Virginia City Hybrid Energy Center
Response to Data Request
Vivian Thomson, Vice Chair, Virginia Air Pollution Control Board

Question (Page No. 3 and 4):

According to the National Park Service, Dominion revised the cumulative increment analysis by removing some of the "non-PSD" sources from the increment-consuming inventory (National Park Service 2008). The National Park Service and others have questioned this cumulative increment analysis, which demonstrated that the proposed facility's emissions would not contribute to an increment violation in Class I areas. Under EPA's guidance for increment consumption analysis, other sources of SO2 should be included in the cumulative increment analysis.

How much of the SO2 increment in nearby Class I areas would be consumed if the maximum actual or allowable 24-hour and 3-hour emission rates for the sources identified by the Southern Environmental Law Center--Eastman Chemical, John Sevier power plant, Kingston power plant, Bull Run power plant, Duke Energy's Cliffside power plant, and AEP's Clinch power plant--are included in the cumulative increment inventory?

Response:

Dominion's modeling demonstrates that the proposed facility will not cause or contribute to violation of the 24-hour SO_2 Class I increment. The SO_2 Class I increment analysis demonstrated compliance following USEPA guidance as documented in the modeling protocol and approved by the Virginia Department of Environmental Quality and the USEPA. No adverse impact determination was issued by the FLMs indicating a concern with SO_2 increment compliance.

As provided for in the Virginia regulations, Dominion prepared responses to the comments received from Southern Environmental Law Center, National Park Service, and others. Dominion did conduct modeling including these facilities using alternative procedures suggested by the National Park Service. In the cumulative increment analysis for Class I areas, changes in the emission rates for these sources since the Minor Source Baseline Date were included and modeled. The John Sevier, Kingston, Bull Run, and Duke Cliffside power plants had emission decreases since the Minor Source Baseline Date was set and resulted in increment expansions. The Clinch River plant was modeled with a small increment consumption even though a recent commitment to DEQ will result in substantial emission reductions. The modeling results show a reduction in cumulative impacts on Class I SO_2 increments. The attached report (Attachment 1) and spreadsheet (Attachment 2) document the modeling study responding to the commenters. In addition, Eastman Chemical Company has proposed to install additional control equipment, which will reduce overall control emissions by 90 percent (Attachment 3).

ATTACHMENT 1

Cumulative PSD Increment Analysis with Revised Inventory

As was presented in the *Air Quality Permit Application Volume* 3 *(updated August 2007)*, the Class I SO_2 SILs are exceeded at the following areas: Great Smoky Mountains NP for 3-hr and 24-hr averages for all three years, Joyce Kilmer WA for 24-hr for 2003 and Linville Gorge WA for 3-hr and for 24-hr for all three years. The annual SIL is not exceeded at any of the Class I areas for any pollutant. A cumulative PSD increment analysis is necessary for all three Class I areas where the highest concentration exceeds the SILs.

The Class I PSD SO_2 inventory for the cumulative increment analysis was originally developed in a conservative manner. Emission inventories of PSD sources of SO_2 were developed based upon data provided by the eight states that lay within 300 km of these three Class I areas; AL, GA, KY, NC, SC, TN, VA, and WV. All these states, except VA, provided either a list of increment consumption, and expansion, for SO_2 or a list of PSD sources. VA PSD sources were determined by either examining permits or consultation with the DEQ. For any sources where the status was unknown, the source was assumed to consume increment.

PSD sources with emission rates greater than 0.1 g/s within 200 km and greater than 10 g/s within 300 km of each affected Class I area were considered in the cumulative PSD increment analysis. In addition, about 20 sources that were less than 10 g/s in the distance range from 200-300 km were added following the NPS guidance of including sources whose annual emissions exceeded 0.8D, where D is the distance from the source to a Class I area in kilometers.

Distances to the Class I areas were determined by identifying the center coordinates of each area and assigning a buffer radius that would encompass the boundaries of the Class I area. This is more conservative than calculating the closest point of the Class I area from each source. The buffer radius was set to 50 km for Great Smoky Mountains NP and 20 km for all other Class I areas. For example, the threshold distances plus 50 km were used to compare with the distance from each source to the center of the Great Smoky Mountains NP. Therefore, sources as far away as 250 km from the center of the park were evaluated as meeting the 200 km distance limit and sources up to 350 km away were judged to meet the 300 km threshold for inclusion in the cumulative modeling.

The approach to modeling the background inventory was conservative. For example, if it wasn't known whether a particular source was a PSD source or a NAAQS source, it was assumed to be a PSD source. Also, if a facility was identified as PSD, but not the specific sources at that facility, all the SO_2 sources in the facility were modeled as PSD for this analysis. Several of those sources at Eastman Chemical Company in Kingsport, TN, which were originally included as consuming increment, were later removed. Appendix A shows the correspondence from the Tennessee Air Pollution Control Board identifying the only two sulfur dioxide sources that consume increment at Eastman Chemical.

This original inventory was then supplemented by sources that consumed or expanded increment in counties of the Class I areas where the Minor Source Baseline Date (MiSBD) had been set. These were

identified as Monroe County, TN in Joyce Kilmer WA (set on January 17, 1979) and Cocke County, TN for Great Smoky Mountains NP (set on May 6, 1982). Increment is consumed if actual emissions have increased since the MiSBD and is expanded if actual emissions have decreased since the MiSBD. For conservatism, the supplementary inventory was modeled for all three Class I areas.

The supplemental inventory was prepared by ENSR. The methodology used to prepare the supplemental inventory is attached as Appendix B. If a source was included in both the ENSR inventory and the original inventory, the ENSR inventory source parameters were used. The supplemental inventory added 229 sources that were modeled for Great Smoky Mountains NP, 206 sources that were added for Joyce Kilmer WA, and 104 sources for Linville Gorge WA.

Table 1 shows the results of the cumulative PSD SO_2 analysis for each Class I area, including Project sources and all background PSD sources from both the original inventory and the supplemental inventory. The combinations where the highest project impacts are below the relevant SILs for the entire year are excluded, since by definition the project source could not contribute significantly to an exceedance for those cases. All predicted values are below the allowable PSD increment.

In conclusion, Project sources show compliance with the Class I PSD increments for NO_2, PM_{10} and SO_2 concentrations in the six Class I areas within the 300 km radius around the Project facility.

Table 1. Matrix of H2H Cumulative Predicted PSD SO2 Concentrations (3-hr and 24-hr) When the SILs Were Exceeded for Project Source Alone by Year and Class I Area (Project Source + All Relevant Background Sources (The inventory includes original inventory and supplemental inventory).

Averaging Period	3-hour			3-hr h2h	24-hour			24-hr h2h
Year	2001	2002	2003	($\mu g/m^3$)	2001	2002	2003	($\mu g/m^3$)
Class I areas								
Cohutta	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Great Smoky Mountains	18.70	18.58	16.80	18.70	3.03	2.84	3.50	3.50
James River Face	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Joyce Kilmer	N/A	N/A	N/A	N/A	N/A	N/A	3.90	3.90
Linville Gorge	11.74	10.94	11.28	11.74	3.56	2.97	3.00	3.56
Shining Rock	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Class I PSD Increment	25	25	25	25	5	5	5	5

Appendix A

Status of SO2 PSD Sources at Eastman Chemical Company

As confirmed by the Tennessee Air Pollution Control Division in the following e-mail, the only sources that consume SO_2 PSD increment at Eastman Chemical are the two coal-fired boilers 30 and 31. The interactive source inventory used in the Class I modeling conservatively included many sources that had not undergone PSD review.

```
-----Original Message-----
From: Haidar Alrawi [mailto:Haidar.Alrawi@state.tn.us]
Sent: Tuesday, December 12, 2006 4:27 PM
To: Main, Ted
Cc: John Trimmer
Subject: RE: Confirmation of specific PSD sources for Eastman Chemical

Mr. Main:
The SO2 minor source baseline date for Sullivan county (county no. 82) was
triggered on 12/11/1978.
After this date, the following sources went through PSD review:
Eastman source 82-0003-60, Polyester Polymer Manufacturing, went through PSD
for PM and VOC only.
Eastman source 82-0003-59, Gas-Fired Boilers F-001A, F-001B, and F-001C, went
through PSD for NOx only.

Eastman source 82-1010-15, Coal-Fired Boilers 30 and 31, went through PSD on
5/28/1980 for all criteria pollutants (i.e., PM, CO, NOx, VOC and
 SO2) with the exception of Lead. So, only this  source consumes SO2
increment. Current permit allowables for SO2 are 293 pounds-per-hour for
boiler #31, and 317 pounds-per- hour for boiler #30.

Please let me know if you need actual emission rates for these two boilers
and associated stack parameters for your proposed PSD increment modeling
analyses.

Please let me know if you have any other questions, or need additional
information.

Best regards,
Haidar


Haidar Al-Rawi, P.E.
Env. Protection Specialist 5
TN Air Pollution Control Division
(615) 532-0578 (voice)
(615) 532-0614 (fax)
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Appendix B

Documentation of PSD Class I Emissions Inventory Review and Additional Processing

Documentation of PSD Class I Emissions Inventory Review and Additional Processing

Lisa Engblom and Robert Paine
ENSR Corporation
December 20, 2006

Introduction

Dominion's proposed site for a new coal-fired power plant is in southwest Virginia, near Virginia City. As part of the proposal process, Dominion must perform a modeling analysis to determine the effects of the air emissions from the proposed facility on nearby parks, wilderness areas, and wildlife refuges classified as federal Class I areas. Six Class I areas are within 300 km of the proposed site: Cohutta Wilderness Area, Great Smoky Mountain National Park, James River Face Wilderness Area, Joyce Kilmer Wilderness Area, Linville Gorge Wilderness Area, and Shining Rock Wilderness Area. The modeling analysis must include emissions from all PSD increment-consuming facilities within 300 km of each Class I area, a total area which covers much of the southeastern United States. Due to the insignificant modeled impacts of NO_x and PM_{10} that will be emitted from the proposed source, a cumulative Class I analysis only needs to be performed for SO_2 emissions.

TRC constructed the cumulative SO_2 inventory for PSD increment consumption by contacting each affected state's environmental agency and requesting a comprehensive list of PSD increment consuming sources and their maximum potential emission rates. In general, this inventory includes emissions for facilities constructed after the major source baseline date for SO_2 (January 6, 1975). ENSR has reviewed this emissions inventory and has supplemented it with emissions from facilities constructed before the major source baseline date that have had increases in SO_2 emissions since any applicable minor source baseline date. ENSR has also reviewed maximum short-term emissions from the 2004-2005 period from electrical generating units (EGUs) with data available from EPA.

This report details the process that ENSR used to construct the final emissions inventory for SO_2 sources. The inventory includes all facilities that consume PSD increment and that are located within 300 km of at least one of the affected Class I areas. The final result is a list of emission rates applicable for modeling emissions at each Class I area.

Clean Air Markets and Data Processing

ENSR utilized the EPA's Clean Air Markets database[1] in order to identify additional facilities to include in the inventory and to supply data to calculate alternative emission rates. Clean Air Markets includes facilities that produce air emissions from fossil fuel combustion and participate in the EPA's Acid Rain Program and/or other cap-and-trade programs. The database includes information about the physical characteristics and history of each facility. It also supplies prepackaged data sets that include the hourly heat input, SO_2 emissions, and other parameters. Each data set is a comma-separated file (csv file) that includes emissions data for each

[1] http://cfpub.epa.gov/gdm/index.cfm?fuseaction=iss.isshome&CFID=10217260&CFTOKEN=10120960

facility and unit in a given state. They are available for download from the website as either monthly or quarterly files.

Due to the size of these files and the number of sources considered in this analysis, ENSR wrote programs in Python to extract the necessary data for analysis. Python is an open source programming language that is free to download and is compatible with most operating systems[2]. Python understands how to read csv files and identify each piece of information on a line. Each line in the csv files supplied by Clean Air Markets includes operating data from a particular unit for a single hour. A program was written to extract the necessary information for each facility under consideration for this analysis. The code for the program, "Extract SO2 and BTU", is included in a separate data CD. Extract SO2 and BTU reads in a csv file that identifies the state, facility name, and unit name of each source under consideration. It starts with the first facility and unit and opens each quarterly data file in 2004 for the appropriate state. It then goes through each line individually. If the facility name and unit name on that line of data match the desired facility and unit, it records the date, time, SO_2 emissions, and heat input. It writes the data to a new csv file, which eventually contains all the hourly emissions for that unit in 2004. The program then repeats the process to make a file of data for 2005. Then it advances to the next facility and unit and creates csv files containing its emissions for 2004 and 2005. At the end of the process there are csv files containing emissions data for 2004 and 2005 for every unit. This data is available on a separate CD in a file called "hourly data.zip". These files were used as the input files for all the subsequent analyses because they were much faster to read than the huge, quarterly database files.

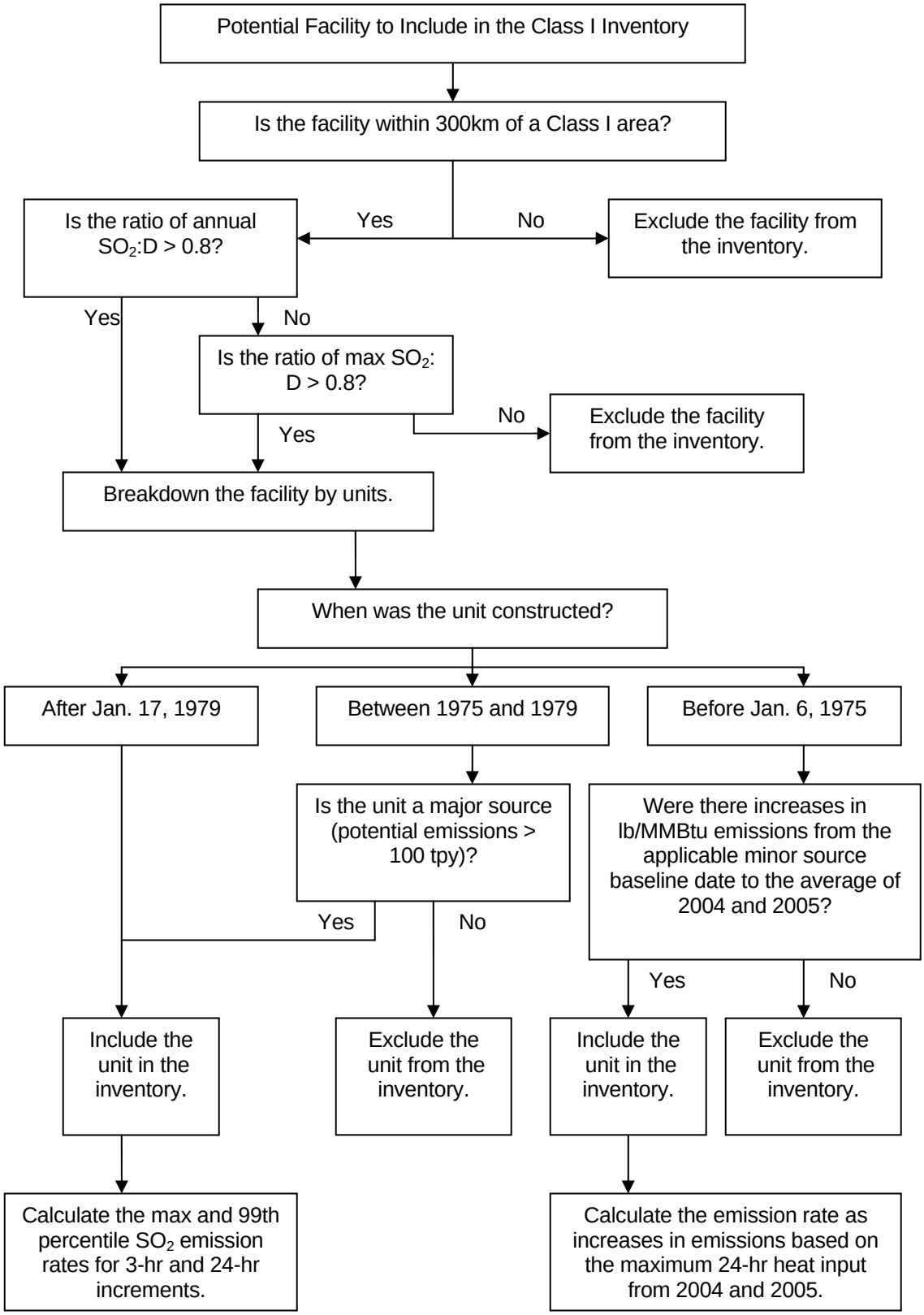
Process to Determine Facilities Consuming PSD Increment

Identify Potential Sources

The first step was to identify all potential sources. ENSR started with TRC's list of PSD sources from the inventories provided by the state agencies. TRC's inventory included all facilities located in a county that is within 300 km of a Class I area with SO_2 emissions greater than 0.1 g/s for those located up to 200km from a Class I area or greater than 10 g/s for those located 200 to 300 km from a Class I area. ENSR then looked at the EPA's Clean Air Markets database, and downloaded the locations of all facilities located in Alabama, Georgia, Kentucky, Maryland, Mississippi, Ohio, Pennsylvania, North Carolina, South Carolina, Virginia, and West Virginia. The two lists were combine to form a comprehensive list including facilities identified in TRC's list only, ENSR's list only, and those identified in both lists. Figure 1 shows the decision making process ENSR used to determine which facilities and emission rates to include in the inventory. Each step is described in detail below.

[2] http://www.Python.org/

Figure 1 – Decision tree for determining facilities to include in the Class I Inventory.



Source Locations

The Class I analysis must include facilities located within 300 km of a Class I area. TRC's inventory identified the location of each facility in Lambert Conformal coordinates. The locations of the facilities in the Clean Air Market's database are provided as latitude and longitude. All of the facilities were plotted in Arcmap. Facilities that were not within 300 km of any of the Class I areas were eliminated from consideration. All other facilities remained potential sources. A few of the facilities identified on TRC's list were eliminated from consideration at this point. The facilities are located in a county which is within 300 km of a Class I area, but the facility itself is outside the boundary. Figure 2 shows the location of each Class I area. The facilities shown on the map are the facilities whose emissions will be included in the model, not the comprehensive list.

SO_2 Thresholds

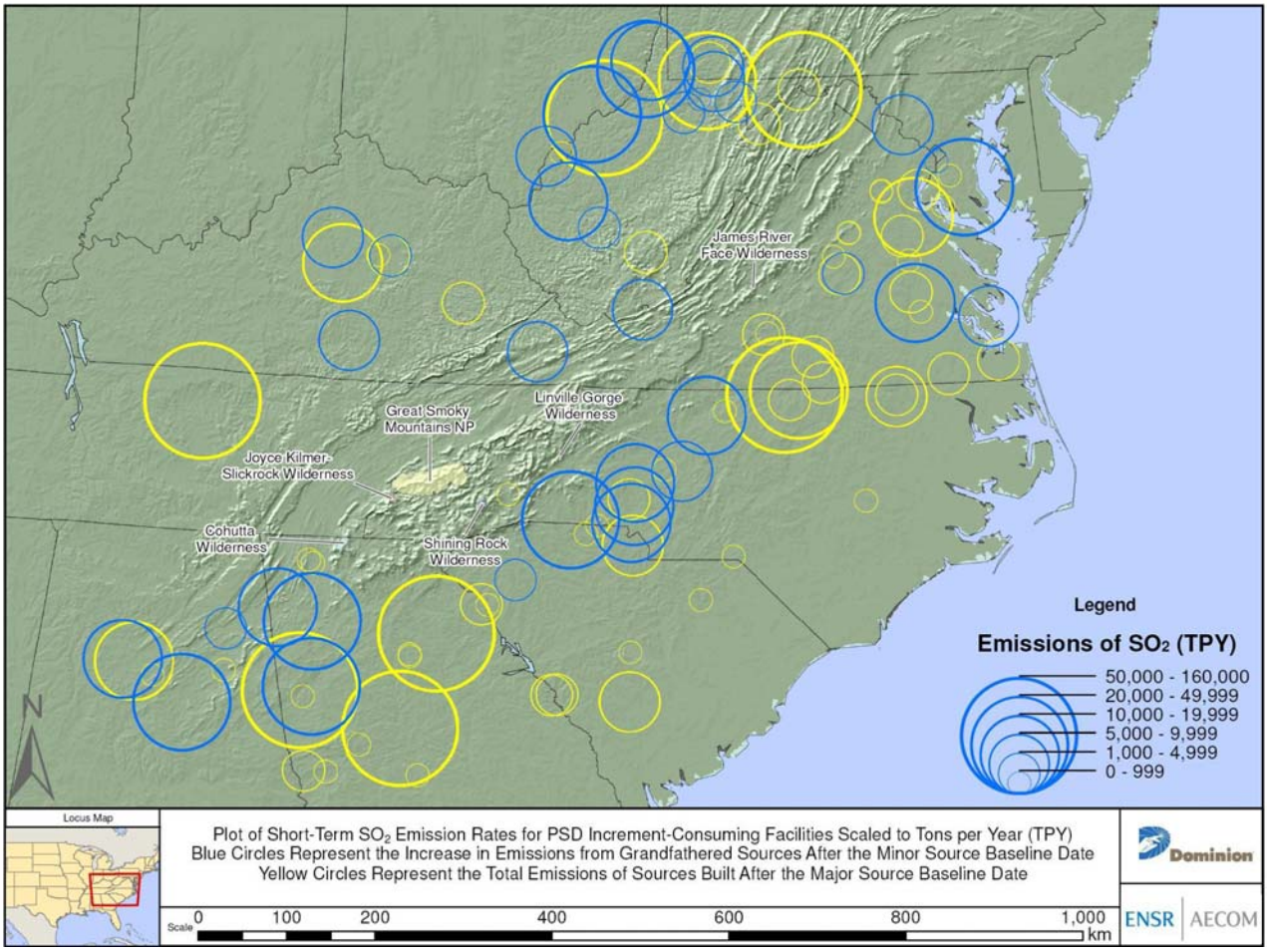
The next step was to consider if the SO_2 emissions are above the thresholds for inclusion in the inventory. ENSR received a clarification on applicable thresholds for facilities at different distances from Class I areas from the NPS. Don Shepherd defined the threshold for SO_2 as 0.8D, where D is the distance from a Class I area in kilometers. The SO_2 emission rate represents short-term emissions, but it must be expressed as tons per year. ENSR proceeded with the analysis using this function as the applicable threshold.

All of the facilities' coordinates were converted to UTM coordinates to calculate their distance from each class I area. Because the facilities cover such a large area, their standard UTM coordinates include facilities from zones 16, 17, and 18. However, coordinates must be in a consistent UTM zone in order to accurately calculate distance. Arcmap was used to convert all of the locations to NAD83 UTM coordinates in zone 17. The location of the Class I areas was more difficult to specify because they cover a large area. However, there are standard modeling receptor locations for each Class I area. Each receptor location was also converted to NAD83 UTM coordinates in zone 17.

Clean Air Markets provides information about annual and hourly emissions from the facilities in the database. First, ENSR downloaded the annual SO_2 emissions for each facility. A Python program was written to identify the receptor closest from each Class I area closest to each facility and to calculate the distance from the receptor to the facility and the threshold SO_2 emission rate. The code for the program, "Distance to Class I.py" is included on the data CD. The program reads in the location of each receptor in each Class I area. Then it reads in a file containing a list of each facility, its location, and the average of its actual SO_2 emissions for 2004 and 2005. For each Class I area, it calculates the distance from each facility to each receptor, and reports the name of the closest receptor, the distance from the receptor to the facility, and the ratio of the SO_2 emission rate to the distance.

If the ratio of SO_2 emissions (Q, tons per year) to distance (D, kilometers) was greater than 0.8, the facility could not be excluded from the inventory based on its emission rate. However, the threshold SO_2 emission rate is intended to represent short term emissions, not annual emissions. For those facilities that had Q/D ratios less than 0.8 using the annual emissions, ENSR determined a new ratio using the short-term emissions. A Python program was written to calculate the maximum short term emission rate for each facility. This program is called "Calculate Facility Max.py", and the code is included on a separate data CD. The program reads in a list of facilities and units. It determines the maximum 3-hr emission rate for each unit in the list. Then it sums the maximum emission rate for each unit of a given facility, and outputs the sum as the maximum short-term emission rate for the facility. A new ratio of Q/D was calculated using this emission rate and the minimum distance to a Class I area, which was already calculated. If the ratio was less than 0.8, the facility was excluded from the database. A few facilities with ratios slightly less than 0.8 were also included to be conservative.

Figure 2 – Plot of the location of the six Class I areas and the location and emission rates of each facility included in the inventory.



Construction Date

The next step was to break down the remaining facilities by their units and to determine the construction date of each unit. The Clean Air Markets database includes the date that each unit began operating and if it is currently operating or retired. All retired units were excluded from the inventory. For the remaining units, ENSR assumed that the permit to construct was issued three to five years before the unit began operating. Each unit was classified as being constructed before the major source baseline date (January 6, 1975), after the earliest applicable minor source baseline date (January 17, 1979), or between the two. If the operational date was within 3 to 5 years of either the major or minor source baseline date, ENSR attempted to determine the actual date that the permit to construct was issued. This information is included in some Title V permits and can be provided by some state agencies. If no records of the actual construction date were available, ENSR classified the unit as being part of the more recent category. This method will cause the unit to be modeled with more conservative emission rates.

Processing for Sources Constructed After Earliest Minor Source Baseline Date

The maximum and 99th percentile emission rates were calculated for actual SO_2 emissions in 3-hr increments and 24-hr increments for all units in the Clean Air Markets database which were constructed after the earliest minor source baseline date. The Python program "Calculate Max" was written to calculate the maximum emission rate and is included on a separate data CD. For each unit, this program reads in the hourly data files that were created by "Extract SO2 and BTU" and stores the SO_2 data for 2004 and 2005. It then calculates and stores block averages of this data in 3-hr and 24-hr increments. It finds the maximum value from each list, and calculates the average of the 2004 and 2005 maximum value for the hourly, 3-hr, and 24-hr data. Then it outputs all the maximum values and averages to a csv file. The final result is a single csv file that contains the maximum hourly SO_2 emission rate in lb/hr for 2004, 2005, and the average for the hourly data, the 3-hr increments, and the 24-hr increments of each unit.

A very similar program, "Calculate 99th P", was written to calculate the 99th percentile emission rate for each PSD unit in 3-hr and 24-hr increments. The code for Calculate 99th P is also included on a separate data CD. It uses the same algorithm to read in the hourly SO_2 data and create block averages in 3-hr and 24-hr increments. Then, instead of finding the maximum value, it determines the 99th percentile emission rate of the non-zero emissions. Any data from when the plant was not operating was omitted from the calculation. The final result is a single csv file that contains the 99th percentile emission rate in lb/hr for 2004, 2005, and the average for the hourly data for the 3-hr increments, and the 24-hr increments of each PSD unit. The maximum and 99th percentile emission rates are summarized in the file "Dominion SWVA PSD 99thP inventory.xls", which is included on a separate data CD.

The final step was to create graphs that illustrate the emissions from each facility and the 99th percentile value. A Python program called, "Hourly Bar Charts", was written to create these plots. It utilizes the Python module matplotlib[3] to generate the plots. The code for this program is also included on a separate data CD. It uses the same algorithm as Calculate 99th P to determine the 3-hr and 24-hr emission rates for 2004 and 2005 and calculate the 99th percentile of that data. Then it creates a bar chart for each set of data. Each bar on the chart represents a single increment of emissions. Any increments with no emissions were excluded from the chart. The program then draws a red, horizontal line across the chart to represent the 99th percentile value and prints the value of the 99th percentile in the upper left hand corner of the plot. The final result of this program is a plot of emissions in 3-hr increments for 2004, a plot of emissions in 3-hr increments for 2005, a plot of emissions in 24-hr increments for 2004, and a plot of emissions in 24-hr increments for 2005 for each PSD unit. All of the plots are included on the separate data CD in a file called "Dominion SWVA PSD hourly SO_2 graphs.zip".

Processing for Sources Constructed Between the Major Source Baseline Date and the Earliest Minor Source Baseline Date

The PSD increment for major sources is affected by changes since the major source baseline data. Likewise, the PSD increment is affected by changes in minor sources by changes since the minor source baseline date. Therefore, the emissions from all units constructed after the minor source baseline date consume PSD increment. However, the emissions from units constructed between the two baseline dates affect increment only if the facility is a major source. In this case, the maximum and 99th percentile emission rates were calculated and plots were generated for the 3-hr and 24-hr emissions. The resulting emissions are included in "Dominion SWVA PSD 99thP inventory.xls", and the plots are include in "Dominion SWVA PSD hourly SO2 graphs.zip". All of the sources with construction dates between the major and minor source baseline dates

[3] http://matplotlib.sourceforge.net/

had actual annual emissions greater than 100 tons per year, so they were major sources of SO_2. However, if any units were minor sources, they would not be included in this inventory.

Processing for Sources Constructed before the Major Source Baseline Date

Emissions from sources constructed before the major source baseline date (Jan 6, 1975) can be excluded from the Class I analysis unless they have increased since the minor source baseline date, based upon "current" emissions for the latest 2-year period available (2004-2005). As described above, the earliest minor source baseline date for SO_2 associated with any of the Class I areas is January 17th, 1979 from Monroe County near Joyce Kilmer. However, each Class I area has a separate minor source baseline date. The dates for Cohutta, James River Face, Great Smoky Mountain, and Shining Rock are: August 17, 2000; November 21, 1991; May 6, 1982; and July 31, 1984. The minor source baseline date has not been triggered yet for Linville Gorge.

The baseline emission rate should be the average emission rate for the two years preceding the minor source baseline date. However, Clean Air Markets includes emissions every five years from 1980 to 1995 and annually starting in 1995. Therefore, the best available data was used to define the baseline emission rate. The emission rate from 1980 was used for Great Smoky Mountain, Joyce Kilmer, and Shining Rock. The emission rate from 1990 was used for James River Face, and the average of the emission rates from 1998 and 1999 were used as the baseline for Cohutta. This results in three possible baseline periods. No emissions from units constructed before the major source baseline date need to be modeled for Linville Gorge because the minor source baseline date has not been triggered yet.

The SO_2 emission rate was calculated in lb/MMBtu by dividing the annual SO_2 emissions by the annual heat input. This calculation was performed for each baseline emission rate and the current emission rate of each unit. The current emission rate was approximated as the average of the emission rates from 2004 and 2005. The emissions from a unit should be included in the inventory if there was an increase in emission rate from the baseline rate to the current rate. If the emission rate decreased from all three possible baseline emission rates to the current emission rates, then emissions from that unit were excluded from the inventory (although it could later be modeled as an increment-expanding source). Otherwise, the emissions were included for the Class I areas associated with each baseline date that showed an increase. For example, if the emission rates were 0.76, 0.68, 0.60, and 0.63 for 1980, 1990, 1998/1999, and 2004/2005, then emissions must be modeled for Cohutta only. The emission rate only increase from the 1998/1999 value, which is associated with Cohutta. The emission rate decreased from all the other baseline rates.

Emissions from units whose emission rates decreased could potentially also be included in the inventory. These sources would have negative emission rates, and would expand the PSD increment. ENSR did not introduce this extra complexity to the inventory, but the information is available if it becomes necessary.

The emission rate in lb/hr was calculated by multiplying the change in emission rate from the applicable minor source baseline rate to the current emission rate by the maximum 24-hr input from 2004 or 2005. A Python program, "Calculate Heat Input Max Day" was written to calculate the maximum day heat input. The program reads a list of facilities and units. For each unit, it opens the data files for 2004 and 2005 and stores all the hourly heat inputs in a list. It calculates 24-hr block averages of heat input, and finds the maximum value. The final result is an output csv file that lists the maximum day heat input for each unit. These values were then used to calculate emission rates for each unit and each applicable Class I area.

Processing for Facilities not Included in Clean Air Markets

There was a group of sources that was included in the inventory TRC compiled from inventories provided by the state that are not included in Clean Air Markets. About 30 of these sources passed the screening tests that they were within 300 km of a Class I area and had emissions greater than 0.8D. The emission rates

included in the original inventory were included unchanged because no data was available to calculate an alternative emission rate.

Final Documentation and Results

The file "Dominion SWVA Class I Documentation.xls", documents each step of this process. The worksheet "Summary" lists every facility that was considered for inclusion in the inventory, the source of the data, whether or not it was included in the inventory, and a brief description of the basis of the determination. The worksheets "Dist. From Class I", "SO2 Threshold", "SO2 Threshold 2", "Const. Date", and "Increases" describe the data and calculations behind why sources were eliminated from the analysis. The other worksheets include background information necessary for the determinations.

The file "Dominion SWVA Class I Emission Rates.xls" includes the calculated emission rates for each unit in the inventory. It includes separate worksheets for each type of emission calculation performed: facilities constructed after the major source baseline date, facilities constructed before the major source baseline date, and facilities that were included in TRC's inventory but not in Clean Air Markets. The worksheet "Summary" is the compiled list of all emission rates to include in the modeling for each Class I area. The emission rates for units constructed after the major source baseline date and units included only in TRC's inventory are the same for each Class I area. For the facilities constructed after the major source baseline date, the maximum emission rates were included on the summary worksheet. The 99th percentile emission rates were also provided could be substituted as necessary on a case by case basis. The emission rates for units constructed before the major source baseline date depend on the increase in emissions from the baseline emission rate, so they vary by Class I area. For simplicity, an emission rate for each unit was included on this worksheet, regardless of its distance from each Class I area. However, an * follows the emission rate when a given unit is further than 300 km from a Class I area. These units could be excluded from modeling that Class I area if necessary.

The file "Dominion SWVA SO2 emissions plot.jpg" shows the location of each facility included in the inventory and its SO_2 emissions. The same plot is shown in Figure 2. Facilities constructed before the major source baseline date are blue, and facilities constructed after the major source baseline date are yellow. The emissions shown for facilities constructed after the major source baseline date are the maximum 24-hr increment value. For facilities constructed before the major source baseline date, the emissions shown are the maximum increase from any of the baseline emission rates to the current emission rates. All emission rates were converted from lb/hr to ton/year.

ATTACHMENT 2

Summary of SO_2 Emission Rates for All Units in lb/hr

(Emission Rates followed by * can be excluded from the model because the distance from the unit to the Class I area is greater than 300km)

State	Facility	Unit	Data Source	Emissions Calculation Type	SO2 Emissions: 3-hr Increments [lb/hr]						SO2 Emissions: 24-hr Increments [lb/hr]					
					Cohutta	GSM	James River	Joyce Kilmer	Linville Gorge	Shining Rock	Cohutta	GSM	James River	Joyce Kilmer	Linville Gorge	Shining Rock
AL	ALABAMA POWER COMPANY (POWELL AVENUE STEAM PLANT)	?	TRC	TRC only	79.7	79.7	79.7 *	79.7	79.7 *	79.7 *	79.7	79.7	79.7 *	79.7	79.7 *	79.7 *
AL	Calhoun Power Company I, LLC	CT1	ENSR	Post MaSBD	105	105	105 *	105	105 *	105 *	44.3	44.3	44.3 *	44.3	44.3 *	44.3 *
AL	Calhoun Power Company I, LLC	CT2	ENSR	Post MaSBD	50.0	50.0	50.0 *	50.0	50.0 *	50.0 *	24.6	24.6	24.6 *	24.6	24.6 *	24.6 *
AL	Calhoun Power Company I, LLC	CT3	ENSR	Post MaSBD	60.3	60.3	60.3 *	60.3	60.3 *	60.3 *	28.9	28.9	28.9 *	28.9	28.9 *	28.9 *
AL	Calhoun Power Company I, LLC	CT4	ENSR	Post MaSBD	97.0	97.0	97.0 *	97.0	97.0 *	97.0 *	33.3	33.3	33.3 *	33.3	33.3 *	33.3 *
AL	E C Gaston	1	ENSR	Pre MaSBD	1,118	-2,194 *	-3,394 *	-2,194 *	0.0 *	-2,194 *	1,118	-2,194 *	-3,394 *	-2,194 *	0.0 *	-2,194 *
AL	E C Gaston	2	ENSR	Pre MaSBD	1,542	-2,615 *	-4,058 *	-2,615 *	0.0 *	-2,615 *	1,542	-2,615 *	-4,058 *	-2,615 *	0.0 *	-2,615 *
AL	E C Gaston	3	ENSR	Pre MaSBD	1,818	-2,515 *	-4,037 *	-2,515 *	0.0 *	-2,515 *	1,818	-2,515 *	-4,037 *	-2,515 *	0.0 *	-2,515 *
AL	E C Gaston	4	ENSR	Pre MaSBD	1,545	-2,211 *	-3,535 *	-2,211 *	0.0 *	-2,211 *	1,545	-2,211 *	-3,535 *	-2,211 *	0.0 *	-2,211 *
AL	E C Gaston	5	ENSR	Pre MaSBD	5,087	-8,646 *	-13,789 *	-8,646 *	0.0 *	-8,646 *	5,087	-8,646 *	-13,789 *	-8,646 *	0.0 *	-8,646 *
AL	Gadsden	1	ENSR	Pre MaSBD	-26	169	-69 *	169	0.0 *	169 *	-26	169	-69 *	169	0.0 *	169 *
AL	Gadsden	2	ENSR	Pre MaSBD	28.4	237	2.5 *	237	0.0 *	237 *	28.4	237	2.5 *	237	0.0 *	237 *
AL	Gorgas	6	ENSR	Pre MaSBD	-440	1,318	1,363 *	1,318	0.0 *	1,318 *	-440	1,318	1,363 *	1,318	0.0 *	1,318 *
AL	Gorgas	7	ENSR	Pre MaSBD	-520	1,447	1,496 *	1,447	0.0 *	1,447 *	-520	1,447	1,496 *	1,447	0.0 *	1,447 *
AL	Gorgas	8	ENSR	Pre MaSBD	-727	245	-1,610 *	245	0.0 *	245 *	-727	245	-1,610 *	245	0.0 *	245 *
AL	Gorgas	9	ENSR	Pre MaSBD	-656	197	-1,661 *	197	0.0 *	197 *	-656	197	-1,661 *	197	0.0 *	197 *
AL	Gorgas	10	ENSR	Pre MaSBD	-7,588	-4,473	-11,275 *	-4,473	0.0 *	-4,473 *	-7,588	-4,473	-11,275 *	-4,473	0.0 *	-4,473 *
AL	James H Miller Jr / ALABAMA POWER COMPANY (MILLER POWER PLANT)	1	ENSR	Post MaSBD	5,947	5,947	5,947 *	5,947	5,947 *	5,947 *	4,947	4,947	4,947 *	4,947	4,947 *	4,947 *
AL	James H Miller Jr / ALABAMA POWER COMPANY (MILLER POWER PLANT)	2	ENSR / TRC	Post MaSBD	6,338	6,338	6,338 *	6,338	6,338 *	6,338 *	4,976	4,976	4,976 *	4,976	4,976 *	4,976 *
AL	James H Miller Jr / ALABAMA POWER COMPANY (MILLER POWER PLANT)	3	ENSR / TRC	Post MaSBD	6,034	6,034	6,034 *	6,034	6,034 *	6,034 *	5,090	5,090	5,090 *	5,090	5,090 *	5,090 *
AL	James H Miller Jr / ALABAMA POWER COMPANY (MILLER POWER PLANT)	4	ENSR / TRC	Post MaSBD	6,250	6,250	6,250 *	6,250	6,250 *	6,250 *	5,398	5,398	5,398 *	5,398	5,398 *	5,398 *
AL	Widows Creek	1	ENSR	Pre MaSBD	-254	-2,126	-1,096 *	-2,126	0.0 *	-2,126	-254	-2,126	-1,096 *	-2,126	0.0 *	-2,126
AL	Widows Creek	2	ENSR	Pre MaSBD	-293	-2,219	-1,156 *	-2,219	0.0 *	-2,219	-293	-2,219	-1,156 *	-2,219	0.0 *	-2,219
AL	Widows Creek	3	ENSR	Pre MaSBD	-257	-2,168	-1,122 *	-2,168	0.0 *	-2,168	-257	-2,168	-1,122 *	-2,168	0.0 *	-2,168
AL	Widows Creek	4	ENSR	Pre MaSBD	-276	-2,322	-1,198 *	-2,322	0.0 *	-2,322	-276	-2,322	-1,198 *	-2,322	0.0 *	-2,322
AL	Widows Creek	5	ENSR	Pre MaSBD	-286	-2,254	-1,161 *	-2,254	0.0 *	-2,254	-286	-2,254	-1,161 *	-2,254	0.0 *	-2,254
AL	Widows Creek	6	ENSR	Pre MaSBD	-296	-2,365	-1,225 *	-2,365	0.0 *	-2,365	-296	-2,365	-1,225 *	-2,365	0.0 *	-2,365
AL	Widows Creek	7	ENSR	Pre MaSBD	-464	-11,285	-348 *	-11,285	0.0 *	-11,285	-464	-11,285	-348 *	-11,285	0.0 *	-11,285
AL	Widows Creek	8	ENSR	Pre MaSBD	-1,743	-1,497	-833 *	-1,497	0.0 *	-1,497	-1,743	-1,497	-833 *	-1,497	0.0 *	-1,497
GA	AUGUSTA ENERGY, LLC	3 CT Sets	TRC	TRC only	297	297	297 *	297	297	297	297	297	297 *	297	297	297
GA	Bowen	1BLR	ENSR	Pre MaSBD	1,600	-9,308	-6,506 *	-9,308	0.0 *	-9,308	1,600	-9,308	-6,506 *	-9,308	0.0 *	-9,308
GA	Bowen	2BLR	ENSR	Pre MaSBD	1,618	-9,405	-6,445 *	-9,405	0.0 *	-9,405	1,618	-9,405	-6,445 *	-9,405	0.0 *	-9,405
GA	Bowen	3BLR	ENSR	Pre MaSBD	1,914	-10,838	-7,843 *	-10,838	0.0 *	-10,838	1,914	-10,838	-7,843 *	-10,838	0.0 *	-10,838
GA	Bowen	4BLR	ENSR	Pre MaSBD	1,867	-11,331	-8,188 *	-11,331	0.0 *	-11,331	1,867	-11,331	-8,188 *	-11,331	0.0 *	-11,331
GA	CATAULA GENERATING COMPANY	T1-T4	TRC	TRC only	422	422 *	422 *	422 *	422 *	422 *	422	422 *	422 *	422 *	422 *	422 *
GA	*Dahlberg (Jackson County) / GEORGIA POWER CO*	*1*	*ENSR*	Post MaSBD	*2.1*	*2.1*	*2.1 *	*2.1*	*2.1*	*2.1*	*0.7*	*0.7*	*0.7 *	*0.7*	*0.7*	*0.7*
GA	*Dahlberg (Jackson County) / GEORGIA POWER CO*	*2*	*ENSR*	Post MaSBD	*2.1*	*2.1*	*2.1 *	*2.1*	*2.1*	*2.1*	*0.7*	*0.7*	*0.7 *	*0.7*	*0.7*	*0.7*
GA	*Dahlberg (Jackson County) / GEORGIA POWER CO*	*3*	*ENSR*	Post MaSBD	*2.1*	*2.1*	*2.1 *	*2.1*	*2.1*	*2.1*	*0.7*	*0.7*	*0.7 *	*0.7*	*0.7*	*0.7*
GA	*Dahlberg (Jackson County) / GEORGIA POWER CO*	*4*	*ENSR*	Post MaSBD	*2.1*	*2.1*	*2.1 *	*2.1*	*2.1*	*2.1*	*0.7*	*0.7*	*0.7 *	*0.7*	*0.7*	*0.7*
GA	*Dahlberg (Jackson County) / GEORGIA POWER CO*	*5*	*ENSR*	Post MaSBD	*2.1*	*2.1*	*2.1 *	*2.1*	*2.1*	*2.1*	*0.7*	*0.7*	*0.7 *	*0.7*	*0.7*	*0.7*
GA	*Dahlberg (Jackson County) / GEORGIA POWER CO*	*6*	*ENSR*	Post MaSBD	*2.1*	*2.1*	*2.1 *	*2.1*	*2.1*	*2.1*	*0.7*	*0.7*	*0.7 *	*0.7*	*0.7*	*0.7*
GA	*Dahlberg (Jackson County) / GEORGIA POWER CO*	*7*	*ENSR*	Post MaSBD	*2.1*	*2.1*	*2.1 *	*2.1*	*2.1*	*2.1*	*0.7*	*0.7*	*0.7 *	*0.7*	*0.7*	*0.7*
GA	*Dahlberg (Jackson County) / GEORGIA POWER CO*	*8*	*ENSR*	Post MaSBD	*2.1*	*2.1*	*2.1 *	*2.1*	*2.1*	*2.1*	*0.7*	*0.7*	*0.7 *	*0.7*	*0.7*	*0.7*
GA	*Dahlberg (Jackson County) / GEORGIA POWER CO*	*9*	*ENSR*	Post MaSBD	*2.1*	*2.1*	*2.1 *	*2.1*	*2.1*	*2.1*	*0.7*	*0.7*	*0.7 *	*0.7*	*0.7*	*0.7*
GA	*Dahlberg (Jackson County) / GEORGIA POWER CO*	*10*	*ENSR*	Post MaSBD	*2.1*	*2.1*	*2.1 *	*2.1*	*2.1*	*2.1*	*0.7*	*0.7*	*0.7 *	*0.7*	*0.7*	*0.7*
GA	*Dahlberg (Jackson County) / GEORGIA POWER CO*	*11*	*ENSR*	Post MaSBD	*2.1*	*2.1*	*2.1 *	*2.1*	*2.1*	*2.1*	*0.7*	*0.7*	*0.7 *	*0.7*	*0.7*	*0.7*
GA	*Dahlberg (Jackson County) / GEORGIA POWER CO*	*12*	*ENSR*	Post MaSBD	*2.1*	*2.1*	*2.1 *	*2.1*	*2.1*	*2.1*	*0.7*	*0.7*	*0.7 *	*0.7*	*0.7*	*0.7*
GA	*Dahlberg (Jackson County) / GEORGIA POWER CO*	*13*	*ENSR*	Post MaSBD	*2.1*	*2.1*	*2.1 *	*2.1*	*2.1*	*2.1*	*0.7*	*0.7*	*0.7 *	*0.7*	*0.7*	*0.7*
GA	*Dahlberg (Jackson County) / GEORGIA POWER CO*	*14*	*ENSR*	Post MaSBD	*2.1*	*2.1*	*2.1 *	*2.1*	*2.1*	*2.1*	*0.7*	*0.7*	*0.7 *	*0.7*	*0.7*	*0.7*
GA	*Dahlberg (Jackson County) / GEORGIA POWER CO*	*15*	*ENSR*	Post MaSBD	*2.1*	*2.1*	*2.1 *	*2.1*	*2.1*	*2.1*	*0.7*	*0.7*	*0.7 *	*0.7*	*0.7*	*0.7*
GA	*Dahlberg (Jackson County) / GEORGIA POWER CO*	*16*	*ENSR*	Post MaSBD	*2.1*	*2.1*	*2.1 *	*2.1*	*2.1*	*2.1*	*0.7*	*0.7*	*0.7 *	*0.7*	*0.7*	*0.7*
GA	Hammond	1	ENSR	Pre MaSBD	444	-933	-810 *	-933	0.0 *	-933	444	-933	-810 *	-933	0.0 *	-933
GA	Hammond	2	ENSR	Pre MaSBD	480	-1,073	-933 *	-1,073	0.0 *	-1,073	480	-1,073	-933 *	-1,073	0.0 *	-1,073
GA	Hammond	3	ENSR	Pre MaSBD	438	-896	-775 *	-896	0.0 *	-896	438	-896	-775 *	-896	0.0 *	-896
GA	Hammond	4	ENSR	Pre MaSBD	1,734	-4,426	-3,806 *	-4,426	0.0 *	-4,426	1,734	-4,426	-3,806 *	-4,426	0.0 *	-4,426
GA	Harllee Branch	1	ENSR	Pre MaSBD	-975	-374	-419 *	-374	0.0 *	-374	-975	-374	-419 *	-374	0.0 *	-374
GA	Harllee Branch	2	ENSR	Pre MaSBD	-750	-282	-317 *	-282	0.0 *	-282	-750	-282	-317 *	-282	0.0 *	-282

GA	Harllee Branch	3	ENSR	Pre MaSBD	-1,537	-756	-877 *	-756	0.0 *	-756	-1,537	-756	-877 *	-756	0.0 *	-756
GA	Harllee Branch	4	ENSR	Pre MaSBD	-877	-460	-550 *	-460	0.0 *	-460	-877	-460	-550 *	-460	0.0 *	-460
GA	Hartwell Energy Facility / HARTWELL ENERGY CENTER & HARTWELL ENERGY LP	MAG1	ENSR / TRC	Post MaSBD	74.4	74.4	74.4 *	74.4	74.4	74.4	14.9	14.9	14.9 *	14.9	14.9	14.9
GA	Hartwell Energy Facility / HARTWELL ENERGY CENTER & HARTWELL ENERGY LP	MAG2	ENSR / TRC	Post MaSBD	49.0	49.0	49.0 *	49.0	49.0	49.0	11.0	11.0	11.0 *	11.0	11.0	11.0
GA	Hartwell Energy Facility / HARTWELL ENERGY CENTER & HARTWELL ENERGY LP	T1 & T2	TRC	TRC only	93.9	93.9	93.9 *	93.9	93.9	93.9	93.9	93.9	93.9 *	93.9	93.9	93.9
GA	Jack McDonough	MB1	ENSR	Pre MaSBD	-375	-4,672	-5,637 *	-4,672	0.0 *	-4,672	-375	-4,672	-5,637 *	-4,672	0.0 *	-4,672
GA	Jack McDonough	MB2	ENSR	Pre MaSBD	-300	-3,918	-4,732 *	-3,918	0.0 *	-3,918	-300	-3,918	-4,732 *	-3,918	0.0 *	-3,918
GA	Mirant West Georgia Generating Co. / WEST GEORGIA GENERATING CO	1	ENSR / TRC	Post MaSBD	39.0	39.0	39.0 *	39.0	39.0 *	39.0 *	7.1	7.1	7.1 *	7.1	7.1 *	7.1 *
GA	Mirant West Georgia Generating Co. / WEST GEORGIA GENERATING CO	2	ENSR / TRC	Post MaSBD	39.5	39.5	39.5 *	39.5	39.5 *	39.5 *	6.6	6.6	6.6 *	6.6	6.6 *	6.6 *
GA	Mirant West Georgia Generating Co. / WEST GEORGIA GENERATING CO	3	ENSR / TRC	Post MaSBD	33.1	33.1	33.1 *	33.1	33.1 *	33.1 *	5.9	5.9	5.9 *	5.9	5.9 *	5.9 *
GA	Mirant West Georgia Generating Co. / WEST GEORGIA GENERATING CO	4	ENSR / TRC	Post MaSBD	18.1	18.1	18.1 *	18.1	18.1 *	18.1 *	2.3	2.3	2.3 *	2.3	2.3 *	2.3 *
GA	MPC Generating, LLC / MONROE POWER COMPANY	1	ENSR / TRC	Post MaSBD	4.1	4.1	4.1 *	4.1	4.1	4.1	0.7	0.7	0.7 *	0.7	0.7	0.7
GA	MPC Generating, LLC / MONROE POWER COMPANY	2	ENSR	Post MaSBD	58.0	58.0	58.0 *	58.0	58.0	58.0	7.4	7.4	7.4 *	7.4	7.4	7.4
GA	MUNICIPAL ELECTRIC AUTHORITY OF GEORGIA	CTG Unit 3	TRC	TRC only	93.9	93.9	93.9 *	93.9	93.9	93.9	93.9	93.9	93.9 *	93.9	93.9	93.9
GA	Murray Energy Facility / DUKE ENERGY MURRAY, L.L.C	CCCT1	ENSR	Post MaSBD	1.4	1.4	1.4 *	1.4	1.4 *	1.4	0.9	0.9	0.9 *	0.9	0.9 *	0.9
GA	Murray Energy Facility / DUKE ENERGY MURRAY, L.L.C	CCCT2	ENSR	Post MaSBD	1.4	1.4	1.4 *	1.4	1.4 *	1.4	0.9	0.9	0.9 *	0.9	0.9 *	0.9
GA	Murray Energy Facility / DUKE ENERGY MURRAY, L.L.C	CCCT3	ENSR	Post MaSBD	1.4	1.4	1.4 *	1.4	1.4 *	1.4	0.8	0.8	0.8 *	0.8	0.8 *	0.8
GA	Murray Energy Facility / DUKE ENERGY MURRAY, L.L.C	CCCT4	ENSR / TRC	Post MaSBD	1.4	1.4	1.4 *	1.4	1.4 *	1.4	0.8	0.8	0.8 *	0.8	0.8 *	0.8
GA	PILOTS ENERGY, INC	B1 to B4	TRC	TRC only	39.8	39.8	39.8 *	39.8	39.8 *	39.8	39.8	39.8	39.8 *	39.8	39.8 *	39.8
GA	Robins / GEORGIA POWER CO	CT1	ENSR	Post MaSBD	266	266 *	266 *	266 *	266 *	266 *	91.7	91.7 *	91.7 *	91.7 *	91.7 *	91.7 *
GA	Robins / GEORGIA POWER CO	CT2	ENSR / TRC	Post MaSBD	236	236 *	236 *	236 *	236 *	236 *	53.4	53.4 *	53.4 *	53.4 *	53.4 *	53.4 *
GA	Scherer	1	ENSR	Post MaSBD	8,981	8,981	8,981 *	8,981	8,981 *	8,981	7,361	7,361	7,361 *	7,361	7,361 *	7,361
GA	Scherer	2	ENSR	Post MaSBD	9,984	9,984	9,984 *	9,984	9,984 *	9,984	7,932	7,932	7,932 *	7,932	7,932 *	7,932
GA	Scherer	3	ENSR	Post MaSBD	9,243	9,243	9,243 *	9,243	9,243 *	9,243	8,090	8,090	8,090 *	8,090	8,090 *	8,090
GA	Scherer	4	ENSR	Post MaSBD	8,677	8,677	8,677 *	8,677	8,677 *	8,677	7,636	7,636	7,636 *	7,636	7,636 *	7,636
GA	Talbot Energy Facility	1	ENSR	Post MaSBD	0.7	0.7 *	0.7 *	0.7 *	0.7 *	0.7 *	0.2	0.2 *	0.2 *	0.2 *	0.2 *	0.2 *
GA	Talbot Energy Facility	2	ENSR	Post MaSBD	0.7	0.7 *	0.7 *	0.7 *	0.7 *	0.7 *	0.2	0.2 *	0.2 *	0.2 *	0.2 *	0.2 *
GA	Talbot Energy Facility	3	ENSR	Post MaSBD	0.6	0.6 *	0.6 *	0.6 *	0.6 *	0.6 *	0.2	0.2 *	0.2 *	0.2 *	0.2 *	0.2 *
GA	Talbot Energy Facility	4	ENSR	Post MaSBD	0.6	0.6 *	0.6 *	0.6 *	0.6 *	0.6 *	0.3	0.3 *	0.3 *	0.3 *	0.3 *	0.3 *
GA	Talbot Energy Facility	5	ENSR	Post MaSBD	55.4	55.4 *	55.4 *	55.4 *	55.4 *	55.4 *	10.5	10.5 *	10.5 *	10.5 *	10.5 *	10.5 *
GA	Talbot Energy Facility	6	ENSR	Post MaSBD	56.2	56.2 *	56.2 *	56.2 *	56.2 *	56.2 *	10.9	10.9 *	10.9 *	10.9 *	10.9 *	10.9 *
GA	Tenaska Georgia Generating Station / TENASKA GEORGIA GENERATION FACILITY	CT1	ENSR / TRC	Post MaSBD	4.5	4.5	4.5 *	4.5	4.5 *	4.5	0.6	0.6	0.6 *	0.6	0.6 *	0.6
GA	Tenaska Georgia Generating Station / TENASKA GEORGIA GENERATION FACILITY	CT2	ENSR / TRC	Post MaSBD	29.6	29.6	29.6 *	29.6	29.6 *	29.6	9.8	9.8	9.8 *	9.8	9.8 *	9.8
GA	Tenaska Georgia Generating Station / TENASKA GEORGIA GENERATION FACILITY	CT3	ENSR / TRC	Post MaSBD	27.3	27.3	27.3 *	27.3	27.3 *	27.3	7.9	7.9	7.9 *	7.9	7.9 *	7.9
GA	Tenaska Georgia Generating Station / TENASKA GEORGIA GENERATION FACILITY	CT4	ENSR / TRC	Post MaSBD	5.4	5.4	5.4 *	5.4	5.4 *	5.4	0.7	0.7	0.7 *	0.7	0.7 *	0.7
GA	Tenaska Georgia Generating Station / TENASKA GEORGIA GENERATION FACILITY	CT5	ENSR / TRC	Post MaSBD	49.7	49.7	49.7 *	49.7	49.7 *	49.7	49.7	49.7	49.7 *	49.7	49.7 *	49.7
GA	Tenaska Georgia Generating Station / TENASKA GEORGIA GENERATION FACILITY	CT6	ENSR / TRC	Post MaSBD	26.6	26.6	26.6 *	26.6	26.6 *	26.6	4.4	4.4	4.4 *	4.4	4.4 *	4.4
GA	Wansley (6052)	1	ENSR	Pre MaSBD	-677	-17,503	-22,917 *	-17,503	0.0 *	-17,503	-677	-17,503	-22,917 *	-17,503	0.0 *	-17,503
GA	Wansley (6052) / GEORGIA POWER COMPANY	2	ENSR	Pre MaSBD	-427	-18,739	-24,565 *	-18,739	0.0 *	-18,739	-427	-18,739	-24,565 *	-18,739	0.0 *	-18,739
GA	Wansley (6052) / GEORGIA POWER COMPANY	6A	ENSR	Post MaSBD	1.2	1.2	1.2 *	1.2	1.2 *	1.2	1.0	1.0	1.0 *	1.0	1.0 *	1.0
GA	Wansley (6052) / GEORGIA POWER COMPANY	6B	ENSR	Post MaSBD	1.3	1.3	1.3 *	1.3	1.3 *	1.3	1.0	1.0	1.0 *	1.0	1.0 *	1.0
GA	Wansley (6052) / GEORGIA POWER COMPANY	7A	ENSR	Post MaSBD	1.3	1.3	1.3 *	1.3	1.3 *	1.3	1.0	1.0	1.0 *	1.0	1.0 *	1.0
GA	Wansley (6052) / GEORGIA POWER COMPANY	7B	ENSR / TRC	Post MaSBD	1.2	1.2	1.2 *	1.2	1.2 *	1.2	1.0	1.0	1.0 *	1.0	1.0 *	1.0
GA	Wansley (6052) / GEORGIA POWER COMPANY	8B*	TRC	TRC only	302	302	302 *	302	302 *	302	302	302	302 *	302	302 *	302
GA	Wansley (6052) / GEORGIA POWER COMPANY	9B	TRC	TRC only	17.1	17.1	17.1 *	17.1	17.1 *	17.1	17.1	17.1	17.1 *	17.1	17.1 *	17.1
GA	Wansley (6052) / GEORGIA POWER COMPANY	CT	TRC	TRC only	3.0	3.0	3.0 *	3.0	3.0 *	3.0	3.0	3.0	3.0 *	3.0	3.0 *	3.0
GA	Yates	Y1BR	ENSR	Pre MaSBD	86.4	-3,382	-3,548 *	-3,382	0.0 *	-3,382	86.4	-3,382	-3,548 *	-3,382	0.0 *	-3,382
GA	Yates	Y2BR	ENSR	Pre MaSBD	478	-1,279	-1,460 *	-1,279	0.0 *	-1,279	478	-1,279	-1,460 *	-1,279	0.0 *	-1,279
GA	Yates	Y3BR	ENSR	Pre MaSBD	489	-1,442	-1,642 *	-1,442	0.0 *	-1,442	489	-1,442	-1,642 *	-1,442	0.0 *	-1,442
GA	Yates	Y4BR	ENSR	Pre MaSBD	622	-1,838	-2,104 *	-1,838	0.0 *	-1,838	622	-1,838	-2,104 *	-1,838	0.0 *	-1,838
GA	Yates	Y5BR	ENSR	Pre MaSBD	718	-1,860	-2,127 *	-1,860	0.0 *	-1,860	718	-1,860	-2,127 *	-1,860	0.0 *	-1,860
GA	Yates	Y6BR	ENSR	Pre MaSBD	1,549	-4,402	-4,731 *	-4,402	0.0 *	-4,402	1,549	-4,402	-4,731 *	-4,402	0.0 *	-4,402
GA	Yates	Y7BR	ENSR	Pre MaSBD	1,394	-4,581	-4,787 *	-4,581	0.0 *	-4,581	1,394	-4,581	-4,787 *	-4,581	0.0 *	-4,581
KY	Big Sandy	BSU1	ENSR	Pre MaSBD	-882 *	-1,204	-583	-1,204 *	0.0	-1,204 *	-882 *	-1,204	-583	-1,204 *	0.0	-1,204 *
KY	Big Sandy	BSU2	ENSR	Pre MaSBD	-2,134 *	-3,135	-1,496	-3,135 *	0.0	-3,135 *	-2,134 *	-3,135	-1,496	-3,135 *	0.0	-3,135 *
KY	E W Brown / KY Utilities Co - Brown Station	1	ENSR	Pre MaSBD	286 *	-968	-1,199 *	-968	0.0 *	-968 *	286 *	-968	-1,199 *	-968	0.0 *	-968 *
KY	E W Brown / KY Utilities Co - Brown Station	2	ENSR	Pre MaSBD	592 *	-1,441	-1,048 *	-1,441	0.0 *	-1,441 *	592 *	-1,441	-1,048 *	-1,441	0.0 *	-1,441 *
KY	E W Brown / KY Utilities Co - Brown Station	3	ENSR	Pre MaSBD	1,554 *	-3,960	-2,932 *	-3,960	0.0 *	-3,960 *	1,554 *	-3,960	-2,932 *	-3,960	0.0 *	-3,960 *
KY	E W Brown / KY Utilities Co - Brown Station	5	ENSR / TRC	Post MaSBD	0.9 *	0.9	0.9 *	0.9	0.9 *	0.9 *	0.4 *	0.4	0.4 *	0.4	0.4 *	0.4 *
KY	E W Brown / KY Utilities Co - Brown Station	6	ENSR / TRC	Post MaSBD	163 *	163	163 *	163	163 *	163 *	81.0 *	81.0	81.0 *	81.0	81.0 *	81.0 *
KY	E W Brown / KY Utilities Co - Brown Station	7	ENSR / TRC	Post MaSBD	66.8 *	66.8	66.8 *	66.8	66.8 *	66.8 *	51.6 *	51.6	51.6 *	51.6	51.6 *	51.6 *
KY	E W Brown / KY Utilities Co - Brown Station	8	ENSR / TRC	Post MaSBD	13.4 *	13.4	13.4 *	13.4	13.4 *	13.4 *	1.7 *	1.7	1.7 *	1.7	1.7 *	1.7 *
KY	E W Brown / KY Utilities Co - Brown Station	9	ENSR / TRC	Post MaSBD	1.4 *	1.4	1.4 *	1.4	1.4 *	1.4 *	0.3 *	0.3	0.3 *	0.3	0.3 *	0.3 *
KY	E W Brown / KY Utilities Co - Brown Station	10	ENSR / TRC	Post MaSBD	63.1 *	63.1	63.1 *	63.1	63.1 *	63.1 *	18.7 *	18.7	18.7 *	18.7	18.7 *	18.7 *

KY	E W Brown / KY Utilities Co - Brown Station	11	ENSR / TRC	Post MaSBD	56.0 *	56.0	56.0 *	56.0	56.0 *	56.0 *	9.9 *	9.9	9.9 *	9.9	9.9 *	9.9 *
KY	John S. Cooper	1	ENSR	Pre MaSBD	732	358	126 *	358	0.0	358	732	358	126 *	358	0.0	358
KY	John S. Cooper	2	ENSR	Pre MaSBD	1,413	681	231 *	681	0.0	681	1,413	681	231 *	681	0.0	681
KY	KY Mountain Power LLC	?	TRC	TRC only	556	556	556 *	556	556	556	556	556	556 *	556	556	556
KY	KY Pioneer Energy LLC	?	TRC	TRC only	662 *	662	662 *	662	662	662	662 *	662	662 *	662	662	662
KY	Smith Generating Facility / East KY Power - J K Smith Station	SCT1	ENSR / TRC	Post MaSBD	40.9 *	40.9	40.9 *	40.9	40.9	40.9	12.7 *	12.7	12.7 *	12.7	12.7	12.7
KY	Smith Generating Facility / East KY Power - J K Smith Station	SCT2	ENSR / TRC	Post MaSBD	51.4 *	51.4	51.4 *	51.4	51.4	51.4	12.8 *	12.8	12.8 *	12.8	12.8	12.8
KY	Smith Generating Facility / East KY Power - J K Smith Station	SCT3	ENSR / TRC	Post MaSBD	50.5 *	50.5	50.5 *	50.5	50.5	50.5	15.6 *	15.6	15.6 *	15.6	15.6	15.6
KY	Smith Generating Facility / East KY Power - J K Smith Station	SCT4	ENSR / TRC	Post MaSBD	44.9 *	44.9	44.9 *	44.9	44.9	44.9	13.9 *	13.9	13.9 *	13.9	13.9	13.9
KY	Smith Generating Facility / East KY Power - J K Smith Station	SCT5	ENSR / TRC	Post MaSBD	63.8 *	63.8	63.8 *	63.8	63.8	63.8	10.5 *	10.5	10.5 *	10.5	10.5	10.5
KY	Smith Generating Facility / East KY Power - J K Smith Station	SCT6	ENSR / TRC	Post MaSBD	40.3 *	40.3	40.3 *	40.3	40.3	40.3	40.3 *	40.3	40.3 *	40.3	40.3	40.3
KY	Smith Generating Facility / East KY Power - J K Smith Station	SCT7	ENSR / TRC	Post MaSBD	21.5 *	21.5	21.5 *	21.5	21.5	21.5	21.5 *	21.5	21.5 *	21.5	21.5	21.5
KY	Tyrone	1	ENSR	Pre MaSBD	-2,443 *	-2,612	-3,368 *	-2,612	0.0 *	-2,612 *	-2,443 *	-2,612	-3,368 *	-2,612	0.0 *	-2,612 *
KY	Tyrone	2	ENSR	Pre MaSBD	-2,442 *	-2,028	-3,368 *	-2,028	0.0 *	-2,028 *	-2,442 *	-2,028	-3,368 *	-2,028	0.0 *	-2,028 *
KY	Tyrone	3	ENSR	Pre MaSBD	-702 *	-3,610	0.0 *	-3,610	0.0 *	-3,610 *	-702 *	-3,610	0.0 *	-3,610	0.0 *	-3,610 *
KY	Tyrone	4	ENSR	Pre MaSBD	-750 *	0.0	0.0 *	0.0	0.0 *	0.0 *	-750 *	0.0	0.0 *	0.0	0.0 *	0.0 *
KY	Tyrone	5	ENSR	Pre MaSBD	935 *	1,285	80.5 *	1,285	0.0 *	1,285 *	935 *	1,285	80.5 *	1,285	0.0 *	1,285 *
KY	William C. Dale	3	ENSR	Pre MaSBD	155 *	159	167 *	159	0.0	159	155 *	159	167 *	159	0.0	159
KY	William C. Dale	4	ENSR	Pre MaSBD	151 *	156	163 *	156	0.0	156	151 *	156	163 *	156	0.0	156
MD	AES WARRIOR RUN	?	TRC	TRC only	416 *	416 *	416	416 *	416 *	416 *	416 *	416 *	416	416 *	416 *	416 *
MD	Brandon Shores	1	ENSR	Post MaSBD	6,852 *	6,852 *	6,852	6,852 *	6,852 *	6,852 *	6,530 *	6,530 *	6,530	6,530 *	6,530 *	6,530 *
MD	Brandon Shores	2	ENSR	Post MaSBD	6,949 *	6,949 *	6,949	6,949 *	6,949 *	6,949 *	6,712 *	6,712 *	6,712	6,712 *	6,712 *	6,712 *
MD	Dickerson	1	ENSR	Pre MaSBD	832 *	-270	-11 *	-270 *	0.0	-270	832 *	-270	-11 *	-270 *	0.0	-270
MD	Dickerson	2	ENSR	Pre MaSBD	846 *	-307	-28 *	-307 *	0.0	-307	846 *	-307	-28 *	-307 *	0.0	-307
MD	Dickerson	3	ENSR	Pre MaSBD	1,502 *	-496	-41 *	-496 *	0.0	-496	1,502 *	-496	-41 *	-496 *	0.0	-496
MD	Dickerson / MIRANT - DICKERSON	GT2	ENSR / TRC	Post MaSBD	1,117 *	1,117 *	1,117	1,117 *	1,117 *	1,117 *	998 *	998 *	998	998 *	998 *	998 *
MD	Dickerson / MIRANT - DICKERSON	GT3	ENSR / TRC	Post MaSBD	1,293 *	1,293 *	1,293	1,293 *	1,293 *	1,293 *	783 *	783 *	783	783 *	783 *	783 *
MD	Herbert A Wagner	1	ENSR	Pre MaSBD	416 *	-100 *	637	-100 *	0.0 *	-100 *	416 *	-100 *	637	-100 *	0.0 *	-100 *
MD	Herbert A Wagner	2	ENSR	Pre MaSBD	271 *	710 *	429	710 *	0.0 *	710 *	271 *	710 *	429	710 *	0.0 *	710 *
MD	Herbert A Wagner	3	ENSR	Pre MaSBD	247 *	80.4 *	589	80.4 *	0.0 *	80.4 *	247 *	80.4 *	589	80.4 *	0.0 *	80.4 *
MD	Herbert A Wagner	4	ENSR	Pre MaSBD	-1,956 *	-1,874 *	-1,853	-1,874 *	0.0 *	-1,874 *	-1,956 *	-1,874 *	-1,853	-1,874 *	0.0 *	-1,874 *
MD	Panda Brandywine	1	ENSR	Post MaSBD	39.0 *	39.0 *	39.0	39.0 *	39.0 *	39.0 *	15.0 *	15.0 *	15.0	15.0 *	15.0 *	15.0 *
MD	Panda Brandywine	2	ENSR	Post MaSBD	40.1 *	40.1 *	40.1	40.1 *	40.1 *	40.1 *	21.1 *	21.1 *	21.1	21.1 *	21.1 *	21.1 *
MD	Perryman	**51	ENSR	Post MaSBD	115 *	115 *	115	115 *	115 *	115 *	86.1 *	86.1 *	86.1	86.1 *	86.1 *	86.1 *
NC	Asheville	1	ENSR	Pre MaSBD	-872	-494	-1,111 *	-494	0.0	-494	-872	-494	-1,111 *	-494	0.0	-494
NC	Asheville	2	ENSR	Pre MaSBD	-581	-268	-856 *	-268	0.0	-268	-581	-268	-856 *	-268	0.0	-268
NC	Asheville	3	ENSR	Post MaSBD	77.1	77.1	77.1 *	77.1	77.1	77.1	38.0	38.0	38.0 *	38.0	38.0	38.0
NC	Asheville	4	ENSR	Post MaSBD	66.1	66.1	66.1 *	66.1	66.1	66.1	21.7	21.7	21.7 *	21.7	21.7	21.7
NC	Belews Creek	1	ENSR	Pre MaSBD	1,924 *	-1,517	-1,752	-1,517 *	0.0	-1,517	1,924 *	-1,517	-1,752	-1,517 *	0.0	-1,517
NC	Belews Creek	2	ENSR	Pre MaSBD	1,446 *	-1,848	-2,051	-1,848 *	0.0	-1,848	1,446 *	-1,848	-2,051	-1,848 *	0.0	-1,848
NC	Buck	5	ENSR	Pre MaSBD	-172 *	-278	523	-278 *	0.0	-278	-172 *	-278	523	-278 *	0.0	-278
NC	Buck	6	ENSR	Pre MaSBD	-204 *	579	579	579 *	0.0	579	-204 *	579	579	579 *	0.0	579
NC	Buck	7	ENSR	Pre MaSBD	-182 *	-330	664	-330 *	0.0	-330	-182 *	-330	664	-330 *	0.0	-330
NC	Buck	8	ENSR	Pre MaSBD	-415 *	-824	-272	-824 *	0.0	-824	-415 *	-824	-272	-824 *	0.0	-824
NC	Buck	9	ENSR	Pre MaSBD	-91 *	-873	-433	-873 *	0.0	-873	-91 *	-873	-433	-873 *	0.0	-873
NC	Cape Fear	5	ENSR	Pre MaSBD	-144 *	-299 *	-155	-299 *	0.0	-299 *	-144 *	-299 *	-155	-299 *	0.0	-299 *
NC	Cape Fear	6	ENSR	Pre MaSBD	-279 *	-413 *	-246	-413 *	0.0	-413 *	-279 *	-413 *	-246	-413 *	0.0	-413 *
NC	Cliffside	1	ENSR	Pre MaSBD	100	-45	844 *	-45	0.0	-45	100	-45	844 *	-45	0.0	-45
NC	Cliffside	2	ENSR	Pre MaSBD	89.5	-56	838 *	-56	0.0	-56	89.5	-56	838 *	-56	0.0	-56
NC	Cliffside	3	ENSR	Pre MaSBD	113	-100	1,164 *	-100	0.0	-100	113	-100	1,164 *	-100	0.0	-100
NC	Cliffside	4	ENSR	Pre MaSBD	102	-114	1,118 *	-114	0.0	-114	102	-114	1,118 *	-114	0.0	-114
NC	Cliffside	5	ENSR	Pre MaSBD	765	-593	-389 *	-593	0.0	-593	765	-593	-389 *	-593	0.0	-593
NC	COGENTRIX OF NORTH CAROLINA INC	1 - 3	TRC	TRC only	266 *	266 *	266	266 *	266	266 *	266 *	266 *	266	266 *	266	266 *
NC	Dan River	1	ENSR	Pre MaSBD	-212 *	-420 *	-304	-420 *	0.0	-420 *	-212 *	-420 *	-304	-420 *	0.0	-420 *
NC	Dan River	2	ENSR	Pre MaSBD	-204 *	-427 *	-250	-427 *	0.0	-427 *	-204 *	-427 *	-250	-427 *	0.0	-427 *
NC	Dan River	3	ENSR	Pre MaSBD	-498 *	-873 *	-661	-873 *	0.0	-873 *	-498 *	-873 *	-661	-873 *	0.0	-873 *
NC	G G Allen	1	ENSR	Pre MaSBD	443 *	47.4	-283	47.4	0.0	47.4	443 *	47.4	-283	47.4	0.0	47.4
NC	G G Allen	2	ENSR	Pre MaSBD	508 *	67.5	-281	67.5	0.0	67.5	508 *	67.5	-281	67.5	0.0	67.5
NC	G G Allen	3	ENSR	Pre MaSBD	706 *	145	-332	145	0.0	145	706 *	145	-332	145	0.0	145
NC	G G Allen	4	ENSR	Pre MaSBD	728 *	62.2	-424	62.2	0.0	62.2	728 *	62.2	-424	62.2	0.0	62.2
NC	G G Allen	5	ENSR	Pre MaSBD	689 *	82.3	-459	82.3	0.0	82.3	689 *	82.3	-459	82.3	0.0	82.3
NC	H F Lee Steam Electric Plant	1	ENSR	Pre MaSBD	-213 *	-356 *	-212	-356 *	0.0 *	-356 *	-213 *	-356 *	-212	-356 *	0.0 *	-356 *
NC	H F Lee Steam Electric Plant	2	ENSR	Pre MaSBD	-216 *	-431 *	-259	-431 *	0.0 *	-431 *	-216 *	-431 *	-259	-431 *	0.0 *	-431 *
NC	H F Lee Steam Electric Plant	3	ENSR	Pre MaSBD	-603 *	-1,156 *	-717	-1,156 *	0.0 *	-1,156 *	-603 *	-1,156 *	-717	-1,156 *	0.0 *	-1,156 *

NC	H F Lee Steam Electric Plant / Progress Energy - F Lee Plant	10	ENSR / TRC	Post MaSBD	67.3 *	67.3 *	67.3	67.3 *	67.3 *	67.3 *	28.5 *	28.5 *	28.5	28.5 *	28.5 *	28.5 *
NC	H F Lee Steam Electric Plant / Progress Energy - F Lee Plant	11	ENSR / TRC	Post MaSBD	74.9 *	74.9 *	74.9	74.9 *	74.9 *	74.9 *	29.4 *	29.4 *	29.4	29.4 *	29.4 *	29.4 *
NC	H F Lee Steam Electric Plant / Progress Energy - F Lee Plant	12	ENSR / TRC	Post MaSBD	78.3 *	78.3 *	78.3	78.3 *	78.3 *	78.3 *	27.8 *	27.8 *	27.8	27.8 *	27.8 *	27.8 *
NC	H F Lee Steam Electric Plant / Progress Energy - F Lee Plant	13	ENSR / TRC	Post MaSBD	76.1 *	76.1 *	76.1	76.1 *	76.1 *	76.1 *	21.3 *	21.3 *	21.3	21.3 *	21.3 *	21.3 *
NC	Lincoln	1	ENSR	Post MaSBD	50.1 *	50.1	50.1	50.1	50.1	50.1	21.9 *	21.9	21.9	21.9	21.9	21.9
NC	Lincoln	2	ENSR	Post MaSBD	54.7 *	54.7	54.7	54.7	54.7	54.7	17.4 *	17.4	17.4	17.4	17.4	17.4
NC	Lincoln	3	ENSR	Post MaSBD	56.3 *	56.3	56.3	56.3	56.3	56.3	14.4 *	14.4	14.4	14.4	14.4	14.4
NC	Lincoln	4	ENSR	Post MaSBD	48.0 *	48.0	48.0	48.0	48.0	48.0	19.2 *	19.2	19.2	19.2	19.2	19.2
NC	Lincoln	5	ENSR	Post MaSBD	62.2 *	62.2	62.2	62.2	62.2	62.2	12.5 *	12.5	12.5	12.5	12.5	12.5
NC	Lincoln	6	ENSR	Post MaSBD	40.2 *	40.2	40.2	40.2	40.2	40.2	12.4 *	12.4	12.4	12.4	12.4	12.4
NC	Lincoln	7	ENSR	Post MaSBD	64.3 *	64.3	64.3	64.3	64.3	64.3	12.6 *	12.6	12.6	12.6	12.6	12.6
NC	Lincoln	8	ENSR	Post MaSBD	63.2 *	63.2	63.2	63.2	63.2	63.2	15.3 *	15.3	15.3	15.3	15.3	15.3
NC	Lincoln	9	ENSR	Post MaSBD	59.1 *	59.1	59.1	59.1	59.1	59.1	17.3 *	17.3	17.3	17.3	17.3	17.3
NC	Lincoln	10	ENSR	Post MaSBD	59.4 *	59.4	59.4	59.4	59.4	59.4	17.9 *	17.9	17.9	17.9	17.9	17.9
NC	Lincoln	11	ENSR	Post MaSBD	58.6 *	58.6	58.6	58.6	58.6	58.6	17.5 *	17.5	17.5	17.5	17.5	17.5
NC	Lincoln	12	ENSR	Post MaSBD	63.7 *	63.7	63.7	63.7	63.7	63.7	16.0 *	16.0	16.0	16.0	16.0	16.0
NC	Lincoln	13	ENSR	Post MaSBD	53.0 *	53.0	53.0	53.0	53.0	53.0	17.5 *	17.5	17.5	17.5	17.5	17.5
NC	Lincoln	14	ENSR	Post MaSBD	56.6 *	56.6	56.6	56.6	56.6	56.6	17.8 *	17.8	17.8	17.8	17.8	17.8
NC	Lincoln	15	ENSR	Post MaSBD	55.4 *	55.4	55.4	55.4	55.4	55.4	23.9 *	23.9	23.9	23.9	23.9	23.9
NC	Lincoln	16	ENSR	Post MaSBD	63.3 *	63.3	63.3	63.3	63.3	63.3	18.4 *	18.4	18.4	18.4	18.4	18.4
NC	Marshall	1	ENSR	Pre MaSBD	500 *	-383	15.4	-383	0.0	-383	500 *	-383	15.4	-383	0.0	-383
NC	Marshall	2	ENSR	Pre MaSBD	517 *	-414	-112	-414	0.0	-414	517 *	-414	-112	-414	0.0	-414
NC	Marshall	3	ENSR	Pre MaSBD	649 *	-836	-378	-836	0.0	-836	649 *	-836	-378	-836	0.0	-836
NC	Marshall	4	ENSR	Pre MaSBD	665 *	-826	-256	-826	0.0	-826	665 *	-826	-256	-826	0.0	-826
NC	Mayo / CP&L - MAYO FACILITY	1A	ENSR / TRC	Post MaSBD	4,598 *	4,598 *	4,598	4,598 *	4,598	4,598 *	4,185 *	4,185 *	4,185	4,185 *	4,185	4,185 *
NC	Mayo / CP&L - MAYO FACILITY	1B	ENSR / TRC	Post MaSBD	4,303 *	4,303 *	4,303	4,303 *	4,303	4,303 *	3,957 *	3,957 *	3,957	3,957 *	3,957	3,957 *
NC	Plant Rowan County / Rowan County Power LLC	1	ENSR / TRC	Post MaSBD	857 *	857	857	857 *	857	857	123 *	123	123	123 *	123	123
NC	Plant Rowan County / Rowan County Power LLC	2	ENSR / TRC	Post MaSBD	48.4 *	48.4	48.4	48.4 *	48.4	48.4	8.2 *	8.2	8.2	8.2 *	8.2	8.2
NC	Plant Rowan County / Rowan County Power LLC	3	ENSR / TRC	Post MaSBD	56.6 *	56.6	56.6	56.6 *	56.6	56.6	13.1 *	13.1	13.1	13.1 *	13.1	13.1
NC	Plant Rowan County / Rowan County Power LLC	4	ENSR / TRC	Post MaSBD	85.3 *	85.3	85.3	85.3 *	85.3	85.3	50.6 *	50.6	50.6	50.6 *	50.6	50.6
NC	Plant Rowan County / Rowan County Power LLC	5	ENSR / TRC	Post MaSBD	1.1 *	1.1	1.1	1.1 *	1.1	1.1	0.8 *	0.8	0.8	0.8 *	0.8	0.8
NC	Richmond County Plant / CP&L - Richmond Cnty Combustn Turbine	1	ENSR / TRC	Post MaSBD	63.1 *	63.1 *	63.1 *	63.1 *	63.1	63.1	15.6 *	15.6 *	15.6 *	15.6 *	15.6	15.6
NC	Richmond County Plant / CP&L - Richmond Cnty Combustn Turbine	2	ENSR	Post MaSBD	56.9 *	56.9 *	56.9 *	56.9 *	56.9	56.9	10.6 *	10.6 *	10.6 *	10.6 *	10.6	10.6
NC	Richmond County Plant / CP&L - Richmond Cnty Combustn Turbine	3	ENSR	Post MaSBD	18.1 *	18.1 *	18.1 *	18.1 *	18.1	18.1	5.1 *	5.1 *	5.1 *	5.1 *	5.1	5.1
NC	Richmond County Plant / CP&L - Richmond Cnty Combustn Turbine	4	ENSR	Post MaSBD	33.1 *	33.1 *	33.1 *	33.1 *	33.1	33.1	6.3 *	6.3 *	6.3 *	6.3 *	6.3	6.3
NC	Richmond County Plant / CP&L - Richmond Cnty Combustn Turbine	6	ENSR	Post MaSBD	37.1 *	37.1 *	37.1 *	37.1 *	37.1	37.1	12.5 *	12.5 *	12.5 *	12.5 *	12.5	12.5
NC	Richmond County Plant / CP&L - Richmond Cnty Combustn Turbine	7	ENSR	Post MaSBD	10.2 *	10.2 *	10.2 *	10.2 *	10.2	10.2	1.7 *	1.7 *	1.7 *	1.7 *	1.7	1.7
NC	Richmond County Plant / CP&L - Richmond Cnty Combustn Turbine	8	ENSR	Post MaSBD	1.1 *	1.1 *	1.1 *	1.1 *	1.1	1.1	1.0 *	1.0 *	1.0 *	1.0 *	1.0	1.0
NC	Riverbend	7	ENSR	Pre MaSBD	45.6 *	-543	-63	-543	0.0	-543	45.6 *	-543	-63	-543	0.0	-543
NC	Riverbend	8	ENSR	Pre MaSBD	5.6 *	-795	-109	-795	0.0	-795	5.6 *	-795	-109	-795	0.0	-795
NC	Riverbend	9	ENSR	Pre MaSBD	33.4 *	-784	2,187	-784	0.0	-784	33.4 *	-784	2,187	-784	0.0	-784
NC	Riverbend	10	ENSR	Pre MaSBD	48.4 *	-818	2,286	-818	0.0	-818	48.4 *	-818	2,286	-818	0.0	-818
NC	Roanoke Valley Energy Facility	?	TRC	TRC only	993 *	993 *	993	993 *	993 *	993 *	993 *	993 *	993	993 *	993 *	993 *
NC	Roanoke Valley Energy Facility	?	TRC	TRC only	365 *	365 *	365	365 *	365 *	365 *	365 *	365 *	365	365 *	365 *	365 *
NC	Rockingham Power / ROCKINGHAM POWER LLC	CT1	ENSR	Post MaSBD	32.8 *	32.8 *	32.8	32.8 *	32.8	32.8	6.3 *	6.3 *	6.3	6.3 *	6.3	6.3
NC	Rockingham Power / ROCKINGHAM POWER LLC	CT2	ENSR	Post MaSBD	25.1 *	25.1 *	25.1	25.1 *	25.1	25.1	6.3 *	6.3 *	6.3	6.3 *	6.3	6.3
NC	Rockingham Power / ROCKINGHAM POWER LLC	CT3	ENSR	Post MaSBD	2.4 *	2.4 *	2.4	2.4 *	2.4	2.4	0.5 *	0.5 *	0.5	0.5 *	0.5	0.5
NC	Rockingham Power / ROCKINGHAM POWER LLC	CT4	ENSR	Post MaSBD	69.4 *	69.4 *	69.4	69.4 *	69.4	69.4	15.8 *	15.8 *	15.8	15.8 *	15.8	15.8
NC	Rockingham Power / ROCKINGHAM POWER LLC	CT5	ENSR	Post MaSBD	70.0 *	70.0 *	70.0	70.0 *	70.0	70.0	34.7 *	34.7 *	34.7	34.7 *	34.7	34.7
NC	Rockingham Power / ROCKINGHAM POWER LLC	ES-EG-1	TRC	TRC only	101 *	101 *	101	101 *	101	101	101 *	101 *	101	101 *	101	101
NC	Rosemary Power Station / Panda-Rosemary Cogeneration Facility	1	ENSR / TRC	Post MaSBD	174 *	174 *	174	174 *	174 *	174 *	174 *	174 *	174	174 *	174 *	174 *
NC	Rosemary Power Station / Panda-Rosemary Cogeneration Facility	2	ENSR / TRC	Post MaSBD	268 *	268 *	268	268 *	268 *	268 *	268 *	268 *	268	268 *	268 *	268 *
NC	Roxboro	1	ENSR	Pre MaSBD	-515 *	1,037 *	-61	1,037 *	0.0	1,037 *	-515 *	1,037 *	-61	1,037 *	0.0	1,037 *
NC	Roxboro	2	ENSR	Pre MaSBD	214 *	2,132 *	668	2,132 *	0.0	2,132 *	214 *	2,132 *	668	2,132 *	0.0	2,132 *
NC	Roxboro	3A	ENSR	Pre MaSBD	14.4 *	1,373 *	310	1,373 *	0.0	1,373 *	14.4 *	1,373 *	310	1,373 *	0.0	1,373 *
NC	Roxboro	3B	ENSR	Pre MaSBD	21.8 *	1,429 *	6,033	1,429 *	0.0	1,429 *	21.8 *	1,429 *	6,033	1,429 *	0.0	1,429 *
NC	Roxboro	4A	ENSR	Pre MaSBD	-1,509 *	-619 *	-49	-619 *	0.0	-619 *	-1,509 *	-619 *	-49	-619 *	0.0	-619 *
NC	Roxboro	4B	ENSR	Pre MaSBD	-121 *	-535 *	3,421	-535 *	0.0	-535 *	-121 *	-535 *	3,421	-535 *	0.0	-535 *
OH	Gen J M Gavin	1	ENSR	Pre MaSBD	533 *	-67,422 *	-78,641	-67,422 *	0.0 *	-67,422 *	533 *	-67,422 *	-78,641	-67,422 *	0.0 *	-67,422 *
OH	Gen J M Gavin	2	ENSR	Pre MaSBD	716 *	-74,765 *	-87,668	-74,765 *	0.0 *	-74,765 *	716 *	-74,765 *	-87,668	-74,765 *	0.0 *	-74,765 *
OH	Kyger Creek	1	ENSR	Pre MaSBD	-3,052 *	-9,333 *	-9,031	-9,333 *	0.0 *	-9,333 *	-3,052 *	-9,333 *	-9,031	-9,333 *	0.0 *	-9,333 *
OH	Kyger Creek	2	ENSR	Pre MaSBD	-3,207 *	-9,356 *	-9,055	-9,356 *	0.0 *	-9,356 *	-3,207 *	-9,356 *	-9,055	-9,356 *	0.0 *	-9,356 *
OH	Kyger Creek	3	ENSR	Pre MaSBD	-2,944 *	-8,876 *	-8,591	-8,876 *	0.0 *	-8,876 *	-2,944 *	-8,876 *	-8,591	-8,876 *	0.0 *	-8,876 *
OH	Kyger Creek	4	ENSR	Pre MaSBD	-3,154 *	-9,254 *	-8,958	-9,254 *	0.0 *	-9,254 *	-3,154 *	-9,254 *	-8,958	-9,254 *	0.0 *	-9,254 *

OH	Kyger Creek	5	ENSR	Pre MaSBD	-3,079 *	-8,848 *	-8,563	-8,848 *	0.0 *	-8,848 *	-3,079 *	-8,848 *	-8,563	-8,848 *	0.0 *	-8,848 *
OH	R E Burger	5	ENSR	Pre MaSBD	1,814 *	-1,477 *	-771	-1,477 *	0.0 *	-1,477 *	1,814 *	-1,477 *	-771	-1,477 *	0.0 *	-1,477 *
OH	R E Burger	6	ENSR	Pre MaSBD	-449 *	1,707 *	-740	1,707 *	0.0 *	1,707 *	-449 *	1,707 *	-740	1,707 *	0.0 *	1,707 *
OH	R E Burger	7	ENSR	Pre MaSBD	-2,669 *	-5,994 *	-3,409	-5,994 *	0.0 *	-5,994 *	-2,669 *	-5,994 *	-3,409	-5,994 *	0.0 *	-5,994 *
OH	R E Burger	8	ENSR	Pre MaSBD	-2,250 *	-5,364 *	-2,973	-5,364 *	0.0 *	-5,364 *	-2,250 *	-5,364 *	-2,973	-5,364 *	0.0 *	-5,364 *
OH	Richard Gorsuch	1	ENSR	Pre MaSBD	-3,584 *	2,503 *	2,503	2,503 *	0.0 *	2,503 *	-3,584 *	2,503 *	2,503	2,503 *	0.0 *	2,503 *
OH	Richard Gorsuch	2	ENSR	Pre MaSBD	-3,465 *	2,538 *	2,538	2,538 *	0.0 *	2,538 *	-3,465 *	2,538 *	2,538	2,538 *	0.0 *	2,538 *
OH	Richard Gorsuch	3	ENSR	Pre MaSBD	-3,541 *	2,558 *	2,558	2,558 *	0.0 *	2,558 *	-3,541 *	2,558 *	2,558	2,558 *	0.0 *	2,558 *
OH	Richard Gorsuch	4	ENSR	Pre MaSBD	-3,443 *	2,487 *	2,487	2,487 *	0.0 *	2,487 *	-3,443 *	2,487 *	2,487	2,487 *	0.0 *	2,487 *
PA	Greene Energy	?	TRC	TRC only	410 *	410 *	410	410 *	410 *	410 *	410 *	410 *	410	410 *	410 *	410 *
PA	Hatfields Ferry Power Station	1	ENSR	Pre MaSBD	667 *	-5,402 *	469	-5,402 *	0.0 *	-5,402 *	667 *	-5,402 *	469	-5,402 *	0.0 *	-5,402 *
PA	Hatfields Ferry Power Station	2	ENSR	Pre MaSBD	835 *	-4,295 *	565	-4,295 *	0.0 *	-4,295 *	835 *	-4,295 *	565	-4,295 *	0.0 *	-4,295 *
PA	Hatfields Ferry Power Station	3	ENSR	Pre MaSBD	138 *	-5,858 *	-136	-5,858 *	0.0 *	-5,858 *	138 *	-5,858 *	-136	-5,858 *	0.0 *	-5,858 *
SC	Broad River Energy Center / Broad River Energy Center	CT-1	ENSR / TRC	Post MaSBD	30.7	30.7	30.7 *	30.7	30.7	30.7	4.9	4.9	4.9 *	4.9	4.9	4.9
SC	Broad River Energy Center / Broad River Energy Center	CT-2	ENSR / TRC	Post MaSBD	1.4	1.4	1.4 *	1.4	1.4	1.4	0.7	0.7	0.7 *	0.7	0.7	0.7
SC	Broad River Energy Center / Broad River Energy Center	CT-3	ENSR / TRC	Post MaSBD	29.8	29.8	29.8 *	29.8	29.8	29.8	4.8	4.8	4.8 *	4.8	4.8	4.8
SC	Broad River Energy Center / Broad River Energy Center	CT-4	ENSR	Post MaSBD	52.3	52.3	52.3 *	52.3	52.3	52.3	12.2	12.2	12.2 *	12.2	12.2	12.2
SC	Broad River Energy Center / Broad River Energy Center	CT-5	ENSR	Post MaSBD	52.6	52.6	52.6 *	52.6	52.6	52.6	26.4	26.4	26.4 *	26.4	26.4	26.4
SC	Columbia Energy Center (SC) / Columbia Energy Center	CT-1	ENSR / TRC	Post MaSBD	598 *	598	598 *	598 *	598	598	84.2 *	84.2	84.2 *	84.2 *	84.2	84.2
SC	Columbia Energy Center (SC) / Columbia Energy Center	CT-2	ENSR / TRC	Post MaSBD	48.3 *	48.3	48.3 *	48.3 *	48.3	48.3	22.8 *	22.8	22.8 *	22.8 *	22.8	22.8
SC	Cope Station / SCE&G-Cope	COP1	ENSR / TRC	Post MaSBD	4,741 *	4,741 *	4,741 *	4,741 *	4,741	4,741	1,599 *	1,599 *	1,599 *	1,599 *	1,599	1,599
SC	Darlington County / Carolina Power & Light	12	ENSR / TRC	Post MaSBD	31.6 *	31.6	31.6 *	31.6 *	31.6	31.6	9.2 *	9.2	9.2 *	9.2 *	9.2	9.2
SC	Darlington County / Carolina Power & Light	13	ENSR / TRC	Post MaSBD	51.2 *	51.2	51.2 *	51.2 *	51.2	51.2	15.9 *	15.9	15.9 *	15.9 *	15.9	15.9
SC	H B Robinson	1	ENSR	Pre MaSBD	-299 *	-885	-40 *	-885 *	0.0	-885	-299 *	-885	-40 *	-885 *	0.0	-885
SC	John S. Rainey Generating Station	CT1A	ENSR	Post MaSBD	26.6	26.6	26.6 *	26.6	26.6	26.6	11.7	11.7	11.7 *	11.7	11.7	11.7
SC	John S. Rainey Generating Station	CT1B	ENSR	Post MaSBD	1.1	1.1	1.1 *	1.1	1.1	1.1	1.0	1.0	1.0 *	1.0	1.0	1.0
SC	John S. Rainey Generating Station	CT2A	ENSR	Post MaSBD	56.4	56.4	56.4 *	56.4	56.4	56.4	23.4	23.4	23.4 *	23.4	23.4	23.4
SC	John S. Rainey Generating Station	CT2B	ENSR	Post MaSBD	1.1	1.1	1.1 *	1.1	1.1	1.1	0.8	0.8	0.8 *	0.8	0.8	0.8
SC	John S. Rainey Generating Station	CT3	ENSR	Post MaSBD	0.7	0.7	0.7 *	0.7	0.7	0.7	0.3	0.3	0.3 *	0.3	0.3	0.3
SC	John S. Rainey Generating Station	CT4	ENSR	Post MaSBD	0.7	0.7	0.7 *	0.7	0.7	0.7	0.5	0.5	0.5 *	0.5	0.5	0.5
SC	John S. Rainey Generating Station	CT5	ENSR	Post MaSBD	0.7	0.7	0.7 *	0.7	0.7	0.7	0.4	0.4	0.4 *	0.4	0.4	0.4
SC	McMeekin	MCM1	ENSR	Pre MaSBD	-273 *	-735	-325 *	-735	0.0	-735	-273 *	-735	-325 *	-735	0.0	-735
SC	McMeekin	MCM2	ENSR	Pre MaSBD	-299 *	-798	-329 *	-798	0.0	-798	-299 *	-798	-329 *	-798	0.0	-798
SC	Mill Creek Combustion Turbine Sta / Duke Energy Ripp Combustion Turbines	1	ENSR / TRC	Post MaSBD	40.8	40.8	40.8 *	40.8	40.8	40.8	12.0	12.0	12.0 *	12.0	12.0	12.0
SC	Mill Creek Combustion Turbine Sta / Duke Energy Ripp Combustion Turbines	2	ENSR / TRC	Post MaSBD	33.2	33.2	33.2 *	33.2	33.2	33.2	9.4	9.4	9.4 *	9.4	9.4	9.4
SC	Mill Creek Combustion Turbine Sta / Duke Energy Ripp Combustion Turbines	3	ENSR / TRC	Post MaSBD	32.7	32.7	32.7 *	32.7	32.7	32.7	9.9	9.9	9.9 *	9.9	9.9	9.9
SC	Mill Creek Combustion Turbine Sta / Duke Energy Ripp Combustion Turbines	4	ENSR / TRC	Post MaSBD	35.4	35.4	35.4 *	35.4	35.4	35.4	10.3	10.3	10.3 *	10.3	10.3	10.3
SC	Mill Creek Combustion Turbine Sta / Duke Energy Ripp Combustion Turbines	5	ENSR / TRC	Post MaSBD	31.9	31.9	31.9 *	31.9	31.9	31.9	8.6	8.6	8.6 *	8.6	8.6	8.6
SC	Mill Creek Combustion Turbine Sta / Duke Energy Ripp Combustion Turbines	6	ENSR / TRC	Post MaSBD	36.7	36.7	36.7 *	36.7	36.7	36.7	14.4	14.4	14.4 *	14.4	14.4	14.4
SC	Mill Creek Combustion Turbine Sta / Duke Energy Ripp Combustion Turbines	7	ENSR / TRC	Post MaSBD	30.8	30.8	30.8 *	30.8	30.8	30.8	7.0	7.0	7.0 *	7.0	7.0	7.0
SC	Mill Creek Combustion Turbine Sta / Duke Energy Ripp Combustion Turbines	8	ENSR / TRC	Post MaSBD	34.1	34.1	34.1 *	34.1	34.1	34.1	7.8	7.8	7.8 *	7.8	7.8	7.8
SC	Palmetto Energy Center	CT 1 2 3	TRC	TRC only	1,289 *	1,289	1,289 *	1,289	1,289	1,289	1,289 *	1,289	1,289 *	1,289	1,289	1,289
SC	Urquhart	URQ3	ENSR	Pre MaSBD	9.7	-601	72.7 *	-601	0.0	-601	9.7	-601	72.7 *	-601	0.0	-601
SC	Urquhart	URQ4	ENSR	Post MaSBD	15.0	15.0	15.0 *	15.0	15.0	15.0	4.0	4.0	4.0 *	4.0	4.0	4.0
SC	Urquhart	URQ5	ENSR	Post MaSBD	1,063	1,063	1,063 *	1,063	1,063	1,063	406	406	406 *	406	406	406
SC	Urquhart	URQ6	ENSR	Post MaSBD	70.5	70.5	70.5 *	70.5	70.5	70.5	59.0	59.0	59.0 *	59.0	59.0	59.0
SC	Wateree	WAT1	ENSR	Pre MaSBD	-641 *	-1,768	-347 *	-1,768 *	0.0	-1,768	-641 *	-1,768	-347 *	-1,768 *	0.0	-1,768
SC	Wateree	WAT2	ENSR	Pre MaSBD	-741 *	-1,465	-211 *	-1,465 *	0.0	-1,465	-741 *	-1,465	-211 *	-1,465 *	0.0	-1,465
SC	W S Lee	1	ENSR	Pre MaSBD	145	-174	15.6 *	-174	0.0	-174	145	-174	15.6 *	-174	0.0	-174
SC	W S Lee	2	ENSR	Pre MaSBD	172	-159	25.2 *	-159	0.0	-159	172	-159	25.2 *	-159	0.0	-159
SC	W S Lee	3	ENSR	Pre MaSBD	366	-338	95.8 *	-338	0.0	-338	366	-338	95.8 *	-338	0.0	-338
TN	Bull Run	1	ENSR	Pre MaSBD	-7,542	-3,418	-3,375 *	-3,418	0.0	-3,418	-7,542	-3,418	-3,375 *	-3,418	0.0	-3,418
TN	Gallatin	1	ENSR	Pre MaSBD	-3,988	-9,344	-9,135 *	-9,344	0.0 *	-9,344 *	-3,988	-9,344	-9,135 *	-9,344	0.0 *	-9,344 *
TN	Gallatin	2	ENSR	Pre MaSBD	-4,181	-9,551	-9,337 *	-9,551	0.0 *	-9,551 *	-4,181	-9,551	-9,337 *	-9,551	0.0 *	-9,551 *
TN	Gallatin	3	ENSR	Pre MaSBD	-4,906	-10,486	-10,227 *	-10,486	0.0 *	-10,486 *	-4,906	-10,486	-10,227 *	-10,486	0.0 *	-10,486 *
TN	Gallatin	4	ENSR	Pre MaSBD	-5,014	-10,621	-10,360 *	-10,621	0.0 *	-10,621 *	-5,014	-10,621	-10,360 *	-10,621	0.0 *	-10,621 *
TN	Gallatin / TVA GALLATIN FOSSIL PLANT	GCT5	ENSR / TRC	Post MaSBD	49.7	49.7	49.7 *	49.7	49.7 *	49.7 *	24.1	24.1	24.1 *	24.1	24.1 *	24.1 *
TN	Gallatin / TVA GALLATIN FOSSIL PLANT	GCT6	ENSR / TRC	Post MaSBD	37.7	37.7	37.7 *	37.7	37.7 *	37.7 *	11.3	11.3	11.3 *	11.3	11.3 *	11.3 *
TN	Gallatin / TVA GALLATIN FOSSIL PLANT	GCT7	ENSR / TRC	Post MaSBD	37.2	37.2	37.2 *	37.2	37.2 *	37.2 *	11.3	11.3	11.3 *	11.3	11.3 *	11.3 *
TN	Gallatin / TVA GALLATIN FOSSIL PLANT	GCT8	ENSR / TRC	Post MaSBD	38.8	38.8	38.8 *	38.8	38.8 *	38.8 *	11.0	11.0	11.0 *	11.0	11.0 *	11.0 *
TN	John Sevier	1	ENSR	Pre MaSBD	-1,934	-4,051	-2,620 *	-4,051	0.0	-4,051	-1,934	-4,051	-2,620 *	-4,051	0.0	-4,051
TN	John Sevier	2	ENSR	Pre MaSBD	-1,953	-4,021	-2,603 *	-4,021	0.0	-4,021	-1,953	-4,021	-2,603 *	-4,021	0.0	-4,021
TN	John Sevier	3	ENSR	Pre MaSBD	-1,708	-3,735	-2,346 *	-3,735	0.0	-3,735	-1,708	-3,735	-2,346 *	-3,735	0.0	-3,735
TN	John Sevier	4	ENSR	Pre MaSBD	-1,671	-3,650	-2,289 *	-3,650	0.0	-3,650	-1,671	-3,650	-2,289 *	-3,650	0.0	-3,650

TN	Kingston	1	ENSR	Pre MaSBD	-1,410	-684	-1,102 *	-684	0.0	-684	-1,410	-684	-1,102 *	-684	0.0	-684
TN	Kingston	2	ENSR	Pre MaSBD	-1,396	-677	-1,093 *	-677	0.0	-677	-1,396	-677	-1,093 *	-677	0.0	-677
TN	Kingston	3	ENSR	Pre MaSBD	-1,453	-706	-1,138 *	-706	0.0	-706	-1,453	-706	-1,138 *	-706	0.0	-706
TN	Kingston	4	ENSR	Pre MaSBD	-1,425	-692	-1,118 *	-692	0.0	-692	-1,425	-692	-1,118 *	-692	0.0	-692
TN	Kingston	5	ENSR	Pre MaSBD	-1,514	-895	-1,457 *	-895	0.0	-895	-1,514	-895	-1,457 *	-895	0.0	-895
TN	Kingston	6	ENSR	Pre MaSBD	-1,584	-731	-1,289 *	-731	0.0	-731	-1,584	-731	-1,289 *	-731	0.0	-731
TN	Kingston	7	ENSR	Pre MaSBD	-1,641	-723	-1,276 *	-723	0.0	-723	-1,641	-723	-1,276 *	-723	0.0	-723
TN	Kingston	8	ENSR	Pre MaSBD	-1,561	-710	-1,244 *	-710	0.0	-710	-1,561	-710	-1,244 *	-710	0.0	-710
TN	Kingston	9	ENSR	Pre MaSBD	-1,491	-694	-1,237 *	-694	0.0	-694	-1,491	-694	-1,237 *	-694	0.0	-694
VA	Altavista Power Station / Dominion Altavista	1	ENSR / TRC	Post MaSBD	192 *	192 *	192	192 *	192	192 *	42.0 *	42.0 *	42.0	42.0 *	42.0	42.0 *
VA	Altavista Power Station / Dominion Altavista	2	ENSR / TRC	Post MaSBD	203 *	203 *	203	203 *	203	203 *	43.5 *	43.5 *	43.5	43.5 *	43.5	43.5 *
VA	Bellemeade Power Station	1	ENSR	Post MaSBD	168 *	168 *	168	168 *	168 *	168 *	154 *	154 *	154	154 *	154 *	154 *
VA	Bellemeade Power Station	2	ENSR	Post MaSBD	178 *	178 *	178	178 *	178 *	178 *	170 *	170 *	170	170 *	170 *	170 *
VA	Birchwood Power Partners L.P.	Boiler	TRC	TRC only	220 *	220 *	220	220 *	220 *	220 *	220 *	220 *	220	220 *	220 *	220 *
VA	Bremo Power Station	3	ENSR	Pre MaSBD	17.6 *	-103 *	113	-103 *	0.0 *	-103 *	17.6 *	-103 *	113	-103 *	0.0 *	-103 *
VA	Bremo Power Station	4	ENSR	Pre MaSBD	124 *	-182 *	163	-182 *	0.0 *	-182 *	124 *	-182 *	163	-182 *	0.0 *	-182 *
VA	Chesterfield Power Station	3	ENSR	Pre MaSBD	101	1,104 *	293 *	1,104 *	0.0 *	1,104 *	101	1,104 *	293 *	1,104 *	0.0 *	1,104 *
VA	Chesterfield Power Station	4	ENSR	Pre MaSBD	25.3	567 *	311 *	567 *	0.0 *	567 *	25.3	567 *	311 *	567 *	0.0 *	567 *
VA	Chesterfield Power Station	5	ENSR	Pre MaSBD	-54	-622 *	678 *	-622 *	0.0 *	-622 *	-54	-622 *	678 *	-622 *	0.0 *	-622 *
VA	Chesterfield Power Station	6	ENSR	Pre MaSBD	-234	-1,118 *	1,406 *	-1,118 *	0.0 *	-1,118 *	-234	-1,118 *	1,406 *	-1,118 *	0.0 *	-1,118 *
VA	Chesterfield Power Station / Dominion - Chesterfield Power Station	#7 CT	TRC	TRC only	220 *	220 *	220	220 *	220 *	220 *	220 *	220 *	220	220 *	220 *	220 *
VA	Chesterfield Power Station / Dominion - Chesterfield Power Station	**8A	ENSR	Post MaSBD	269 *	269 *	269	269 *	269 *	269 *	239 *	239 *	239	239 *	239 *	239 *
VA	Clinch River	1	ENSR	Pre MaSBD	415	312	312	312	0.0	312	415	312	312	312	0.0	312
VA	Clinch River	2	ENSR	Pre MaSBD	369	311	312	311	0.0	311	369	311	312	311	0.0	311
VA	Clinch River	3	ENSR	Pre MaSBD	409	224	253	224	0.0	224	409	224	253	224	0.0	224
VA	Clover Power Station / Dominion - Clover Power Station	1	ENSR / TRC	Post MaSBD	716 *	716 *	716	716 *	716 *	716 *	497 *	497 *	497	497 *	497 *	497 *
VA	Clover Power Station / Dominion - Clover Power Station	2	ENSR / TRC	Post MaSBD	634 *	634 *	634	634 *	634 *	634 *	486 *	486 *	486	486 *	486 *	486 *
VA	Cogentrix of Richmond	1 2 3 4 A&B	TRC	TRC only	571 *	571 *	571	571 *	571 *	571 *	571 *	571 *	571	571 *	571 *	571 *
VA	Cogentrix Virginia Leasing Corp	UNITS 1 & 2	TRC	TRC only	390 *	390 *	390	390 *	390 *	390 *	390 *	390 *	390	390 *	390 *	390 *
VA	Dominion Pittsylvania	?	TRC	TRC only	53.9 *	53.9 *	53.9	53.9 *	53.9	53.9 *	53.9 *	53.9 *	53.9	53.9 *	53.9	53.9 *
VA	Doswell Limited Partnership	CT1	ENSR	Post MaSBD	107 *	107 *	107	107 *	107 *	107 *	64.7 *	64.7 *	64.7	64.7 *	64.7 *	64.7 *
VA	Glen Lyn	6	ENSR	Pre MaSBD	-4 *	-85	373	-85 *	0.0	-85	-4 *	-85	373	-85 *	0.0	-85
VA	Glen Lyn	51	ENSR	Pre MaSBD	23.9 *	6.3	127	6.3 *	0.0	6.3	23.9 *	6.3	127	6.3 *	0.0	6.3
VA	Glen Lyn	52	ENSR	Pre MaSBD	38.4 *	-0	816	-0 *	0.0	-0	38.4 *	-0	816	-0 *	0.0	-0
VA	Gordonsville Power Station	1	ENSR	Post MaSBD	56.0 *	56.0 *	56.0	56.0 *	56.0 *	56.0 *	37.5 *	37.5 *	37.5	37.5 *	37.5 *	37.5 *
VA	Gordonsville Power Station	2	ENSR	Post MaSBD	43.8 *	43.8 *	43.8	43.8 *	43.8 *	43.8 *	29.1 *	29.1 *	29.1	29.1 *	29.1 *	29.1 *
VA	James River Cogeneration Company	Coal Boilers	TRC	TRC only	53.9 *	53.9 *	53.9	53.9 *	53.9 *	53.9 *	53.9 *	53.9 *	53.9	53.9 *	53.9 *	53.9 *
VA	Ladysmith Combustion Turbine Sta	1	ENSR	Post MaSBD	324 *	324 *	324	324 *	324 *	324 *	269 *	269 *	269	269 *	269 *	269 *
VA	Ladysmith Combustion Turbine Sta	2	ENSR	Post MaSBD	323 *	323 *	323	323 *	323 *	323 *	264 *	264 *	264	264 *	264 *	264 *
VA	Louisa Generation Facility	EU1	ENSR	Post MaSBD	68.2 *	68.2 *	68.2	68.2 *	68.2 *	68.2 *	27.3 *	27.3 *	27.3	27.3 *	27.3 *	27.3 *
VA	Louisa Generation Facility	EU2	ENSR	Post MaSBD	72.5 *	72.5 *	72.5	72.5 *	72.5 *	72.5 *	25.0 *	25.0 *	25.0	25.0 *	25.0 *	25.0 *
VA	Louisa Generation Facility	EU3	ENSR	Post MaSBD	53.3 *	53.3 *	53.3	53.3 *	53.3 *	53.3 *	19.6 *	19.6 *	19.6	19.6 *	19.6 *	19.6 *
VA	Louisa Generation Facility	EU4	ENSR	Post MaSBD	68.3 *	68.3 *	68.3	68.3 *	68.3 *	68.3 *	24.0 *	24.0 *	24.0	24.0 *	24.0 *	24.0 *
VA	Louisa Generation Facility	EU5	ENSR	Post MaSBD	124 *	124 *	124	124 *	124 *	124 *	65.7 *	65.7 *	65.7	65.7 *	65.7 *	65.7 *
VA	Marsh Run Generation Facility	EU1	ENSR	Post MaSBD	129 *	129 *	129	129 *	129 *	129 *	50.2 *	50.2 *	50.2	50.2 *	50.2 *	50.2 *
VA	Marsh Run Generation Facility	EU2	ENSR	Post MaSBD	168 *	168 *	168	168 *	168 *	168 *	34.8 *	34.8 *	34.8	34.8 *	34.8 *	34.8 *
VA	Marsh Run Generation Facility	EU3	ENSR	Post MaSBD	182 *	182 *	182	182 *	182 *	182 *	86.3 *	86.3 *	86.3	86.3 *	86.3 *	86.3 *
VA	Mecklenburg Power Station / Dominion - Mecklenburg Power Station	1	ENSR / TRC	Post MaSBD	601 *	601 *	601	601 *	601 *	601 *	177 *	177 *	177	177 *	177 *	177 *
VA	Mecklenburg Power Station / Dominion - Mecklenburg Power Station	2	ENSR / TRC	Post MaSBD	591 *	591 *	591	591 *	591 *	591 *	208 *	208 *	208	208 *	208 *	208 *
VA	Possum Point Power Station	3	ENSR	Pre MaSBD	-1,393 *	-1,315 *	-1,397	-1,315 *	0.0 *	-1,315 *	-1,393 *	-1,315 *	-1,397	-1,315 *	0.0 *	-1,315 *
VA	Possum Point Power Station	4	ENSR	Pre MaSBD	-2,920 *	-2,804 *	-3,004	-2,804 *	0.0 *	-2,804 *	-2,920 *	-2,804 *	-3,004	-2,804 *	0.0 *	-2,804 *
VA	Possum Point Power Station	5	ENSR	Pre MaSBD	166 *	-6,386 *	-599	-6,386 *	0.0 *	-6,386 *	166 *	-6,386 *	-599	-6,386 *	0.0 *	-6,386 *
VA	Possum Point Power Station	6A	ENSR	Post MaSBD	73.4 *	73.4 *	73.4	73.4 *	73.4 *	73.4 *	44.6 *	44.6 *	44.6	44.6 *	44.6 *	44.6 *
VA	Possum Point Power Station	6B	ENSR	Post MaSBD	99.1 *	99.1 *	99.1	99.1 *	99.1 *	99.1 *	53.8 *	53.8 *	53.8	53.8 *	53.8 *	53.8 *
VA	Potomac River	1	ENSR	Pre MaSBD	-97 *	-10 *	-163	-10 *	0.0 *	-10 *	-97 *	-10 *	-163	-10 *	0.0 *	-10 *
VA	Potomac River	2	ENSR	Pre MaSBD	-12 *	64.2 *	-76	64.2 *	0.0 *	64.2 *	-12 *	64.2 *	-76	64.2 *	0.0 *	64.2 *
VA	Potomac River	3	ENSR	Pre MaSBD	-51 *	36.5 *	-93	36.5 *	0.0 *	36.5 *	-51 *	36.5 *	-93	36.5 *	0.0 *	36.5 *
VA	Potomac River	4	ENSR	Pre MaSBD	-1,269 *	35.4 *	-81	35.4 *	0.0 *	35.4 *	-1,269 *	35.4 *	-81	35.4 *	0.0 *	35.4 *
VA	Potomac River	5	ENSR	Pre MaSBD	-1,224 *	52.5 *	3.4	52.5 *	0.0 *	52.5 *	-1,224 *	52.5 *	3.4	52.5 *	0.0 *	52.5 *
VA	Remington Combustion Turbine Station	1	ENSR	Post MaSBD	82.5 *	82.5 *	82.5	82.5 *	82.5 *	82.5 *	30.9 *	30.9 *	30.9	30.9 *	30.9 *	30.9 *
VA	Remington Combustion Turbine Station	2	ENSR	Post MaSBD	77.4 *	77.4 *	77.4	77.4 *	77.4 *	77.4 *	20.5 *	20.5 *	20.5	20.5 *	20.5 *	20.5 *
VA	Remington Combustion Turbine Station	3	ENSR	Post MaSBD	82.3 *	82.3 *	82.3	82.3 *	82.3 *	82.3 *	47.9 *	47.9 *	47.9	47.9 *	47.9 *	47.9 *
VA	Remington Combustion Turbine Station	4	ENSR	Post MaSBD	82.1 *	82.1 *	82.1	82.1 *	82.1 *	82.1 *	46.7 *	46.7 *	46.7	46.7 *	46.7 *	46.7 *
VA	Southampton Power Station	1	ENSR	Post MaSBD	442 *	442 *	442	442 *	442 *	442 *	144 *	144 *	144	144 *	144 *	144 *

VA	Southampton Power Station	2	ENSR	Post MaSBD	439 *	439 *	439	439 *	439 *	439 *	152 *	152 *	152	152 *	152 *	152 *
VA	Tenaska Virginia Generating Station / Tenaska Virginia II LP	CTGDB1	ENSR / TRC	Post MaSBD	10.4 *	10.4 *	10.4	10.4 *	10.4 *	10.4 *	5.8 *	5.8 *	5.8	5.8 *	5.8 *	5.8 *
VA	Tenaska Virginia Generating Station / Tenaska Virginia II LP	CTGDB2	ENSR / TRC	Post MaSBD	11.1 *	11.1 *	11.1	11.1 *	11.1 *	11.1 *	5.0 *	5.0 *	5.0	5.0 *	5.0 *	5.0 *
VA	Tenaska Virginia Generating Station / Tenaska Virginia II LP	CTGDB3	ENSR / TRC	Post MaSBD	11.1 *	11.1 *	11.1	11.1 *	11.1 *	11.1 *	4.9 *	4.9 *	4.9	4.9 *	4.9 *	4.9 *
VA	Yorktown Power Station	1	ENSR	Pre MaSBD	156 *	1,007 *	334	1,007 *	0.0 *	1,007 *	156 *	1,007 *	334	1,007 *	0.0 *	1,007 *
VA	Yorktown Power Station	2	ENSR	Pre MaSBD	150 *	997 *	330	997 *	0.0 *	997 *	150 *	997 *	330	997 *	0.0 *	997 *
VA	Yorktown Power Station	3	ENSR	Pre MaSBD	-1,244 *	-6,919 *	-894	-6,919 *	0.0 *	-6,919 *	-1,244 *	-6,919 *	-894	-6,919 *	0.0 *	-6,919 *
WV	Albright Power Station	1	ENSR	Pre MaSBD	259 *	-96 *	95.3	-96 *	0.0 *	-96 *	259 *	-96 *	95.3	-96 *	0.0 *	-96 *
WV	Albright Power Station	2	ENSR	Pre MaSBD	298 *	-92 *	112	-92 *	0.0 *	-92 *	298 *	-92 *	112	-92 *	0.0 *	-92 *
WV	Albright Power Station	3	ENSR	Pre MaSBD	468 *	-181 *	198	-181 *	0.0 *	-181 *	468 *	-181 *	198	-181 *	0.0 *	-181 *
WV	Fort Martin Power Station	1	ENSR	Pre MaSBD	625 *	-2,993 *	-865	-2,993 *	0.0 *	-2,993 *	625 *	-2,993 *	-865	-2,993 *	0.0 *	-2,993 *
WV	Fort Martin Power Station	2	ENSR	Pre MaSBD	828 *	-2,371 *	-281	-2,371 *	0.0 *	-2,371 *	828 *	-2,371 *	-281	-2,371 *	0.0 *	-2,371 *
WV	GenPower - Longview Plant (Morgantown)	?	TRC	TRC only	5,468 *	5,468 *	5,468	5,468 *	5,468 *	5,468 *	5,468 *	5,468 *	5,468	5,468 *	5,468 *	5,468 *
WV	Harrison Power Station	1	ENSR	Pre MaSBD	88.5 *	-29,175 *	-31,865	-29,175 *	0.0 *	-29,175 *	88.5 *	-29,175 *	-31,865	-29,175 *	0.0 *	-29,175 *
WV	Harrison Power Station	2	ENSR	Pre MaSBD	141 *	-27,471 *	-30,008	-27,471 *	0.0 *	-27,471 *	141 *	-27,471 *	-30,008	-27,471 *	0.0 *	-27,471 *
WV	Harrison Power Station	3	ENSR	Pre MaSBD	90.5 *	-29,846 *	-32,598	-29,846 *	0.0 *	-29,846 *	90.5 *	-29,846 *	-32,598	-29,846 *	0.0 *	-29,846 *
WV	John E Amos	1	ENSR	Pre MaSBD	401 *	458 *	793	458 *	0.0	458 *	401 *	458 *	793	458 *	0.0	458 *
WV	John E Amos	2	ENSR	Pre MaSBD	381 *	453 *	817	453 *	0.0	453 *	381 *	453 *	817	453 *	0.0	453 *
WV	John E Amos	3	ENSR	Pre MaSBD	800 *	397 *	-111	397 *	0.0	397 *	800 *	397 *	-111	397 *	0.0	397 *
WV	Kammer	1	ENSR	Pre MaSBD	-5,472 *	-8,396 *	-8,328	-8,396 *	0.0 *	-8,396 *	-5,472 *	-8,396 *	-8,328	-8,396 *	0.0 *	-8,396 *
WV	Kammer	2	ENSR	Pre MaSBD	-5,711 *	-8,660 *	-8,590	-8,660 *	0.0 *	-8,660 *	-5,711 *	-8,660 *	-8,590	-8,660 *	0.0 *	-8,660 *
WV	Kammer	3	ENSR	Pre MaSBD	-5,632 *	-8,494 *	-8,425	-8,494 *	0.0 *	-8,494 *	-5,632 *	-8,494 *	-8,425	-8,494 *	0.0 *	-8,494 *
WV	Kanawha River	1	ENSR	Pre MaSBD	58.5 *	48.0 *	258	48.0 *	0.0	48.0 *	58.5 *	48.0 *	258	48.0 *	0.0	48.0 *
WV	Kanawha River	2	ENSR	Pre MaSBD	25.4 *	22.2 *	227	22.2 *	0.0	22.2 *	25.4 *	22.2 *	227	22.2 *	0.0	22.2 *
WV	Mitchell (WV)	1	ENSR	Pre MaSBD	2,489 *	-20,217 *	-4,202	-20,217 *	0.0 *	-20,217 *	2,489 *	-20,217 *	-4,202	-20,217 *	0.0 *	-20,217 *
WV	Mitchell (WV)	2	ENSR	Pre MaSBD	2,543 *	-21,777 *	-4,616	-21,777 *	0.0 *	-21,777 *	2,543 *	-21,777 *	-4,616	-21,777 *	0.0 *	-21,777 *
WV	Mount Storm Power Station	1	ENSR	Pre MaSBD	-16,116 *	-18,161 *	-17,153	-18,161 *	0.0 *	-18,161 *	-16,116 *	-18,161 *	-17,153	-18,161 *	0.0 *	-18,161 *
WV	Mount Storm Power Station	2	ENSR	Pre MaSBD	-16,894 *	-19,025 *	-17,968	-19,025 *	0.0 *	-19,025 *	-16,894 *	-19,025 *	-17,968	-19,025 *	0.0 *	-19,025 *
WV	Mount Storm Power Station	3	ENSR	Pre MaSBD	-1,575 *	-956 *	-1,578	-956 *	0.0 *	-956 *	-1,575 *	-956 *	-1,578	-956 *	0.0 *	-956 *
WV	Mountaineer (1301)	1	ENSR	Pre MaSBD	-716 *	-16,752 *	-15,705	-16,752 *	0.0 *	-16,752 *	-716 *	-16,752 *	-15,705	-16,752 *	0.0 *	-16,752 *
WV	North Branch Power Station	1A	ENSR	Post MaSBD	349 *	349 *	349	349 *	349 *	349 *	215 *	215 *	215	215 *	215 *	215 *
WV	North Branch Power Station	1B	ENSR	Post MaSBD	324 *	324 *	324	324 *	324 *	324 *	209 *	209 *	209	209 *	209 *	209 *
WV	Phil Sporn	11	ENSR	Pre MaSBD	-1,609 *	-195 *	-425	-195 *	0.0 *	-195 *	-1,609 *	-195 *	-425	-195 *	0.0 *	-195 *
WV	Phil Sporn	21	ENSR	Pre MaSBD	-1,580 *	-187 *	-415	-187 *	0.0 *	-187 *	-1,580 *	-187 *	-415	-187 *	0.0 *	-187 *
WV	Phil Sporn	31	ENSR	Pre MaSBD	-1,589 *	-164 *	-402	-164 *	0.0 *	-164 *	-1,589 *	-164 *	-402	-164 *	0.0 *	-164 *
WV	Phil Sporn	41	ENSR	Pre MaSBD	-1,740 *	-209 *	-460	-209 *	0.0 *	-209 *	-1,740 *	-209 *	-460	-209 *	0.0 *	-209 *
WV	Phil Sporn	51	ENSR	Pre MaSBD	-2,429 *	-682 *	-1,074	-682 *	0.0 *	-682 *	-2,429 *	-682 *	-1,074	-682 *	0.0 *	-682 *
WV	Pleasants Energy, LLC	1	ENSR	Post MaSBD	948 *	948 *	948	948 *	948 *	948 *	133 *	133 *	133	133 *	133 *	133 *
WV	Pleasants Energy, LLC	2	ENSR	Post MaSBD	60.0 *	60.0 *	60.0	60.0 *	60.0 *	60.0 *	23.3 *	23.3 *	23.3	23.3 *	23.3 *	23.3 *
WV	Pleasants Power Station	1	ENSR	Post MaSBD	14,515 *	14,515 *	14,515	14,515 *	14,515 *	14,515 *	8,380 *	8,380 *	8,380	8,380 *	8,380 *	8,380 *
WV	Pleasants Power Station	2	ENSR	Post MaSBD	15,594 *	15,594 *	15,594	15,594 *	15,594 *	15,594 *	9,189 *	9,189 *	9,189	9,189 *	9,189 *	9,189 *
WV	Rivesville Power Station	7	ENSR	Pre MaSBD	-5 *	-285 *	-2	-285 *	0.0 *	-285 *	-5 *	-285 *	-2	-285 *	0.0 *	-285 *
WV	Rivesville Power Station	8	ENSR	Pre MaSBD	3.2 *	-599 *	15.2	-599 *	0.0 *	-599 *	3.2 *	-599 *	15.2	-599 *	0.0 *	-599 *
WV	Western Greenbrier Co-Gen	?	TRC	TRC only	733 *	733 *	733	733 *	733	733 *	733 *	733 *	733	733 *	733	733 *
WV	Willow Island Power Station	1	ENSR	Pre MaSBD	-259 *	-101 *	-266	-101 *	0.0	-101 *	-259 *	-101 *	-266	-101 *	0.0	-101 *
WV	Willow Island Power Station	2	ENSR	Pre MaSBD	-736 *	-646 *	-1,059	-646 *	0.0	-646 *	-736 *	-646 *	-1,059	-646 *	0.0	-646 *

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ATTACHMENT 3

Eastman Proposes to Invest $200 Million in Equipment to Reduce Air Emissions
Publication Date: 08 NOV 2007
Publisher: Business Wire
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KINGSPORT, Tenn., Nov. 8, 2007 (Business Wire) -- Eastman Chemical Company has proposed to install additional air pollution control equipment on five industrial boilers at its Tennessee operations in Kingsport, Tenn. The company is in the process of selecting an engineering firm and construction should take place during 2009 to 2013. The $200 million capital project is part of the $1.3 billion dollar reinvestment plan, called "Project Reinvest" announced earlier this year for the Kingsport site.

Eastman and other industries are working with the Tennessee Division of Air Pollution Control (TDAPC) to improve visibility in national parks and wilderness areas such as the Great Smoky Mountains National Park and Linville Gorge Wilderness Area. TDAPC is taking public comment on its recently released plan for visibility improvement. That plan includes Eastman's proposed project.

"This will be the largest single air pollution control project ever undertaken at Eastman's Tennessee operations," said Parker Smith, vice president and general manager of Worldwide Manufacturing Support for Eastman. "We estimate an overall 60 percent reduction in emissions of sulfur dioxide from our facility. We are hopeful this project will not only assist Tennessee in meeting its regional haze goals under the Clean Air Act, but will also help our area here in Northeast Tennessee stay 'ahead of the curve' and remain in attainment of all relevant air quality standards. Attainment status ensures our air meets all federal air quality standards at all times and that our economy can continue to grow and prosper."

Eastman's plans are to install technology that will remove an estimated 90 percent of the sulfur dioxide emitted as a by-product from the burning of coal in the five boilers. The technology includes installing spray dryer absorbers, along with replacing electrostatic precipitators with fabric filters. Spray dryer absorbers use hydrated lime to neutralize sulfur dioxide emissions. They are also effective in removing emissions of hydrogen chloride, hydrogen fluoride, sulfuric acid, and mercury.

Sulfur dioxide is not included in the Environmental Protection Agency's annual Toxic Release Inventory (TRI). However, other pollutants that will be reduced by this project are included in the TRI. From 1987 to 2005, total TRI air emissions decreased by 72.5 percent at the Kingsport site. Eastman estimates this project will reduce TRI air releases by 30 percent from 2006 levels at the company's Kingsport site.

Eastman manufactures and markets chemicals, fibers and plastics worldwide. It provides key differentiated coatings, adhesives and specialty plastics products; is one of the world's largest producers of PET polymers for packaging; and is a major supplier of cellulose acetate fibers. As a Responsible Care(R) company, Eastman is committed to achieving the highest standards of health, safety, environmental and security performance. Founded in 1920 and headquartered in Kingsport, Tenn., Eastman is a FORTUNE 500 company with 2006 sales of $7.5 billion and approximately 11,000 employees. For more information about Eastman and its products, visit www.eastman.com.

Photo Available Upon Request

Newstex ID: BW-0001-20842864 Eastman Chemical Company
Betty Payne, Corporate Communications, 423-229-4965
bpayne@eastman.com

-----Original Message-----
From: Haidar Alrawi [mailto:Haidar.Alrawi@state.tn.us]
Sent: Tuesday, December 12, 2006 4:27 PM
To: Main, Ted
Cc: John Trimmer
Subject: RE: Confirmation of specific PSD sources for Eastman Chemical

Mr. Main:
The SO2 minor source baseline date for Sullivan county (county no. 82) was triggered on 12/11/1978.
After this date, the following sources went through PSD review:
Eastman source 82-0003-60, Polyester Polymer Manufacturing, went through PSD for PM and VOC only.
Eastman source 82-0003-59, Gas-Fired Boilers F-001A, F-001B, and F-001C, went through PSD for NOx only.

Eastman source 82-1010-15, Coal-Fired Boilers 30 and 31, went through PSD on 5/28/1980 for all criteria pollutants (i.e., PM, CO, NOx, VOC and SO2) with the exception of Lead. So, only this source consumes SO2 increment. Current permit allowables for SO2 are 293 pounds-per-hour for boiler #31, and 317 pounds-per- hour for boiler #30.

Please let me know if you need actual emission rates for these two boilers and associated stack parameters for your proposed PSD increment modeling analyses.

Please let me know if you have any other questions, or need additional information.

Best regards,
Haidar

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