

Ms. Stephanie Stumbo Executive Director Kentucky Public Service Commission 211 Sower Boulevard Frankfort, Kentucky 40602

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MAR 3 1 2008 PUBLIC SERVICE COMMISSION

March 31, 2008

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Re: <u>The Application of Kentucky Utilities Company for a Certificate of</u> <u>Public Convenience and Necessity to Construct Flue Gas Desulfurization</u> <u>Systems and Approval of Its 2004 Compliance Plan for Recovery by</u> <u>Environmental Surcharge</u> – Case No. 2004-00426

Dear Ms. Stumbo:

Enclosed please find an original and ten (10) copies of Kentucky Utilities Company's Update to the 2004 SO₂ Compliance Strategy ("Update Strategy") and a presentation entitled "SO₂ Compliance Strategy – E.W. Brown FGD – Kentucky Public Service Commission Update." These two documents were presented by Company representatives at the March 19, 2008 meeting with the Commission Staff and the Attorney General in the above-referenced matter; a copy of the attendee list is attached. This information is being filed pursuant to the direction of the Commission Staff following the meeting.

Also enclosed are an original and ten copies of a Motion for Confidential Treatment regarding certain information provided in the *Update Strategy*.

Should you have any questions concerning the enclosed, please do not hesitate to contact me.

Sincerely,

Robert M. Comog /CF

Robert M. Conroy

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Update to the 2004 SO₂ Compliance Strategy For

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Subsidiaries Kentucky Utilities and Louisville Gas and Electric

March 2008



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Executive Summary

The purpose of this document is to update the 2004 SO₂ Compliance strategy including the cost estimates of the flue gas desulfurization ("FGD" or "scrubber") systems being built at Kentucky Utilities Company's ("KU's") Ghent and E.W. Brown stations, along with both quantitative and qualitative explanations that support the changes in cost. A Certificate of Public Convenience and Necessity ("CPCN") was granted and environmental cost recovery ("ECR") treatment approved by the Kentucky Public Service Commission ("Commission") on June 20, 2005 as Project KU-21 in Case No. 2004-00426. However, since Commission approval, and despite the efforts of KU to control capital costs, the cost estimate of the KU FGD program at the Ghent and E.W. Brown ("Brown") stations has increased from \$658.9 million to \$1,182.4 million, primarily driven by market prices for materials, equipment and labor, a significant scope increase for the ductwork routing of Brown units 1 and 2, and problems with the ID fans purchased for Ghent 3, Ghent 4 and Brown 3. In addition, it has been determined that the optimal construction schedule at Brown is one year longer than originally planned, with an in-service date in 2010.

The changes in capital cost, combined with the changes in the forecasted prices of SO_2 allowances and fuel necessitate a re-evaluation of the Companies' 2004 least-cost SO_2 compliance plan. On December 22, 2006, the Commission approved in Case No. 2006-00493 an application for changes to the Ghent FGD CPCNs that also included an update to the Ghent FGD project¹ in general and demonstrated that the addition of FGDs at Ghent continues to be the least-cost next step in environmental compliance. In April 2007, the Commission was presented with a further program update that demonstrated that the plan to construct an FGD on Brown Units 1, 2 and 3 continued to be economical. The purpose of this review is to evaluate whether the continued construction of wet FGD systems on Ghent Units 1, 3 and 4 and Brown Units 1, 2 and 3 and the simultaneous switching of these units to high sulfur coal is the least-cost plan for continued environmental compliance.

The scrubbing and fuel switching of the remaining units at Ghent and the construction of an FGD system at Brown in conjunction with purchasing SO_2 allowances on an asneeded basis, remains the least-cost SO_2 compliance plan. Though the addition of the FGD systems does not eliminate the need to purchase SO_2 allowances, the installation of environmental controls significantly reduces the need to purchase SO_2 allowances and is required for continued economical compliance with the SO_2 emission reduction requirements of the Clean Air Act Amendments of 1990. Over the 20-year analysis period, completing KU's FGD program should:

¹ In the Matter of: Application of Kentucky Utilities Company to modify certain Certificates of Public Convenience and Necessity to construct ductwork for two flue gas desulfurization units at the Ghent power station, Order dated December 22, 2006, finding 4 at Page 4 - "KU's updated PVRR analysis demonstrates that constructing three new FGDs at the Ghent Station continues to be the most cost-effective means for KU to comply with the relevant emission limits imposed by the CAIR."



- 1. Decrease the cost of SO₂ compliance by approximately \$224 million in PVRR compared to not scrubbing Ghent 1 and by \$99 million compared to not scrubbing the Brown units;
- 2. Delay exhausting the Companies' SO₂ allowance bank until 2021 and reduce the allowance shortfall to approximately 173,000 tons through 2028;
- 3. Increase fuel procurement flexibility;
- 4. Position the Companies for the SO₂ reduction requirements associated with the CAIR and future regulations targeting fine particulates and mercury; and
- 5. Increase typical residential customers' bills (1000 kWh/month) by \$2.17/month, which equates to a 3.5% increase in ECR billing factor above KU's original estimate in Case No. 2004-00426.

The Companies will continue to construct an FGD for Ghent 4 in 2008, for Ghent 1 in 2009, and for Brown 1, 2 and 3 in 2010, while purchasing allowances on an as-needed basis and continuing the practice of environmental dispatching. The Companies will also evaluate additional environmental technologies for existing generating assets.

Background

The Clean Air Act Amendments of 1990 ("CAAA") sought to reduce the effects of acid deposition through a phased reduction in SO₂ and NO_x emissions from 1980 levels in the 48 contiguous states. Subsequently, the Clean Air Interstate Rule ("CAIR") was finalized by the Environmental Protection Agency in March 2005. CAIR requires significant additional reductions/limits in phases for NO_x and SO₂. With regard to SO₂, CAIR will reduce the allowable SO₂ emissions of Kentucky Utilities Company ("KU") and Louisville Gas & Electric Company ("LG&E"), (collectively "the Companies") by approximately 50% in 2010 and 65% in 2015.

In order to comply with these regulations, the Companies have constructed flue gas desulfurization ("FGD") systems on many of the fleet's coal-fired units (Ghent 1, Trimble County 1, Mill Creek 1-4 and Cane Run 4-6). By increasing the FGDs' SO₂ removal efficiency where economically feasible, LG&E is expected to meet CAAA Phase II requirements and provide a bank of SO₂ allowances. The Companies' joint planning process assumes that allowances banked by either utility can be utilized by either Company, thereby mitigating the combined Companies' exposure to the volatile SO₂ allowance market.

On December 20, 2004, the Companies filed with the Commission an application for a Certificate of Public Convenience and Necessity ("CPCN") and environmental cost recovery ("ECR") treatment for additional wet FGD systems on E.W. Brown ("Brown") units 1, 2 and 3 and the remaining un-scrubbed units at Ghent. On June 20, 2005, the Commission approved these projects under Project KU-21 in Case No. 2004-00426. Since that time, the Companies have proceeded with the construction of these projects. On November 16, 2006, the Companies filed an application for changes to the Ghent FGD CPCNs. That application, which also included an update on the Ghent FGD project in general, was approved as Case No. 2006-00493 on December 22, 2006. On April 26, 2007, the Commission was presented with a further program update of market impacts on the program total projected cost that demonstrated that the plan to construct an FGD on Brown Units 1, 2 and 3 continued to be economical. The purpose of this document is to provide a further update on KU's FGD program.

KU's total program expenditures and commitments to date at the Ghent station are \$522 million of the total \$682 million in capital, where commitments means KU has approved major purchase orders. The Ghent 3 FGD was placed into service in 2007 as planned and the Ghent limestone preparation facility is currently being commissioned as planned. The Ghent 4 FGD is nearing completion and will be commissioned in late spring 2008 as planned, and the Ghent 1 FGD is on schedule for the spring 2009 commissioning. The Ghent 1 FGD is the only construction activity that remains at risk of increasing costs due to market influences (i.e., labor and consumable materials prices). Although all major equipment and large purchase orders have been awarded on Ghent 1, a significant amount of field construction remains to complete the FGD.

KU's total program expenditures and commitments to date at the Brown station are \$182 million of the total \$500 million in capital, where commitments means KU has approved

major purchase orders. Recent photographs of this construction can be found in **Appendix 1**. Since 2004, several factors impacting the cost of the Brown FGD project have changed, as discussed in the following section. The goal of this revised evaluation is to identify the current least-cost plan, given the impact of these new factors.

Significant Changes since 2004 Filing

Since the 2004 SO_2 Compliance Strategy for Kentucky Utilities Company and Louisville Gas and Electric Company was finalized and submitted to the Commission in Case No. 2004-00426, significant changes have occurred that have impacted the following key drivers of least-cost environmental evaluations.

- SO₂ allowance market
- Fuel price forecasts
- FGD capital costs and the construction schedule for the FGD at Brown.

SO₂ Allowance Prices

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Previous testimony documented the change in expectations since the 2004 ECR Application regarding the higher cost of SO₂-related CAIR compliance over the longer term. ² This expectation of higher SO₂ emissions allowance costs supports a strategy of FGD construction rather than purchasing allowances from the allowance market.

The following graph highlights the change in SO_2 allowance cost projections since the original ECR filing, as previously noted in the April 2007 update. Though the near-term price forecast has weakened slightly, the long-term forecast remains high. This robust projection of longer-term SO_2 allowance costs stems from a fuller understanding of the long-run marginal cost of complying – through retrofitting existing generation capacity – with a tightening constraint on physical emissions. The following recent developments in construction and commodity markets have intensified the challenge of meeting reduction targets for emissions:

- Construction costs for building FGDs have increased, due in part to materials, labor, and contractor availability issues;
- Higher natural gas prices encourage continuing reliance on coal-fired generation, slowing the trend in physical reduction of emissions and thereby adding upward pressure to the SO₂ allowance market;
- Similarly, plans for coal-fired generation capacity additions in excess of the level underlying the 2004 forecast add further upward pressure to the SO₂ allowance market; and
- Recent increases in the price-spread between low-sulfur and high-sulfur coals have created incentives to switch fuels, where operationally feasible, contributing to the challenge of reducing emissions and supporting higher prices for SO₂ allowances.

² See Case No. 2006-00493, Testimony of John P. Malloy (page 11, beginning line 6)



Forecasted SO₂ Emissions Allowance Prices

···· 2004 ECR Filing — April 2007 Update — March 2008 Update

High and Low Sulfur Coal Prices

The most recent coal forecast for deliveries to the Ghent Station continues to show that high sulfur coal will be delivered at a significant discount to low sulfur coal. As shown in the figure below, a comparison of the current forecast to the forecast used in the October 2006 Update shows that the low/high sulfur fuel price gap has remained generally unchanged. When compared to the fuel price gap used in the 2004 ECR Filing (Case No. 2004-00426), the price gap has increased in the near term as a function of current market conditions and in the long term as a result of an expected depletion of low sulfur eastern compliance coal in Central Appalachia. This comparison also reflects a belief that this gap will decrease through 2013 as more FGDs are installed and some low sulfur coal demand shifts to high sulfur.



Fuel Price Gap Between Low and High Sulfur Coal at Ghent

In the April 2007 update, the near-term forecasted price for Eastern Kentucky low sulfur coal, which is currently burned at Brown, was shown to have increased relative to the forecast that was used in the 2004 ECR Filing (Case No. 2004-00426). This increase resulted in a significant increase in savings for 2009-2012 of 10-20 cents/mmBtu, when switching from low sulfur fuel to high sulfur coal. Due to recent transportation cost increases for low sulfur coal and decreases for high sulfur coal, the forecasted low/high sulfur fuel price gap and the resulting increase in savings is currently forecasted to continue through the study period as demonstrated in the following graph.

Fuel Price Gap Between Low and High Sulfur Coal at Brown



····· 2004 ECR Filing — April 2007 Update — March 2008 Update

At both the Ghent and Brown stations, the increases in the forecasted low/high sulfur fuel price gaps continue to make physical compliance with CAAA and CAIR a more economic alternative than financial compliance through reliance on the allowance market. As the fuel price spread increases, fuel savings associated with scrubbing increase, which reduces the overall cost of compliance. As a result the Companies' customers receive the benefit of relatively lower fuel prices through the calculation of the monthly Fuel Adjustment Clause.

Capital Costs

Since Commission approval, and despite the efforts of KU to control capital costs during an unprecedented construction market, the cost estimate of the KU FGD program at the Ghent and Brown stations has increased from \$658.9 million to \$1,182.4 million. This increase is primarily driven by the extraordinary escalation of market prices during 2006 and 2007 for materials, equipment and labor. In addition to market influences, scope refinements have been required to account for geological conditions and vendor equipment issues unforeseen in the original project planning. The subsections below describe the significant market and scope drivers for Ghent and Brown.

Ghent

The original estimate performed in early 2004 to construct three wet FGDs on Ghent Units 1, 3 and 4 was \$425 million. By October 2006, market impacts from unprecedented escalation of labor, equipment and material costs in the construction industry worldwide, as well as furthering of engineering on scope finalization had increased the projected costs to \$525 million.

In April of 2007, the estimated cost to complete the Ghent project had increased to \$569 million to capture the cost impacts of revised forecasts from project contractors. The contractor forecasts had been adjusted to reflect actual expenditures to date, change orders received, and revised forecasted trend to final costs that incorporated then-current market prices and labor retention incentives.

In addition to the increases in labor, equipment and material costs described above, the estimated completion cost for the Ghent project is being impacted by issues associated with the installation of the Flakt Woods' Induced Draft ("ID") Fans on Ghent 3. Ghent 3's ID fans have experienced substantial failures since being placed into service in 2007. Identical fans have been purchased for Ghent 4 and Brown 3 from Flakt Woods. Resolution of these fan issues is described in detail later in this paper; however, current projections of impacts to the Ghent budget are estimated at \$30 million.

In summary, the cost impacts from market impacts, ID fan problems and final scope determinations are:

•	Market Impacts (Labor, Material, Equipment)	\$109m
٠	ID Fans	\$ 30m
٠	Scope Refinements (Limestone System/Balance of Plant)	<u>\$ 82m</u>
	-	\$221m

The current estimate for the Ghent FGD program is \$682 million.

Approximately 68% of the Ghent Program dollars have been spent to date. Unit 3's FGD was placed into service in 2007, while the Ghent Limestone Preparation Facility will be completed by April 2008 and Unit 4's FGD commissioned in June 2008. The Unit 1 foundation is complete, absorber tower and chimney erection is in progress, and all major equipment contracts and subcontracts have been awarded. Therefore, the remaining risks lie in the potentially greater escalation in the costs of construction labor, materials used during construction (excluding major purchase orders), consumables and rental equipment as compared to the escalation rates used in the estimate.

Ghent ID Fan Issues – In October 2006, the purchase order for the ID fans to be used at Ghent 3, Ghent 4 and Brown 3 was issued to a Swedish vendor, Flakt Woods. The fans were installed on Ghent 3 in May 2007. Problems such as motor oil leaks and motor bearing issues were experienced in June 2007. These issues were quickly followed by blades sticking, ID fan bearing failure, and galling of the main blade drive shaft. To date, the fans on Ghent 3 have caused numerous outages and de-rate incidents. The fans continue to be unreliable and continuing problems are anticipated going forward. Though the Company's preference for long-term resolution is to resolve the bearing failures, a realistic forecast includes the need to replace the Flakt Woods fans with new fans. Implementation of either option will impact project costs.

As a result of lessons learned on Ghent Unit 3's ID fans, KU re-bid replacement fans for Ghent 3, Ghent 4 and Brown 3. The short-term resolution for Ghent 4 to avoid the

unreliability of the Flakt Woods fans is to use the existing ID Fans for the FGD start-up in 2008. Unit 4 will experience a 5-10% de-rate at maximum capacity as a result of using the existing lower capacity fans; however, unit reliability will be maintained and fuel savings and allowance bank preservation will approach planning levels as the FGD goes in service. The derate will only occur when the unit is required to generate within 5%-10% of its maximum capacity.

Long-term options for the Ghent 3 ID fans include resolving the bearing failure issues and implementing those solutions on the Unit 4 fans, or replacing the Ghent 3 fans with new fans. The current forecasted cost to completely resolve the ID fan issues includes \$30 million to replace the existing Flakt Woods fans with fans from other vendors.

Brown

The original November 2004 estimated cost for the Brown FGD Program was \$235 million. This estimate was increased to \$359 million in April 2007 primarily due to increases on ductwork, market impact for materials and labor and changes to the limestone system.

Current estimates for the Brown FGD total \$500 million. Primary drivers in the cost increases remain material, equipment and labor cost escalations, as well as finalization of scope and resolution to the ID fan issues on Brown 3.

In summary, the cost impacts from market impacts, ID fan problems and final scope determinations are:

٠	Market Impacts (Labor, Material, Equipment)	\$116m
٠	Ductwork and ID Fans	\$ 74m
٠	Scope Refinements (Limestone System/Balance of Plant)	<u>\$ 54m</u>
		\$244m

Currently the Brown FGD Program has \$182 million committed or 36% of the estimated total cost of \$500 million. The FGD portion of the project is 37% committed with the FGD foundations, technology and module under construction and awarded through lump sum contracts. The balance of plant scope is 95% committed and nearly completed, including the completion of the warehouse, training building and fire suppression system. The limestone system is 24% committed and includes use of the original Ghent limestone equipment to control overall impacts to the Brown cost. The majority of major equipment has been committed for all scopes listed above. The most significant risks continue to be escalation of construction labor, materials used during construction (excluding major purchase orders), consumables and rental equipment beyond those estimated. The contractor has included in the current estimate \$33 million in contingency to account for potential escalations.

Brown's Schedule Change - The Brown FGD was originally expected to be placed in service in 2009, with a tie-in to Unit 3 in the spring of 2009 and to Units 1 and 2 during the fall of 2009. The Brown FGD is now expected to be in service in 2010, with a Unit 3

tie-in during the spring of 2010 and a tie-in to Units 1 and 2 during the fall of 2010. Contributing factors to this altered schedule are the contractor's revised labor estimate and the receipt of ID fan delivery lead times quoted in the ID fan replacement bids. Lead times in the Brown ID fan bids indicated 60 weeks from the date of order, making the original in-service date impossible. This one-year extension will allow the Company greater flexibility to optimize the construction plans, as well as to implement alternative contracting plans where feasible.

Brown Station's Unique Characteristics - A significant driver in Brown's overall cost is the unique features at Brown that are significantly different from the Ghent FGD projects as well as most other FGD projects throughout the United States.

Absorber - Having multiple boiler units at the Brown Station served by a single FGD absorber module necessitates having a larger absorber vessel and equipment for associated systems, as compared to those for the single Ghent units. The increased cross-sectional area of the larger absorber drives an increase in the quantities of mist eliminator panels, mist eliminator wash nozzles and piping, recycle nozzles and piping and in heavier support structure for those components. The Brown FGD also has an additional recycle spray header level and associated equipment to scrub the additional units.

Duct - The Brown Units are confined on three sides by existing roads, railroads, fuel yard, cooling towers and associated piping, and overhead electrical lines. Due to the lack of available space, the FGD was located on the open side, next to Unit 3. This location was the only viable location; however, it required a long duct run from Brown 1 and 2. The additional ducting results in additional costs for expansion joints, support structure, foundations, and insulation and lagging. This additional cost is magnified by the fact that Brown 1 and 2 are arranged inverted to Unit 3, thus requiring longer duct length. Additional cost beyond a single FGD unit is caused by additional dampers and controls, which are necessary to isolate each unit to optimize Station operations.

Site Topography and Geology - In order to make room for the FGD, the existing training building and warehouses in the area had to be demolished and replaced. Then, the area available for the FGD and limestone systems required extensive blasting and excavation to level the limestone hillside. Upon completion of the blasting and excavation, Karst features that were known to exist were investigated and final scoping of the excavation, geology remediation and foundation designs were finalized. This final scoping was not possible until final FGD sizing, location and excavation were completed.

Terrain - The Brown terrain results in more difficult excavation and increased excavation quantities. The shallow limestone rock requires blasting for deep foundation excavations, as well as frequent hoe-ramming or rock trenching for shallow excavations. The terrain and rocky soil conditions result in high unit rates for underground utilities, foundations, as well as the electrical grounding grid when compared to similar scopes at Ghent.

Balance of Plant (BOP) - The lack of existing capacity for utilities such as service water, fire protection systems, compressed air and quench water cause the project to have to upgrade existing systems or install new utility systems. Final impacts to the balance of plant systems are now known. In addition to these balance of plant scopes, the handling and dewatering of the gypsum, produced as an FGD process byproduct, will be a new system at Brown where Ghent's existing system required only modifications.

Economic Analysis

The June 2005 Order³ issued by the Commission approving both the CCN and ECR cost recovery of the proposed FGD projects at the Companies' Ghent and Brown stations was based on supporting analytics that the FGDs represented the most reasonable least-cost plan for continued environmental compliance. A revised present value revenue requirements ("PVRR") evaluation of the economics of constructing FGDs at Ghent and Brown has been completed with the previously mentioned changes regarding fuel prices, project timing, and capital costs. The purpose of this updated evaluation is to identify the current least-cost plan, given the revised forecasts. To do so, individual alternatives were compared to the Base Case which represents the Companies' current plan to complete two FGDs at Ghent and build one FGD for all three Brown units (in-service in 2010). In all cases, only a wet FGD with a 98% SO₂ removal efficiency is considered.

The Cases were evaluated using the PROSYMTM detailed hourly production costing computer model and the Strategist Capital Expenditure and Recovery module. Used together, these tools have the capability to simulate the hourly production costs (e.g., fuel, fixed and variable operation and maintenance, and emissions costs) and to quantify the revenue requirements impact associated with each capital project. **Appendix 2** contains economic and forward-looking assumptions used in this analysis. Each alternative was independently evaluated within PROSYMTM using the Companies' base price forecasts for fuel and SO₂ and NO_x allowances and the estimates for capital construction costs as previously discussed.

The total PVRR for each Case has been categorized into four areas:

- 1. <u>Production Costs</u> represent the revenue requirements associated with fuel, fixed and variable operation and maintenance expenses and purchased power expenses.
- 2. <u>NO_x Allowances</u> represents the revenue requirements associated with the use of any NO_x allowances less the sale of excess NO_x allowances. Note that NO_x

³ In the Matter Of: <u>The Application of Kentucky Utilities Company for a Certificate of Public Convenience</u> <u>and Necessity to Construct Flue Gas Desulfurization Systems and Approval of its 2004 Compliance</u> <u>Plan for Recovery by Environmental Surcharge</u>, Case No. 2004-00426, Final Order dated June 20, 2005.

emission levels are quantified because the retrofitting of an SO_2 control technology impacts how that unit is dispatched, which in turn, affects NO_x tonnage emissions.

- 3. <u>SO₂ Allowances</u> represents the revenue requirements associated with the use of any SO₂ allowances less the sale of excess SO₂ allowances.
- 4. <u>Incremental Capital Costs</u> represents the revenue requirements associated with any capital expenditures for the Case less the revenue requirements associated with any sunk capital costs.

The value of SO_2 and NO_x allowances used are calculated as the net annual difference between the Companies' allocated and used allowances at the respective market prices, thereby including the economic value of using banked allowances. It is assumed that unlimited allowances are available from the market at the forecasted allowance price.

Ghent Evaluation

In order to identify the least-cost compliance strategy at Ghent, the Base Case was compared to a "Without Ghent 1 FGD Case" in which the FGD at Ghent 4 is completed as scheduled in May 2008 and the FGD at Ghent 1 is not completed. No further construction is assumed to take place and current contractual commitments are fully satisfied, resulting in a nominal capital expenditure savings of \$52.2 million. The Brown FGD is assumed to be completed in both cases.

SO₂ Compliance Strategies Evaluated for Ghent

		Ghent FGD Capital
Case	Construct FGDs at	<u>Cost¹ (\$M)</u>
Base Case	Ghent 1,3,4	\$682.5
Without Ghent 1 FGD	Ghent 3,4 only	\$630.3

¹ Total FGD Capital Costs are the sum of annual (nominal dollars) construction expenditures.

The Ghent Case Summary table below summarizes the four main cost categories and compares the resulting PVRR of the "Without Ghent 1 FGD Case" to that of the Base Case. The table is a summary of the annual data contained in Appendices 3 and 4. Appendix 3 presents the annual results of each Case compared to the Base Case while Appendix 4 details the SO₂ emissions associated with each Case.

Production Cost	NO Allowances	SO Allowances	Incremental Capital Cost	Total PVPP	Incremental Cost over Base
13.810			64	10tar 1 VKK	Base
13,965	3	258	0	14,225	224
	13,810 13,965	13,810 -1 13,965 3	13,810 -1 129 13,965 3 258	Production Cost NO, Allowances SO, Allowances Capital Cost 13,810 -1 129 64 13,965 3 258 0	Production Cost NO, Allowances SO, Allowances Capital Cost Total PVRR 13,810 -1 129 64 14,001

2008 PVRR \$ millions; Production & allowance costs estimated 2008-2028; Both cases include Brown FGD in 2010; 8.02% discount rate

As can be observed in the table above, the approved current plan (Base Case) to build an FGD on Ghent 1 with an in-service date of 2009 (in addition to completing the FGD on Ghent 4 in May 2008) remains the least-cost option at Ghent by a sizeable margin. This plan results in a PVRR that is \$224 million lower than the "Without Ghent 1 FGD" option. Though the "Without Ghent 1 FGD Case" requires less capital, the savings are not sufficient to offset the resulting increased production and SO₂ allowance costs.

Beginning in 2000, it became necessary for the Companies to begin using banked SO_2 allowances for compliance. As the figure below shows, the Companies' combined banked SO_2 allowances, once in excess of 297,000 tons (during 1999) had declined to just over 147,000 tons by year-end 2007. The number of banked credits for the Base Case is projected to be fully depleted before the end of 2021. The Base Case delays the need to purchase SO_2 allowances by five years compared to cancelling the Ghent 1 FGD, which requires an additional 304,000 tons over the study period.



SO₂ Allowance Bank (Combined Company)

Historical ···· Base Case - GH1 FGD-2009, BR FGD-2010

Brown Evaluation

In order to identify the least-cost compliance strategy at Brown, the Base Case which includes building one FGD for all three Brown units with an in-service date in 2010, was compared to a one-year delay scenario (in-service in 2011). In addition, a "Without Brown FGD" Case was included in which the FGD would not be completed at the Brown station and no further construction would take place, although the Company would satisfy current contractual commitments at an estimated capital expenditure of \$174 million, plus \$120.2 million for the ash pond. The Ghent FGDs are assumed to be completed in all cases. The table below summarizes the three SO₂ compliance strategies at Brown that were evaluated in this update.

SO₂ Compliance Strategies Evaluated for Brown

			Brown FGD	
		In- Service	Capital	Ash Pond
Case	Construct FGD at	Date	Cost ¹ (\$M)	<u>Cost¹ (\$M)</u>
Base Case	Brown Units 1,2,3	2010	\$499.9	\$153.0
Delay Case	Brown Units 1,2,3	2011	\$533.5	\$156.2
Without Brown FGD	None (Purch. Allowances)	n/a	\$174.0	\$120.2
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¹ Total FGD Capital Costs and Ash Pond Costs are the sum of annual (nominal dollars) construction expenditures.

The Brown Case Summary table below summarizes the primary cost categories and compares the resulting PVRR of each Case to that of the Base Case. The table is a summary of the annual data contained in **Appendices 3 and 4**. **Appendix 3** presents the annual results of each Case compared to the Base Case while **Appendix 4** details the SO_2 emissions associated with each Case.

	DIOM	n Case Summ	агу			
Case	Production Cost	NO, Allowances	SO ₂ Allowances	Incremental Capital Cost	Total PVRR	Incremental Cost over Base
Base Case - BR123 FGD in 2010	13,810	-1	129	552	14,490	Base
Delay Case - BR123 FGD in 2011	13,805	-1	155	589	14,547	58
Without Brown FGD	13,885	-3	567	140	14,588	99

Brown Case Summary

2008 PVRR \$ millions; Production & allowance costs estimated 2008-2028; All cases include Ghent 1 FGD in 2009; 8.02% discount rate Incremental capital cost includes the Brown ash pond

As can be observed in the table above, the current plan (Base Case) to build an FGD on Brown Units 1, 2 and 3 for an in-service date of 2010 is the least-cost option and results in a PVRR that is \$58 million lower than the second least-cost option of completing the FGD in 2011. Though the "Without Brown FGD" Case requires less capital, the savings are not sufficient to offset the resulting increased production and SO₂ allowance costs, resulting in a PVRR that is \$99 million higher than the Base Case.

As shown in the figure below, the Base Case delays the need to purchase SO_2 allowances by two years compared to the second least-cost Case (Delay Case – Brown FGD in 2011) which requires an additional 56,000 tons over the study period. The "Without Brown FGD" Case necessitates purchasing SO_2 allowances starting in 2012 and significantly increases SO_2 allowance market exposure by requiring 1.2 million total tons to be purchased over the next twenty years.



SO₂ Allowance Bank (Combined Company)

Discussion of Base Results

Each of the FGD build alternatives allows the postponement of the Companies' initial SO_2 allowance purchases. However, no alternatives allow for all of the SO_2 allowances required to comply over the twenty-year study period to be provided without purchasing allowances from the SO₂ allowance market. With the Base Case, exposure to the volatile SO_2 market is mitigated, but the market is still relied on for approximately 173,000 tons to supply the allowance shortfall over the period. The figure below illustrates the difference between the Companies' projected annual Base Case SO₂ emissions and the Companies' anticipated annual allowable emission level. The difference between SO₂ emissions and allowance allocations is currently being covered by banked allowances. The implementation of Phase II of CAIR significantly widens the gap between the allowable emission level and forecast emissions. Though the annual allocation of SO₂ allowances does not change with the implementation of Phase I and Phase II of CAIR, allowed emission levels in tons are reduced dramatically. This is because the CAIR requires, beginning in 2010 (Phase I), that each ton of emitted SO_2 be matched with two allocated or purchased SO2 allowances. The implementation of Phase II of the CAIR further limits allowed emissions by requiring that each ton of emitted SO₂ be matched with three allocated or purchased SO₂ allowances.



Annual SO₂ Emissions and Allocated Emissions Level

• Combined Company EPA Allocated SO2 Emission Level · · · ■ - · · Base Case - GH1 FGD-2009, BR FGD-2010

Least-Cost Plan and SO₂ Compliance Strategy

Completing wet FGDs on Ghent 4 in 2008 and on Ghent 1 in 2009 in addition to a wet FGD system for Brown 1, 2, and 3 for service starting in 2010 is the current least-cost Case. Since the original filing, significant increases in the project's capital costs and a one-year long construction schedule at Brown have been partially offset by increases in SO₂ allowance price forecasts and the near-term price gap between high and low sulfur coal.

Without scrubbing at Brown, the Companies face a significant SO₂ allowance shortfall of over 1.2 million tons through 2028. Not scrubbing at Ghent 1 exposes the Companies to a shortfall of 475,000 SO₂ tons. Though the Base Case allows the shortfall of allowances to be economically mitigated, future allowance purchases of 173,000 tons are still expected.

Scrubbing and fuel switching of the remaining units at Ghent and the units at Brown, in conjunction with purchasing SO_2 allowances on an as-needed basis, is the least-cost SO_2 compliance plan with the following impacts projected over the 20 year analysis period:

- 1. Decreases the cost of SO_2 compliance by approximately \$224 million in PVRR compared to not scrubbing Ghent 1 and by \$99 million compared to not scrubbing the Brown units;
- 2. Delays the depletion of the Companies' SO₂ allowance bank until 2021 and reduces the allowance shortfall to approximately 173,000 tons through 2028
- 3. Increases fuel procurement flexibility;

- 4. Positions the Companies for the SO₂ reduction requirements associated with the CAIR and future regulations targeting fine particulates and mercury; and
- 5. Increases typical residential customers' bills (1000 kwh/month) by \$2.17/month, which equates to a 3.5% increase in ECR billing factor above KU's original estimate in Case No. 2004-00426.

Overall, nothing has occurred that has changed the Companies' strategic decision to build FGDs in order to comply with SO_2 regulations. Therefore, the Companies plan to move forward with the implementation of the Base Case: (1) to construct an FGD for Ghent 4 in 2008, for Ghent 1 in 2009, and for Brown 1, 2, and 3 in 2010; (2) to purchase allowances on an as-needed basis; and (3) to continue the practice of environmental dispatching. Additionally, the Companies will evaluate additional environmental technologies for existing generating assets.

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Appendix 1



The picture above, of the Brown construction, (dated 3/14/2008) shows the main FGD foundation with the recycle pumps sitting under the partially erected steel structure next to the absorber. The absorber area sump is located in the photo immediately to the left of the absorber. The partially erected steel structure will provide support and access for the piping that will be installed in the area above the recycle pumps. The chimney can be seen in the upper center of the photo and the limestone preparation building will be built on the rectangular foundation that can seen in the middle right of the photo.

Absorber Area Sump Preparation Bldg. Foundation

Main FGD

Foundation



The picture above (dated 3/12/2008) shows a closer view of the FGD area from a different angle. In the background behind the steel structure, the edge of the excavated area indicates the amount of soil that was removed and the amount of rock that was blasted and excavated to prepare the site for the FGD construction.



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Update to the 2004 SO₂ Compliance Strategy

Appendix 1- Construction Photos – E.W. Brown Station

The picture above (dated 3/12/2008) shows the fire protection/quench water tank and pump enclosure. The tank will be a dual purpose tank that will hold and supply water for the fire protection system for the new items being installed as part of the FGD Project and will supply water for the quench water system that will quench the flue gas in case of a process upset where recycle pump flow is lost. Without quenching of the flue gas, the FRP mist eliminator panels would be overheated and damaged.



The above photo (dated 3/12/2008) shows the balance-of-plant work that has been done to install new electrical manholes and underground ductbanks for the conduits to contain power, controls and communications cables between the existing plant and the new FGD items in addition to new fire hydrants and new underground fire protection piping that have been installed.



Update to the 2004 SO₂ Compliance Strategy Appendix 1- Construction Photos – E.W. Brown Station



The above photo (dated 3/12/2008) shows the new warehouse.



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Appendix 2



- Base Case: Scrub Ghent consistent with the Commission's Order in Case No. 2004-00426. Scrub Brown with an in-service date in 2010.
- Study Period: 20-year period for Production Cost impacts (2008-2028) 30-year period for Capital Costs impacts (2008 through book life of project).

The production costs include items such as fuel, O&M and purchase power and are estimated using the PROSYM production model. This model was run for the 2008-2028 time period.

The revenue requirements associated with capital costs are determined via the Capital Expenditure and Recovery module of the Strategist production and capital costing software. Capital projects with a 20 year book/tax life and an in-service date after 2008 would have the last years of their life excluded from the revenue requirement calculation if capital costs impacts were halted at 2028. Doing so would have the effect of underestimating the capital cost of alternatives and would favor construction of new projects. Therefore, to completely account for capital projects were extended through the end of their book life.

- KU/LGE continues as a regulated entity subject to the oversight of the Kentucky Public Service Commission and the Commission continues to require the Companies to implement the least reasonable-cost strategy to the benefit of the native load customers.
- Capital costs, O&M costs, and the costs of increased emissions (both NO_x and SO₂) associated with the addition of new environmental projects will be subject to recovery through the Environmental Cost Recovery mechanism.

• Financial Data

ciai	Data	
≻	Discount Rate (%):	8.02 %
\succ	Federal Income Tax Rate (%)	38.9 %
\triangleright	AFUDC Rate (%):	8.02 %
\succ	Insurance Rate (%):	0.07 %
\triangleright	Property Tax Rate (%):	0.15 %
\triangleright	Percentage of Debt in Capital Structure (%):	44.05 %
\triangleright	Debt Interest Rate/Weighted Cost of Debt (%):	4.88%
\succ	Desired Return on Rate base (%):	8.02%
\succ	Capitalized Interest Debt Rate (%):	4.88%
\triangleright	Environmental Projects Book Life (years):	20 years
≻	Environmental Projects Tax Life (years):	20 years
×	Annual Fixed O&M escalation rate (%):	1.6% (prorated for mid-year installs)
\triangleright	Annual Variable O&M escalation rate (%):	1.6%

• No unit retirements occur on the Companies' generating system within the study period.



 SO₂ Emission Costs (Base Assumption) Note that the effects of CAIR are reflected in the forecasted price of SO₂ emissions allowances.



- Fuel Forecast (Base Assumptions) Confidential information redacted
 - Fuel cost savings associated with serving native load will be returned to the ratepayer though the Fuel Adjustment Clause mechanism.





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Appendix 3

Update to the 2004 SO₂ Compliance Strategy U.S. Appendix 3- Comparison of Various SO₂ Compliance Plans (Base Capital Costs, Base SO₂ Market Prices) Confidential Information Redacted

					Cost	Compa	rison of A				ance Pla	115				
						- a name i feit in contac	All Costs	alet travest existence of	anna an ann an an an an an an an an an a	www.www.com	vecno constantino	Altornariant	anan an			
se C	ase - GH1	I FGD in 20	09 (Brown F	GD in 2010)			Without GF	i1 FGD (Bi	rown FGD in	2010)				Price Curve	Multipliers
.c.0735.		NOX	Fuel Forecast: Load Forecast: Price Forecast: Price Forecast: her Description:	Base Base X 1 Base X 1	·	t Sensitivity %		- 1 V. 6 2 4 7 6 1 5 4 5 1 1 2 4 7 10 10 10	NOX	Fuel Forecast: Load Forecast: Price Forecast: Price Forecast: her Description:	Base Base X 1 Base X 1 Walkaway from (ost Sensitivity %:		SO ₂ NO _X	<u>1.00</u> <u>1.00</u>
Ę	Environment	al Controls:		0					Environn	nental Controls:	0					
	Unit Brown 1 Brown 2 Brown 3	<u>SO2 Rem %</u> 98% 98% 98%	SO2 Tech Wet FGD Wet FGD Wet FGD	SO2 In-Serv 2010 2010 2010	NOX Tech LN9 (1993) LNCFS I (1994) LNCFS II (1992)	<u>SCR In-Serv</u> 0 2012 2003	NOx Tech Cost (MS)	Unit Brown 1 Brown 2 Brown 3 Ghern 1	<u>SQ2 Rem %</u> 98% 98% 98% 94%	SOZ Tech Wet FGD Wet FGD Wet FGD Existing FGD	<u>\$02 In-Serv</u> 2010 2010 2010 1992	NOX Tech LNB (1993) LNCFS I (1994) LNCFS III (1992) LNCFS II	0 0 2012 2003	<u>NOx Tech Cost (MS)</u>		
	Ghent 1 Ghent 2	94% / 98% 94%	Existing FGD FS HS+Wet FGD	1992	LNCFS LNCFS (2000)/SCR (2009)	2003		Ghent 2	9% 0%	FS HS+Wet FGD	0	LNCFS (II (2000)/SCR (2009)	2015			
	Ghent 3	98%	FS HS+Wet FGD	2007	LNB & OFA (1998) LNB & OFA (1999)	2003 2003		Ghent 3 Ghent 4	98% 98%	FS HS+Wet FGD FS HS+Wet FGD	2007 2008	LNB & OFA (1998) LNB & OFA (1999)	2003 2003			
	Ghent 4 SO ₂ Allowan	98% nces Purchased:	FS HS+Wet FGD 172,908) ₂ Tons Emitted:	<u>1,632,776</u> 56%		SO ₂ Allowa	inces Purchased:			SO ₂ Tons Emitted: of EPA Allocation):	<u>90</u> %	DIFFER	
A:	nn+Oz Seas N	O, Allow Purch:			Ann+Oz Seas	NO, Tons Emil:				NO, Allow Purch:	7,357		as NO, Tons Emit	737,929	CALCUL	ATIONS
ar		lon Price \$/ton emit) SO2	Production \$		d Company v. Value SO2 S	Capital S	PVRR Total \$	Emissio (Nominal \$ NOx		Production \$	Combined Allow. NOx \$		Capital S	PVRR Total \$	Total \$	Cumulativ Total \$
008	988	457	(1.039	982	821		988	457		1,039	982	-		821	
009	951	455	-	2,632	(6,752)	7,298		.951	455		2,352	(2,060)	-		(5.054)	(4
010	2366	480		2,846	11,069	7,262		2366	480		2,667	17,362	-		(10,523)	(14
011	2369	624		3,069	(1,105)	6,432		2369	624		3,038	6.403	-		(11,771)	(26
012	2372	649		(6,687)		5,695		2372	649		(6,898)	5,630	•		(7,770) (8,603)	(34
013	2274	673		(4,900)		5,039		2274	673		(5,169) (4,206)	6,606 6,682	-		(8,603) (11,399)	(44
014	2250	733		(4,021)		4,456		2250 3098	733 794		(4,208)	6,662 16,466			(12,412)	(66
015	3098	794		(3,925) (2,223)	5	3,938 3,477		3098	855		(1,396).	15.679	-		(13,015)	(79
016	3092 3086	855 916	1	(2,223) (729)		3,063		3086	916		(16)	17,301			(13,284)	(93
017 018	3086	910	1	(469)		2,691		3122	977		151	16,774	-		(13,156)	(100
)19	3149	1038		(1,542)	1 1	2,357		3149	1038		(1,052)	15,416	-		(10,700)	(116
020	3177	1099		(2,331)	1 1	2,059		3177	1099		(1,833)	15,078	-		(13,486)	
121	3250	1160		(1,063)	3	1,791		3250	1160		(730)	15,784	-		(12,947)	3 .
222	3282	1221		2,125	8,971	1,552		3282	1221		2,410	15,617	-		(13,242)	1 .
023	3281	1282	1	2,060	9,180	1,339		3281	1282		2,388	15,603	•		(12,352)	£ .
)24	3123	1343	1	2,579	9,256	1,149		3123	1343		2,757	15,484 15,815	-		(12,332) (11,953)	,
)25	2970	1404	1	2,371	9,731	979		2970	1404 1426		2.546 2,923	15,615	-		(11,553) (10,155)	
)26	3018	1426	1	2,819	8,831	829 696		3018 3066	1426		3,098	14,550			(10,950)	
227	3066 3115	1449		3,016 1,855	9,071 7,369	578		3115	1445		2,055	12,150	-		(9,334)	
)28)29	3115	1472		1,000	1,005	106					-,		-		106	(223
030						-							-		-	(223
031						-							-		-	(223
32													-		•	(223
J 33						-							-		-	(223
034													-		•	(223
035						-							-		•	(223
036						•										(223
037 038											-				-	(223
usaj sis			13,809,531	(1,479)	129,426	63,607	14.001,086			13,964,500	2.575	257,521	-	14,224,597	(223,511)	

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					Cost	Compa	rison of A	iternati	ve 50_2	Compli	anve rid					
							All Costs	in 2008 F	VRR \$	x1000	tadae da anti 1933 da se	5 resultation (2007)	(Statistic type (Amerik			
	ee Bro	wn EGD in	2010 (GH1 F	GD in 2009)	lenen server de la	NV MARINE	网络德国美国	Without Bro	own FGD	GH1 FGD ir	n 2009)			管理的目标问题	Price Curve N	
i de la composition de la comp	61617635764944	editelistionismusse	Fuel Forecast:	的复数形式 化化合金		Sensitivity %:	energy and the second	RETURNED VERMANN	KARANGA BARANAN KARANGA BARANAN	Fuel Forecast		Cap Co	st Sensitivity %:	L	SO ₂ NO _x	<u>1.00</u> 1.00
			Load Forecast:							Load Forecast: Price Forecast:					NOX	1.00
			Price Forecast:						SO2 NOX	Price Forecast	: Base X 1					
			Price Forecast: ter Description:		in '10				Ot	her Description	: Brown 123 FGD	in '11				
		00	er Beschpuon.	0					Faviron	nental Controls	0					
E	nvironment	al Controls:							SO2 Rem %	SO2 Tech	SO2 In-Serv	NOX Tech	SCR In-Serv	NOx Tech Cost (MS)		
	Unit	<u>\$Q2 Rem %</u> 98%	SO2 Tech Wet FGD	SO2 In-Serv 2010	NOX Tech LNB (1993)	SCR In-Serv 0	NOx Tech Cost (MS)	Unit Brown 1	98%	Wet FGD	2011	LNB (1993) LNCFS I (1994)	0			
	Brown 1 Brown 2	98%	Wet FGD	2010	LNCFS ((1994) LNCFS () (1992)	0 2012		Brown 2 Brown 3	96% 96%	Wet FGD Wet FGD	2011	LNCFS III (1992)	2012 2003	1		
	Brown 3 Ghent 1	96% 94% / 98%	Wet FGD Existing FGD	1992	LNCFS II	2003		Ghent 1	94% / 98%	Existing FGD	1992	LNCFS II LNCFS III				
	Ghent 2	94%	FS HS+Wet FGD	2009	LNCFS III (2000)/SCR (2005)	2015		Ghent 2	94%	FS HS+Wet FGD	2009	(2000)/SCR (2009)	2015			
	Ghert 3	98%	FS HS+Wet FGD	2007	LNB & OFA (1998)	2003		Ghent 3	98% 98%	FS HS+Wet FGD FS HS+Wet FGD		LNB & OFA (1998) LNB & OFA (1999)	2003 2003			
	Ghent 4	98%	FS HS+Wet FGD 172,908	2008	LNB & OFA (1999)	2003 Dy Tons Emitted:	1,632,776	Ghent 4		ances Purchased	229.275		SO ₂ Tons Emitted:		DIFFER	ENCE
	SO ₂ Allowar	ices Purchased:	172,908 Large	st Annual SO ₂ P	urchase (as a % of	EPA Allocation):	<u>56</u> %			Lan NO, Allow Purch	rgest Annual SO ₂ P 4,860	urchase (as a % c Ann+Oz Se	f EPA Allocation) as NO ₁ Tons Emit	56% 734,760	CALCUL	
Ar		O _x Allow Purch:	4.838		Ann+Oz Seas	NO, Tons Emit:	734,601	Emissio		NO, ANOW FUICH	Combined	Сотрапу				A
		ion Price \$/ton emit)			d Company /. Value		PVRR	(Nominal S	/ton emit)	0		Value SO2 \$	Capital \$	PVRR Total S	Total \$	Cumulat Total
л	NOx	S02	Production \$	NOx \$	\$O2 \$	Capital S	Total \$	NOx 988	SO2 457	Production S	1,039	982	13,609		(64)	
208	988	457		1,039	982	13,545 34,610		988	455		2,632	(6,752)	26,571		8,039	;
909	951	455		2,632	(6,752)	57,479		2366	480		3,978	23,956	35,909		18,717	20
010	2366	480 624		2,846 3,069	(1,105)	57,998		2369	624		2,319	11,291	58,672		(19,101)	
011	2369 2372	649	1	(6,687)	(1,001)	51,374		2372	649		(6,687)	(1,001)	58,972		(7,598) (6,228)	(
013	2372	673		(4,900)	(321)	45,487		2274	673		(4,900)	1	52,225 46,233		(6,220)	(1)
014	2250	733		(4,021)	(263)	40,255		2250	733		(4,021) (3,925)	(263) 9,311	40,203		(5,304)	(1
015	3098	794		(3,925)	9,311	35,603		3098 3092	794		(2.223)	8,702	36,180		(4,708)	(2)
016	3092	855	1	(2,223)	8,702	31,472		3092	916		(729)	10,137	31,980		(4,179)	(2
017	3086	916		(729)	9,724	27,801 24,510		3122	97		(469)	9,724	28,251		(3,741)	(3
018	3122	977		(469) (1,542)	8.823	24,510		3149	103	3	(1,542)		24,907		(3.352)	(3
019	3149	1038		(2,331)	8,443	18,902		3177	109	9	(2,331)	8,443	21,902		(3,000)	(3
020 021	3177 3250	1160		(1.063)	9,270	16,525		3250			(1,063)	9,270	19,207		(2,682) (2,394)	(4
022	3282	1221		2.125	8,971	14,396		3282			2,125	8,971 9,180	16,790		(2,135)	(4
023	3281	1282		2,060	1	12,493		3281	128 134		2,060 2,579	9,180	12,693		(1,901)	(4
024	3123	1343	1	2,579	1	10,792		3123 2970	134 140		2,373	9,731	10,965		(1,689)	(4
025	2970	1404		2,371	9,731 8,831	9,276 7,925		2970	140		2,819		9,425	5	(1,500)	(4
026	3018	1426		2,819 3,016		6,845		3066			3,016	3	8,173		(1,328)	(5
027	3066	1449		3,016		7,167		3115		2	1,855	7,369	8,337		(1,170)	(5
028 029	3115	14/2		1,000		5,141							6,155		(1,014) (4,151)	(*
029						944							5,09		(4,131)	(
031														Ĩ.		(:
032						-							-			(5
2033					P	-										(5
2034															-	(
2035													-		•	(
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2037					1				1			1	<u> </u>	44.647.644	(57,870	1
als			13,809,531	(1,479	129,426	552,095	14,489,574		a (PYRR \$00	13,805,10					10,00,00	<i>a</i>

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					Cost	Compa	rison of A				ance Pla	เกร				
							All Costs	in 2008 l	VRR \$	x1000						
se C	ase - Bro	wn FGD in	2010 (GH1 F	GD in 2009)			29499499164-6494 1	Without Br	own FGD	(GH1 FGD ir	n 2009)	in or or our		9 (A) (D) (A) (C) (A	Price Curve	Multipliers
639-54	60076022660269	landissense en	Fuel Forecast:	Base	Cap Cost	t Sensitivity %:		anana minananan	Tari kalan da Awa	Fuel Forecast:		Cap Co	st Sensitivity %:		SO2	1.00
			Load Forecast:						000	Load Forecast					NOx	<u>1.00</u>
			Price Forecast: Price Forecast:							Price Forecast:						
			ter Description:	Brown 123 FGD	in '10				Ot	her Description:	Walkaway from					
,	Environment	d Controls:		0			1		Environ	nental Controis	Recovery on \$1	41/4				
4	<u>Volt</u>	SO2 Rem %	SO2 Tech	SO2 in-Serv	NOX Tech	SCR In-Serv	NOx Tech Cost (MS)	Unit	SO2 Rem %	SO2 Tech	SO2 In-Serv	NOX Tech	SCR (a-Serv	NOx Tech Cost (M\$)		
	Brown 1	96%	Wet FGD Wet FGD	2010 2010	LNB (1993) LNCFS I (1994)	0		Brown 1 Brown 2	0% 0%	n/a n/a	0	LNB (1993) LNCFS (1994)	0			
	Brown 2 Brown 3	98% 98%	Wet FGD	2010	LNCFS (II (1992)	2012		Brown 3	0%	n/a Existing FGD	0	LNCFS III (1992) LNCFS II	2012 2003			
	Ghent 1	94% / 98%	Existing FGD	1992	LINCES II	2003		Ghent 1 Ghent 2	94% / 98% 94%	FS HS+Wet FGD	2009	LNCFS III	2015			
	Ghent 2	94%	FS HS+Wet FGD	2009	(2000)/SCR (2009)	2015			98%	FS HS+Wet FGD	2003	(2000)/SCR (2009) UNB & OFA (1998)	2063			
	Ghent 3 Ghent 4	96% 96%	FS HS+Wet FGD FS HS+Wet FGD	2007 2008	LNB & OFA (1998) LNB & OFA (1999)	2003 2003		Ghent 3 Ghent 4	98%	FS HS+Wet FGD	2008	LNB & OFA (1999)	2003	2,667,690		
	SO ₂ Allowan	ces Purchased:	172,908	at Annual CO. D.	SC urchase (as a % of i	02 Tons Emitted:	<u>1,632,776</u> <u>56</u> %		SO ₂ Allows	ances Purchased: Lar			SO ₂ Tons Emitted: of EPA Allocation):		DIFFER	ENCE
A	nn+Oz Seas N	O, Allow Purch:	4,838	St Konstan 202 F		NO, Tons Emit:	734,601			NO _x Allow Purch	: 4,427	Ann+Oz Se	as NO _x Tons Emit:	731.616	CALCUL	ATIONS
T	Emissi	on Price			d Company		PV88	Emissio (Nominal S				Company Value		PVRR		Cumulat
ar	(Nominal NOx i	\$/ton emit) SO2	Production \$	Allow NOx \$. Value SO2 S	Capital S	Total \$	NOx	SO2	Production \$	NOx S	\$02 S	Capital \$	Total \$	Total \$	Tota
008	988	457		1,039	982	13,545		988	457		1,039	939	13,062		(152)	
009	951	455		2,632	(6,752)	34,610		951	455		2,852	(6.084)	16,453		18,028	1
010	2366	480		2,846	11,069	57,479		2366	480		4.014	23,930 25,624	14,582 12,919		40,889 18,213	5
011	2369	624		3,069	(1,105)	57,998		2369 2372	624 649		2,748 (6,243)	20,624 24,062	12,919		12,892	8
012	2372 2274	649 673		(6,687) (4,900)	(1,001) (321)	51,374 45,487		2372	673		(4,311)	25,447	10,122		6.973	9
014	2274	733		(4,000)	(263)	40,255		2250	733		(3,624)	25,929	8,951		315	9
015	3098	794		(3,925)	9,311	35,603		3098	794		(3,608)	35,316	7,908		(2.732)	t .
016	3092	855		(2,223)	8,702	31,472		3092	855		(2,227)	32,980	6,973		(4,270)	9
017	3086	916		(729)	10,137	27,801		3086	916		(941)	36,118 35,327	6,132 5,378		(9,170) (11,692)	8
018	3122	977		(469)	9,724	24,510 21,555		3122 3149	977 1038		(706) (1,899)	35,327 32,307	5,378 4,703		(11,652)	
019 020	3149 3177	1038 1099		(1,542) (2.331)	8,823 8,443	21,000		3143	1099		(1,652)		4,098		(15,070)	4
020	3177	1160		(1,063)	9,270	16,525		3250	1160		(1,554)	32,913	3,557		(16,702)	2
022	3282	1221		2,125	8,971	14,396		3282	1221		1,655	32,783	3,073		(18,669)	
023	3281	1282		2,060	9,180	12,493		3281	1282		1,652	31,837	2,642		(18,525)	(1
024	3123	1343		2,579	9,256	10,792		3123	1343		2,109	31,637	2,258		(19,840)	(3
025	2970	1404		2,371	9,731	9,276		2970 3018	1404 1426		1,928	31,631 28,391	1,916 1,613		(20,727) (18,508)	(5 (6
026	3018	1426 1449		2,819 3.016	8,831 9.071	7,925 6.845		3016	1420		2,585	28,873	1,344		(19,918)	(8
027 028	3066 3115	1449		1,855	7,369	7,167		3115	1472		1,590	24,673	964		(15,366)	(10
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als			13.809.531	(1,479)	129,426	552,095	14,489,574			13,884,815	(3,226)	566,519	140,087 412.008	14,588,196 (98,622)	(98,622)	

Page 32 of 37



Appendix 4



| Base Case - GH1 FGI | | ID in 2010 | <u></u>
 | 2010
 | 0.2011 F | 2012 | 2013
 | 2014 | 2015 | 2016
 | 2017 | 2018 | 2019 | 2020
 | 2021 | 2022 | 2023
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| Brown 2 | KU | 2.7 | 2.7
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| Brown 3 | KU
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| Tyrone 3 | KU | 1.5 | 1.5 | 1.5
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| Mill Creek 2 | LGE
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11,654
10,065
2,238
5,225
2,066
2,276
7,085
10,369
2,709
3,772
3,885
4,122
3,522 | 0%
9%
2011
312
688
1,723
2,190
5,693
2,309
2,256
5,544
8,049
2,505
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3,278
 | 0%
2%
323
687
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2,249
4,967
2,317
2,269
5,868
7,271
2,585
3,322
3,352
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3,716 | 0%
<u>6%</u>
2013
312
687
1,755
2,231
5,738
2,337
2,274
5,643
8,182
2,594
3,185
3,327 | 0%
2014
304
693
1,779
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5,809
2,312
2,292
6,100
8,347
2,675
3,406
3,423
 | 99%
98%
905
324
699
1,746
2,239
5,836
2,316
2,048
5,611
8,924
2,631
3,174
2,994 | 98%
98%
2016
313
603
1,654
2,233
5,963
2,245
2,236
4,773
8,333
2,626
3,314
3,398
3,586
3,463
980 | 98%
98%
2017
340
695
1,716
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853
 | 93%
93%
2018
338
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3,592
4,119
3,189
995 | 93%
95%
2019
550
699
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942 | 98%
99%
2020
325
676
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2.271
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8,444
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8,444
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3,468
4,119
3,455
986 | 98%
98%
2021
318
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2,011
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3,591
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9,43
 | 98%
2022
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699
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1,007 | 98%
98%
2023
352
624
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2.229
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9.701
3.069
3.753
4.038
3.753
9.57 | 58%
98%
2024
387
692
1,768
2,220
2,081
2,261
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 | 98%
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885 | 96%
395
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3,374
1,041 | 98%
2027
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 | 98%
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 | 0%
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2015
324
699
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956
8,880 | 98%
98%
2016
2,233
5,963
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980
9,387
 | 98%
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2017
340
695
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2,235
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8,858 | 98%
98%
2018
2018
2,202
5,985
2,265
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9,603
2,745
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9,538 | 93%
93%
2019
550
699
1,535
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 | 98%
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9.363 | 98%
98%
2021
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4,292
3,743 | 98%
385
699
1,764
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9,409 | 98%
906%
2023
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 | 98%
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367
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3,615 | 9835
9876
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379
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16,890
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3,789
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9,533 | 0%
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2019
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2020
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7,629
14,639
36,251
6,870
16,690
2,424
5,929
6,824
12,819
2,701 | 0%
2009
7,794
13,106
35,366
3,142
7,563
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3,283 | 0%
2010
6,842
14,234
37,905
2,237
5,209
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2,274
6,711
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 | 0%
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5,558
11,759
7,516
2,192
5,756
2,329
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2,755 | 0%
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687
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2,317
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1,755
2,231
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2,307
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 | 0%
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1,779
2,011
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2,312
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6,100 | 98%
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5,836
2,318
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5,611 | 2016
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603
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4,773 | 2017
340
695
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5,980
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 | 2018
338
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639
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5,338
2,293
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2,898
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326
676
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3,362
 | 2021
318
685
1,736
2,011
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3,591 | 2022
358
659
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624
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3,669 | 2024
3657
692
1,768
2,230
5,930
2,081
2,367
5,651
9,544
2,857
3,762
 | 2025
379
689
1,799
2,235
5,897
2,312
2,270
5,868
10,878
3,204
3,453 | 2026
395
700
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2,237
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2,325
2,284
6,519
9,459
3,358
3,901 | 2027
333
704
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2,259
6,424
11,035
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 | 2028
328
649
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2,268
2,235
5,306
9,029
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| GFCU 1
TONS SOZEMITTED
Brown 1
Brown 3
Brown 3
Ghent 1
Ghent 1
Ghent 3
Ghent 3
Green River 3
Green River 4
Tysone 3
Cane Run 4 | KU
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2012
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 | 0%
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2,994 | 2016
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603
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2,245
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4,773
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2,626
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3,398 | 2017
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695
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 | 2018
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3,592 | 2019
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2,242
5,335
2,293
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5,663
7,936
2,898
3,587
3,541 | 2020
326
676
1,672
2,237
5,957
2,271
2,235
4,511
8,444
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3,352
3,468
 | 2021
318
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2,011
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2,939
3,531
3,634 | 2022
355
659
1,764
2,239
5,957
2,301
2,041
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9,486
3,094
3,591
3,411 | 2023
362
624
1,769
2,239
5,963
2,301
2,263
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5,953
5,953 | 2022
367
692
1,768
2,230
5,930
2,081
2,267
5,651
9,544
2,857
3,762
3,820
 | 2025
379
689
1,759
2,235
5,897
2,312
2,270
5,868
10,878
3,204
3,453
3,874 | 2026
395
700
1,621
2,237
5,322
2,325
2,284
6,519
9,459
3,358 | 2027
333
704
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2,239
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2,338
2,259
6,424
11,035
3,384
 | 2028
328
549
1,704
1,976
5,748
2,268
2,235
5,306
9,029
2,876 |
| GFCU 1
TONE SCOZEMITTED
Brown 1
Brown 3
Ghent 2
Ghent 1
Ghent 3
Ghent 4
Green River 3
Green River 4
Typooe 3
Cane Run 4
Cane Run 4
Cane Run 5 | KU
KU
KU
KU
KU
KU
KU
KU
LGE
LGE
LGE | 0%
2008
7,829
14,639
35,261
6,870
6,870
6,824
4,5,929
6,824
4,2,819
2,701
3,959
3,789
3,789
4,197 | 0%
2009
7,794
13,106
35,366
3,142
7,563
2,392
2,336
6,994
12,371
3,283
3,951
4,154
3,847 | 0%
2810
6,842
14,234
37,905
2,237
5,209
2,056
2,274
6,711
10,662
2,687
3,816
3,998
4,147
 | 0%
2011
5,698
11,769
7,516
2,192
5,756
2,329
2,277
5,765
5,152
2,755
3,181
3,655
3,788 | 0%
2012
323
687
1,587
2,249
4,957
2,317
2,269
5,868
7,271
2,585
3,322
3,352
3,352
3,553 | 0%
2013
312
657
1,755
2,231
5,738
2,307
2,274
5,643
8,182
2,594
3,185
3,327
3,427
 | 0%
2014
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3,405
3,423
3,523 | 98%
2019
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5,611
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3,174 | 2016
313
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1,654
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5,963
2,245
2,235
4,773
8,333
2,626
3,314 | 2017
340
695
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 | 22118
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8,444
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3,455
 | 2021
318
685
1,736
2,011
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2,285
2,247
5,024
9,217
2,939
3,591
3,634
4,292
3,743 | 2022
355
559
1,764
2,239
5,957
2,301
2,041
5,396
9,486
3,094
3,591
3,411
4,362
3,527 | 2023
362
624
1,765
2,239
5,963
2,301
2,263
5,050
9,701
3,064
3,669
3,753
4,038
3,769 | 367
692
1,768
2,230
5,930
2,081
2,267
5,651
9,544
2,857
3,762
3,820
4,615
3,615
 | 2025
379
689
1,799
2,225
5,897
2,312
2,270
5,868
10,878
3,204
3,453
3,874
4,852
3,872 | 2026
395
700
1,621
2,237
5,322
2,325
2,284
6,519
9,459
3,358
3,901
4,012
4,732
3,374 | 2027
333
704
1,825
2,239
5,945
2,333
2,259
6,424
11,095
3,584
3,584
3,549
4,064
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 | 2028
328
549
1,704
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2,235
5,306
9,029
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3,654
3,657
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3,577 |
| GFCU 1
TONE SOZEMITTED
Brown 1
Brown 2
Brown 3
Ghent 1
Ghent 3
Ghent 4
Green River 3
Green River 4
Tysone 3
Cane Run 4
Cane Run 5
Cane Run 5
Cane Run 5
Mil Creek 1 | KU
KU
KU
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KU
KU
KU
LGE
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LGE | 0%
2008
7,829
35,261
6,870
2,424
5,929
6,824
12,819
2,701
3,959
3,789 | 0%
2009
7,794
13,106
35,366
3,142
7,563
2,392
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6,994
12,371
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3,951
4,154 | 0%
2010
6,842
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 | 0%
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5,598
11,759
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2,192
5,756
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3,788
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977 | 0%
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323
687
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2,249
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7,271
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312
687
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 | 0%
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853
 | 2018
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4,119
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9,955 | 2019
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7,935
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942 | 2020
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676
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3,468
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986
 | 2021
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9,43 | 2022
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699
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5,396
9,486
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3,411
4,362
3,527
1,007 | 2023
382
624
1,769
2,239
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9,701
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2624
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892
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9,544
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1,025 | 2025
379
689
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2,270
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3,453
3,874
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3,872
886 | 2026
395
700
1,621
2,237
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6,519
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3,358
3,901
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4,732
3,374
1,041 | 2027
333
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 | 2028
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1,013 |
| GFCU 1
TONE SOZEMITTED
Brown 1
Brown 2
Brown 3
Ghent 1
Ghent 3
Ghent 4
Green River 3
Green River 4
Tysone 3
Cane Run 4
Cane Run 5
Cane Run 5
Cane Run 5
Mil Creek 1
Mil Creek 3 | KU
KU
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LGE | 0%5
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6,870
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4,197
4,052
1,101
9,177 | 0%
2009
7,794
13,106
35,365
3,142
7,553
2,392
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6,994
12,371
3,283
3,951
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4,154
4,151
4,152
8,900 | 0%
5,842
14,234
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4,147
3,515
959
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 | 0%
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3,788
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8,213 | 0%,
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323
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312
687
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8,550
 | 0%
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3,405
3,423
3,523
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3,174
2,994
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8,880 | 2016
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4,773
8,333
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3,398
3,585
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9,387 | 2017
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 | 2018
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3,742 | 2020
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 | 2021
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9,217
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3,743
943
8,827
9,846 | 2022
355
659
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2,230
5,957
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2,041
5,395
9,486
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624
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2,239
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2,263
5,050
9,701
3,064
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9,57
8,876
9,952 |
2024
367
892
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2,061
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5,651
2,267
2,565
3,762
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3,267
3,267
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1,025
9,540 | 2025
373
689
1,799
2,235
5,699
2,312
2,270
5,668
10,878
3,874
3,453
3,874
4,652
3,872
886
8,962
3,872
886
8,962
10,073 | 2026
395
700
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2,237
5,522
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6,519
9,459
3,355
3,901
4,012
4,732
4,732
4,732
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4,732
4,732 | 2027
333
704
1,825
2,239
5,945
2,338
2,259
6,424
11,035
4,064
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4,065
3,920
984
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10,119
 | 2028
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329
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1,976
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2,268
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5,306
9,029
2,876
3,654
3,627
4,565
3,577
1,013
9,455
9,337 |
| GFCU 1
TONE SOZEMITTED
Brown 2
Brown 3
Ghent 1
Ghent 1
Ghent 3
Green River 3
Green River 3
Green River 4
Typooe 3
Cane Run 4
Cane Run 4
Cane Run 5
Cane Run 5
Mill Creek 2
Mill Creek 2
Mill Creek 4 | KU
KU
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LGE
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LGE
LGE | 0%
2008
7,829
14,639
35,261
6,870
16,830
2,424
5,929
6,824
12,819
2,701
3,959
3,789
3,789
4,197
4,052
4,197
4,052
1,101 | 0%
2009
7,794
13,106
35,366
3,142
7,563
2,392
2,336
6,994
12,371
3,283
3,951
4,154
3,847
4,234
1,012 | 0%
6,842
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Withouth GH1 FGD (E) 2008	2009	2010	2011	2012	2013	2014	2015	2015	2017	2018	2619	2020	2021	2022	2023	2024 5.9	2025 5.8	2026 5.9	2027 5.9	2028
FUEL SO2 Content (#/MBTU) Srown 1	KU	2.7	2.7	115.7 107.5	5.8 5.9	5.8 5.9	5.9 5.8	5.9 5.9	5.9 5.9	5.8 \$.8	5.8 5.9	5.8 5.9	5.8 5.9	5.9 5.9	5.8 5.9	5.8 5.8	5.8 5.8	5.9	5.9	5.8	5.8	5.8 5.9
Brown 2 Brown 3	KU KU	2.7 2.7	2.7 2.7	38.0	5.8	5.9	5.8	5.9	5.9	5.8 6.1	5.8 6.1	5.8 6.1	5.9 6.1	5.8 6.1	5.8 6.1	5.8 6.1	5.8 6,1	5.8 6.1	5.9 6.1	5.9 6.1	5.8 6.1	6.1
Gheat 1	KU KU	6.1 1.2	6.1 1.2	6.1 12	6,1 1,2	6,7 1,2	6.1 1.2	6.1 1.2	6,1 1,2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2 8.1	1.2 8.1	1.2 6,1	1.2 6.1	1.2 6 1
Ghent 2 Ghent 3	KU	6.1	6.1	8.1	6.1	6_1	6.1	6.1	6.1 6.1	6.1 6.1	6.1 6.1	6.1 6.1	6.1 6.1	6.1 6.1	6.1 6.1	5.1 5.1	6.1 6.1	6_1	6.1	6.1	6.1	6.1
Ghent 4	KU KU	19.2 4.1	6.1 4,1	6,1 4,1	6.1 4.1	6.1 4.1	6.1 4.1	6.1 4,1	4.1	4.1	4.1	4,1	4.1	4.1	4.1	4,1	4.1	4.1 4.1	4.1 4.1	4,1	4.1 4.1	4.1 4.1
Green River 3 Green River 4	KU	4.1	4.1	4.1	4.1	4,1	4.1	4.1	4.1 1.5	4.1 1.5	4.1 1.4	4,1 1,4	4.1 1.4	4.1 1.5	4.1 1.4	4.1 1.5	4.1 1.5	1.5	1.5	1.5	1.5	1.4
Tyrone 3	ĸu	1.5 5.8	1.4 5.8	1.5 5.9	1.4 5.8	1.4 5.8	1.5 5.8	1.5 5.9	5.9	1.5	5.9	5.9	5.8	5.8	5.8	5.8	5.9	5,8	5.9 5.9	5.9 5.8	5.8 5.9	5.8 5.9
Cane Run 4 Cane Run 5	LGE LGE	5.8	5.8	5.8	5.8	5.8	5.9	5.8	5.9	5.8	5.8 5.9	5.8 5.9	5.8 5.8	5.9 5.8	5.8 5.8	5.8 5.9	5.9 5,9	6.9 5.8	5.9	5.8	5.9	5.9
Cane Bun 6	LGE	5.9 5.8	5,9 5,9	5.9 5.9	5.9 5.8	5.8 5.8	5.9 5.9	5.9 5.8	5.9 5.8	5.9 5.8	5.9	5.9	5.9	5.9	5.8	5.9	5.8	5.8	5.9	5.9 5.9	5.8 5.9	5.9 5.8
Nili Cateli 1 Mili Cateli 2	LGE	5.9	5.9	5.8	5.8	5.8	5.9	5.9	5.8	5.9	5.9	5.9	5.9 5.8	5.8 5.9	5.8 5.9	5.9 5.8	5.9 5.8	5.8 5.8	5.8 5.9	5.9	5.8 5.8	5.9
Mill Groek 3	LGE	5.8	5.8	5.8 5.9	5.9 5.8	5.9 5.8	5.9 5.9	5.9 5.9	5.8 5.8	5.8 5.8	5.9 5.8	5.9 5.9	5. 9	5.9	5,9	5.9	5.8	5.8	5.9	5.9	5.9	5.9 5.8
Mill Creek 4 Trimble County 1	LGE	5.9 5.9	5.9 5.8	5.8	5.9	5.8	5.9	5.8	5.8	5.9	5.8 4.9	5.8 4.9	\$.8 4.9	5.8 4.9	5.8 4.9	5.9 4.9	5.9 4.9	5.9 4.9	5.9 4.9	5.8 4. 9	5.8 4,9	4.9
Trantile County 2	KU	0.0	0.0	4.9 4.9	4.9 4.9	4.9 4.9	4,9 4.9	4.9 4.9	4.9 4.9	4.9 4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4,9	4.9	4.9 6.4
Trimble County 2 GECH 1	LGE KU	0.0 0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	6.4
GFCUI	LGE	0.0	0.0	0.0	0.0	0.0 2000/00/00	0.0 1990	0.0	0.0 1999-1999	0.0	0.0 (1511)	0.0 Veronales	ao Wenyeriye	an a	or on or other or other	STATES YOU	1855997797	NUMBER	(ENSAMBLE)		IN THE REAL PROPERTY IN THE	98%
SCRUBBER REMOVAL EFF.		013-22-25-076 0%	0%	98%	98%	98%	98%	96%	98%	98%	98%	95% 95%	98% 98%	96% 98%	98% 98%	98% 98%	98% 98%	98% 98%	98% 98%	98% 98%	98% 98%	98%
Brown 2		0%	0%	98% 98%	98% 93%	98% 98%	98% 98%	98% 98%	98% 98%	98% 98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98% 94%
Stown 3 Ghent 1		0% 94%	0% 94%	90%	94%	94%	94%	94%	94%	94%	94%	94%	94%	94% 0%	94%	94% 0%	94% 0%	94% 0%	94% 0%	94% 0%	94% 0%	997a 0%
Ghent 2		0%	0%	0% 98%	0% 98%	0% 98%	0% 38%	0% 98%	0% 93%	0% 98%	0% 98%	0% 98%	80% 88%	98%	98%	98%	98%	98%	98%	98%	98%	98%
Ghent 3 Ghent 4		98% 98%	98% 38%	98%	98%	56%	98%	98%	98%	98%	98% 0%	98% 0%	98% 0%	98% 0%	98% 0%	98% 0%	98% 0%	98% 0%	98% 0%	98% 0%	98% 0%	98% 0%
Green River 3		0%	0%	0% 0%	ሰ% ሪ%	0% 0%	0% 0%	0% 0%	0% 0%	0% 0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0% 6%
Green River 4 Tyrone 3		0% 0%	0% 0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0% 85%	0% 85%	0% 85%	0% 85%	0% 85%	0% 85%	9% 85%	0% 85%	0% 85%	85%
Cane Bun 4		85%	85%	85% 85%	85% 85%	85% 85%	85% 85%	85% 85%	85% 85%	85% 85%	85% 85%	85% 85%	85%	85%	85%	85%	85%	85%	85%	85%	85%	85% 90%
Carle Run 5 Carle Run 6		85% 90%	85% 90%	85% 90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90% 93%	90% 93%	90% 93%	90% 93%	90% 93%	90% 93%	90% 93%	93%	93%
Mill Creek 1		93%	93%	93%	93% 95%	93% 98%	93% 96%	93% 98%	93% 98%	93% 98%	93% 98%	93% 98%	93% 98%	93% 58%	98%	95%	98%	98%	98%	98%	98%	98%
Mill Creek 2 Mill Creek S		98% 89%	98% 89%	98% 89%	90% 89%	90% 89%	89%	89%	89%	89%	\$9%	89%	89%	89%	89% 91%	89% 91%	89% 91%	89% 91%	89% 91%	89% 91%	89% 91%	89% 91%
Mill Creek 4		91%	91%	91%	91%	91%	91% 99%	91% 59%	91% . 99%	91% 93%	91% 93%	91% 99%	91% 99%	91% 99%	99%	99%	99%	99%	99%	99%	99%	99%
Trimble County 1		99% 0%	99% 0%	99% 98%	99% 98%	99% 98%	98%	98%	98%	98%	98%	98%	98%	98%	98% 98%	98% 98%	98% 98%	98% 98%	98% 98%	98% 98%	98% 98%	98% 98%
Trimble County 2 Trimble County 2		0%	0%	98%	98% 0%	98% 0%	98% 0%	98% 0%	98% 98%	98% 98%	98% 98%	98% 98%	98% 98%	98% 98%	98%	98%	98%	98%	98%	98%	93%	98%
GFCU 1 GFCU 1		0% 0%	0% 0%	0% 0%	0%	0%	0%	0%	98%	98%	98%	98%	95% 2019	98%	98% 2021	98% 2022	98% 2023	98% 11 2024	98% 2025	98% 2026	98% 2027	98% 2028
TONS SO2 EMITTED		2068	2009	2010	2011	2012	2013 330	2014 328	2015 335	2016 319	2017 346	2018	2019 358	2020 337	329	357	377	381	392	406	405	342
Brown 1 Brown 2	KU	7,829	7,658	5,947 11,926	337 698	340 697	702	703	712	616	708	705	710	689	700	711	638 1.825	708	705 1.845	714 1,651	719 1.867	670 1,760
Brown 3	KU	36,261	35,294	10,158	1,775	1,620	1,801 5.545	1,824	1,790	1,718 6,640	1,772	1,770	1,583 6.667	1,733	1,791 5,970	1,818 6,657	6,656	6,637	6,659	6,663	6,676	5,876
Ghent 1	KU KU	6,870 16,890	6,729 15,545	6,669 15,342	6,501 15,763	6,675 13,820	9,646 15,658	15,151	16,391	15,765	16,448	16,346	15,060	16,095	16,760	17,084	16,932 2,339	17,244 2,109	17,332 2,349	16,015 2,347	17,817	16,426 2,313
Ghent 2 Ghent 3	KU	2,424	2,406	2,080	2,334	2,337	2,334	2,339	2,343 2.063	2,293	2,091 2,286	2,320 2,283	2,327 2,285	2,309 2,265	2,323 2.277	2,355	2,234	2,295	2,295	2,301	2,311	2,268
Ghent 4	KU	5,929 6,824	2,345	2,285 7.040	2,275	2,283 5,817	2,290 5,583	2,305 6,014	5,562	4,799	5,542	5,580	5,634	4,474	4,958	5,407	5,038	5,534 9,420	5.840 10.769	6,306 9,424	6,439 10,939	5,322 9.067
Green River 3 Green River 4	KU	12,819	12,134	10,452	7,996	7,133	8,025	8,236	8,734 2,589	8,114	9,503 2,797	9,533 2,744	7,899 2,874	8,277 2,589	9,145 2,915	9,369 3,096	9,610 3,046	2,847	3,174	3,357	3,345	2,863
Tyrone 3	KU LGE	2,701 3,959	3,207 3,969	2,707	2,498 3,175	2,536 3,533	2,552 3,479	3,620	3,337	3,590	3,589	3,243	3,720	3,550	3,687	3,695	3,784	3,838 3,900	3,501 3,996	3,932 4,078	3,980 4,101	3,749 3,837
Cane Run 4 Cane Run 5	LGE	3,789	4,147	4,034	3.552	3,608	3,625	3,702	3,032 3,826	3,684	3,772 4,403	3,773	3,856 4,482	3,611 4,343	3,807	3,477 4,484	3,895 4,130	3,900	4,723	4,750	4,783	4,592
Cane Run 6	LGE	4,197 4,052	3,892 4,261	4,220	3,720 3,953	3,780	3,652 3,974	3,744 3,760	3,826	3,801	3,766	3,257	3,784	3,505	3,779	3,557	3,804	3,638	3,890	3,385 1,044	3,930 987	3,596 1,018
Mill Creek 1 Mill Creek 2	LGE LGE	4,052	1,016	962	976	1,040	978	1,052	965	989	861 8,897	1,001	945 8,124	994 9.415	946 8,878	1,011 9,452	961 8,923	1,030 9,531	890 6,965	9,544	8,235	9,467
Mill Creek 3	LGE	9,177	8,915 10,205	9,512 9,582	8,203	9,539 9,492	\$,969 10,099	9,524 8,715	8,904 10,044	9,436 9,390	10,028	9,335	9,973	9,311	9,965	8,605	10,035	9.515 649	10,096	9,498 648	10,139	9,366 648
Mill Creek 4 Trimble County 1	lge Lge	9,535	544	646	592	64\$	593	646	592	546 1,542	542 1,545	645 1,544	592 1,543	645 1,542	593 1,545	646 1,548	593 1.550	649 1,558	1,555	1,556	1,557	1,539
Trimble County 2	ĸu	0	0	775 182	1,470	1,549	1,538 361	1,541 362	1,541 362	1,542	362	362	362	362	363	363	364	365 0	365	365 0	365	361 1,024
Trimble County 2	LGE	0	v	102															v	v		1.044
GECU 1	KU	0	0	ø	0	Q	Ó	0	0	0	0	0	0	Ø	0	0	0	ő	0	Q	0	576
GFCU 1 GFCU 1	KU LGE	0 0	0 0	0 Q								0		0	0	0	0		0	Q	0	576
GFCU 1		0	Q	0	0	0 0	0 0	0	0	0 0	0	ō	0	0	0	0	0		0 88,886	0 \$7,986	0 91,557	576 88,679
GFCU 1 SO2 EMISSIONS (TONS)					0	Q	Ó	0	0	0	0 0 85,897	0 85,213	0 0 82,777	0 0 82,703	0 85,172	0 85,742	0 86,794	0 87,693	89,888	\$7,986	91,557	88,679
GFCU 1 SO2 EMISSIONS (TONS)	LGE Total	0	0 142,283 83,343	0 511,927 38,768	0 0 81,683 38,768	0 0 88,561 38,768	0 0 83,187 36,768	0 0 63,232 38,768	0 0 83,565 27,110	0 0 82,070 27,510	0 0 85,897 27,110	0 85,213 27,110	0 0 82,777 27,110	0 0 82,703 27,110	0 85,172 27,110	0 85,742 27,110	0 86,794 27,110	0	·	•	91,557 27,110 20,957	48,679 27,110 20,967
GFCU 1 SO2 EMISSIONS (TONS) ALLOWANCES KU EPA Allocated SO2 Allowa LGE EPA Allocated SO2 Allowa	LGE Total ances vances	0 149,646 83,343 <u>62,456</u>	0 142,283 83,343 <u>62,455</u>	0 331,927 38,768 23,983	0 0 \$1,6\$3 38,768 29,983	0 0 86,561 38,768 29,983	0 0 83,187 36,768 <u>23,983</u>	0 0 63,232	0 0 83,665	0 0 82,976	0 0 85,897	0 85,213	0 0 82,777 27,110 29,962 45,077	0 0 82,703	0 85,172 27,110 20,967 48,077	0 85,742	0 85,794 27,110 20,957 48,077	0 87,693 27,110	89,888 27,110 <u>20.967</u> 48,077	\$7,986 27,110 <u>20.967</u> 48,077	91,557 27,110 20,957 43,077	85,679 27,110 20,967 48,077
GFCU 1 SO2 EMISSIONS (TONS) ALEOWANCES KU EPA Allocated SO2 Allow LGE EPA Allocated SO2 Allow Total KU/LGE EPA Allocated 1	LGE Total ances vances	0 149,646 83,343	0 142,283 83,343	0 511,927 38,768	0 0 81,683 38,768 29,983 68,751 0	0 0 85,551 38,768 <u>29,983</u> 58,751 0	0 0 83,187 38,768 <u>29,983</u> 65,751 0	0 0 63.232 38,768 29.283 68,751 0	0 0 83,665 27,110 20,967 48,077 0	0 0 82,078 27,510 20,967 48,077 0	0 0 85,897 27,110 20,967 48,077 0	0 85,213 27,110 20,952	0 0 82,777 27,110 29,962	0 0 82,703 27,110 20,967	0 85,172 27,110 20,367	0 85,742 27,110 20,85Z	0 85,794 27,110 20,967	0 87,593 27,110 20,957	89,888 27,110 20.967	87,986 27,110 <u>20.967</u>	91,557 27,110 20,957	85,679 27,110 <u>29,967</u> 48,077 0 0
GFCU 1 SO2 EMISSIONS (TONS) KU EPA Allocated SO2 Allow LGE EPA ABlocated SO2 Allow Total KU/LGE EPA Allocated 3 KULGE Extension KU/LGE Extension	LGE Total ances vances SO2 Allowances Shortfal	0 149,546 83,343 <u>52,456</u> 145,799 0 1,698	0 \$42,283 83,343 <u>62,456</u> 145,799 0 1,376	0 511,927 38,768 28,983 68,751 0 972	0 0 \$1,6\$3 38,758 29,983 68,751 0 0	0 0 88,561 38,768 29,963 68,751 0 0	0 0 83,187 38,768 <u>29,983</u> 65,751 0 0	0 0 83,232 38,763 29,283 68,757 0 0	0 0 83,665 27,110 20,967 48,077	0 0 82,070 27,510 20,962 48,077 0 0	0 0 85,897 27,110 20.967 48,077 0 0	0 85,213 27,110 20,952	0 0 82,777 27,110 29,962 45,077	0 0 82,703 27,110 20,967	0 85,172 27,110 20,357 48,077 0 0 37,094	0 85,742 27,110 20,857 48,077 0 0 37,664	0 86,794 27,110 20,967 48,077 0 0 38,717	0 87,593 27,110 20,957 48,077 0 0 39,616	89,888 27,110 <u>20,967</u> 48,077 0 0 41,810	87,986 27,110 <u>20,967</u> 48,077 0 0 39,908	91,557 27,110 20,957 43,077 0 43,480	85,679 27,110 20,267 48,077 0 0 38,802
GFCU 1 SO2 EMISSIONS (TONS) KU EPA Allocated SO2 Alform LGE EPA Allocated SO2 Alform Total KU/LGE EPA Allocated 1 KU/LGE Evension KU's Portion of OMI Sunytuva Combined Company Purchase	LGE Total ances vances SO2 Allowances Shortfal	0 149,646 83,343 <u>62,456</u> 145,739 0 1,698 0	0 \$42,283 83,343 <u>62,456</u> 145,799 0	0 511,927 38,768 28,983 68,751 0 972 0	0 0 81,683 38,768 29,983 68,751 0	0 0 85,551 38,768 <u>29,983</u> 58,751 0	0 0 83,187 38,768 <u>29,983</u> 65,751 0	0 0 63.232 38,768 29.283 68,751 0	0 0 83,665 27,110 20,967 48,077 0 0	0 0 82,078 27,510 20,967 48,077 0	0 0 85,897 27,110 20,967 48,077 0	0 85,213 27,110 20,952 48,077 0 0	0 0 82,777 27,110 20,982 46,077 0 34,700 0	0 0 82,703 27,110 20,967 48,077 0 0 34,625 0	0 85,172 27,110 20,257 48,077 0 0	0 85,742 27,110 20,557 48,077 0 0	0 86,794 27,110 20,967 48,077 0 0 38,717 0	0 87,593 27,110 20,957 48,077 0 9 39,616 0	89,888 27,110 20.967 48,077 0 0 41,810 0	87,986 27,110 20.967 48,077 0 39,908 0	91,557 27,110 20,957 43,077 0 0 43,480 0	85,679 27,110 20,267 48,077 0 0 38,602 0
GFCU 1 SO2 EMISSIONS (TONS) KU EPA Allocated SO2 Allow LGE EPA ABlocated SO2 Allow Total KU/LGE EPA Allocated 3 KULGE Extension KU/LGE Extension	LGE Teal anoes so2 Allowances Shortfal es	0 149,546 83,343 <u>52,456</u> 145,799 0 1,698	0 \$42,283 83,343 <u>62,456</u> 145,799 0 1,376	0 511,927 38,768 28,983 68,751 0 972	0 0 81,683 38,768 29,983 68,751 0 0 0	0 0 88,561 38,768 <u>29,983</u> 68,751 0 0 0	0 0 83,187 38,768 <u>29,983</u> 65,751 0 0 0	0 0 83,232 38,768 29,283 68,751 0 0 0 0	0 0 83,665 27,110 20,967 48,077 0 0 0	0 0 82,070 27,510 20,962 49,077 0 0 15,321	0 0 85,897 27,110 20,967 48,077 0 0 37,820	0 85,213 27,110 20,952 48,077 0 0 37,136	0 0 82,777 27,110 20,967 46,077 0 0 34,700	0 0 82,703 27,110 20,967 48,077 0 0 34,625	0 85,172 27,110 20,357 48,077 0 0 37,094	0 85,742 27,110 20,857 48,077 0 0 37,664	0 86,794 27,110 20,967 48,077 0 0 38,717	0 87,593 27,110 20,957 48,077 0 0 39,616	89,888 27,110 <u>20,967</u> 48,077 0 0 41,810	87,986 27,110 20,967 48,077 0 39,908 0 39,908 0	91,557 27,110 20,257 43,077 0 43,480 0 43,480 0 91,557	86,679 27,110 20,967 48,077 0 0 38,502 0 38,502 0 86,679
GFCU 1 SO2 EMISSIONS (TONS) KU EPA Allocated SO2 Alfona LGE EPA Allocated SO2 Alfona LGE EPA Allocated SO2 Monor Total KU/LGE EPA Allocated 3 KU/LGE Excession KU/LGE Poston of OMU Surplus/ Combined Company Purchase Set	LGE Total Total Storacosa SOZ Allowances SSA Allowances Storitall SS	0 149,646 83,343 <u>62,456</u> 145,739 0 1,698 0 0 0 0 0	0 142,223 83,343 62,458 145,799 0 1,376 0 0	0 \$11,927 38,768 28,983 68,751 0 972 0 972 0 0	0 0 81,683 38,768 29,983 68,751 0 0 0	0 0 88,551 38,768 29,983 68,751 0 0 0	0 0 83,187 38,768 29,983 66,751 0 0 0	0 0 83,232 38,768 29,283 68,757 0 0 0	0 0 83,665 27,110 20,967 48,077 0 0 0	0 0 82,070 27,110 20,967 48,077 0 0 15,321 0	0 0 85,897 27,110 20,967 48,077 0 0 37,820 0	0 85,213 27,110 20,852 48,077 0 37,136 0	0 0 82,777 27,110 20,967 48,077 0 34,700 0 34,700	0 0 82,703 27,110 20,967 48,077 0 0 34,625 0	0 85,172 27,110 20,357 48,077 0 37,094 0	0 85,742 27,110 20,557 48,077 0 0 37,654 0	0 85,794 27,110 20,957 48,077 0 38,717 0 38,717	0 87,593 27,110 20,957 48,077 0 9 39,616 0	89,885 27,110 20.957 48,077 0 41,810 0	\$7,986 27,110 20,967 48,077 0 39,908 0	91,557 27,110 20,957 43,077 0 0 43,480 0	86,679 27,110 20,967 48,077 0 38,602 0
GFCU 1 SO2 EMISSIONS (TONS) ALLOWANCES KU BPA Allocated SO2 Allowa LGE EPA Allocated SO2 Allowa Combined Company Purchase Sell TOTAL KURLER ALLOWANCE EOY Increase (H)Decrease (I	LGE Total Total ances searces SO2 Allowances Short/all es CES	0 149,646 83,343 5 <u>2,456</u> 145,799 0 1,698 0 0 200000 147,497	0 142,283 63,343 62,456 145,799 0 1,376 0 0 1,376	0 511,927 38,768 28,983 68,751 0 972 0 0 0 0 0 0 0 0 0 0 0 0	0 0 81,683 38,768 29,983 68,751 0 0 0 0 0 0 0 0 0	0 0 85,551 38,768 <u>29,983</u> 58,751 0 0 0 0 0 0 68,751	0 0 83,167 38,768 <u>29,983</u> 68,751 0 0 0 0 0	0 0 63,232 38,768 29,983 68,757 0 0 0 0 0 68,751	0 0 83,565 27,110 20,957 48,077 0 0 0 0 48,077	0 0 82,976 27,510 20,962 48,077 0 15,321 0 15,321 0 63,398	0 0 25,827 27,110 20,967 48,077 0 37,820 0 37,820 0 85,897	0 85,213 27,110 20,952 48,077 0 37,136 0 37,136 0 85,213	0 0 82,777 27,110 20,96Z 46,077 0 34,700 0 34,700 0 82,777	0 0 82,703 27,110 20,967 48,077 0 34,625 0 34,625 0 82,703	0 85,172 27,110 20,357 48,077 0 37,094 0	0 85,742 27,110 20,557 48,077 0 37,654 0 37,654 0 85,742	0 86,794 27,110 20,957 48,077 0 38,717 0 38,717 0 86,794	0 87,593 27,110 20,957 48,077 0 9 39,616 0	89,885 27,110 20.957 48,077 0 41,810 0	87,986 27,110 20,967 48,077 0 39,908 0 39,908 0	91,557 27,110 20,257 43,077 0 43,480 0 43,480 0 91,557	85,679 27,110 20,267 48,077 0 0 38,602 0 85,679 0
GFCU 1 SO2 EMISSIONS (TONS) ALLOWANCES KU EPA Allocated SO2 Allow LGE EPA Allocated SO2 Allow LGE EPA Allocated SO2 Allow KU/LGE EPA Allocated SO2 Allow KU/LGE EPA Allocated SO2 Allow KU/LGE EPA Allocated SO2 Allocated Company Purchase Sett TOTAL KU/LGE ALLOWANC EOY Increase (H)Decrement	LGE Total Total ances searces SO2 Allowances Short/all es CES	0 149,546 83,343 62,256 145,799 0 1,698 0 0 0 147,497 -2,149 145,235 147,497	0 142,223 83,343 82,2458 0 1,376 0 1,376 0 0 147,175 4,892 150,127 147,175	0 111,927 38,768 23,983 68,751 0 972 0 0 772 69,722 -42,205 107,922 69,722 69,722	0 0 81,683 38,768 29,983 68,751 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	68,551 38,768 29,963 58,751 0 0 0 68,751 -11,810 83,179 68,751	0 0 83,187 33,763 23,983 68,751 0 0 0 0 68,751 .14,437 68,742 68,751	0 0 83,232 33,763 25,283 68,751 0 0 0 0 0 68,751 -14,482 54,260 68,751	0 0 27,110 20,567 48,077 -35,588 18,672 48,077	0 0 82,970 20,962 48,077 0 0 15,321 0 63,398 -18,672 - 48,077	0 0 25,897 27,110 20.567 48,077 0 37,820 0 37,820 0 85,897 0	0 85,213 27,110 20,952 48,077 0 37,136 0 37,136 0 85,213 0	0 0 82,777 27,110 20,96Z 46,077 0 34,700 0 34,700 0 82,777	0 0 82,703 27,110 20,957 48,077 0 34,625 0 34,625 0 82,703 0	0 85,172 27,110 20,357 48,077 0 37,094 0	0 85,742 27,110 20,557 48,077 0 37,564 0 85,742 0 48,077	0 86,794 27,110 20,957 48,077 0 38,717 0 38,717 0 86,794	0 87,593 27,110 20,957 48,077 0 9 39,616 0	89,885 27,110 20.957 48,077 0 41,810 0	\$7,986 27,110 20.957 48,077 0 39,908 0 \$7,986 0 48,077 (87.986)	91,557 27,110 20,957 43,077 0 43,480 0 91,557 0 48,077 (91,557)	86,679 27,110 20,957 48,077 0 38,602 0 86,679 0 48,077 (<u>86,679</u>)
GFCU 1 SO2 EMISSIONS (TONS) ALLOWANCES KU EPA Allocated SO2 Allow LGE EPA Allocated SO2 Allow Total KUL/GE Extension KULS Position of OMU Supports Combined Company Purchase Sett TOTAL KUL/GE ALLOWANC EOY Increase (H)Destress I ALLOWANCE BANK Total KUL/GE Allowance Bank	LGE Total Total Antoss SSO2 Allowances SSO2 Allowances Shortfall es Statistic trip Bank k (End of Year) 147,384 147,384	0 149,546 83,343 52,455 145,739 0 1,598 0 0 0 2,598 147,497 -2,149 145,235	0 142,233 83,343 62,456 0 1,376 0 0 1,376 0 1,376 0 1,376 0 1,376 0 1,376 0 1,376 0 1,376 0 1,376 0 1,376 0 1,376 0 1,376 0 1,376 0 1,376 0 1,376 0 1,375 1,376 1,	0 \$111,927 38,768 28,983 68,751 0 972 0 0 59,722 -42,205 107,922	0 0 81,683 38,768 28,983 68,751 0 0 0 0 68,751 -12,933 94,989	68,751 38,768 29,983 68,751 0 0 0 68,751 -11,810 53,179	0 0 85,187 36,765 29,285 65,755 0 0 0 0 65,755 1,14,437 68,742	0 0 83,232 38,768 23,283 68,757 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 83,866 27,110 20,977 48,077 0 0 0 0 0 0 48,077 -35,588 18,672	0 0 82,970 20,967 48,077 0 0 15,321 0 63,398 -18,672	0 0 85,837 27,110 20,967 48,077 0 0 37,820 0 85,897 0	0 65,213 27,110 20,952 48,077 0 37,136 0 37,136 0 85,213 0	0 0 82,777 27,110 20,562 48,077 0 34,700 0 34,700 0 34,700 0 - 48,077	0 0 82,703 22,110 20,957 48,077 0 0 34,625 0 34,625 0 82,703 0	0 85,172 27,110 20,957 45,077 0 37,094 85,172 0	0 85,742 27,110 20,552 48,077 0 0 37,664 0 85,742 0	9 86,794 27,110 20,967 48,077 0 38,717 0 86,794 0	0 87,693 27,110 20,957 48,077 0 39,616 0 87,693 0 - - 48,077	69,888 27,110 20,957 48,077 0 41,810 0 41,810 0 89,888 0	87,986 27,110 20,557 48,077 0 39,908 97,986 87,986 0	91,557 27,110 20,557 43,077 0 43,480 91,557 0 44,077	88,679 27,110 20,967 48,077 0 38,602 0 38,6679 0 48,077

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MAR 31 2008 PUBLIC SERVICE

SO₂ Compliance Strategy Ghent & Brown FGD Program

Kentucky Public Service Commission Update March 19, 2008

Executive Summary

- The KU FGD Program has experienced cost increases beyond those previously discussed
 - > Labor and material costs have continued to escalate
 - Projects continue to be aggressively managed, supported by competitive bidding process
- Completing the KU FGD Program remains a part of the Companies' Least Cost SO₂ Compliance Strategy
 - Projected fuel savings have increased at E.W. Brown and are unchanged at Ghent
 - SO₂ allowance price forecasts for 2010-2027 are unchanged from previous analyses
- Project Timing has been reviewed
 - > Ghent FGDs should be completed as originally planned
 - E.W. Brown FGD analysis supports an additional year in the construction schedule

Key Program Dates

• June 20, 2005	CCN granted for FGDs at Ghent and E.W. Brown
• October 31, 2006	Program update presented to KPSC (Ghent)
• April 26, 2007	Program update presented to KPSC (E.W. Brown)
• June 5, 2007	Actual in-service date for Ghent Unit 3 FGD
• March 19, 2008	Program update presented to KPSC (entire project)
• May 2008	Expected in-service date for Ghent Unit 4 FGD
• May 2009	Expected in-service date for Ghent Unit 1 FGD
• May 2010	Expected in-service date for E.W. Brown FGD



Ghent Unit 3 FGD





Ghent Unit 3 FGD





Ghent Unit 4 FGD





Ghent Unit 4 FGD





Ghent Unit 4 Chimney and FGD Absorber





Ghent Unit 1 Absorber and Chimney



Ghent Limestone Unloading Facility



Ghent 3 Operation to Date

- Ghent 3 FGD went in-service in June 2007
 - > FGD operating as designed and meeting all operational parameters
- An issue emerged with the new ID fans following in-service; similar fans were purchased for Ghent 4 and E.W. Brown
- Root cause analysis continues
- Current estimates include cost of fan remediation



Ghent 3 ID Fan





Operational Issues – ID Fan Impact on Ghent 4 and E.W. Brown

- ID Fans Short Term Actions
- Continue to operate Ghent 3 FGD; service fans as necessary
- Operate Ghent 4 FGD with existing (old) ID fans
- Potentially reduces operational capacity and SO₂ removal efficiency
- ID Fans Long Term Options
- Ghent 3 and 4
- ➢ Resolve bearing issues <u>OR</u>
- Order replacement fans, with lead time of 60+ weeks
- E.W. Brown Unit 3
- Order replacement fans, with lead time of 60+ weeks



Increased Capital Costs -- Ghent

 Increase in estimates 	
2004 Filing	\$425M
October 2006 Update	525
Current Estimate	682
Total Capital Increase	257
 Most significant changes 	
Marbat Immarts	\$100V

Market Impacts	\$109M
Scope Refinements (Limestone and BOP)	82
ID Fans	30

Future Capital Cost Risks

- Approximately \$463M (68%) of capital spent with \$522M (77%) committed (spent + under contract)
- Still subject to greater than anticipated labor increases and limited material cost increases



E.W. Brown FGD Absorber



E.W. Brown Chimney





E.W. Brown FGD - Limestone System



Increase in Capital Costs - E.W. Brown

Increase in estimates	
2004 Filing	\$234M
April 2007 Estimate	359
Current Estimate	<u>500</u>
Total Capital Increase	266
Most significant changes	
Market Impacts	\$116M
Ductwork & ID Fans	74
Scope Refinements (Limestone System and BOP)	54

• Future Capital Cost Risks

- Approximately \$126M (25%) of capital spent with \$182M (36%) committed (spent + under contract)
- Still subject to greater than anticipated labor increases and material cost increases
- Lengthening schedule by one year allows:
 - > Completion of engineering allows for enhanced execution of procurement and construction plan (addressing Flour's schedule issues)
 - > Certainty on ID fan solution

Significant Changes: Increase in Long-Term SO₂ Emission Allowance Prices Since 2004

- Revision reflects greater clarity on the cost of industry-wide FGD retrofits necessary to achieve targeted emissions reductions under CAIR
- Current market conditions support a robust longterm price outlook:
 - Increasing FGD construction cost
 - Higher gas prices promote higher levels of coal generation and relatively higher emissions
 - Increasing price spreads between low and high sulfur coals encourage fuel switching which may raise SO₂ emissions

Forecasted SO₂ Emissions Allowance Prices



 Higher SO₂ market prices make physical compliance (FGDs) more favorable than financial compliance (purchasing allowances)

Significant Changes: Fuel Price Gap -- Ghent

- Gap decreases through 2013 as FGDs are installed due to CAIR
- Long-term gap increases as low sulfur (compliance) coal supply tightens due to depletion of reserves
- High sulfur coal continues to be more attractive

Fuel Price Gap Between Low and High Sulfur Coal at Ghent



 Initial Fuel savings of 84 cents/mmBtu as FGDs allow Ghent to continue the switch from low to high sulfur coal (\$84m/yr savings in 2010)

Significant Changes: Fuel Price Gap - E.W. Brown

- Price Gap has increased from April 2007 due to transportation differential
- Gap lower than at Ghent due to differences in sulfur content and transport
- For all forecasts, long-term gap increases over time as low sulfur coal supply tightens
- High sulfur coal continues to be more attractive

Fuel Price Gap Between Low and High Sulfur Coal at Brown



• Initial Fuel savings of 29 cents/mmBtu as FGD allows E.W. Brown to switch from low to high sulfur coal (\$13m/yr savings in 2011)

Least-Cost Plan continues to include scrubbing Ghent and E.W. Brown

Ghent Case Summary

• \$224M (PVRR) better than Ghent 1 FGD cancellation (financial compliance)

					Incremental		Incremental Cost
Case	Production Cost	NO	Allowances	SO, Allowances	Capital Cost	Total PVRR	over Base
Base Case-Ghent 1 FGD in 2009	13,810	600182	-1	129	64	14,001	Base
Without Ghent 1 FGD	13,965		3	258	0	14,225	224

2008 PVRR \$ millions; Production & allowance costs estimated 2008-2028; Both cases include Brown FGD in 2010; 8.02% discount rate

Brown Case Summary

- \$58M (PVRR) better than the next best alternative (physical compliance completing Brown in 2011)
- \$99M (PVRR) better than FGD cancellation (financial compliance)

				Incremental		Incremental Cost
Case	Production Cost	NO ₂ Allowances	SO, Allowances	Capital Cost	Total PVRR	over Base
Base Case - BR123 FGD in 2010	13,810	-1	129	552	14,490	Base
Delay Case - BR123 FGD in 2011	13,805	-1	155	589	14,547	58
Without Brown FGD	13,885	-3	567	140	14,588	99

2008 PVRR \$ millions; Production & allowance costs estimated 2008-2028; All three cases include Ghent 1 FGD in 2009; 8.02% discount rate;

Incremental capital cost includes the Brown ash pond

Least-Cost Plan: Delays procurement of SO₂ allowances

300.000

200,000

100,000

-100.000

-200.00

-300,000

-500.000

Historical

Without BR FGD (with GH1 FGD-2009)

··· Without GH1 FGD (with BR FGD-2010)

Tons

Compared to Brown In-Service in 2011:

- Delays bank depletion two years
- Requires allowance purchases of 56,000 fewer tons

Compared to Ghent 1

Cancellation:

- Delays bank depletion five years
- Requires allowance purchases of 304,000 fewer tons

Compared to Brown

Cancellation:

- Delays bank depletion nine years
- Requires allowance purchases of 1.0 million fewer tons



Base Case - GH1 FGD-2009, BR FGD-2010

···· BR123 FGD in 2011 (GH1 FGD-2009)

Least-Cost Plan: Impacts

The Least Cost Plan is expected to:

- Decrease the cost of SO₂ compliance by approximately \$99 million in PVRR compared to the Brown Cancellation Case or by approximately \$224 million in PVRR compared to the Ghent 1 Cancellation Case
- Delay depletion of the SO₂ allowance bank until 2021 and reduce the allowance shortfall to ~173,000 tons through 2028
- Increase fuel procurement flexibility
- Position the Companies for the SO₂ reduction requirements of the Clean Air Interstate Rule and future regulations on fine particulates and mercury
- Increase typical residential customers' bills (1000 kwh/month) by \$2.17/month, which equates to a 3.5% increase in ECR billing factor above KU's original estimate in Case No. 2004-00426.

Combined Company SO₂ Compliance Strategy

- Continue with the construction of FGDs at Ghent Units 1 (2009) and 4 (2008) and a single FGD for E.W. Brown 1, 2 and 3 (2010)
- Purchase SO₂ allowances on an as-needed basis
- Continue the practice of environmental dispatching
- Continue to evaluate additional environmental technologies for existing generating assets