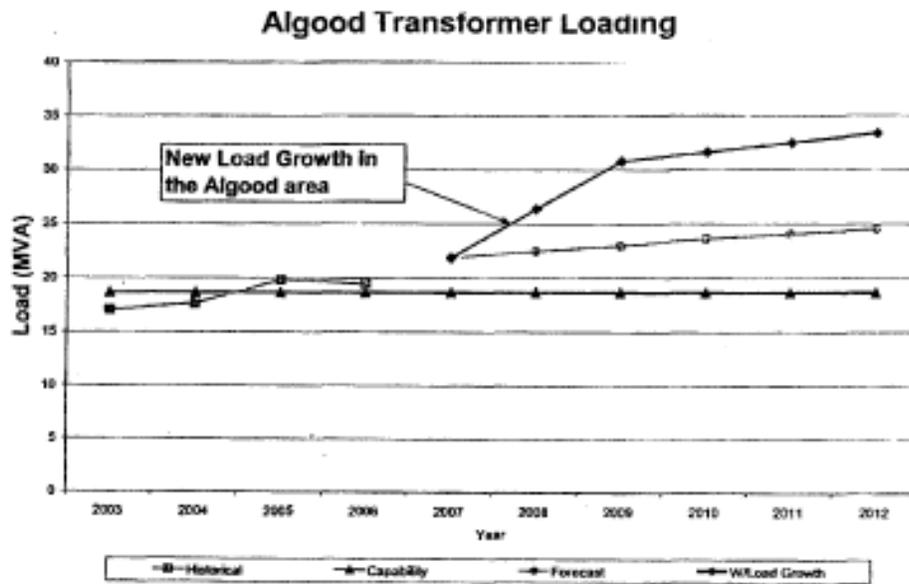


Figure 4

West Cookeville-East Cookeville 69-kV TL Loading

The TVA-owned West Cookeville-East Cookeville 69-kV Transmission Line is approximately 5 miles long and contains 636,000 ACSR conductor and a section of double circuit 397,500 ACSR conductor tied together. The summer capability of this 5-mile circuit has been determined to be 77.1 MVA. Loading on this line is projected to be 84.2 which exceeds the capability by approximately 7.1 MVA by the summer of 2008 according to TVA's latest extreme summer load projections. This load forecast includes the 7.81 MW of new load projected in the Algood area. Figure 5 shows the loading on the West Cookeville-East Cookeville 69-kV TL.

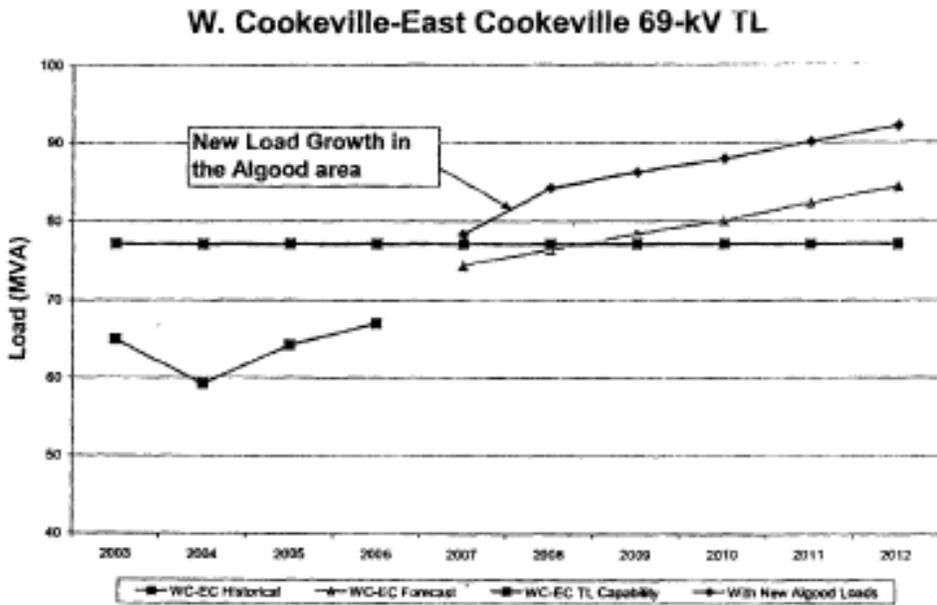


Figure 5

4 pages
withheld

[pages 6-9]

LANZALOTTA & ASSOCIATES LLC
PUBLIC UTILITY CONSULTANTS
67 Royal Point Drive
Hilton Head Island, South Carolina 29926
Phone: (843) 836-3278
Facsimile: (843) 836-2235
Cell: (410) 440-3993
E-Mail: petelanz@lantalotta.com

PETER J. LANZALOTTA
Principal

January 15, 2008

1. Qualifications

My name is Peter J. Lanzalotta. I am a Principal at Lanzalotta & Associates LLC, 67 Royal Pointe Drive, Hilton Head Island, SC 29926.

I am a graduate of Rensselaer Polytechnic Institute, where I received a Bachelor of Science degree in Electric Power Engineering. In addition, I hold a Masters degree in Business Administration with a concentration in Finance from Loyola College in Baltimore.

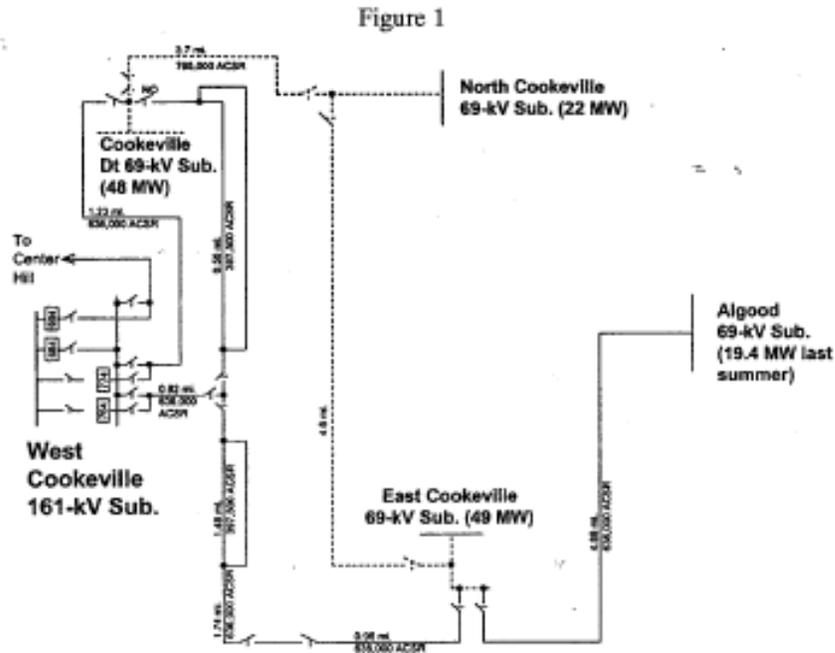
I am a Principal of Lanzalotta & Associates LLC, which was formed in January 2001. Prior to that, I was a partner of Whitfield Russell Associates, with which I had been associated since March 1982. My areas of expertise include electric utility system planning and operation, electric service reliability, cost of service, and utility rate design. I am a registered professional engineer in the states of Maryland and Connecticut. My prior professional experience is described in Exhibit PJJ-1, which is attached hereto.

I have been involved with the planning operation, and analysis of electric utility systems and with utility regulatory matters, including reliability-related matters, certification of new facilities, cost of service, cost allocation, and rate design, as an employee of and as a consultant to a number of privately- and publicly-owned electric utilities, regulatory agencies, developers, and electricity users over a period exceeding thirty years.

I have presented expert testimony before the Federal Energy Regulatory Commission and before regulatory commissions and other judicial and legislative bodies in 21 states, the District of Columbia, and the Provinces of Alberta and Ontario. My clients have included utilities, regulatory agencies, ratepayer advocates, independent producers, industrial consumers, the federal government, and various city and state government agencies. The proceedings in which I have testified are listed in Exhibit PJJ-2.

2. Existing Facilities – Capabilities & Historical Loads

Figure 1 below depicts the critical transmission level facilities with respect to the need for a new Algood substation



- a. The West Cookeville 161-69 kV substation supplies two 69 kV circuits: the first which supplies Cookeville District (“Dt” in Figure 1 stands for “District”) substation and North Cookeville substation, and the second which supplies East Cookeville substation and Algood substation. West Cookeville has 161 – 69 kV transformer capacity of about 153 MVA. Its 2006 peak load was about 144 MVA and, according to a recent letter from TVA, its 2007 peak load was 150.4 MVA. The Cookeville Electric Department (“CED”) receives supply from the West Cookeville substation which is owned by TVA, while Upper Cumberland Electric Membership Cooperative (“Upper Cumberland”) also contracts for capacity from West Cookeville substation. Upper Cumberland owns and operates the Algood substation.
- b. The Algood 69 - 13 kV substation has two transformers with 18.67 MVA of capacity each. Total transformer capacity is, therefore, 37.34 MVA but firm transformer capacity, which provides for the forced outage of one of

these transformer, is only 18.67 MVA. However, Algood has other sources of supply for its 13 kV loads. Each of the four 13 kV circuits connected to Algood substation is considered a major feeder tie to a neighboring substation, on which Upper Cumberland typically reserves 50 % of the circuit capacity as backup. According to the Peak Loading Table on page 2 of the One Ownership Study for the Algood Substation dated July 2006 and prepared by PowerTech Engineering LLC for Upper Cumberland, all four of the Allgood 13 kV circuits are considered major substation ties on which some 25,352 MVA of capacity, or 50% of these circuits total thermal rated capacity, is reserved for backup capability.¹ This increases the firm winter 13 kV load carrying capability of the Allgood substation from 18.67 MVA of firm transformer capacity to 18.67 + 25.35 or 44.02 MVA of total firm capacity. This rating reflects winter conditions. If the 13 kV circuit capacity is reduced to reflect summer conditions, the total 50% of reserved capacity of the four Algood 13 kV major tie feeders decreases to 19,501 MVA, and the firm summer 13 kV load carrying capability of the Algood substation becomes 18.67 + 19.501 or 38.17 MVA of total firm capacity.

The 2003 winter peak load was 24.2 MVA. The 2006 peak load at Algood was reported to be 19.42 MVA and occurred in the summer.

c. West Cookeville to East Cookeville 69 kV transmission line

The 69 kV line from West Cookeville substation to East Cookeville substation has a capacity 77.1 MVA. This line supplies the East Cookeville substation's load as well as the Algood substation load. Peak load in the summer of 2006 was about 68 MVA.

3. Proposed Facilities – New Algood substation & new 161 kV transmission line

Upper Cumberland has proposed abandoning the existing Algood substation and building a new Algood substation close by to be fed by a new 161 kV radial transmission line. The new Algood substation would have two transformers and six 13 kV circuits, compared to four for the current Algood substation.

4. Need For Proposed Facilities

- a. Documents prepared in or about 2006 projected some 8 MVA of new loads that were expected to be added to the electric system at or in the vicinity of the Algood substation by the summer of 2008.

¹ 5,867 + 5,867 + 5,867 + 7,751 = 25,352 MVA. These reflect winter ratings which were increased by 30%. Without this increase, this total becomes 19,501 MVA, which reflects summer ratings.

At the time these projections of 8 MVA of new load were being made, there were three concerns expressed by TVA and Upper Cumberland about the potential overloading of local facilities: (i) overloading of the 161 – 69 kV transformers at the West Cookeville substation, (ii) overloading of the 69 kV transmission line from West Cookeville substation to East Cookeville substation, and (iii) the loading of the Algood substation transformers and 13 kV distribution circuits.

- b. The historical loads on these facilities in the period leading up to 2006 showed relatively little apparent load growth. For example, the loading on the West Cookeville transformers actually decreased over the period of time from 2001 to 2006, although TVA recently provided a summary of the 2007 loads which showed some increase in 2007.

The loads on the Algood substation transformers showed about 3 MVA of loading growth from 2003 to 2006 in one document (Project Justification Data), while they show a decrease from 24.2 MVA in 2003 to 19.4 MVA in 2006 in another (PowerTech Engineering Study).

The loads on the West Cookeville to East Cookeville 69 kV line also showed only a few MW of load growth over the period 2003 to 2006

- b. Now, the 8 MVA of projected new loads are apparently not going to materialize. These projected load additions were either never firm projects or economic conditions have changed since 2006. The December, 2007, Comments on TVA Draft EA For Algood Transmission Line by Dr. Barry Stein (“Stein Comments”) states that there currently is no evidence of any new industry or major new apartment complexes moving into the area that would cause an 8 MW increase in peak demand at the Algood substation.

Despite the apparent loss of this 8 MVA of new loads, TVA still suggests that a need exists to relieve the loading of the West Cookeville substation.

- c. The City of Cookeville is in the process of annexing some 1,200 or more electric customers from Upper Cumberland, many of whom are currently served from the Algood substation. None of the studies to justify the Algood substation that have been provided by TVA or Upper Cumberland address the impact of these annexations. Normally, 1,200 residential customers would be expected to put between 3.5 to 5 MVA (based on an estimated 3 to 4 kW per customer) of load on the electric system. The transfer of these customers from Upper Cumberland to the CED could be expected to reduce loads on facilities serving Upper Cumberland, including the Algood substation.

5. Available Alternatives To Proposed facilities

- a. Documents touting the need for a new Algood substation describe TVA's joint one-ownership policy, which provides that distributors (such as Upper Cumberland) and TVA shall be guided by the policy of providing the most economical combinations of transmission and distribution facilities in solving certain transmission or distribution system problems. (Project Justification Data) There are serious questions about whether the proposed Algood substation and 169 kV transmission line are the most economical solution to transmission system reinforcement needs, or whether projected system reinforcement needs even still exist.

The One Ownership Study prepared by PowerTech Engineering to provide justification for the new Algood substation compares costs for a list of alternatives without ever considering the cost of the transmission line needed to serve the Algood substation. Considering that this transmission line should be expected to cost several million dollars, this is a serious omission if the most economical solution to system problems is truly the goal.

In addition, this study treats abandoned facilities in an inconsistent fashion as well. When the replacement of the existing transformers at West Cookeville substation is evaluated, that option is charged with \$270,000 to write off the remaining life of the existing transformers. When the construction of the new Algood substation is evaluated, that option is credited with more than \$1.3 in foregone facilities charges for the abandoned substation facilities in the existing Algood substation. It is not clear why this option was not charged for the remaining life in these facilities.

- b. The CED currently has available substation and transformer capacity installed at its South Cookeville substation, which is available to help reduce loads at the West Cookeville substation. The South Cookeville substation is not fed through the TVA West Cookeville substation, but has a direct connection to TVA's 161 kV line. In a September 2007 letter to TVA, the CED asks permission to run two 13 kV underbuild circuits along the TVA Monterey to Cookeville 69 kV transmission line. This would enable (i) the transfer of 7 to 8 MVA of load from East Cookeville substation to South Cookeville substation and (ii) the transfer of 8 to 9 MVA from the Cookeville District substation to South Cookeville substation. This would result in a maximum reduction of 16 MVA in West Cookeville substation loads. (9/24/07 letter from Cookeville Electric Department to TVA)

A reduction in the loads on the West Cookeville substation of 16 MVA eliminates the need for further reinforcement of the West Cookeville

substation. This load reduction would be accomplished by using existing substation capacity that is already installed and available. Surely, it is more economical under a one system concept to use existing substation transformer capacity than it is to build new substation capacity and leave the existing capacity idle.

This alternative would also reduce the loads on the West Cookeville to East Cookeville 69 kV transmission line by 7 to 8 MVA, thus providing additional margin below the maximum capability of this line and pushing out into the future any need to increase the capacity of this line or to further reduce loads served by the line.

- c. As initially mentioned above, the City of Cookeville is in the process of annexing some 1,200 or more electric customers from Upper Cumberland, many of whom are currently served from the Algood substation. Normally, the loss of 1,200 residential customers would be expected to remove several MVA of load from the Upper Cumberland electric system. The transfer of these customers from Upper Cumberland to the CED could be expected to reduce loads on facilities serving Upper Cumberland, such as the Algood substation. The loads on the Algood substation will be reduced as a result of these annexations. TVA needs to take into consideration the loss of these electric customers and electric loads in its assessment of need for the new transmission line and substation. At present, there is no indication that this has happened.
- d. Tennessee Technological University ("TTU") is located in the City of Cookeville and is believed to be served out of the West Cookeville substation. TTU has recently installed 8 MVA of diesel generation which is available to be used to reduce area peak loads on electric transmission and substation facilities. The draft Environmental Assessment mentions the possibility that distributed generation could be used to unload the Algood substation, and then dismisses this possibility by saying that:

Because of the uncertainty over costs, the lack of control over reliability of the power supply, and other factors, TVA does not consider a distributed power generation alternative to be a viable option and eliminated this option from further consideration in the environmental review.

While TVA set up and rejected a generic idea of distributed power generation, there is no evidence that TVA or Upper Cumberland considered the specific possibility suggested by Buck Mountain Community Organization and TTU of using the 8 MVA of existing TTU generation to help unload the area transmission and substation facilities. Certainly, the fact that these generating units are already built and in place should help remove much of the uncertainty over costs. As for the lack of

control over such facilities, how does TVA know how much control TTU is willing to grant over the operation of these units until they investigate the subject with TTU? And, how does this lack of control excuse integrate with the joint one-ownership concept? If local generation exists and is ready to operate, it is potentially less expensive and more reliable to operate such generation during periods of peak loading than it is to build additional transmission and substation capacity just so that additional power can be brought in from the outside, where this power would have to be generated anyway.

TVA has reportedly already made use of this TTU diesel generation during a time when TVA was having trouble supplying system loads due to very hot weather conditions during the summer of 2006, soon after these units were installed. It is short-sighted to not consider the use of these generating units now to help reduce loads on the electric facilities in the Cookeville area.

- e. A system reintegration plan prepared by or for Upper Cumberland in 2004 suggests that a new 161 kV substation will be needed in the area to the west of the City of Cookeville, and that this substation will provide support at the 13 kV level to other Upper Cumberland substations located around the City by means of a high capacity distribution loop around the City. The existing Algood substation would be part of that loop and would receive reinforcement from it.

The effects of such a system reintegration plan on the loads on the Algood substation were not mentioned in any of the studies of the need for the new Algood substation. It is not clear whether Upper Cumberland intends to build the proposed new substation to the west of the City of Cumberland, or what such construction would supply to the Algood substation in the way of reinforcement if it is built. However, the possibility that other planned system reinforcements could help reinforce the Algood substation should be considered before a new Algood substation is committed to.

6. Availability of Data

In the course of trying to review the need for system reinforcement at the Algood substation, we requested 2007 peak load data on facilities whose overloads were being used as justification of the need for the new Algood substation. We were provided with 2007 load data for the West Cookeville substation but were told that load data for other facilities was too sensitive to provide, or would require the approval of Upper Cumberland (which apparently has not been forthcoming). When approval for new facilities is based on the need to relieve overloaded facilities, the most recent historical loads on these facilities are commonly available for review and analysis in proceedings before public utility commissions.

7. Conclusion

It is my professional opinion, based upon the information that I have reviewed, that, had this been a certificate of need proceeding before a public utility commission, all of the data concerning the need for the proposed facilities would have been available for review and analysis by experts. At the very least, before making a decision on the proposed new facilities, TVA should analyze the need and all of the available alternatives in a transparent manner.

Based on the data that is available, it is not clear that the substation facilities at the Algood substation still need reinforcement, given the apparent disappearance of the projected new loads and the failure to reflect the effects on Algood substation loadings of the annexations by the CED of electric loads now served by Upper Cumberland. Additionally, it is clear that there are options for reducing the loads at the West Cookeville substation that make use of existing facilities, such as the South Cookeville substation or the TTU diesel generation, that do not appear to have been considered.

Prior Experience Of Peter J. Lanzalotta

Mr. Lanzalotta has more than twenty-five years experience in electric utility system planning, power pool operations, distribution operations, electric service reliability, load and price forecasting, and market analysis and development. Mr. Lanzalotta has appeared as an expert witness on utility reliability, planning, operation, and rate matters in more than 80 proceedings in 21 states, the District of Columbia, the Provinces of Alberta and Ontario, and before the Federal Energy Regulatory Commission. He has developed evaluations of electric utility system cost, value, reliability, and condition. He has participated in negotiations between utilities and customers or regulators in more than ten states regarding transmission access, the need for facilities, electric rates, electric service reliability, the value of electric system components, and system operator structure under wholesale competition.

Prior to his forming Lanzalotta & Associates LLC in 2001, he was a Partner at Whitfield Russell Associates for fifteen years and a Senior Associate for approximately four years before that. He holds a Bachelor of Science in Electric Power Engineering from Rensselaer Polytechnic Institute and a Master of Business Administration with a concentration in Finance from Loyola College of Baltimore.

Prior to joining Whitfield Russell Associates in 1982, Mr. Lanzalotta was employed by the Connecticut Municipal Electric Energy Cooperative ("CMEEC") as a System Engineer. He was responsible for providing operational, financial, and rate expertise to Coop's budgeting, ratemaking and system planning processes. He participated on behalf of CMEEC in the Hydro-Quebec/New England Power Pool Interconnection project and initiated the development of a database to support CMEEC's pool billing and financial data needs.

Prior to his CMEEC employment, he served as Chief Engineer at the South Norwalk (Connecticut) Electric Works, with responsibility for planning, data processing, engineering, rates and tariffs, generation and bulk power sales, and distribution operations. While at South Norwalk, he conceived and implemented, through Northeast Utilities and NEPOOL, a peak-shaving plan for South Norwalk and a neighboring municipal electric utility, which resulted in substantial power supply savings. He programmed and implemented a computer system to perform customer billing and maintain accounts receivable accounting. He also helped manage a generating station overhaul and the undergrounding of the distribution system in South Norwalk's downtown.

From 1977 to 1979, Mr. Lanzalotta worked as a public utility consultant for Van Scoyoc & Wiskup and separately for Whitman Requart & Associates in a variety of positions. During this time, he developed cost of service, rate base evaluation, and rate design impact data to support direct testimony and exhibits in a variety of utility proceedings,

including utility price squeeze cases, gas pipeline rates, and wholesale electric rate cases.

Prior to that, he worked for approximately 2 years as a Service Tariffs Analyst for the Finance Division of the Baltimore Gas & Electric Company where he developed cost and revenue studies, evaluated alternative rate structures, and studied the rate structures of other utilities for a variety of applications. He was also employed by BG&E in Electric System Operations for approximately 3 years, where his duties included operations analysis, outage reporting, and participation in the development of BG&E's first computerized customer information and service order system.

Mr. Lanzalotta is a member of the Institute of Electrical & Electronic Engineers, the National Society of Professional Engineers, the Association of Energy Engineers, the National Fire Protection Association, the American Solar Energy Society, and the Financial Management Association. He is also registered Professional Engineer in the states of Maryland and Connecticut.

**Proceedings In Which
Peter J. Lanzalotta
Has Testified**

1. **In re: Public Service Company of New Mexico**, Docket Nos. ER78-337 and ER78-338 before the Federal Energy Regulatory Commission, concerning the need for access to calculation methodology underlying filing.
2. **In re: Baltimore Gas and Electric Company**, Case No. 7238-V before the Maryland Public Service Commission, concerning outage replacement power costs.
3. **In re: Houston Lighting & Power Company**, Texas Public Utilities Commission Docket No. 4712, concerning modeling methods to determine rates to be paid to cogenerators and small power producers.
4. **In re: Nevada Power Company**, Nevada Public Service Commission, Docket No. 83-707 concerning rate case fuel inventories, rate base items, and O&M expense.
5. **In re: Virginia Electric & Power Company**, Virginia State Corporation Commission, Case No. PUE820091, concerning the operating and reliability-based need for additional transmission facilities.
6. **In re: Public Service Electric & Gas Company**, New Jersey Board of Public Utilities, Docket No. 831-25, concerning outage replacement power costs.
7. **In re: Philadelphia Electric Company**, Pennsylvania Public Utilities Commission, Docket No. P-830453, concerning outage replacement power costs.
8. **In re: Cincinnati Gas & Electric Company**, Public Utilities Commission of Ohio, Case No. 83-33-EL-EFC, concerning the results of an operations/fuel-use audit conducted by Mr. Lanzalotta.
9. **In re: Kansas City Power and Light Company**, before the State Corporation Commission of the state of Kansas, Docket Nos. 142,099-U and 120,924-U, concerning the determination of the capacity, from a new base-load generating facility, needed for reliable system operation, and the capacity available from existing generating units.
10. **In re: Philadelphia Electric Company**, Pennsylvania Public Utilities Commission, Docket No. R-850152, concerning the determination of the capacity, from a new base-load generating facility, needed for reliable system operation, and the capacity available from existing generating units.
11. **In re: ABC Method Proposed for Application to Public Service Company of**

**Proceedings In Which
Peter J. Lanzalotta
Has Testified**

- Colorado**, before the Public Utilities Commission of the State of Colorado, on behalf of the Federal Executive Agencies ("FEA"), concerning a production cost allocation methodology proposed for use in Colorado.
12. **In re: Duquesne Light Company**, Docket No. R-870651, before the Pennsylvania Public Utilities Commission, on behalf of the Office of Consumer Advocate, concerning the system reserve margin needed for reliable service.
 13. **In re: Pennsylvania Power Company**, Docket No. I-7970318 before the Pennsylvania Public Utilities Commission, on behalf of the Office of Consumer Advocate, concerning outage replacement power costs.
 14. **In re: Commonwealth Edison Company**, Docket No. 87-0427 before the Illinois Commerce Commission, on behalf of the Citizen's Utility Board of Illinois, concerning the determination of the capacity, from new base-load generating facilities, needed for reliable system operation.
 15. **In re: Central Illinois Public Service Company**, Docket No. 88-0031 before the Illinois Commerce Commission, on behalf of the Citizen's Utility Board of Illinois, concerning the degree to which existing generating capacity is needed for reliable and/or economic system operation.
 16. **In re: Illinois Power Company**, Docket No. 87-0695 before the State of Illinois Commerce Commission, on behalf of Citizens Utility Board of Illinois, Governors Office of Consumer Services, Office of Public Counsel and Small Business Utility Advocate, concerning the determination of the capacity, from a new base-load generating facility, needed for reliable system operation, and the capacity available from existing generating units.
 17. **In re: Florida Power Corporation**, Docket No. 860001-EI-G (Phase II), before the Florida Public Service Commission, on behalf of the Federal Executive Agencies of the United States, concerning an investigation into fuel supply relationships of Florida Power Corporation.
 18. **In re: Potomac Electric Power Company**, before the Public Service Commission of the District of Columbia, Docket No. 877, on behalf of the Public Service Commission Staff, concerning the need for and availability of new generating facilities.

**Proceedings In Which
Peter J. Lanzalotta
Has Testified**

19. **In re: South Carolina Electric & Gas Company**, before the South Carolina Public Service Commission, Docket No. 88-681-E, On Behalf of the State of Carolina Department of Consumer Affairs, concerning the capacity needed for reliable system operation, the capacity available from existing generating units, relative jurisdictional rate of return, reconnection charges, and the provision of supplementary, backup, and maintenance services for QFs.
20. **In re: Commonwealth Edison Company**, Illinois Commerce Commission, Docket Nos. 87-0169, 87-0427, 88-0189, 88-0219, and 88-0253, on behalf of the Citizen's Utility Board of Illinois, concerning the determination of the capacity, from a new base-load generating facility, needed for reliable system operation.
21. **In re: Illinois Power Company**, Illinois Commerce Commission, Docket No. 89-0276, on behalf of the Citizen's Utility Board Of Illinois, concerning the determination of capacity available from existing generating units.
22. **In re: Jersey Central Power & Light Company**, New Jersey Board of Public Utilities, Docket No. EE88-121293, on behalf of the State of New Jersey Department of the Public Advocate, concerning evaluation of transmission planning.
23. **In re: Canal Electric Company**, before the Federal Energy Regulatory Commission, Docket No. ER90-245-000, on behalf of the Municipal Light Department of the Town of Belmont, Massachusetts, concerning the reasonableness of Seabrook Unit No. 1 Operating and Maintenance expense.
24. **In re: New Hampshire Electric Cooperative Rate Plan Proposal**, before the New Hampshire Public Utilities Commission, Docket No. DR90-078, on behalf of the New Hampshire Electric Cooperative, concerning contract valuation.
25. **In re: Connecticut Light & Power Company**, before the Connecticut Department of Public Utility Control, Docket No. 90-04-14, on behalf of a group of Qualifying Facilities concerning O&M expenses payable by the QFs.
26. **In re: Duke Power Company**, before the South Carolina Public Service Commission, Docket No. 91-216-E, on behalf of the State of South Carolina Department of Consumer Advocate, concerning System Planning, Rate Design and Nuclear Decommissioning Fund issues.
27. **In re: Jersey Central Power & Light Company**, before the Federal Energy Regulatory

**Proceedings In Which
Peter J. Lanzalotta
Has Testified**

- Commission, Docket No. ER91-480-000, on behalf of the Boroughs of Butler, Madison, Lavallette, Pemberton and Seaside Heights, concerning the appropriateness of a separate rate class for a large wholesale customer.
28. **In re: Potomac Electric Power Company**, before the Public Service Commission of the District of Columbia, Formal Case No. 912, on behalf of the Staff of the Public Service Commission of the District of Columbia, concerning the Application of PEPCO for an increase in retail rates for the sale of electric energy.
 29. **Commonwealth of Pennsylvania, House of Representatives**, General Assembly House Bill No. 2273. Oral testimony before the Committee on Conservation, concerning proposed Electromagnetic Field Exposure Avoidance Act.
 30. **In re: Hearings on the 1990 Ontario Hydro Demand/Supply Plan**, before the Ontario Environmental Assessment Board, concerning Ontario Hydro's System Reliability Planning and Transmission Planning.
 31. **In re: Maui Electric Company**, Docket No. 7000, before the Public Utilities Commission of the State of Hawaii, on behalf of the Division of Consumer Advocacy, concerning MECO's generation system, fuel and purchased power expense, depreciation, plant additions and retirements, contributions and advances.
 32. **In re: Hawaiian Electric Company, Inc.**, Docket No. 7256, before the Public Utilities Commission of the State of Hawaii, on behalf of the Division of Consumer Advocacy, concerning need for, design of, and routing of proposed transmission facilities.
 33. **In re: Commonwealth Edison Company**, Docket No. 94-0065 before the Illinois Commerce Commission on behalf of the City of Chicago, concerning the capacity needed for system reliability.
 34. **In re: Commonwealth Edison Company**, Docket No. 93-0216 before the Illinois Commerce Commission on behalf of the Citizens for Responsible Electric Power, concerning the need for proposed 138 kV transmission and substation facilities.
 35. **In re: Commonwealth Edison Company**, Docket No. 92-0221 before the Illinois Commerce Commission on behalf of the Friends of Illinois Prairie Path, concerning the need for proposed 138 kV transmission and substation facilities.
 36. **In re: Commonwealth Edison Company**, Docket No. 94-0179 before the Illinois

**Proceedings In Which
Peter J. Lanzalotta
Has Testified**

Commerce Commission on behalf of the Friends of Sugar Ridge, concerning the need for proposed 138 kV transmission and substation facilities.

37. **In re: Public Service Company of Colorado**, Docket Nos. 95A-531EG and 95I-464E before the Colorado Public Utilities Commission on behalf of the Office of Consumer Counsel, concerning a proposed merger with Southwestern Public Service Company and a proposed performance-based rate-making plan.
38. **In re: South Carolina Electric & Gas Company, Duke Power Company, and Carolina Power & Light Company**, Docket No. 95-1192-E, before the South Carolina Public Service Commission on behalf of the South Carolina Department of Consumer Advocate, concerning avoided cost rates payable to qualifying facilities.
39. **In re: Lawrence A. Baker v. Truckee Donner Public Utility District**, Case No. 55899, before the Superior Court of the State of California on behalf of Truckee Donner Public Utility District, concerning the reasonableness of electric rates.
40. **In re: Black Hills Power & Light Company**, Docket No. OA96-75-000, before the Federal Energy Regulatory Commission on behalf of the City of Gillette, Wyoming, concerning the Black Hills' proposed open access transmission tariff.
41. **In re: Metropolitan Edison Company and Pennsylvania Electric Company** for Approvals of the Restructuring Plan Under Section 2806, Docket Nos. R-00974008 and R-00974009 before the Pennsylvania PUC on behalf of Operating NUG Group, concerning miscellaneous restructuring issues.
42. **In re: New Jersey State Restructuring Proceeding** for consideration of proposals for retail competition under BPU Docket Nos. EX94120585U; E097070457; E097070460; E097070463; E097070466 before the New Jersey BPU on behalf of the New Jersey Division of Ratepayer Advocate, concerning load balancing, third party settlements, and market power.
43. **In re: Arbitration Proceeding In City of Chicago v. Commonwealth Edison** for consideration of claims that franchise agreement has been breached, Proceeding No. 51Y-114-350-96 before an arbitration panel board on behalf of the City of Chicago concerning electric system reliability.
44. **In re: Transalta Utilities Corporation**, Application No. RE 95081 on behalf of the

**Proceedings In Which
Peter J. Lanzalotta
Has Testified**

ACD companies, before the Alberta Energy And Utilities Board in reference to the use and value of interruptible capacity.

45. **In re: Consolidated Edison Company**, Docket No. EL99-58-000 on behalf of The Village of Freeport, New York, before FERC in reference to remedies for a breach of contract to provide firm transmission service on a non-discriminatory basis.
46. **In re: ESBI Alberta Ltd.**, Application No. 990005 on behalf of the FIRM Customers, before the Alberta Energy And Utilities Board concerning the reasonableness of the cost of service plus management fee proposed for 1999 and 2000 by the transmission administrator.
47. **In re: South Carolina Electric & Gas Company**, Docket No. 2000-0170-E on behalf of the South Carolina Department of Consumer Affairs before the Public Service Commission of South Carolina concerning an application for a Certificate of Environmental Compatibility and Public Convenience and Necessity for new and repowered generating units at the Urquhart generating station.
48. **In re: BGE**, Case No. 8837 on behalf of the Maryland Office of People's Counsel before the Maryland Public Service Commission concerning proposed electric line extension charges.
49. **In re: PEPCO**, Case No. 8844 on behalf of the Maryland Office of People's Counsel before the Maryland Public Service Commission concerning proposed electric line extension charges.
50. **In re: GenPower Anderson LLC**, Docket No. 2001-78-E on behalf of the South Carolina Department of Consumer Affairs before the Public Service Commission of South Carolina concerning an application for a Certificate of Environmental Compatibility and Public Convenience and Necessity for new generating units at the GenPower Anderson LLC generating station.
51. **In re: Pike County Light & Power Company**, Docket No. P-00011872, on behalf of Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission concerning the Pike County request for a retail rate cap exception.
52. **In re: Potomac Electric Power Company and Conectiv**, Case No. 8890, on behalf of the Maryland Office of People's Counsel before the Maryland Public Service Commission concerning the proposed merger of Potomac Electric Power Company and

**Proceedings In Which
Peter J. Lanzalotta
Has Testified**

Connectiv.

53. **In re: South Carolina Electric & Gas Company**, Docket No. 2001-420-E on behalf of the South Carolina Department of Consumer Affairs before the Public Service Commission of South Carolina concerning an application for a Certificate of Environmental Compatibility and Public Convenience and Necessity for new generating units at the Jasper County generating station.
54. **In re: Connecticut Light & Power Company**, Docket No. 217 on behalf of the Towns of Bethel, Redding, Weston, and Wilton, Connecticut before the Connecticut Siting Council concerning an application for a Certificate of Environmental Compatibility and Public Need for a new transmission line facility between Plumtree Substation, Bethel and Norwalk Substation, Norwalk.
55. **In re: The City of Vernon, California**, Docket No. EL02-103 on behalf of the City of Vernon before the Federal Energy Regulatory Commission concerning Vernon's transmission revenue balancing account adjustment reflecting calendar year 2001 transactions.
56. **In re: San Diego Gas & Electric Company et. al.**, Docket No. EL00-95-045 on behalf of the City of Vernon, California before the Federal Energy Regulatory Commission concerning refunds and other monies payable in the California wholesale energy markets.
57. **In re: The City of Vernon, California**, Docket No. EL03-31 on behalf of the City of Vernon before the Federal Energy Regulatory Commission concerning Vernon's transmission revenue balancing account adjustment reflecting 2002 transactions.
58. **In re: Jersey Central Power & Light Company**, Docket Nos. ER02080506, ER02080507, ER02030173, and EO02070417 on behalf of the New Jersey Division of Ratepayer Advocate before the New Jersey Board of Public Utilities concerning reliability issues involved in the approval of an increase in base tariff rates.
59. **In re: Proposed Electric Service Reliability Rules, Standards, and Indices To Ensure Reliable Service by Electric Distribution Companies**, PSC Regulation Docket No. 50, on behalf of the Delaware Public Service Commission Staff before the Delaware Public Service Commission concerning proposed electric service reliability rules, standards and indices.
60. **In re: Central Maine Power Company**, Docket No. 2002-665, on behalf of the Maine

**Proceedings In Which
Peter J. Lanzalotta
Has Testified**

Public Advocate and the Town of York before the Maine Public Utilities Commission concerning a Request for Commission Investigation into the New CMP Transmission Line Proposal for Eliot, Kittery, and York.

61. **In re: Metropolitan Edison Company**, Docket No. C-20028394, on behalf of the Pennsylvania Office of Consumer Advocate, before the Pennsylvania Public Utility Commission concerning the reliability service complaint of Robert Lawrence.
62. **In re: The California Independent System Operator Corporation**, Docket No. ER00-2019 *et al.* on behalf of the City of Vernon, California, before the Federal Energy Regulatory Commission concerning wholesale transmission tariffs, rates and rate structures proposed by the California ISO.
63. **In re: The Narragansett Electric Company**, Docket No. 3564 on behalf of the Rhode Island Department of Attorney General, before the Rhode Island Public Utilities Commission concerning the proposed relocation of the E-183 transmission line.
64. **In re: The City of Vernon, California**, Docket No. EL04-34 on behalf of the City of Vernon before the Federal Energy Regulatory Commission concerning Vernon's transmission revenue balancing account adjustment reflecting 2003 transactions.
65. **In re: Atlantic City Electric Company**, Docket No. ER03020110 on behalf of the New Jersey Division of Ratepayer Advocate before the New Jersey Board of Public Utilities concerning reliability issues involved in the approval of an increase in base tariff rates.
66. **In re: Connecticut Light & Power Company and the United Illuminating Company**, Docket No. 272 on behalf of the Towns of Bethany, Cheshire, Durham, Easton, Fairfield, Hamden, Middlefield, Milford, North Haven, Norwalk, Orange, Wallingford, Weston, Westport, Wilton, and Woodbridge, Connecticut before the Connecticut Siting Council concerning an application for a Certificate of Environmental Compatibility and Public Need for a new transmission line facility between the Scoville Rock Switching Station in Middletown and the Norwalk Substation in Norwalk, Connecticut.
67. **In re: Metropolitan Edison Company, Pennsylvania Electric Company, and Pennsylvania Power Company**, Docket No. I-00040102, on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission concerning electric service reliability performance.

**Proceedings In Which
Peter J. Lanzalotta
Has Testified**

68. **In re: Entergy Louisiana, Inc.**, Docket No. U-20925 RRF-2004 on behalf of Bayou Steel before the Louisiana Public Service Commission concerning a proposed increase in base rates.
69. **In re: Jersey Central Power & Light Company**, Docket No. ER02080506, Phase II, on behalf of the New Jersey Division of Ratepayer Advocate before the New Jersey Board of Public Utilities concerning reliability issues involved in the approval of an increase in base tariff rates.
70. **In re: Maine Public Service Company**, Docket No. 2004-538, on behalf of the Main Public Advocate before the Maine Public Utilities Commission concerning a request to construct a 138 kV transmission line from Limestone, Maine to the Canadian border near Hamlin, Maine.
71. **In re: Pike County Light and Power Company**, Docket No. M-00991220F0002, on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission concerning the Company's Petition to amend benchmarks for distribution reliability.
72. **In re: Atlantic City Electric Company**, Docket No. EE04111374, on behalf of the New Jersey Division of Ratepayer Advocate before the New Jersey Board of Public Utilities concerning the need for transmission system reinforcement, and related issues.
73. **In re: Bangor Hydro-Electric Company**, Docket No. 2004-771, on behalf of the Main Public Advocate before the Maine Public Utilities Commission concerning a request to construct a 345 kV transmission line from Orrington, Maine to the Canadian border near Baileyville, Maine.
74. **In re: Eastern Maine Electric Cooperative**, Docket No. 2005-17, on behalf of the Main Public Advocate before the Maine Public Utilities Commission concerning a petition to approve a purchase of transmission capacity on a 345 kV transmission line from Maine to the Canadian province of New Brunswick.
75. **In re: Virginia Electric and Power Company**, Case No. PUE-2005-00018, on behalf of the Town of Leesburg VA and Loudoun County VA before the Virginia State Corporation Commission concerning a request for a certificate of public convenience and necessity for transmission and substation facilities in Loudoun County.

**Proceedings In Which
Peter J. Lanzalotta
Has Testified**

76. **In re: Proposed Electric Service Reliability Rules, Standards, and Indices To Ensure Reliable Service by Electric Distribution Companies**, PSC Regulation Docket No. 50, on behalf of the Delaware Public Service Commission Staff before the Delaware Public Service Commission concerning proposed electric service reliability reporting, standards, and indices.
77. **In re: Proposed Merger Involving Constellation Energy Group Inc. and the FPL Group, Inc.**, Case No. 9054, on behalf of the Maryland Office of Peoples' Counsel before the Maryland Public Service Commission concerning the proposed merger involving Baltimore Gas & Electric Company and Florida Light & Power Company.
78. **In re: Proposed Sale and Transfer of Electric Franchise of the Town of St. Michaels to Choptank Electric Cooperative, Inc.**, Case No. 9071, on behalf of the Maryland Office of Peoples' Counsel before the Maryland Public Service Commission concerning the sale by St. Michaels of their electric franchise and service area to Choptank.
79. **In re: Petition of Rockland Electric Company for the Approval of Changes in Electric Rates, and Other Relief**, BPU Docket No. ER06060483, on behalf of the Department of the Public Advocate, Division of Rate Counsel, before the New Jersey Board of Public Utilities, concerning electric service reliability and reliability-related spending.
80. **In re: The Complaint of the County of Pike v. Pike County Light & Power Company, Inc.**, Docket No. C-20065942, et al., on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utilities Commission, concerning electric service reliability and interconnecting with the PJM ISO.
81. **In re: Application of American Transmission Company to Construct a New Transmission Line**, Docket No. 137-CE-139, on behalf of The Sierra Club of Wisconsin, before the Public Service Commission of Wisconsin, concerning the request to build a new 138 kV transmission line.
82. **In re: Central Maine Power Company**, Docket No. 2006-487, on behalf of the Maine Public Advocate before the Maine Public Utilities Commission concerning CMP's Petition for Finding of Public Convenience & Necessity to build a 115 kV transmission line between Saco and Old Orchard Beach.

**Proceedings In Which
Peter J. Lanzalotta
Has Testified**

83. **In re: Bangor Hydro Electric Company**, Docket No. 2006-686, on behalf of the Maine Public Advocate before the Maine Public Utilities Commission concerning BHE's Petition for Finding of Public Convenience & Necessity to build a 115 kV transmission line and substation in Hancock County.
84. **In re: Commission Staff's Petition For Designation of Competitive Renewable Energy Zones**, Docket No. 33672, on behalf of the Texas Office of Public Utility Counsel, concerning the Staff's Petition and the determination of what areas should be designated as CREZs by the Commission.
85. **In re: Virginia Electric and Power Company**, Case No. PUE-2006-00091, on behalf of the Towering Concerns and Stafford County VA before the Virginia State Corporation Commission concerning a request for a certificate of public convenience and necessity for transmission and substation facilities in Stafford County.



COOKEVILLE ELECTRIC DEPARTMENT

55 West Davis Road
Cookeville, TN 38506
Phone (931) 526-7411
Fax (931) 526-2835

December 21, 2007

To: Becky Kaman
Fm: Tony Peek
Re: Load Information

Please find attached the load information for Cookeville Electric's four substations requested in #1 of your Inspection of Documents request. Item #2 does not apply since we do not have possession of other substations in Putnam County.

I will be on vacation until January 3, 2008 and will start preparing the other information at that time. Should you have questions concerning the data we are currently sending, please contact Ed Greenwell, CED's Electrical Engineer, at 931-520-5402.



POWER BILLING SUMMARY REPORT
 PERIOD ANALYSIS FROM 10/13/2007 00:00 THROUGH 11/12/2007 23:59

PROCESSED TIME: 11/13/2007 09:01

PAGE: 1

CUSTOMER ID: 0053	POINT: 0053_0_BP	TYPE: BILLING
CUST NAME: COCKEVILLE	NODE NAME: TOTAL SIMULTANEOUS LOAD	NODE START: 12/13/1998 00:00:00
SERVED BY: NIA	CIRC DESC:	NODE STOP:
AREA: MIDDLE TENN	INTERVAL SIZE: 60 MINUTE	
CSC: NASHVILLE	VERSION: 1	

REPORT NO: PBRPT001

POINT SUMMARY

	ENERGY	AT PEAK KW			AT PEAK KVA		
	KWH	KW	KVAR	KVA	KW	KVAR	KVA
METERED:	42,951,018	88,558	18,730	88,558	88,558	18,730	88,558
STA. SERVICE:	6,520	12					
ADJUST:	0	0	0		0	0	
LOSSES:	168,009	329	5,057		329	5,057	
TOTAL:	43,125,547	88,897	23,787	90,094	88,885	23,787	90,082
METERED:	LF= 66.62%	10/17/2007 13:59		PF= 96.45%	10/17/2007 13:59		PF= 96.45%
METERED:	LF= 66.61%			PF= 97.74%			PF= 97.74%

REPORT NO: PBRPT002

BILLING COMPONENTS

CONTRIBUTOR	KWH				KW				KVAR				KVA			
	METERED	LOSSES	STN SER	ADJUST	TOTAL	METERED	LOSSES	STN SER	ADJUST	TOTAL	METERED	LOSSES	ADJUST	TOTAL	METERED	TOTAL
0053001_MP	0	0	2,670	0	2,670	0	0	1	0	1	0	0	0	0	0	1
0053002_MP	0	0	3,850	0	3,850	0	0	11	0	11	0	0	0	0	0	11
0053104_MP	16,637,509	0	0	0	16,637,509	35,294	0	0	0	35,294	9,655	0	0	9,655	36,591	36,591
0053400_MP	18,478,525	65,590	0	0	18,544,115	31,493	121	0	0	31,614	7,808	1,875	0	9,683	32,448	33,084
0053500_MP	7,602,998	27,798	0	0	7,630,796	14,537	65	0	0	14,602	-297	925	0	628	14,540	14,815
0053600_MP	0	13,410	0	0	13,410	0	18	0	0	18	0	10	0	10	0	21
0053850_MP	6,676,300	21,750	0	0	6,698,050	11,981	38	0	0	11,997	2,869	612	0	3,481	11,912	12,108
0053900_MP	-2,719,104	0	0	0	-2,719,104	-4,506	0	0	0	-4,506	-886	0	0	-886	-4,592	-4,592
0053901_MP	-1,125,208	0	0	0	-1,125,208	-1,823	0	0	0	-1,823	-419	0	0	-419	-1,871	-1,871
OTHER LOSS		35,481			35,481		89			89		1,633		1,633		
TOTAL	42,951,018	168,009	6,520	0	43,125,547	88,558	329	12	0	88,897	18,730	5,057	0	23,787	88,558	90,082



POWER BILLING SUMMARY REPORT
PERIOD ANALYSIS FROM 10/13/2007 00:00 THROUGH 11/12/2007 23:59

PROCESSED TIME: 11/13/2007 09:01

PAGE: 21

CUSTOMER ID: 0053 POINT: 0553002_MP TYPE: METER
 CUST NAME: COOKEVILLE NODE NAME: COOKEVILLE DIST UNMETERED STATION NODE START: 12/12/1986 00:00:00
 SERVED BY: N/A CIRC DESC: NODE STOP:
 AREA: MIDDLE TENN INTERVAL SIZE: 0 MINUTE
 CBC: NASHVILLE VERSION: 1
 RECORDER: 0953002_MP

REPORT NO: PBRPT004

BILLING HISTORY

	PERIOD ENDING	BILLING INFORMATION				REACTIVE ANALYSIS		METERED INFORMATION				
		TOTAL KWH	BEAR TOTAL KW	TOTAL KW	PF	TOTAL CAPS	FXC LAG KWAR	LEAD KWAR (MIN KW)	kWh	kW	% LF	% PF
1	11/12/2007 23:59	3,850		11		0			0			
2	10/12/2007 23:59	3,850		11		0			0			
3	09/12/2007 23:59	3,850		11		0			0			
4	08/12/2007 23:59	3,850		11		0			0			
5	07/12/2007 23:59	3,850		11		0			0			
6	06/12/2007 23:59	3,850		11		0			0			
7	05/12/2007 23:59	3,850		11		0			0			
8	04/12/2007 23:59	3,850		11		0			0			
9	03/12/2007 23:59	3,850		11		0			0			
10	02/12/2007 23:59	3,850		11		0			0			
11	01/12/2007 23:59	3,850		11		0			0			
12	12/12/2006 23:59	3,850		11		0			0			
13	11/12/2006 23:59	3,850		11		0			0			
14	10/12/2006 23:59	3,850		11		0			0			
15	09/12/2006 23:59	3,850		11		0			0			
16	08/12/2006 23:59	3,850		11		0			0			
17	07/12/2006 23:59	3,850		11		0			0			
18	06/12/2006 23:59	3,850		11		0			0			
19	05/12/2006 23:59	3,850		11		0			0			
20	04/12/2006 23:59	3,850		11		0			0			
21	03/12/2006 23:59	3,850		11		0			0			
22	02/12/2006 23:59	3,850		11		0			0			
23	01/12/2006 23:59	3,850		11		0			0			
24	12/12/2005 23:59	3,850		11		0			0			
25	11/12/2005 23:59	3,850		11		0			0			
26	10/12/2005 23:59	3,850		11		0			0			
27	09/12/2005 23:59	3,850		11		0			0			
28	08/12/2005 23:59	3,850		11		0			0			
29	07/12/2005 23:59	3,850		11		0			0			
30	06/12/2005 23:59	3,850		11		0			0			
31	05/12/2005 23:59	3,850		11		0			0			
32	04/12/2005 23:59	3,850		11		0			0			
33	03/12/2005 23:59	3,850		11		0			0			
34	02/12/2005 23:59	3,850		11		0			0			
35	01/12/2005 23:59	3,850		11		0			0			
36	12/12/2004 23:59	3,850		11		0			0			
37	11/12/2004 23:59	3,850		11		0			0			
38	10/12/2004 23:59	3,850		11		0			0			
39	09/12/2004 23:59	3,850		11		0			0			
40	08/12/2004 23:59	3,850		11		0			0			
41	07/12/2004 23:59	3,850		11		0			0			
42	06/12/2004 23:59	3,850		11		0			0			
43	05/12/2004 23:59	3,850		11		0			0			
44	04/12/2004 23:59	3,850		11		0			0			
45	03/12/2004 23:59	3,850		11		0			0			
46	02/12/2004 23:59	3,850		11		0			0			
47	01/12/2004 23:59	3,850		11		0			0			
48	12/12/2003 23:59	3,850		11		0			0			
49	11/12/2003 23:59	3,850		11		0			0			
50	10/12/2003 23:59	3,850		11		0			0			
51	09/12/2003 23:59	3,850		11		0			0			
52	08/12/2003 23:59	3,850		11		0			0			
53	07/12/2003 23:59	3,850		11		0			0			
54	06/12/2003 23:59	3,850		11		0			0			
55	05/12/2003 23:59	3,850		11		0			0			
56	04/12/2003 23:59	3,850		11		0			0			
57	03/12/2003 23:59	3,850		11		0			0			
58	02/12/2003 23:59	3,850		11		0			0			
59	01/12/2003 23:59	3,850		11		0			0			
60	12/12/2002 23:59	3,850		11		0			0			



POWER BILLING SUMMARY REPORT
 PERIOD ANALYSIS FROM 10/12/2007 00:00 THROUGH 11/12/2007 23:59

PROCESSED TIME: 11/13/2007 09:01

PAGE: 19

CUSTOMER ID: 0053 POINT: 0053001_MP TYPE: METER
 CUST NAME: COOKEVILLE NODE NAME: EAST COOKEVILLE UNMETERED STATION NODE START: 12/12/1986 00:00:00
 SERVED BY: N/A CIRC DESC: NODE STOP:
 AREA: MIDDLE TENN INTERVAL SIZE: 0 MINUTE
 CSC: NASHVILLE VERSION: 1
 RECORDER: 0063001_MP

REPORT NO: PBRPT004

BILLING HISTORY

	PERIOD ENDING	BILLING INFORMATION				REACTIVE ANALYSIS		METERED INFORMATION			
		TOTAL KWH	PEAK TOTAL KW	TOTAL KW	PF	TOTAL CAPS	EXC LAG KVAR	LEAD KVAR @ MIN KW	KWH	KW	% LF
1	11/12/2007 23:59	2,670		1		0		0			
2	10/12/2007 23:59	2,670		1		0		0			
3	09/12/2007 23:59	2,670		1		0		0			
4	08/12/2007 23:59	2,670		1		0		0			
5	07/12/2007 23:59	2,670		1		0		0			
6	06/12/2007 23:59	2,670		1		0		0			
7	05/12/2007 23:59	2,670		1		0		0			
8	04/12/2007 23:59	2,670		1		0		0			
9	03/12/2007 23:59	2,670		1		0		0			
10	02/12/2007 23:59	2,670		1		0		0			
11	01/12/2007 23:59	2,670		1		0		0			
12	12/12/2006 23:59	2,670		1		0		0			
13	11/12/2006 23:59	2,670		1		0		0			
14	10/12/2006 23:59	2,670		1		0		0			
15	09/12/2006 23:59	2,670		1		0		0			
16	08/12/2006 23:59	2,670		1		0		0			
17	07/12/2006 23:59	2,670		1		0		0			
18	06/12/2006 23:59	2,670		1		0		0			
19	05/12/2006 23:59	2,670		1		0		0			
20	04/12/2006 23:59	2,670		1		0		0			
21	03/12/2006 23:59	2,670		1		0		0			
22	02/12/2006 23:59	2,670		1		0		0			
23	01/12/2006 23:59	2,670		1		0		0			
24	12/12/2005 23:59	2,670		1		0		0			
25	11/12/2005 23:59	2,670		1		0		0			
26	10/12/2005 23:59	2,670		1		0		0			
27	09/12/2005 23:59	2,670		1		0		0			
28	08/12/2005 23:59	2,670		1		0		0			
29	07/12/2005 23:59	2,670		1		0		0			
30	06/12/2005 23:59	2,670		1		0		0			
31	05/12/2005 23:59	2,670		1		0		0			
32	04/12/2005 23:59	2,670		1		0		0			
33	03/12/2005 23:59	2,670		1		0		0			
34	02/12/2005 23:59	2,670		1		0		0			
35	01/12/2005 23:59	2,670		1		0		0			
36	12/12/2004 23:59	2,670		1		0		0			
37	11/12/2004 23:59	2,670		1		0		0			
38	10/12/2004 23:59	2,670		1		0		0			
39	09/12/2004 23:59	2,670		1		0		0			
40	08/12/2004 23:59	2,670		1		0		0			
41	07/12/2004 23:59	2,670		1		0		0			
42	06/12/2004 23:59	2,670		1		0		0			
43	05/12/2004 23:59	2,670		1		0		0			
44	04/12/2004 23:59	2,670		1		0		0			
45	03/12/2004 23:59	2,670		1		0		0			
46	02/12/2004 23:59	2,670		1		0		0			
47	01/12/2004 23:59	2,670		1		0		0			
48	12/12/2003 23:59	2,670		1		0		0			
49	11/12/2003 23:59	2,670		1		0		0			
50	10/12/2003 23:59	2,670		1		0		0			
51	09/12/2003 23:59	2,670		1		0		0			
52	08/12/2003 23:59	2,670		1		0		0			
53	07/12/2003 23:59	2,670		1		0		0			
54	06/12/2003 23:59	2,670		1		0		0			
55	05/12/2003 23:59	2,670		1		0		0			
56	04/12/2003 23:59	2,670		1		0		0			
57	03/12/2003 23:59	2,670		1		0		0			
58	02/12/2003 23:59	2,670		1		0		0			
59	01/12/2003 23:59	2,670		1		0		0			
60	12/12/2002 23:59	2,670		1		0		0			



POWER BILLING SUMMARY REPORT
 PERIOD ANALYSIS FROM 10/13/2007 06:00 THROUGH 11/12/2007 23:59

PROCESSED TIME: 11/13/2007 09:01

PAGE: 23

CUSTOMER ID: 0053 POINT: 0053104_MP TYPE: METER
 CUST NAME: COOKEVILLE NODE NAME: COOKEVILLE, TN SUB NODE START: 12/13/1988 00:00:00
 SERVED BY: N/A CRC DESC: NODE STOP:
 AREA: MIDDLE TENN INTERVAL SIZE: 60 MINUTE
 CSC: NASHVILLE VERSION: 1
 RECORDER: 0053104

REPORT NO: P68PT004

BILLING HISTORY

PERIOD ENDING	BILLING INFORMATION				REACTIVE ANALYSIS		METERED INFORMATION				
	TOTAL kWh	PEAK TOTAL kW	TOTAL kW	PF	TOTAL CAPS	LXC LAG KVAR	LEAD KW/KW	kWh	kW	% LF	% PF
1 11/12/2007 23:59	16,637,509	10/17/2007 15:59	30,856	96.31%	0			16,637,509	30,856	82.28%	95.31%
2 10/12/2007 23:59	18,124,162	09/24/2007 15:59	41,753	94.89%	0			18,124,162	41,753	80.29%	94.89%
3 09/12/2007 23:59	22,679,112	08/23/2007 16:59	45,554	94.92%	0			22,679,112	45,554	86.92%	94.92%
4 08/12/2007 23:59	21,444,113	08/06/2007 16:59	44,237	94.89%	0			21,444,113	44,237	85.18%	94.89%
5 07/12/2007 23:59	19,283,882	07/06/2007 15:59	39,917	95.07%	0			19,283,882	39,917	87.10%	95.07%
6 06/12/2007 23:59	17,540,543	06/07/2007 15:59	36,418	96.37%	0			17,540,543	36,418	84.74%	96.37%
7 05/12/2007 23:59	16,956,656	05/10/2007 16:59	32,746	97.44%	0			16,956,656	32,746	87.87%	97.44%
8 04/12/2007 23:59	16,611,507	03/27/2007 16:59	30,002	97.52%	0			16,611,507	30,002	74.42%	97.52%
9 03/12/2007 23:59	16,534,223	02/16/2007 07:59	40,370	96.39%	0			16,534,223	40,370	81.04%	96.39%
10 02/12/2007 23:59	21,349,520	01/31/2007 07:59	41,645	98.39%	0			21,349,520	41,645	88.97%	98.39%
11 01/12/2007 23:59	16,535,611	01/10/2007 07:59	33,048	99.50%	0			16,535,611	33,048	87.29%	99.50%
12 12/12/2006 23:59	17,905,072	12/06/2006 07:59	41,234	99.41%	0			17,905,072	41,234	80.31%	99.41%
13 11/12/2006 23:59	16,116,837	11/03/2006 07:59	30,197	98.60%	0			16,116,837	30,197	71.64%	98.60%
14 10/12/2006 23:59	15,522,539	10/04/2006 16:59	32,119	97.40%	0			15,522,539	32,119	67.12%	97.40%
15 09/12/2006 23:59	19,828,725	08/28/2006 15:59	40,241	95.54%	0			19,828,725	40,241	86.22%	95.54%
16 08/12/2006 23:59	22,130,928	08/10/2006 18:59	42,552	94.96%	0			22,130,928	42,552	89.90%	94.96%
17 07/12/2006 23:59	16,712,694	06/23/2006 16:59	40,198	95.54%	0			16,712,694	40,198	84.60%	95.54%
18 06/12/2006 23:59	16,851,792	05/31/2006 15:59	37,930	96.50%	0			16,851,792	37,930	85.72%	96.50%
19 05/12/2006 23:59	15,122,767	04/19/2006 18:59	31,990	97.68%	0			15,122,767	31,990	85.68%	97.68%
20 04/12/2006 23:59	16,354,914	03/22/2006 07:59	31,104	99.49%	0			16,354,914	31,104	70.77%	99.49%
21 03/12/2006 23:59	16,380,894	02/29/2006 08:59	33,005	99.59%	0			16,380,894	33,005	80.35%	99.59%
22 02/12/2006 23:59	18,997,596	01/14/2006 10:59	39,960	98.58%	0			18,997,596	39,960	83.90%	98.58%
23 01/12/2006 23:59	17,727,373	12/12/2005 07:59	35,186	99.42%	0			17,727,373	35,186	67.72%	99.42%
24 12/12/2005 23:59	17,478,071	12/07/2005 07:59	34,063	99.35%	0			17,478,071	34,063	71.27%	99.35%
25 11/12/2005 23:59	15,316,984	10/19/2005 15:59	29,052	97.27%	0			15,316,984	29,052	70.77%	97.27%
26 10/12/2005 23:59	17,231,886	09/21/2005 16:59	37,476	96.12%	0			17,231,886	37,476	63.86%	96.12%
27 09/12/2005 23:59	19,905,918	08/19/2005 16:59	39,938	94.92%	0			19,905,918	39,938	86.99%	94.92%
28 08/12/2005 23:59	20,328,028	07/26/2005 14:59	40,500	94.62%	0			20,328,028	40,500	67.46%	94.62%
29 07/12/2005 23:59	18,266,467	06/30/2005 15:59	37,735	95.46%	0			18,266,467	37,735	67.23%	95.46%
30 06/12/2005 23:59	15,960,156	06/06/2005 14:59	36,266	95.13%	0			15,960,156	36,266	59.15%	95.13%
31 05/12/2005 23:59	14,465,203	05/12/2005 16:59	31,082	96.47%	0			14,465,203	31,082	64.64%	96.47%
32 04/12/2005 23:59	15,272,404	03/16/2005 10:59	29,981	99.47%	0			15,272,404	29,981	68.58%	99.47%
33 03/12/2005 23:59	15,378,960	03/02/2005 07:59	32,854	99.39%	0			15,378,960	32,854	69.68%	99.39%
34 02/12/2005 23:59	18,688,737	01/18/2005 07:59	38,491	99.29%	0			18,688,737	38,491	66.28%	99.29%
35 01/12/2005 23:59	17,174,581	12/03/2004 09:59	35,618	99.20%	0			17,174,581	35,618	64.81%	99.20%
36 12/12/2004 23:59	14,990,589	12/02/2004 07:59	28,883	99.52%	0			14,990,589	28,883	72.44%	99.52%
37 11/12/2004 23:59	14,830,479	11/01/2004 17:59	27,756	97.94%	0			14,830,479	27,756	70.79%	97.94%
38 10/12/2004 23:59	15,112,438	09/15/2004 15:59	32,184	96.72%	0			15,112,438	32,184	65.22%	96.72%
39 09/12/2004 23:59	17,748,962	08/27/2004 15:59	37,519	96.27%	0			17,748,962	37,519	83.99%	96.27%
40 08/12/2004 23:59	16,766,726	07/13/2004 16:59	38,448	95.34%	0			16,766,726	38,448	85.67%	95.34%
41 07/12/2004 23:59	18,086,084	06/16/2004 16:59	37,260	96.41%	0			18,086,084	37,260	87.45%	96.41%
42 06/12/2004 23:59	17,733,623	05/11/2004 15:59	35,986	96.78%	0			17,733,623	35,986	86.24%	96.78%
43 05/12/2004 23:59	16,247,649	05/12/2004 13:59	29,743	98.04%	0			16,247,649	29,743	71.20%	98.04%
44 04/12/2004 23:59	15,389,763	03/31/2004 18:59	29,246	99.67%	0			15,389,763	29,246	70.82%	99.67%
45 03/12/2004 23:59	16,070,636	02/18/2004 07:59	32,918	99.83%	0			16,070,636	32,918	70.14%	99.83%
46 02/12/2004 23:59	19,906,999	01/23/2004 07:59	37,584	99.62%	0			19,906,999	37,584	71.19%	99.62%
47 01/12/2004 23:59	19,362,538	01/07/2004 07:59	38,772	99.62%	0			19,362,538	38,772	87.12%	99.62%
48 12/12/2003 23:59	17,057,806	12/12/2003 07:59	34,128	99.50%	0			17,057,806	34,128	89.42%	99.50%
49 11/12/2003 23:59	15,143,258	11/04/2003 17:59	26,878	98.80%	0			15,143,258	26,878	75.34%	98.80%
50 10/12/2003 23:59	15,191,341	09/13/2003 16:59	30,240	94.74%	0			15,191,341	30,240	69.77%	94.74%
51 09/12/2003 23:59	20,429,248	08/21/2003 16:59	38,630	94.69%	0			20,429,248	38,630	88.94%	94.69%
52 08/12/2003 23:59	18,743,357	07/26/2003 14:59	37,951	94.60%	0			18,743,357	37,951	66.38%	94.60%
53 07/12/2003 23:59	17,453,412	07/09/2003 15:59	37,087	94.57%	0			17,453,412	37,087	85.36%	94.57%
54 06/12/2003 23:59	14,739,194	06/11/2003 12:59	31,493	95.68%	0			14,739,194	31,493	62.91%	95.68%
55 05/12/2003 23:59	13,836,088	05/09/2003 15:59	29,916	96.40%	0			13,836,088	29,916	64.24%	96.40%
56 04/12/2003 23:59	14,082,894	04/09/2003 19:59	27,410	99.31%	0			14,082,894	27,410	69.15%	99.31%
57 03/12/2003 23:59	15,470,548	02/17/2003 18:59	33,113	99.18%	0			15,470,548	33,113	69.52%	99.18%
58 02/12/2003 23:59	20,476,079	01/24/2003 07:59	42,206	99.28%	0			20,476,079	42,206	65.21%	99.28%
59 01/12/2003 23:59	16,699,157	01/07/2003 07:59	31,342	99.27%	0			16,699,157	31,342	71.61%	99.27%
60 12/12/2002 23:59	16,766,766	12/05/2002 17:59	32,270	99.22%	0			16,766,766	32,270	72.18%	99.22%



POWER BILLING SUMMARY REPORT
PERIOD ANALYSIS FROM 10/13/2007 00:00 THROUGH 11/12/2007 23:59

PROCESSED TIME: 11/13/2007 09:01

PAGE: 26

CUSTOMER ID: 0053 POINT: 0053400_MP TYPE: METER
CUST NAME: COOKEVILLE NODE NAME: EAST COOKEVILLE, TN SUB NODE START: 12/13/1996 00:00:00
SERVED BY: N/A CIRC DESC: NODE STOP:
AREA: MIDDLE TENN INTERNAL SIZE: 60 MINUTE
CSC: NASHVILLE VERSION: 1
RECORDER: 0053400

REPORT NO: PBRPT004

BILLING HISTORY

PERIOD ENDING	BILLING INFORMATION					REACTIVE ANALYSIS		METERED INFORMATION			
	TOTAL kWh	PEAK TOTAL kW	TOTAL kW	PF	TOTAL CAPS	XC LAG KVAR	LEAD KW/KVAR	kWh	kW	% LF	% PF
1	11/12/2007 23:59	16,544,115	10/17/2007 13:59	31,514	95.52%	0		16,478,525	31,493	70.23%	97.06%
2	10/12/2007 23:59	15,518,268	09/24/2007 14:59	39,901	93.30%	0		15,445,439	39,739	64.47%	95.48%
3	09/12/2007 23:59	21,151,056	09/04/2007 15:59	40,340	93.51%	0		21,067,018	40,176	70.48%	95.83%
4	08/12/2007 23:59	21,032,041	07/19/2007 13:59	41,042	93.09%	0		20,948,685	40,873	68.89%	95.28%
5	07/12/2007 23:59	20,018,763	07/09/2007 14:59	40,438	93.20%	0		19,940,005	40,273	66.77%	95.37%
6	06/12/2007 23:59	18,536,769	06/07/2007 14:59	38,272	93.70%	0		18,463,267	38,199	65.10%	95.70%
7	05/12/2007 23:59	16,262,826	05/10/2007 16:59	34,253	94.97%	0		16,218,144	34,150	65.96%	96.61%
8	04/12/2007 23:59	16,405,486	03/27/2007 15:59	30,100	96.53%	0		16,340,552	29,985	73.24%	97.77%
9	03/12/2007 23:59	15,627,559	02/16/2007 07:59	34,213	98.82%	0		15,566,778	34,085	68.06%	99.57%
10	02/12/2007 23:59	19,181,401	01/31/2007 07:59	34,782	98.79%	0		19,108,351	34,622	74.12%	99.52%
11	01/12/2007 23:59	15,038,829	01/10/2007 07:59	30,472	96.98%	0		15,975,177	30,369	70.73%	99.61%
12	12/12/2006 23:59	15,713,896	12/03/2006 07:59	34,269	98.82%	0		15,648,579	34,231	67.50%	99.55%
13	11/12/2006 23:59	15,967,034	10/18/2006 14:59	28,636	96.68%	0		15,923,358	28,528	74.92%	97.85%
14	10/12/2006 23:59	16,244,229	10/04/2006 15:59	32,818	95.27%	0		16,179,832	32,692	68.74%	96.81%
15	09/12/2006 23:59	21,336,582	08/18/2006 14:59	42,264	92.48%	0		21,262,084	42,088	67.87%	94.85%
16	08/12/2006 23:59	23,729,997	08/10/2006 15:59	45,490	92.28%	0		23,630,980	45,295	70.12%	94.82%
17	07/12/2006 23:59	19,964,365	07/12/2006 14:59	41,589	92.90%	0		19,487,270	41,812	64.73%	95.19%
18	06/12/2006 23:59	17,767,907	06/30/2006 13:59	38,614	93.67%	0		17,697,301	38,429	61.85%	95.70%
19	05/12/2006 23:59	15,651,856	04/19/2006 16:59	32,394	95.79%	0		14,331,741	32,270	61.68%	97.20%
20	04/12/2006 23:59	16,357,076	03/22/2006 07:59	28,827	99.16%	0		16,282,575	28,820	78.09%	99.70%
21	03/12/2006 23:59	15,904,370	02/13/2006 08:59	31,620	99.00%	0		15,842,818	31,609	74.82%	99.83%
22	02/12/2006 23:59	18,515,139	02/07/2006 07:59	32,130	98.93%	0		18,444,326	32,011	77.44%	99.99%
23	01/12/2006 23:59	17,701,907	12/21/2005 07:59	33,497	98.81%	0		17,633,026	33,372	71.02%	99.54%
24	12/12/2005 23:59	17,308,540	12/06/2005 07:59	32,277	98.70%	0		17,241,662	32,157	74.47%	99.45%
25	11/12/2005 23:59	16,406,034	10/20/2005 14:59	31,857	95.62%	0		16,340,902	31,736	69.11%	97.07%
26	10/12/2005 23:59	18,440,399	09/21/2005 15:59	39,428	93.58%	0		18,367,537	39,269	64.96%	95.65%
27	09/12/2005 23:59	21,362,909	08/19/2005 14:59	43,828	92.77%	0		21,277,982	43,643	65.53%	95.16%
28	08/12/2005 23:59	22,539,210	07/26/2005 14:59	44,089	92.49%	0		22,450,015	43,902	68.73%	94.93%
29	07/12/2005 23:59	20,022,391	06/30/2005 15:59	41,170	93.43%	0		19,943,617	41,002	67.56%	96.90%
30	06/12/2005 23:59	18,275,229	06/06/2005 13:59	39,444	93.51%	0		18,202,987	39,265	62.28%	95.59%
31	05/12/2005 23:59	15,763,669	05/12/2005 16:59	35,975	94.60%	0		15,700,568	35,834	60.85%	96.37%
32	04/12/2005 23:59	15,820,295	03/18/2005 10:59	29,074	98.91%	0		15,757,045	28,966	73.21%	98.64%
33	03/12/2005 23:59	15,866,724	03/02/2005 07:59	30,992	98.96%	0		15,845,090	30,877	74.92%	99.60%
34	02/12/2005 23:59	18,418,135	01/18/2005 07:59	34,822	98.78%	0		18,347,725	34,622	71.44%	99.52%
35	01/12/2005 23:59	17,218,272	12/20/2004 09:59	33,827	98.89%	0		17,151,196	33,502	68.01%	99.53%
36	12/12/2004 23:59	16,928,968	12/02/2004 07:59	28,781	99.06%	0		16,866,167	28,674	76.85%	99.63%
37	11/12/2004 23:59	16,469,405	11/01/2004 13:59	31,873	95.83%	0		16,403,901	31,752	69.35%	97.24%
38	10/12/2004 23:59	16,897,512	09/15/2004 14:59	35,950	94.34%	0		16,830,721	35,816	65.26%	95.15%
39	09/12/2004 23:59	19,386,561	08/19/2004 14:59	39,930	93.43%	0		19,310,439	39,771	65.28%	95.85%
40	08/12/2004 23:59	20,605,394	07/13/2004 14:59	40,797	92.95%	0		20,524,170	40,630	67.90%	95.19%
41	07/12/2004 23:59	19,942,780	07/06/2004 15:59	40,583	94.28%	0		19,864,489	40,419	66.26%	95.27%
42	06/12/2004 23:59	20,858,540	05/25/2004 14:59	43,648	92.95%	0		20,875,088	43,465	64.56%	95.23%
43	05/12/2004 23:59	18,790,973	05/12/2004 13:59	37,375	94.56%	0		18,678,583	37,228	69.69%	96.39%
44	04/12/2004 23:59	19,637,134	04/08/2004 12:59	42,026	96.92%	0		19,561,113	41,851	62.89%	98.38%
45	03/12/2004 23:59	18,316,369	02/18/2004 07:59	34,539	97.87%	0		18,246,234	34,409	78.19%	98.91%
46	02/12/2004 23:59	21,245,023	01/26/2004 07:59	37,810	97.70%	0		21,164,348	37,685	75.53%	98.85%
47	01/12/2004 23:59	19,675,026	01/07/2004 07:59	39,454	97.30%	0		19,599,768	39,301	67.03%	98.60%
48	12/12/2003 23:59	18,732,612	12/12/2003 06:59	35,141	97.63%	0		18,660,634	35,008	74.03%	98.75%
49	11/12/2003 23:59	18,401,591	11/03/2003 13:59	33,143	95.81%	0		18,330,195	33,016	74.52%	97.27%
50	10/12/2003 23:59	18,584,732	09/26/2003 14:59	37,621	93.47%	0		18,511,901	37,471	66.52%	95.48%
51	09/12/2003 23:59	24,136,715	08/26/2003 14:59	46,618	91.41%	0		24,038,347	46,413	69.61%	94.15%
52	08/12/2003 23:59	23,426,900	07/28/2003 14:59	45,884	91.30%	0		23,331,468	45,684	68.64%	94.02%
53	07/12/2003 23:59	21,121,157	07/09/2003 14:59	45,378	91.87%	0		21,037,542	45,182	64.87%	94.47%
54	06/12/2003 23:59	19,129,771	06/11/2003 12:59	40,912	92.71%	0		19,054,722	40,743	62.86%	94.98%
55	05/12/2003 23:59	17,823,216	05/09/2003 14:59	38,645	94.14%	0		17,763,092	38,491	64.06%	95.02%
56	04/12/2003 23:59	18,114,025	04/10/2003 09:59	32,294	98.15%	0		18,043,852	32,173	75.48%	99.07%
57	03/12/2003 23:59	17,975,619	02/26/2003 10:59	36,345	97.94%	0		17,907,106	36,207	73.60%	98.00%
58	02/12/2003 23:59	21,915,238	01/24/2003 07:59	41,033	98.24%	0		21,832,905	40,873	71.79%	99.29%
59	01/12/2003 23:59	18,613,362	01/07/2003 07:59	35,174	97.73%	0		18,541,766	35,041	71.12%	98.82%
60	12/12/2002 23:59	17,488,113	12/05/2002 17:59	34,864	98.12%	0		17,428,970	34,733	69.70%	98.10%



POWER BILLING SUMMARY REPORT
PERIOD ANALYSIS FROM 10/13/2007 00:00 THROUGH 11/13/2007 23:59

PROCESSED TIME: 11/13/2007 09:01

PAGE: 29

CUSTOMER ID: 0053
CUST NAME: COOKEVILLE
SERVED BY: N/A
AREA: MIDDLE TENN
CSC: NASHVILLE

POINT: 0053500_MP
NODE NAME: NORTH COOKEVILLE, TN SUB
CIRC DESC:
INTERVAL SIZE: 60 MINUTE
VERSION: 1
RECORDER: 0063500

TYPE: METER
NODE START: 12/13/1984 00:00:00
NODE STOP:

REPORT NO: FBRPT004

BILLING HISTORY

PERIOD ENDING	BILLING INFORMATION					REACTIVE ANALYSIS		METERED INFORMATION			
	TOTAL kWh	PLAN TOTAL kW	TOTAL kW	PF	TOTAL COPS	EXC LAG KVAR	LEAD KVAR %MINKW	kWh	kW	% LF	% PF
1 11/12/2007 23:59	7,030,794	10/17/2007 14:59	14,696	99.87%	0			7,002,966	14,620	64.25%	99.99%
2 10/12/2007 23:59	7,916,440	09/24/2007 14:59	18,234	98.62%	0			7,883,761	18,130	60.37%	99.60%
3 09/12/2007 23:59	11,617,741	08/23/2007 13:59	28,162	97.10%	0			11,588,720	28,979	59.80%	99.07%
4 08/12/2007 23:59	10,646,522	08/06/2007 14:59	25,249	97.29%	0			10,595,061	25,076	58.79%	99.14%
5 07/12/2007 23:59	8,415,118	06/26/2007 13:59	18,080	99.09%	0			8,379,761	17,987	64.71%	99.82%
6 06/12/2007 23:59	8,158,071	05/07/2007 14:59	17,689	99.38%	0			8,125,337	17,999	62.00%	99.82%
7 05/12/2007 23:59	7,194,488	04/01/2007 13:59	15,434	99.73%	0			7,165,740	15,363	64.78%	100.00%
8 04/12/2007 23:59	7,463,624	03/27/2007 13:59	14,809	99.00%	0			7,433,878	14,742	67.78%	99.88%
9 03/12/2007 23:59	7,433,795	02/15/2007 08:59	17,737	99.98%	0			7,403,243	17,647	62.82%	99.88%
10 02/12/2007 23:59	9,268,773	01/01/2007 07:59	18,870	100.00%	0			9,229,067	18,770	66.09%	99.85%
11 01/12/2007 23:59	7,475,369	01/10/2007 07:59	15,034	99.82%	0			7,445,226	15,957	62.71%	99.16%
12 12/12/2006 23:59	7,838,294	12/06/2006 07:59	17,585	99.93%	0			7,806,027	17,496	61.97%	99.35%
13 11/12/2006 23:59	7,221,177	10/24/2006 07:59	14,560	99.72%	0			7,192,493	14,494	66.61%	99.03%
14 10/12/2006 23:59	7,293,060	09/18/2006 11:59	15,796	99.68%	0			7,263,920	15,682	64.33%	99.99%
15 09/12/2006 23:59	8,984,500	08/28/2006 14:59	18,534	98.69%	0			8,946,456	18,436	65.22%	99.63%
16 08/12/2006 23:59	9,920,212	08/08/2006 13:59	19,875	98.07%	0			9,879,680	19,764	67.16%	99.34%
17 07/12/2006 23:59	8,776,877	06/22/2006 13:59	18,375	98.85%	0			8,741,761	18,279	63.38%	99.66%
18 06/12/2006 23:59	8,071,734	05/30/2006 13:59	18,076	98.52%	0			8,038,838	17,962	60.09%	99.53%
19 05/12/2006 23:59	7,877,208	04/19/2006 14:59	16,505	99.20%	0			7,845,190	16,524	65.94%	99.84%
20 04/12/2006 23:59	8,641,682	03/22/2006 07:59	17,437	99.91%	0			8,606,022	17,360	66.70%	99.80%
21 03/12/2006 23:59	8,574,504	02/29/2006 06:59	18,031	99.70%	0			8,537,801	17,939	70.82%	100.00%
22 02/12/2006 23:59	9,842,564	02/07/2006 07:59	18,625	99.69%	0			9,809,051	18,527	71.82%	100.00%
23 01/12/2006 23:59	9,528,748	12/29/2005 07:59	19,028	99.88%	0			9,486,430	18,927	73.36%	100.00%
24 12/12/2005 23:59	9,448,889	12/05/2005 07:59	18,723	99.77%	0			9,407,488	18,625	70.15%	99.66%
25 11/12/2005 23:59	8,972,585	10/20/2005 13:59	17,428	98.15%	0			8,935,016	17,339	69.17%	99.28%
26 10/12/2005 23:59	9,831,547	09/22/2005 13:59	20,579	98.85%	0			9,786,810	20,455	66.45%	99.60%
27 09/12/2005 23:59	10,677,914	08/19/2005 13:59	21,356	97.03%	0			10,626,104	21,227	68.55%	98.70%
28 08/12/2005 23:59	11,581,677	07/29/2005 14:59	21,667	96.36%	0			11,536,896	21,538	70.96%	98.33%
29 07/12/2005 23:59	9,791,263	06/14/2005 14:59	19,899	98.88%	0			9,747,159	19,786	68.42%	98.66%
30 06/12/2005 23:59	9,267,674	06/09/2005 13:59	19,108	97.28%	0			9,227,671	19,003	66.27%	98.80%
31 05/12/2005 23:59	8,591,956	05/12/2005 13:59	18,022	98.34%	0			8,555,876	17,908	68.23%	99.43%
32 04/12/2005 23:59	8,741,974	03/16/2005 11:59	17,160	98.82%	0			8,705,589	17,076	68.62%	99.66%
33 03/12/2005 23:59	8,701,377	03/02/2005 07:59	18,980	99.64%	0			8,663,667	18,463	68.83%	100.00%
34 02/12/2005 23:59	10,291,398	01/18/2005 07:59	20,550	99.59%	0			10,245,614	20,444	67.38%	100.00%
35 01/12/2005 23:59	9,438,309	12/20/2004 10:59	19,333	99.53%	0			9,397,473	19,229	66.69%	99.99%
36 12/12/2004 23:59	8,750,940	12/02/2004 07:59	17,492	99.80%	0			8,714,112	17,404	69.64%	99.99%
37 11/12/2004 23:59	9,298,826	11/01/2004 13:59	17,126	98.33%	0			9,259,246	17,042	72.93%	99.35%
38 10/12/2004 23:59	9,334,628	09/15/2004 14:59	18,906	97.31%	0			9,295,802	18,803	68.66%	98.81%
39 09/12/2004 23:59	9,882,239	09/01/2004 14:59	18,696	97.27%	0			9,839,571	18,585	69.07%	98.77%
40 08/12/2004 23:59	9,728,649	08/04/2004 14:59	18,620	95.59%	0			9,685,722	18,517	70.31%	97.52%
41 07/12/2004 23:59	8,171,946	06/16/2004 14:59	18,020	96.62%	0			8,137,161	17,923	63.06%	97.62%
42 06/12/2004 23:59	9,062,503	05/10/2004 13:59	17,311	95.90%	0			9,023,222	17,211	70.43%	97.67%
43 05/12/2004 23:59	7,862,411	05/12/2004 13:59	15,661	98.62%	0			7,819,724	15,574	70.63%	97.32%
44 04/12/2004 23:59	9,821,423	03/23/2004 08:59	13,869	99.30%	0			9,789,213	13,808	63.58%	99.83%
45 03/12/2004 23:59	7,998,374	02/18/2004 07:59	14,270	99.84%	0			7,969,008	14,207	76.55%	99.97%
46 02/12/2004 23:59	8,784,837	01/23/2004 07:59	15,869	99.34%	0			8,748,819	15,784	74.50%	99.89%
47 01/12/2004 23:59	7,861,143	01/07/2004 07:59	15,988	99.45%	0			7,819,660	15,919	69.02%	99.53%
48 12/12/2003 23:59	7,618,112	12/12/2003 08:59	14,508	99.81%	0			7,587,620	14,440	72.96%	99.97%
49 11/12/2003 23:59	7,732,628	11/06/2003 10:59	13,847	98.57%	0			7,701,253	13,785	74.96%	99.40%
50 10/12/2003 23:59	7,721,602	09/26/2003 13:59	15,123	95.76%	0			7,680,245	15,060	70.97%	97.39%
51 09/12/2003 23:59	9,341,936	08/27/2003 13:59	17,984	94.00%	0			9,300,396	17,885	69.89%	96.24%
52 08/12/2003 23:59	9,023,850	07/28/2003 14:59	17,694	94.40%	0			8,984,491	17,469	69.13%	96.52%
53 07/12/2003 23:59	8,203,328	06/24/2003 14:59	17,697	93.90%	0			8,168,728	17,501	64.83%	96.12%
54 06/12/2003 23:59	7,595,279	05/15/2003 13:59	13,957	96.83%	0			7,564,785	13,894	73.18%	97.91%
55 05/12/2003 23:59	7,476,637	04/29/2003 13:59	16,807	96.52%	0			7,445,453	16,730	65.74%	98.34%
56 04/12/2003 23:59	7,331,530	04/10/2003 10:59	13,686	98.88%	0			7,302,957	13,527	72.88%	99.48%
57 03/12/2003 23:59	7,447,393	02/25/2003 10:59	14,724	97.98%	0			7,417,238	14,666	75.31%	99.02%
58 02/12/2003 23:59	8,696,653	01/23/2003 09:59	16,165	98.84%	0			8,660,863	16,067	72.36%	99.64%
59 01/12/2003 23:59	7,509,394	01/07/2003 07:59	14,331	98.73%	0			7,479,885	14,267	70.47%	98.53%
60 12/12/2002 23:59	7,606,345	12/06/2002 10:59	14,654	98.11%	0			7,575,959	14,488	72.63%	99.12%



POWER BILLING SUMMARY REPORT
PERIOD ANALYSIS FROM 10/13/2007 00:00 THROUGH 11/12/2007 23:59

PROCESSED TIME: 11/13/2007 09:01

PAGE: 32

CUSTOMER ID: 0053 POINT: 0053600_MP TYPE: METER
 CUST NAME: COOKEVILLE NODE NAME: SOUTH COOKEVILLE BANK#1 NODE START: 06/12/2001 00:00:00
 SERVED BY: N/A CIRC DESC: NODE STOP:
 AREA: MIDDLE TENN INTERVAL SIZE: 60 MINUTE
 CSC: NASHVILLE VERSION: 1
 RECORDER: 0053600

REPORT NO: PBRPT004

BILLING HISTORY

PERIOD ENDING	BILLING INFORMATION				REACTIVE ANALYSIS		METERED INFORMATION				
	TOTAL KWH	PEAK TOTAL KWH	TOTAL KWH	PF	NO. OF CURS	EXC TAG KWH	FAC KVAR @MIN/KW	KWH	KVAR	% LT	% PE
1	11/12/2007 23:59	13,410		18	87.42%	0		0	0	0.0%	97.70%
2	10/12/2007 23:59	12,960		18	87.42%	0		0	0	0.0%	95.85%
3	09/12/2007 23:59	13,362		18	87.42%	0		0	0	0.0%	95.53%
4	08/12/2007 23:59	13,362		18	87.42%	0		0	0	0.0%	95.23%
5	07/12/2007 23:59	12,960		18	87.42%	0		0	0	0.0%	95.91%
6	06/12/2007 23:59	13,362		18	87.42%	0		0	0	0.0%	95.54%
7	05/12/2007 23:59	12,960		18	87.42%	0		0	0	0.0%	96.28%
8	04/12/2007 23:59	13,362		18	87.42%	0		0	0	0.0%	96.98%
9	03/12/2007 23:59	12,078		18	87.42%	0		0	0	0.0%	96.11%
10	02/12/2007 23:59	13,362		18	87.42%	0		0	0	0.0%	99.34%
11	01/12/2007 23:59	13,362		18	87.42%	0		0	0	0.0%	99.20%
12	12/12/2006 23:59	12,960		18	87.42%	0		0	0	0.0%	99.50%
13	11/12/2006 23:59	13,410		18	87.42%	0		0	0	0.0%	96.74%
14	10/12/2006 23:59	12,960		18	87.42%	0		0	0	0.0%	96.98%
15	09/12/2006 23:59	13,362		18	87.42%	0		0	0	0.0%	93.98%
16	08/12/2006 23:59	13,362		18	87.42%	0		0	0	0.0%	94.06%
17	07/12/2006 23:59	12,960		18	87.42%	0		0	0	0.0%	96.27%
18	06/12/2006 23:59	13,362		18	87.42%	0		0	0	0.0%	94.63%
19	05/12/2006 23:59	12,960		18	87.42%	0		0	0	0.0%	96.63%
20	04/12/2006 23:59	13,374		18	87.42%	0		0	0	0.0%	99.39%
21	03/12/2006 23:59	12,096		18	87.42%	0		0	0	0.0%	99.40%
22	02/12/2006 23:59	13,362		18	87.42%	0		0	0	0.0%	99.37%
23	01/12/2006 23:59	13,362		18	87.42%	0		0	0	0.0%	99.38%
24	12/12/2005 23:59	12,960		18	87.42%	0		0	0	0.0%	99.24%
25	11/12/2005 23:59	13,410		18	87.42%	0		0	0	0.0%	96.38%
26	10/12/2005 23:59	12,960		18	87.42%	0		0	0	0.0%	95.62%
27	09/12/2005 23:59	13,362		18	87.42%	0		0	0	0.0%	95.66%
28	08/12/2005 23:59	13,362		18	87.42%	0		0	0	0.0%	95.20%
29	07/12/2005 23:59	12,960		18	87.42%	0		0	0	0.0%	95.17%
30	06/12/2005 23:59	13,362		18	87.42%	0		0	0	0.0%	95.38%
31	05/12/2005 23:59	12,960		18	87.42%	0		0	0	0.0%	96.07%
32	04/12/2005 23:59	13,374		18	87.42%	0		0	0	0.0%	98.82%
33	03/12/2005 23:59	12,066		18	87.42%	0		0	0	0.0%	98.95%
34	02/12/2005 23:59	13,362		18	87.42%	0		0	0	0.0%	98.74%
35	01/12/2005 23:59	13,362		18	87.42%	0		0	0	0.0%	98.81%
36	12/12/2004 23:59	12,960		18	87.42%	0		0	0	0.0%	98.85%
37	11/12/2004 23:59	13,410		18	87.42%	0		0	0	0.0%	96.81%
38	10/12/2004 23:59	12,960		18	87.42%	0		0	0	0.0%	95.46%
39	09/12/2004 23:59	13,362		18	87.42%	0		0	0	0.0%	95.19%
40	08/12/2004 23:59	13,362		18	87.42%	0		0	0	0.0%	94.85%
41	07/12/2004 23:59	12,960		18	87.42%	0		0	0	0.0%	95.16%
42	06/12/2004 23:59	13,362		18	87.42%	0		0	0	0.0%	94.91%
43	05/12/2004 23:59	12,960		18	87.42%	0		0	0	0.0%	95.64%
44	04/12/2004 23:59	13,374		18	87.42%	0		0	0	0.0%	98.60%
45	03/12/2004 23:59	12,628		18	87.42%	0		0	0	0.0%	97.98%
46	02/12/2004 23:59	13,362		18	87.42%	0		0	0	0.0%	97.94%
47	01/12/2004 23:59	13,946	12/28/2003 16:59	572	96.91%	0		554	564	1.3%	99.12%
48	12/12/2003 23:59	12,960		18	87.42%	0		0	0	0.0%	97.62%
49	11/12/2003 23:59	13,410		18	87.42%	0		0	0	0.0%	96.94%
50	10/12/2003 23:59	12,960		18	87.42%	0		0	0	0.0%	95.60%
51	09/12/2003 23:59	13,362		18	87.42%	0		0	0	0.0%	93.52%
52	08/12/2003 23:59	243,044	08/05/2003 16:59	6,481	96.67%	0		229,528	6,450	4.78%	97.32%
53	07/12/2003 23:59	12,960	06/13/2003 00:59	18	87.42%	0		0	0	0.0%	93.64%
54	06/12/2003 23:59	13,362	05/13/2003 00:59	18	87.42%	0		0	0	0.0%	95.40%
55	05/12/2003 23:59	12,960	04/13/2003 00:59	18	87.42%	0		0	0	0.0%	96.51%
56	04/12/2003 23:59	13,374	03/13/2003 00:59	18	87.42%	0		0	0	0.0%	98.25%
57	03/12/2003 23:59	12,096		18	87.42%	0		0	0	0.0%	96.44%
58	02/12/2003 23:59	13,362		18	87.42%	0		0	0	0.0%	99.04%
59	01/12/2003 23:59	13,362		18	87.42%	0		0	0	0.0%	96.11%
60	12/12/2002 23:59	12,960		18	87.42%	0		0	0	0.0%	98.93%



POWER BILLING SUMMARY REPORT
PERIOD ANALYSIS FROM 10/13/2007 00:00 THROUGH 11/12/2007 23:59

PROCESSED TIME: 11/13/2007 09:01

PAGE: 38

CUSTOMER ID: 0053
CUST NAME: COCKEVILLE
SERVED BY: N/A
AREA: MIDDLE TENN
CSC: NASHVILLE

POINT: 0053650_MP
NODE NAME: SOUTH COCKVILLE BANK#2
CIRC DESC:
INTERVAL SIZE: 60 MINUTE
VERSION: 1
RECORDER: 0053650

TYPE: METER
NODE START: 09/12/2001 00:00:00
NODE STOP:

REPORT NO: PBRPT004

BILLING HISTORY

LINE	PERIOD ENDING	BILLING INFORMATION				REACTIVE ANALYSIS		METERED INFORMATION			
		TOTAL KW	PEAK TOTAL KW	TOTAL KW	PF	TOTAL CAPS	ERR CAP KWVAR	LEAD KWVAR @MIN KW	KWH	KW	% LF
1	11/12/2007 23:59	6,998,050	10/23/2007 13:59	15,095	96.19%	0		8,676,303	15,019	69.57%	97.70%
2	10/12/2007 23:59	7,949,244	09/24/2007 13:59	18,874	93.14%	0		7,923,563	18,808	58.51%	95.85%
3	09/12/2007 23:59	10,352,139	08/16/2007 13:59	22,202	92.52%	0		10,316,051	22,117	62.70%	95.93%
4	08/12/2007 23:59	10,172,996	08/07/2007 13:59	22,133	92.14%	0		10,139,620	22,049	61.81%	95.23%
5	07/12/2007 23:59	9,146,705	07/09/2007 14:59	20,592	93.23%	0		9,117,355	20,517	61.72%	95.81%
6	06/12/2007 23:59	8,559,173	06/07/2007 13:59	18,552	92.91%	0		8,531,643	19,482	58.85%	95.54%
7	05/12/2007 23:59	7,622,490	05/10/2007 14:59	17,409	94.12%	0		7,598,534	17,351	60.82%	96.28%
8	04/12/2007 23:59	7,708,976	03/27/2007 13:59	16,088	94.97%	0		7,684,811	16,006	54.41%	95.08%
9	03/12/2007 23:59	7,284,957	02/15/2007 08:59	16,689	97.90%	0		7,262,434	16,630	65.05%	95.11%
10	02/12/2007 23:59	8,845,802	02/05/2007 09:59	16,860	98.30%	0		8,818,599	16,796	70.67%	99.34%
11	01/12/2007 23:59	7,483,514	01/10/2007 08:59	15,364	98.19%	0		7,460,175	15,316	65.47%	99.20%
12	12/12/2006 23:59	7,849,500	12/06/2006 08:59	16,437	98.57%	0		7,825,605	16,389	66.33%	99.50%
13	11/12/2006 23:59	7,528,706	10/18/2006 14:59	15,693	94.50%	0		7,505,162	15,642	64.40%	96.74%
14	10/12/2006 23:59	7,730,678	10/04/2006 14:59	17,528	93.23%	0		7,706,162	17,568	60.92%	95.08%
15	09/12/2006 23:59	8,009,335	08/17/2006 14:59	16,807	91.13%	0		8,081,471	16,730	61.55%	93.99%
16	08/12/2006 23:59	9,741,318	08/02/2006 13:59	19,915	91.09%	0		9,705,162	19,842	65.77%	94.00%
17	07/12/2006 23:59	8,693,570	06/23/2006 14:59	21,528	92.30%	0		8,665,324	20,951	57.44%	95.27%
18	06/12/2006 23:59	8,379,821	05/31/2006 14:59	20,791	91.49%	0		8,352,836	20,669	54.28%	94.53%
19	05/12/2006 23:59	7,864,155	04/19/2006 14:59	17,449	94.59%	0		7,840,007	17,391	61.02%	96.63%
20	04/12/2006 23:59	7,875,327	03/29/2006 10:59	16,300	98.49%	0		7,850,970	16,253	69.28%	99.39%
21	03/12/2006 23:59	7,399,396	02/13/2006 10:59	16,230	98.43%	0		7,376,682	16,179	67.65%	99.40%
22	02/12/2006 23:59	7,139,299	02/09/2006 10:59	15,829	98.42%	0		7,115,429	15,770	60.61%	99.37%
23	01/12/2006 23:59	8,096,494	12/29/2005 08:59	16,557	98.37%	0		8,071,417	16,505	65.73%	99.28%
24	12/12/2005 23:59	8,062,016	12/05/2005 10:59	16,190	98.19%	0		8,027,583	16,139	69.08%	99.24%
25	11/12/2005 23:59	7,865,613	10/19/2005 14:59	17,289	94.26%	0		7,840,795	17,231	61.86%	95.38%
26	10/12/2005 23:59	8,886,852	09/15/2005 14:59	20,357	92.90%	0		8,858,151	20,283	60.86%	95.62%
27	09/12/2005 23:59	9,979,796	08/18/2005 13:59	21,368	92.87%	0		9,947,220	21,288	62.80%	95.96%
28	08/12/2005 23:59	10,516,481	07/26/2005 14:59	21,829	92.16%	0		10,481,846	21,746	64.79%	95.20%
29	07/12/2005 23:59	9,279,368	06/14/2005 13:59	20,859	92.26%	0		9,248,425	20,791	61.79%	95.17%
30	06/12/2005 23:59	8,487,735	06/08/2005 13:59	20,690	92.55%	0		8,460,650	20,614	55.17%	95.38%
31	05/12/2005 23:59	7,720,526	05/12/2005 13:59	18,702	93.69%	0		7,696,209	18,637	67.35%	96.07%
32	04/12/2005 23:59	7,850,605	03/16/2005 10:59	16,099	97.67%	0		7,826,027	16,048	65.83%	98.62%
33	03/12/2005 23:59	7,559,620	03/01/2005 10:59	16,167	97.76%	0		7,536,301	16,116	69.59%	98.95%
34	02/12/2005 23:59	8,924,619	01/18/2005 08:59	17,775	97.51%	0		8,897,288	17,717	67.50%	98.74%
35	01/12/2005 23:59	8,188,271	12/20/2004 10:59	17,694	97.42%	0		8,162,670	17,636	62.21%	98.81%
36	12/12/2004 23:59	7,465,638	12/02/2004 08:59	14,922	97.71%	0		7,442,354	14,876	69.49%	98.65%
37	11/12/2004 23:59	8,073,108	11/01/2004 13:59	16,737	94.67%	0		8,047,647	16,682	64.76%	96.81%
38	10/12/2004 23:59	8,266,749	09/15/2004 14:59	18,564	92.98%	0		8,242,431	18,499	61.88%	95.48%
39	09/12/2004 23:59	9,187,594	08/19/2004 14:59	20,500	92.33%	0		9,167,730	20,425	60.25%	96.19%
40	08/12/2004 23:59	10,083,104	08/04/2004 14:59	21,208	91.81%	0		10,030,112	21,129	63.81%	94.85%
41	07/12/2004 23:59	9,217,542	07/12/2004 13:59	20,530	92.30%	0		9,187,484	20,454	62.39%	95.16%
42	06/12/2004 23:59	8,386,296	05/11/2004 14:59	20,202	92.04%	0		8,322,666	20,129	55.68%	94.91%
43	05/12/2004 23:59	6,978,202	05/12/2004 13:59	12,847	93.84%	0		6,968,361	12,807	64.42%	95.54%
44	04/12/2004 23:59	5,775,710	03/22/2004 08:59	11,241	97.70%	0		5,756,327	11,207	69.13%	98.60%
45	03/12/2004 23:59	5,883,447	02/18/2004 08:59	11,946	96.86%	0		5,864,361	11,910	70.75%	97.96%
46	02/12/2004 23:59	5,954,861	01/28/2004 08:59	12,835	96.73%	0		5,932,820	12,796	72.62%	97.94%
47	01/12/2004 23:59	5,808,005	01/07/2004 08:59	12,926	97.37%	0		5,888,386	12,887	58.29%	98.45%
48	12/12/2003 23:59	5,887,488	12/11/2003 10:59	12,141	96.76%	0		5,868,097	12,104	67.33%	97.82%
49	11/12/2003 23:59	5,762,380	11/03/2003 14:59	11,248	95.88%	0		5,762,060	11,213	68.99%	96.94%
50	10/12/2003 23:59	5,734,032	09/26/2003 14:59	12,406	93.88%	0		5,714,629	12,367	64.18%	95.90%
51	09/12/2003 23:59	7,577,986	08/29/2003 14:59	15,574	91.57%	0		7,553,176	15,522	65.40%	93.92%
52	08/12/2003 23:59	7,123,674	07/28/2003 14:59	15,321	91.89%	0		7,100,405	15,270	62.50%	94.13%
53	07/12/2003 23:59	6,562,476	07/09/2003 14:59	15,605	91.48%	0		6,540,810	15,453	58.79%	93.84%
54	06/12/2003 23:59	6,185,620	06/11/2003 12:59	13,384	93.60%	0		6,165,210	13,322	62.20%	95.40%
55	05/12/2003 23:59	5,897,283	04/29/2003 14:59	14,723	94.75%	0		5,877,479	14,676	55.62%	95.51%
56	04/12/2003 23:59	5,714,245	04/10/2003 10:59	11,218	97.26%	0		5,694,947	11,184	68.53%	96.29%
57	03/12/2003 23:59	5,712,971	02/18/2003 10:59	12,537	97.58%	0		5,694,439	12,499	67.80%	96.44%
58	02/12/2003 23:59	7,269,120	01/24/2003 08:59	14,079	98.05%	0		7,186,560	14,036	68.82%	96.04%
59	01/12/2003 23:59	6,035,783	01/07/2003 08:59	12,090	97.00%	0		6,015,964	12,013	67.31%	98.11%
60	12/12/2002 23:59	7,845,654	11/29/2002 10:59	17,295	97.63%	0		7,821,204	17,179	63.23%	96.60%



POWER BILLING SUMMARY REPORT
PERIOD ANALYSIS FROM 10/13/2007 00:00 THROUGH 11/13/2007 23:59

PROCESSED TIME: 11/13/2007 09:01

PAGE: 38

CUSTOMER ID: 0003 POINT: 0053900_MP TYPE: METER
 CUST NAME: COOKVILLE NODE NAME: COOKVILLE, TN SUB #1 (-) NODE START: 12/13/1986 00:00:00
 SERVED BY: N/A CIRC DESC: NODE STOP:
 AREA: MIDDLE TENN INTERVAL SIZE: 60 MINUTE
 CSC: NASHVILLE VERSION: 1
 RECORDER: 0390423

REPORT NO: PBRPT004

BILLING HISTORY

PERIOD ENDING	BILLING INFORMATION				REACTIVE ANALYSIS		METERED INFORMATION				
	TOTAL KWH	PEAK TOTAL KWH	TOTAL KWH	PF	TOTAL CAPS	EXCL LAG KVAR	LEAD KVAR	KWH	KW	% LF	% PF
1 11/12/2007 23:59	2,719,104	11/07/2007 06:59	7,763	98.91%	0			2,719,104	7,763	47.02%	98.91%
2 10/12/2007 23:59	2,819,108	09/24/2007 16:59	7,361	94.72%	0			2,819,108	7,361	53.19%	94.72%
3 09/12/2007 23:59	4,021,508	08/23/2007 17:59	9,206	94.05%	0			4,021,508	9,206	58.71%	94.05%
4 08/12/2007 23:59	3,837,553	08/09/2007 16:59	8,804	94.05%	0			3,837,553	8,804	68.59%	94.03%
5 07/12/2007 23:59	3,363,711	07/09/2007 16:59	7,690	94.44%	0			3,363,711	7,690	61.41%	94.44%
6 06/12/2007 23:59	2,973,654	06/07/2007 17:59	7,119	94.45%	0			2,973,654	7,119	66.14%	94.45%
7 05/12/2007 23:59	2,855,807	04/16/2007 06:59	6,381	99.31%	0			2,855,807	6,381	67.81%	99.31%
8 04/12/2007 23:59	2,862,443	04/06/2007 07:59	7,465	99.07%	0			2,862,443	7,465	61.54%	99.07%
9 03/12/2007 23:59	3,338,429	02/16/2007 06:59	10,459	98.62%	0			3,338,429	10,459	47.57%	98.62%
10 02/12/2007 23:59	4,619,097	01/01/2007 06:59	11,055	98.56%	0			4,619,097	11,055	66.16%	98.56%
11 01/12/2007 23:59	3,275,362	01/09/2007 07:59	8,342	98.76%	0			3,275,362	8,342	62.77%	98.76%
12 12/12/2006 23:59	3,625,283	12/08/2006 06:59	10,835	98.54%	0			3,625,283	10,835	46.47%	98.54%
13 11/12/2006 23:59	2,932,864	11/03/2006 06:59	7,646	98.99%	0			2,932,864	7,646	61.49%	98.99%
14 10/12/2006 23:59	2,445,340	09/17/2006 15:59	5,776	98.02%	0			2,445,340	5,776	58.00%	98.02%
15 09/12/2006 23:59	3,178,850	08/27/2006 16:59	7,010	94.20%	0			3,178,850	7,010	54.02%	94.20%
16 08/12/2006 23:59	3,937,108	08/07/2006 17:59	8,365	94.40%	0			3,937,108	8,365	63.34%	94.40%
17 07/12/2006 23:59	3,206,051	06/23/2006 17:59	7,711	97.78%	0			3,206,051	7,711	67.78%	94.28%
18 06/12/2006 23:59	2,809,710	06/10/2006 16:59	6,880	95.12%	0			2,809,710	6,880	55.05%	95.12%
19 05/12/2006 23:59	2,426,337	04/14/2006 20:59	5,596	97.22%	0			2,426,337	5,596	66.75%	97.22%
20 04/12/2006 23:59	3,015,073	03/22/2006 06:59	7,586	99.09%	0			3,015,073	7,586	53.49%	99.09%
21 03/12/2006 23:59	3,165,569	02/19/2006 07:59	9,020	98.89%	0			3,165,569	9,020	52.22%	98.89%
22 02/12/2006 23:59	3,885,218	02/07/2006 06:59	8,908	98.77%	0			3,885,218	8,908	58.52%	98.77%
23 01/12/2006 23:59	3,845,490	12/21/2005 07:59	9,513	98.59%	0			3,845,490	9,513	54.33%	98.59%
24 12/12/2005 23:59	3,679,080	12/07/2005 06:59	8,865	98.79%	0			3,679,080	8,865	57.64%	98.79%
25 11/12/2005 23:59	2,797,758	10/29/2005 07:59	6,718	99.20%	0			2,797,758	6,718	59.90%	99.20%
26 10/12/2005 23:59	2,875,741	09/21/2005 16:59	6,942	94.93%	0			2,875,741	6,942	57.54%	94.93%
27 09/12/2005 23:59	3,689,590	08/24/2005 17:59	9,141	93.86%	0			3,689,590	9,141	53.96%	93.86%
28 08/12/2005 23:59	3,712,861	07/26/2005 17:59	8,234	94.34%	0			3,712,861	8,234	60.61%	94.34%
29 07/12/2005 23:59	3,278,368	06/29/2005 17:59	7,240	95.18%	0			3,278,368	7,240	62.89%	95.18%
30 06/12/2005 23:59	2,729,967	06/06/2005 14:59	6,808	94.69%	0			2,729,967	6,808	53.00%	94.69%
31 05/12/2005 23:59	2,906,172	05/12/2005 17:59	6,975	96.82%	0			2,906,172	6,975	58.29%	96.82%
32 04/12/2005 23:59	2,846,663	03/16/2005 06:59	6,795	99.32%	0			2,846,663	6,795	56.39%	99.32%
33 03/12/2005 23:59	3,196,131	03/02/2005 06:59	8,800	98.99%	0			3,196,131	8,800	54.06%	98.99%
34 02/12/2005 23:59	4,089,296	01/18/2005 06:59	10,230	98.79%	0			4,089,296	10,230	63.39%	98.79%
35 01/12/2005 23:59	3,719,781	12/25/2004 07:59	9,111	98.91%	0			3,719,781	9,111	54.89%	98.91%
36 12/12/2004 23:59	2,924,000	12/02/2004 06:59	7,344	99.02%	0			2,924,000	7,344	65.30%	99.02%
37 11/12/2004 23:59	2,470,964	11/09/2004 06:59	5,473	99.65%	0			2,470,964	5,473	60.60%	99.65%
38 10/12/2004 23:59	2,423,070	09/15/2004 17:59	5,848	96.22%	0			2,423,070	5,848	57.58%	96.22%
39 09/12/2004 23:59	2,965,661	08/27/2004 16:59	6,713	96.19%	0			2,965,661	6,713	59.38%	96.19%
40 08/12/2004 23:59	3,108,710	08/04/2004 17:59	7,184	94.74%	0			3,108,710	7,184	58.19%	94.74%
41 07/12/2004 23:59	3,041,548	06/16/2004 16:59	6,722	95.09%	0			3,041,548	6,722	62.84%	95.09%
42 06/12/2004 23:59	2,906,231	06/11/2004 17:59	6,640	95.30%	0			2,906,231	6,640	60.83%	95.30%
43 05/12/2004 23:59	2,422,337	04/13/2004 19:59	6,178	99.27%	0			2,422,337	6,178	54.49%	99.27%
44 04/12/2004 23:59	2,614,357	03/23/2004 06:59	6,238	99.32%	0			2,614,357	6,238	66.41%	99.32%
45 03/12/2004 23:59	3,021,638	02/18/2004 06:59	7,651	99.15%	0			3,021,638	7,651	56.74%	99.15%
46 02/12/2004 23:59	4,002,353	01/20/2004 06:59	8,968	98.89%	0			4,002,353	8,968	59.09%	98.89%
47 01/12/2004 23:59	4,428,180	01/07/2004 06:59	10,817	98.33%	0			4,428,180	10,817	56.02%	98.33%
48 12/12/2003 23:59	3,336,523	12/12/2003 06:59	8,853	98.42%	0			3,336,523	8,853	56.79%	98.42%
49 11/12/2003 23:59	2,896,838	10/28/2003 06:59	5,400	99.57%	0			2,896,838	5,400	67.01%	99.57%
50 10/12/2003 23:59	2,642,877	09/13/2003 16:59	5,914	95.72%	0			2,642,877	5,914	59.72%	95.72%
51 09/12/2003 23:59	3,581,596	08/21/2003 17:59	7,599	94.06%	0			3,581,596	7,599	63.35%	94.06%
52 08/12/2003 23:59	3,190,941	07/28/2003 15:59	7,340	93.84%	0			3,190,941	7,340	58.43%	93.84%
53 07/12/2003 23:59	3,107,065	07/04/2003 15:59	6,955	94.01%	0			3,107,065	6,955	62.05%	94.01%
54 06/12/2003 23:59	2,486,658	05/11/2003 12:59	5,499	96.42%	0			2,486,658	5,499	60.79%	96.42%
55 05/12/2003 23:59	1,887,256	05/09/2003 15:59	4,661	96.44%	0			1,887,256	4,661	66.24%	96.44%
56 04/12/2003 23:59	2,145,255	03/13/2003 08:59	5,482	99.37%	0			2,145,255	5,482	62.67%	99.37%
57 03/12/2003 23:59	2,592,639	02/13/2003 06:59	6,251	99.19%	0			2,592,639	6,251	61.72%	99.19%
58 02/12/2003 23:59	3,602,022	01/24/2003 07:59	8,942	98.95%	0			3,602,022	8,942	64.14%	98.95%
59 01/12/2003 23:59	2,912,490	01/07/2003 08:59	5,489	99.11%	0			2,912,490	5,489	60.33%	99.11%
60 12/12/2002 23:59	2,863,008	12/09/2002 07:59	6,212	96.25%	0			2,863,008	6,212	64.01%	96.25%



POWER BILLING SUMMARY REPORT
PERIOD ANALYSIS FROM 10/13/2007 00:00 THROUGH 11/12/2007 23:59

PROCESSED TIME: 11/13/2007 09:01

PAGE: 41

CUSTOMER ID: 0053 POINT: 0053001_MP TYPE: METER
 CUST NAME: COOKEVILLE NODE NAME: COOKEVILLE, TN SUB #2 (-) NODE START: 12/13/1986 00:00:00
 SERVED BY: N/A CIRC DESC: NODE STOP:
 AREA: MIDDLE TENN INTERNAL SIZE: 60 MINUTE
 CSC: NASHVILLE VERSION: 1
 RECORDER: 0360443

REPORT NO: PBRPT004

BILLING HISTORY

PERIOD ENDING	BILLING INFORMATION				TOTAL CAPS	REACTIVE ANALYSIS		METERED INFORMATION			
	TOTAL KWH	PEAK TOTAL KWH	TOTAL KVAR	PERF		EXC LAG KVAR	LEAD KVAR	KWH	KW	% LF	% PF
1 01/12/2007 23:59	1,125,208	1107/2007 06:59	3,313	98.23%	0			1,125,208	3,313	45.59%	98.23%
2 10/12/2007 23:59	1,152,486	09/24/2007 16:59	3,171	98.13%	0			1,152,486	3,171	50.48%	98.13%
3 09/12/2007 23:59	1,715,263	08/22/2007 16:59	3,901	98.86%	0			1,715,263	3,901	59.10%	98.96%
4 08/12/2007 23:59	1,638,927	08/09/2007 16:59	3,897	97.18%	0			1,638,927	3,897	56.33%	97.18%
5 07/12/2007 23:59	1,443,138	07/03/2007 16:59	3,275	97.90%	0			1,443,138	3,275	61.20%	97.95%
6 06/12/2007 23:59	1,228,716	06/07/2007 17:59	3,050	98.52%	0			1,228,716	3,050	64.15%	98.62%
7 05/12/2007 23:59	1,073,528	04/16/2007 06:59	2,748	98.86%	0			1,073,528	2,748	64.26%	98.85%
8 04/12/2007 23:59	1,188,824	04/08/2007 07:59	3,257	98.59%	0			1,188,824	3,257	49.06%	98.59%
9 03/12/2007 23:59	1,459,172	02/18/2007 07:59	4,681	97.84%	0			1,459,172	4,681	46.56%	97.84%
10 02/12/2007 23:59	2,077,970	01/31/2007 07:59	4,830	98.09%	0			2,077,970	4,830	57.83%	98.09%
11 01/12/2007 23:59	1,467,968	01/10/2007 07:59	3,758	98.12%	0			1,467,968	3,758	52.50%	98.12%
12 12/12/2006 23:59	1,605,096	12/08/2006 06:59	4,882	97.82%	0			1,605,096	4,882	45.66%	97.82%
13 11/12/2006 23:59	1,215,940	11/03/2006 06:59	3,240	98.30%	0			1,215,940	3,240	60.37%	98.30%
14 10/12/2006 23:59	797,474	09/17/2006 16:59	2,385	98.59%	0			797,474	2,385	48.44%	99.59%
15 09/12/2006 23:59	1,387,599	08/17/2006 16:59	3,370	97.63%	0			1,387,599	3,370	55.34%	98.12%
16 08/12/2006 23:59	1,675,840	08/10/2006 16:59	3,646	96.74%	0			1,675,840	3,646	61.78%	96.74%
17 07/12/2006 23:59	1,360,408	06/23/2006 16:59	3,374	97.33%	0			1,360,408	3,374	56.05%	97.33%
18 06/12/2006 23:59	1,178,688	06/10/2006 16:59	3,080	97.88%	0			1,178,688	3,080	51.48%	97.86%
19 05/12/2006 23:59	962,030	04/19/2006 17:59	2,272	99.93%	0			962,030	2,272	68.81%	99.93%
20 04/12/2006 23:59	1,251,205	03/23/2006 07:59	3,378	98.37%	0			1,251,205	3,378	49.85%	98.37%
21 03/12/2006 23:59	1,355,371	02/19/2006 07:59	3,996	98.14%	0			1,355,371	3,996	50.47%	98.14%
22 02/12/2006 23:59	1,684,039	02/07/2006 06:59	3,905	98.01%	0			1,684,039	3,905	57.96%	98.01%
23 01/12/2006 23:59	1,740,110	12/01/2005 07:59	4,523	97.94%	0			1,740,110	4,523	51.71%	97.94%
24 12/12/2005 23:59	1,993,905	12/07/2005 07:59	3,966	97.92%	0			1,993,905	3,966	56.82%	97.92%
25 11/12/2005 23:59	1,100,435	10/28/2005 06:59	2,873	97.80%	0			1,100,435	2,873	51.41%	97.80%
26 10/12/2005 23:59	1,145,798	09/21/2005 16:59	2,994	98.18%	0			1,145,798	2,994	53.16%	98.18%
27 09/12/2005 23:59	1,449,802	08/20/2005 16:59	3,624	97.03%	0			1,449,802	3,624	53.77%	97.03%
28 08/12/2005 23:59	1,651,790	07/25/2005 16:59	3,512	97.24%	0			1,651,790	3,512	59.29%	97.24%
29 07/12/2005 23:59	1,337,126	06/30/2005 14:59	3,223	98.14%	0			1,337,126	3,223	57.62%	98.14%
30 06/12/2005 23:59	1,137,352	05/06/2005 14:59	2,869	97.90%	0			1,137,352	2,869	51.14%	97.90%
31 05/12/2005 23:59	1,026,187	05/12/2005 17:59	2,635	99.33%	0			1,026,187	2,635	54.09%	99.33%
32 04/12/2005 23:59	1,192,046	03/14/2005 07:59	3,041	98.48%	0			1,192,046	3,041	52.76%	98.48%
33 03/12/2005 23:59	1,408,011	03/02/2005 06:59	3,940	98.38%	0			1,408,011	3,940	53.16%	98.38%
34 02/12/2005 23:59	1,832,041	01/18/2005 06:59	4,892	97.90%	0			1,832,041	4,892	52.46%	97.90%
35 01/12/2005 23:59	1,728,818	12/25/2004 07:59	4,558	98.21%	0			1,728,818	4,558	50.92%	98.21%
36 12/12/2004 23:59	1,270,895	12/02/2004 06:59	3,357	98.12%	0			1,270,895	3,357	52.56%	98.12%
37 11/12/2004 23:59	1,005,523	11/09/2004 06:59	2,441	99.01%	0			1,005,523	2,441	55.25%	99.01%
38 10/12/2004 23:59	989,152	09/13/2004 16:59	2,475	99.61%	0			989,152	2,475	55.51%	99.61%
39 09/12/2004 23:59	1,161,695	08/27/2004 16:59	3,106	98.28%	0			1,161,695	3,106	50.27%	98.28%
40 08/12/2004 23:59	1,352,804	07/13/2004 17:59	3,270	98.04%	0			1,352,804	3,270	55.81%	98.04%
41 07/12/2004 23:59	1,309,018	06/16/2004 16:59	3,093	98.09%	0			1,309,018	3,093	58.78%	98.09%
42 06/12/2004 23:59	1,236,753	06/11/2004 16:59	2,945	98.70%	0			1,236,753	2,945	56.43%	98.70%
43 05/12/2004 23:59	992,924	04/13/2004 16:59	2,752	98.41%	0			992,924	2,752	50.11%	98.41%
44 04/12/2004 23:59	1,118,177	03/23/2004 06:59	2,589	98.46%	0			1,118,177	2,589	50.35%	98.46%
45 03/12/2004 23:59	1,349,565	02/18/2004 06:59	3,603	98.29%	0			1,349,565	3,603	53.82%	98.29%
46 02/12/2004 23:59	1,840,960	01/31/2004 07:59	4,177	98.38%	0			1,840,960	4,177	59.24%	98.38%
47 01/12/2004 23:59	1,763,130	01/07/2004 06:59	4,493	98.11%	0			1,763,130	4,493	62.74%	98.11%
48 12/12/2003 23:59	1,401,168	11/26/2003 06:59	4,052	99.40%	0			1,401,168	4,052	48.03%	99.40%
49 11/12/2003 23:59	908,874	10/28/2003 06:59	2,249	99.25%	0			908,874	2,249	64.13%	99.25%
50 10/12/2003 23:59	943,285	09/13/2003 16:59	2,354	99.64%	0			943,285	2,354	65.65%	99.64%
51 09/12/2003 23:59	1,400,553	08/22/2003 16:59	3,149	98.33%	0			1,400,553	3,149	59.78%	98.33%
52 08/12/2003 23:59	1,355,207	07/17/2003 17:59	3,011	98.15%	0			1,355,207	3,011	60.50%	98.15%
53 07/12/2003 23:59	1,245,486	07/08/2003 17:59	3,015	98.28%	0			1,245,486	3,015	67.37%	98.28%
54 06/12/2003 23:59	984,843	06/11/2003 12:59	2,348	99.89%	0			984,843	2,348	56.27%	99.89%
55 05/12/2003 23:59	906,964	05/10/2003 15:59	2,380	99.76%	0			906,964	2,380	62.93%	99.76%
56 04/12/2003 23:59	1,040,175	03/31/2003 06:59	3,050	98.59%	0			1,040,175	3,050	45.90%	98.59%
57 03/12/2003 23:59	1,410,181	02/13/2003 06:59	3,663	98.37%	0			1,410,181	3,663	67.29%	98.37%
58 02/12/2003 23:59	2,086,577	01/24/2003 07:59	5,327	98.33%	0			2,086,577	5,327	62.72%	98.33%
59 01/12/2003 23:59	1,636,894	01/01/2003 06:59	3,659	98.28%	0			1,636,894	3,659	60.13%	98.28%
60 12/12/2002 23:59	1,574,712	12/06/2002 07:59	3,750	98.14%	0			1,574,712	3,750	58.32%	98.14%

```
*****  
*** TX REPORT ***  
*****  
  
TRANSMISSION OK  
  
TX/RX NO          3596  
CONNECTION TEL          918286227810  
CONNECTION ID  
ST. TIME          12/21 14:45  
USAGE T          08'54  
PGS. SENT        12  
RESULT           OK
```

Req # 1



COOKEVILLE ELECTRIC DEPARTMENT
55 West Davis Road
Cookeville, TN 38506
Phone: 931-520-5400
Fax: 931-526-2835

12/21/2007 13:27

FROM: TONY PEEK

TO: REBECCA C. KAMAN

FAX: 828-622-7610

SUBJECT: Information Request

PAGES (INCLUDING COVER): 2



COOKEVILLE ELECTRIC DEPARTMENT

55 West Davis Road
Cookeville, TN 38506
Phone (931) 526-7411
Fax (931) 526-2835

September 24, 2007

Mr. Rockey D. Hall
Tennessee Valley Authority
1101 Market Street
Chattanooga, TN 37402-2801

**Re: Cookeville Electric Department
Proposed 13 kV Underbuild
TVA Monterey - Cookeville 69 kV Transmission Line
Structure Number 42 to 44**

Dear Mr. Hall:

South Cookeville 161 kV Substation was completed in 2001 to serve the rapidly growing southern portion of the Cookeville Electric Department (CED) service area. While new load growth has been added to South Cookeville with the construction of two feeders, the ability to transfer load from the Cookeville District and East Cookeville 69/13 kV Substations has been limited by the availability of distribution line routes for additional 13 kV feeders. Line routes contemplated during substation planning and design were refused once construction began. Route discussions have continued for several years with no success.

The unavailability of additional distribution line routes has resulted in the load growth of the South Willow Avenue corridor and the Interstate Drive area to continue to be served from the Cookeville District and East Cookeville 69 kV Substations respectively - ultimately the West Cookeville 161/69 kV Primary Substation. Annexation by the City of Cookeville of property south of I-40 in the South Willow Ave corridor and Lee Seminary Road area for potential industrial park usage will continue to add load to Cookeville District 69 kV Substation unless new distribution circuits can be added to South Cookeville Substation.

To serve the anticipated loads of the annexed areas and transfer load from the 69 kV system, CED proposes to underbuild two (2) 13 kV distribution circuits on the TVA Monterey – Cookeville 69 kV Transmission Line. This underbuild would extend from Structure 42 to 44 as shown on the enclosed drawings.

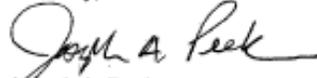
With the proposed feeder circuits, we anticipate a transfer of approximately 8 to 9 MW (S. Willow Ave corridor) from Cookeville District and approximately 7 to 8 MW from East Cookeville to the South Cookeville Substation. In addition, we project up to 10 MW in the Lee Seminary Road industrial area to be served by South Cookeville instead of West Cookeville. Overall, up to 16 MW could be served by the 161 kV System instead of the 69 kV System of the West Cookeville Primary Substation.

Davis – page 65

Enclosed is our design for the proposed underbuild circuits. The design will incorporate underground cable from the substation with risers located on Structures 42-1 and 42-2 and the 13 kV circuits on separate poles of Structures 43 and 43A.

We request the TVA review the possibility of the two underbuild circuits as shown on the enclosed drawing. Please contact the Cookeville Electric Department or our consultant, Allen & Hoshall, with any questions.

Sincerely,



Joseph A. Peek

Enclosure:

cc: Mike Green TVA
Tom Barnes Allen & Hoshall