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**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen; Hillman, Timothy M.  
**CC:** Revlett, Gary; Straight, Scott; Wehrly, M. R.; Crabtree, Jonathan D.  
**Sent:** 4/8/2011 12:28:13 PM  
**Subject:** RE: Question for B&V - Baghouse Control Efficiency for Total Particulates

Eileen,

What I can discern from the e-mail, I assume that you are trying to determine compliance with the proposed UMACT by adding the filterable PM and the condensable PM (assumed to be the H<sub>2</sub>SO<sub>4</sub>) to compare to the 0.030 lb/MBtu emission limit. If so, there are several other questions that we'll need to discuss in order to help you. A few of these include:

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In order to better understand your question and be able to respond, I would propose we add this to our standard Monday conference call at 2 est (1 central).

Please let me know if this works for you. Feel free to give me a call to discuss.

Thanks,  
Kyle

**Kyle Lucas | Environmental Permitting Manager, Energy**

Black & Veatch Corporation | 11401 Lamar Avenue, Overland Park, KS 66211

+ 1 913-458-9062 p | +1 913-458-9062 f

LucasKJ@BV.com

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**From:** Saunders, Eileen [mailto:Eileen.Saunders@lge-ku.com]  
**Sent:** Friday, April 08, 2011 9:41 AM  
**To:** Hillman, Timothy M.; Lucas, Kyle J.  
**Cc:** Revlett, Gary; Straight, Scott  
**Subject:** FW: Question for B&V - Baghouse Control Efficiency for Total Particulates

Tim and Kyle,

As we continue to review the recent EPA ruling, several questions have come up which I hope you can address. Please see Gary's email below and let me know your thoughts as soon as possible. As always, if you have questions, you can contact Gary directly or email me and I will pass along the information.

Thank you,

Eileen

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**To:** Saunders, Eileen  
**Cc:** Wilson, Stuart  
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Gary

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**CC:** Revlett, Gary; Straight, Scott; Wehrly, M. R.; Crabtree, Jonathan D.  
**Sent:** 4/8/2011 12:36:07 PM  
**Subject:** RE: Question for B&V - Baghouse Control Efficiency for Total Particulates

Gary,

Can you participate on this call? If so, I will forward you the call in information. We will put this on the agenda first and then you can leave the call.

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Eileen

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Yes I can. Tim has already sent me a meeting notice, which I will accept.

---

**From:** Saunders, Eileen  
**Sent:** Friday, April 08, 2011 12:36 PM  
**To:** 'Lucas, Kyle J.'; Hillman, Timothy M.  
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**From:** Wilson, Stuart  
**To:** Winkler, Michael  
**CC:** Revlett, Gary  
**Sent:** 4/8/2011 3:38:06 PM  
**Subject:** Cooling Tower Cost Estimates

Mike,

Related to the upcoming ECR filing... We're working on an analysis to demonstrate the prudence (or not) of installing emission control equipment on our coal units. The alternative to installing emission controls on a given unit is retiring the unit. For the 'retirement' cases, we're trying to capture all the capital that we'd save as a result of the retirement. Related to this, do you have capital cost estimates (I recognize they'd only be 'estimates') for the cooling towers we'd have to build at Green River and Cane Run to comply with future water quality regulations. Are there other plants that would be impacted by these regulations?

I hope this makes sense. Please call me with questions. Thanks.

Stuart

---

**From:** Winkler, Michael  
**To:** Wilson, Stuart  
**CC:** Revlett, Gary; Voyles, John; Straight, Scott  
**Sent:** 4/8/2011 4:23:43 PM  
**Subject:** RE: Cooling Tower Cost Estimates  
**Attachments:** intake screens; WWTP

Stuart -

I'm going to attach the text of a couple different e-mails from PE where a very high level WAG was performed for fish screens and fish return systems (316b) and for wastewater treatment systems (effluent guidelines). Right now it doesn't appear that cooling towers will be required but they are still on the table as an option if the limitations can't be met in some other cheaper fashion. If you want to put them in the equation as a worst case scenario then you will need to speak with Scott Straight to get estimates. He did previously state that a cooling tower for MC1 would cost around \$30M.

Let me know if you have any questions.

Wink

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Stuart

---

**From:** Jones, Greg  
**To:** Winkler, Michael  
**CC:** Imber, Philip  
**Sent:** 4/6/2011 4:19:59 PM  
**Subject:** intake screens

MW,

Here is some very rough cost info on traveling water screens, from a vendor rep:

**A system that has screens as big as at Mill Creek:**

A new screen job would cost say 200K. Upgrading the system to accommodate the 2 mm small fish friendly screen would cost 300K. The peripheral equipment needed would include more water header work, valves, second sluice trough, etc. This would cost about the same as the 2mm system itself, at around 600K per intake bay. Round it up to \$750K.

Compared to MC, the screens at Cane Run and Ghent are shorter. They would run say \$500K for the 2mm system and peripherals.

MC has 4 bays @ 750= \$3M

CR has 6 @ 500= 3M

Ghent has 6 @ 500= 3M

I have no clue about the screens at Brown, Green River or TC.

The 2mm screens will reduce the overall flow. The TWS manufacturers can sometimes turn a screen system sideways, depending on the local configuration and hydraulics, and double the screen interface, or suction area if you will. I have not seen a drawing on this, but by increasing the area, the flow diminished by the smaller screens can be increased.

These systems would be double in cost of what the single systems cost. The MC number would go to \$6M.

I'll send something shortly on WWTPs

Thanks  
GWJ

---

**From:** Jones, Greg  
**To:** Winkler, Michael  
**CC:** Imber, Philip  
**Sent:** 4/6/2011 4:44:12 PM  
**Subject:** WWTP

Mike,

The PPL Brunner plant that accommodates 5.5 MGD of outflow has a capital cost of \$33M, putting the cost at \$6M per MGD flow, or \$6M/MGD.

I scoured the internet for industrial waste water treatment plant costs and found a wide range of costs, without really knowing the complete scope. Here is some of what I found:

- A guide for pricing a 2MGD plant at \$3.3 to 6.5M; using the high side places the cost at \$3M/MGD.
- Another guide for pricing this work at \$6/MGD.
- A project costing \$24M for a 30MGD plant; \$0.8M/MGD
- A project costing \$10M for a 2 MGD plant: \$5M/MGD
- A plant at \$80M for 8-12MGD. This was an outlier at \$8M/MGD
- Another plant at \$4M/MGD.

So there is a very crude trend in the 4 to 8 million dollar range per MGD for these plants ranging 5 to 20 MGD. The important number to look at would be the Brunner number that included sludge drying in the scope.

One could project some WWTP costs for the capacities below that you sent earlier:

CR - 6 MGD Say the same cost as Brunner at \$6M/MGD= \$35M

MC - 22 MGD The costs would not be linear, so due to the economy of scale assume 3M/MGD = \$60M

TC - No discharge until the new gypsum pond becomes operational in 2011 (then 2-3 MGD) Use \$8/MGD due to size= \$20M

BR - 8 MGD Say \$5M/MGD=\$40M

GH - 22 MGD Same as MC=\$60M

GR - 1-2 MGD use \$8M/MGD due to size= \$15M

These are very SWAG estimates. I hope this helps.

Thanks  
GWJ

---

**From:** Wilson, Stuart  
**To:** Winkler, Michael  
**CC:** Revlett, Gary; Voyles, John; Straight, Scott  
**Sent:** 4/8/2011 4:32:18 PM  
**Subject:** RE: Cooling Tower Cost Estimates

Thanks. A high level of estimate of what we'd expect to spend is best. This is perfect.

Thanks.

Stuart

---

**From:** Winkler, Michael  
**Sent:** Friday, April 08, 2011 4:24 PM  
**To:** Wilson, Stuart  
**Cc:** Revlett, Gary; Voyles, John; Straight, Scott  
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**To:** Revlett, Gary  
**Sent:** 4/11/2011 2:13:06 PM  
**Subject:** RE: Question for B&V - Baghouse Control Efficiency for Total Particulates

Gary,

Will you be able to join us on the B&V call to discuss your question? It started at 2 pm.

Dial-in Number: 877-603-8688  
Conf ID: 8791684

Thanks,

Eileen

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**Cc:** Straight, Scott; Wehrly, M. R.; Crabtree, Jonathan D.  
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**CC:** Saunders, Eileen; Hillman, Timothy M.; Wehrly, M. R.; Crabtree, Jonathan D.; Krauel, Christopher B. (Chris); 168908 E.ON-AQC  
**Sent:** 4/14/2011 10:20:10 PM  
**Subject:** 168908.14.4100 110414 - LG&E/KU UMACT Hg Removal  
**Attachments:** floor\_analysis\_coal\_hg\_031611.pdf

Gary,

Based on our conversation on Monday 4/11, we have investigated what Hg removal efficiencies can be expected when installing PJFF and PAC injection. Based on some general in-house vendor information PAC and PJFF alone can achieve 90-92% removal. Additional AQC control technologies can have additional removal potential.

We also looked at the EPA UMACT database and found that EPA had limited data to set the Hg MACT limit for coal fired units firing bituminous fuel, with PAC (activated carbon) and a PJFF. Quick scan of this data shows four units with this technology (plus other controls) achieving greater than 97%. These units are highlighted in yellow (PSEG Mercer Station, Havana, and Brandon Shores). Attached is the summary sheet with this information.

Additionally, we also highlighted the San Juan Generating Station in NM as its units also have PAC and PJFFs which are recent installations. The fuel is noted as sub-bituminous but it has some bituminous properties, but the mercury content is in-line with that of the bituminous units listed. Their removal efficiencies of Hg are greater than 99%.

Please let me know if you have any questions or would like to discuss.

Regards,  
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Plant Name	physical_state	Boiler_Type	Fuel_Type	el_Conc./MWh	Mercury_min	Mercury_min	%_reduction	Control_summary	Mercury_control	control_group_1	control_type_1
Will County	IL	Tangential firing	coal - subbituminous	8.00E-06	7.50E-10	7.27E-09	99.9900%ACI, 25.3		ACI	Other control	Activated carbon injection
Jolie 9	IL	Cyc one firing	coal - subbituminous	5.75E-06	7.53E-10	6.25E-09	99.9889%ACI, 25.3		ACI	Other control	Activated carbon injection
TS Power Plant	NV	Wall firing - opposed firing	coal - subbituminous	7.52E-06	8.67E-10	7.57E-09	99.9885%SCR, ACI, DRGD, FF		ACI	NDx control	Selective Catalytic Reduction
Waukegan	IL	Tangential firing	coal - subbituminous	7.24E-06	8.69E-10	5.98E-09	99.9880%ACI, 25.3		ACI	Other control	Activated carbon injection
Crowford	IL	Tangential firing	coal - subbituminous		1.42E-09	1.45E-08	ACI, 25.3		ACI	Other control	Activated carbon injection
Jolie 29	IL	Tangential firing	coal - subbituminous		1.64E-09	1.65E-08	ACI, 25.3		ACI	Other control	Activated carbon injection
Jolie 28	IL	Tangential firing	coal - subbituminous		2.35E-09	2.60E-08	ACI, 25.3		ACI	Other control	Activated carbon injection
Will County	IL	Tangential firing	coal - subbituminous		2.85E-09	2.65E-08	ACI, 25.3		ACI	Other control	Activated carbon injection
Risk	IL	Tangential firing	coal - subbituminous		3.44E-09	3.54E-08	ACI, 25.3		ACI	Other control	Activated carbon injection
Powertror	IL	Cyc one firing	coal - subbituminous		4.23E-09	4.22E-08	ACI, 25.3		ACI	Other control	Activated carbon injection
Powertror	IL	Cyc one firing	coal - subbituminous		4.25E-09	4.22E-08	ACI, 25.3		ACI	Other control	Activated carbon injection
Waukegan	IL	Tangential firing	coal - subbituminous		5.31E-09	5.36E-08	ACI, 25.3		ACI	Other control	Activated carbon injection
AES Greendale	NY	Tangential firing	coal - bituminous, petroleum coke		6.46E-09	6.44E-08	SCR, ACI, DRGD, FF		ACI	NDx control	Selective Catalytic Reduction
BL England	NJ	Cyc one firing	coal - bituminous		2.96E-08	2.84E-07	SNCR, ACI, ESP, WFGD		ACI	NDx control	Selective Noncatalytic Reduction
Blount	NM	Wall firing - opposed firing	coal - subbituminous	5.31E-06	3.43E-08	3.96E-07	99.9343%ESP, ACI, FF, WHSD		ACI	Other control	Activated carbon injection
Blount	NM	Wall firing - opposed firing	coal - subbituminous	1.71E-05	4.68E-08	4.96E-07	99.7255%ACI, FF, WHSD		ACI	Other control	Activated carbon injection
PEG Mercer Generating Station	NJ	Wall firing - unspecified	coal - bituminous	3.18E-06	5.21E-08	5.34E-07	98.1349%ESP, SCR, ACI, FF		ACI	PM control	Electrostatic precipitator, so d side, w/ flue gas conditioning
Blount	NM	Wall firing - front firing	coal - subbituminous	8.23E-06	6.10E-08	6.08E-07	99.2382%ACI, FF, WFGD		ACI	Other control	Activated carbon injection
PEG Mercer Generating Station	NJ	Wall firing - unspecified	coal - bituminous	5.12E-06	8.94E-08	6.08E-07	98.3391%ESP, SCR, ACI, FF		ACI	PM control	Electrostatic precipitator, so d side, w/ flue gas conditioning
Bridgeport Station	CT	Tangential firing	coal - bituminous	9.01E-08	9.01E-08	9.16E-07	ESP, ACI, FF		ACI	PM control	Electrostatic precipitator, so d side, w/o flue gas conditioning
Bridgeport station	CT	Tangential firing	coal - subbituminous	1.80E-06	1.22E-07	1.24E-06	93.3525%ESP, ACI, FF		ACI	PM control	Electrostatic precipitator, so d side, w/o flue gas conditioning
Blount	NM	Wall firing - front firing	coal - subbituminous	1.49E-05	1.31E-07	1.31E-06	99.1207%ACI, FF, WHSD		ACI	Other control	Activated carbon injection
Havana	IL	Wall firing - unspecified	coal - bituminous	5.66E-06	1.60E-07	1.67E-06	97.1802%ESP, SCR, ACI, DRGD, FF		ACI	PM control	Electrostatic precipitator, not d side, unspecified
Hennepin Power Station	IL	Tangential firing	coal - subbituminous	9.63E-06	1.62E-07	1.67E-06	97.3623%ESP, ACI, FF		ACI	PM control	Electrostatic precipitator, so d side, unspecified
Hennepin Power Station	IL	Tangential firing	coal - subbituminous	5.63E-06	1.62E-07	1.72E-06	97.5633%ESP, ACI, FF		ACI	PM control	Electrostatic precipitator, so d side, unspecified
Brandon Shores	MD	Wall firing - unspecified	coal - bituminous	7.80E-06	1.85E-07	1.79E-06	97.5624%SCR, ESP, ACI, DS, FF, WFGD		ACI	NDx control	Selective Catalytic Reduction
Vermilion	IL	Tangential firing	coal - subbituminous	5.82E-06	3.97E-07	4.58E-06	94.1788%ESP, ACI, FF		ACI	PM control	Electrostatic precipitator, unspecified
Vermilion	IL	Tangential firing	coal - subbituminous	5.82E-06	3.97E-07	3.88E-06	94.1788%ESP, ACI, FF		ACI	PM control	Electrostatic precipitator, unspecified
Comanche	CO	Wall firing - front firing	coal - subbituminous	7.19E-06	4.88E-07	4.66E-06	93.2100%ACI, DRGD, FF		ACI	Other control	Activated carbon injection
Comanche	CO	Tangential firing	coal - subbituminous		6.55E-07	6.43E-06	ACI, DRGD, FF		ACI	Other control	Activated carbon injection
Walter Scott Jr. Energy Center	IA	Wall firing - unspecified	coal - subbituminous	8.15E-06	7.20E-07	6.50E-06	91.1656%SCR, ACI, DRGD, FF		ACI	NDx control	Selective Catalytic Reduction
Hardin Generator Project	MT	Wall firing - unspecified	coal - bituminous	2.63E-06	8.93E-07	6.68E-06	86.6470%SCR, ACI, DRGD, FF		ACI	NDx control	Selective Catalytic Reduction
Wescon	WI	Wall firing - opposed firing	coal - subbituminous	7.04E-06	8.93E-07	8.04E-06	87.3145%SCR, ACI, DRGD, FF		ACI	NDx control	Selective Catalytic Reduction
Wescon	WI	Tangential firing	coal - subbituminous	5.33E-06	9.93E-07	9.28E-06	84.3362%FF, ACI		ACI	PM control	Fabric Filter, pulse
Colstrip	MT	Tangential firing	coal - subbituminous	3.36E-06	1.05E-06	9.88E-06	68.7633%ACI, WFGD, Venturi		ACI	Other control	Activated carbon injection
Mereduxia	IL	Tangential firing	coal - subbituminous	3.81E-06	1.80E-06	2.45E-05	45.6993%		ACI	Other control	Activated carbon injection
Joopa Steam	IL	Tangential firing	coal - subbituminous	5.67E-06	2.03E-06	1.99E-05	64.2114%		ACI	Other control	Activated carbon injection
Nebraska City	NE	Wall firing - front firing	coal - bituminous	2.22E-06	7.01E-06	2.30E-05	68.3383%		ACI	NDx control	Selective Catalytic Reduction
Newton	IL	Tangential firing	coal - subbituminous	5.47E-06	3.72E-06	3.30E-05	31.9162%		ACI	Other control	O 2/air (specify): flue gas conditioning
William	WI	Wall firing - rear firing	coal - subbituminous	5.22E-06	6.31E-06	6.91E-05	-1.5157%		ACI	Other control	Activated carbon injection
Marrimack Station	NH	Cyc one firing	coal - bituminous	4.96E-06	7.58E-06	6.79E-05	-74.0177%		ACI	NDx control	Selective Catalytic Reduction

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**From:** Lucas, Kyle J.  
**To:** Revlett, Gary  
**CC:** Saunders, Eileen; Hillman, Timothy M.; Wehrly, M. R.; Crabtree, Jonathan D.; Krauel, Christopher B. (Chris); 168908 E.ON-AQC  
**Sent:** 4/14/2011 6:36:27 PM  
**Subject:** 168908.14.4100 110414 - LG&E/KU UMACT Total PM Issue  
**Attachments:** LG&E UMACT Total PM 041411 H2SO4.pdf; LG&E UMACT Total PM 041411 SO3.pdf

Gary,

As we discussed on 4/11, B&V was requested to assist in determining whether the Phase II AQC project coal units (MC 1-4, Ghent 1-4, and Brown 1-3) and their future emission controls (DSI and PJFF) would comply with the proposed UMACT's total PM limit of 0.030 lb/MBtu emission limit. In addition B&V was to try to qualitatively discuss the possibility of plant averaging total PM to comply with the proposed UMACT and potentially remove one PJFF from each facility in Phase II AQC project. To accomplish this task, the basis calculation methodology/assumption to be used was:

[Filterable PM in lb/MBtu] + [condensable PM (consisting of H2SO4 only) in lb/MBtu] = [Total PM (UMACT threshold of 0.030 lb/MBtu)]

As part of this effort, we were to also consider the applicability of recent discussions with EPA and their "request" to meet a 5 ppm H2SO4 emission limit.

The 11 Phase II units fire a high sulfur bituminous which results in high emissions of H2SO4/SO3 and higher emissions of H2SO4/SO3 when you consider operation of a SCR (6 of 11 units).

In review of the project data, there was not enough information to determine current unit filterable PM emission rates and coincident H2SO4/SO3 emissions from the units in order to confirm whether the units would comply. We conservatively calculated various scenarios as example and offer the following discussion for your consideration:

#### 1. Vendor Guarantees

Recent PSD air permits for new sources have been issued with total PM emission limits ranging from 0.015 to 0.020 depending on fuel type and AQC systems. The test methods for compliance with the PSD permits is usually Method 5 and 202--same for the UMACT. It is reasonable to assume that, once approached for a guarantee on total PM and utilizing the existing unit AQC controls with DSI and new PJFF technology, that a vendor could guarantee a Total PM emission rate which would be less than the proposed UMACT total PM limit of 0.030 lb/MBtu.

Furthermore, depending on what the unit specific total PM emission limit guarantee is, additional analyses utilizing unit specific information will be required to determine if emissions averaging to comply with the UMACT total PM emissions is possible (perhaps for one unique unit), and thus removal of one PJFF from the Phase II AQC project. Based on the H2SO4/SO3 information from the recent Ghent project, the unit emissions are variable and highly unit/equipment specific with all units using high injection rates of Trona and lime (i.e., SO3 (for 2013) at 0.0344 lb/MBtu, 0.0313 lb/MBtu, 0.0196 lb/MBtu, and 0.0536 lb/MBtu) so it is difficult to predict how the Mill Creek and Brown units will emit with existing AQC controls and the addition of DSI only and no PJFF. Thus, based on these SO3 emissions, it is likely that each unit may need a PJFF.

As part of the Phase II AQC project, B&V did not request vendor specific information on this topic or guaranteed emission rates to support responding this request.

#### 2. Quick Calculation for Compliance with UMACT threshold

B&V performed a quick calculation (as noted above) for illustration purposes. We assumed a 0.010 lb/MBtu

filterable PM emission rate from the 11 units and a calculated a standard 5 ppm SO3 emission rate (assuming control of SO3 through existing AQC controls and DSI and a new PJFF). This example does not consider actual unit data. As you can see from this illustration (attached), the total combined emissions from this example show compliance with the UMACT limit 0.030 lb/MBtu total PM for either H2SO4 or SO3.

The results from this example show compliance using H2SO4/SO3 for condensable PM with minimal margin, but do not allow for UMACT compliance for total PM by emissions averaging of the units at a facility--or the removal of a potential new PJFF from the Phase II AQC project for a facility.

### Summary

From our summary review of this issue in the time allotted, B&V does not have specific project data that would allow a definitive determination of compliance with the UMACT's proposed total PM limit of 0.030 lb/MBtu. While the calculations in Item #2 above indicate that unit specific compliance may be achievable there is not enough "room" between the example calculated PM total unit emissions and the UMACT total PM limit to result in removing one PJFF from the Phase II AQC project at each facility.

It is assumed that these 11 units are the ones in which PM CEMs already been installed to monitor filterable, perhaps an alternative compliance method would be the total non-Hg metal option and conduct the HAP metals and total PM testing once every 5 years and determine an operating limit based on the filterable PM value.

Additionally, LG&E/KU must consider the compliance method for other pollutants beyond total PM for this proposed rule. This could include compliance with the proposed UMACT Hg emission limit of 1.0 lb/TBtu or 0.008 lb/GWh and each unit's current filterable PM emissions and non UMACT limits (i.e., Ghent's current program of injecting of lime and Trona and ESP operation).

Please let me know if you have any questions. Would be a happy to discuss this summary with you in greater detail and discuss options for further investigation.

Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager, Energy**

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**Stack PM**

Revised:

4/14/2011

ppm to lb/MMBtu calc:

Plant	Filterable PM (lb/MMBtu)	Condensable H <sub>2</sub> SO <sub>4</sub> (lb/MMBtu)	"Total PM" (lb/MMBtu)	Complies with UMACT	Utility MACT Limit (lb/M)
	0.010		0.0194		0.03
			5 ppm		
			0.0194 lb/MMBtu @ 7.5% O <sub>2</sub>		
Mill Creek 1	0.01		0.0194	Yes	
Mill Creek 2	0.01		0.0194	Yes	
Mill Creek 3*	0.01		0.0194	Yes	
Mill Creek 4*	0.01		0.0194	Yes	
Ghent 1*	0.01		0.0194	Yes	
Ghent 2	0.01		0.0194	Yes	
Ghent 3*	0.01		0.0194	Yes	
Ghent 4*	0.01		0.0194	Yes	
Brown 1	0.01		0.0194	Yes	
Brown 2	0.01		0.0194	Yes	
Brown 3*	0.01		0.0194	Yes	

\*indicates SCR



MBtu)

Stack PM

Revised:

4/14/2011

ppm to lb/MMBtu calc:

5 ppm

Plant	Filterable PM (lb/MMBtu)	Condensable SO <sub>3</sub> (lb/MMBtu)	"Total PM" (lb/MMBtu)	Complies with UMACT	Utility MACT Limit (lb/M)
	0.010 lb/MMBtu		0.0158 lb/MMBtu @ 7.5% O <sub>2</sub>		0.03
Mill Creek 1	0.01		0.0158	0.0258	Yes
Mill Creek 2	0.01		0.0158	0.0258	Yes
Mill Creek 3*	0.01		0.0158	0.0258	Yes
Mill Creek 4*	0.01		0.0158	0.0258	Yes
Ghent 1*	0.01		0.0158	0.0258	Yes
Ghent 2	0.01		0.0158	0.0258	Yes
Ghent 3*	0.01		0.0158	0.0258	Yes
Ghent 4*	0.01		0.0158	0.0258	Yes
Brown 1	0.01		0.0158	0.0258	Yes
Brown 2	0.01		0.0158	0.0258	Yes
Brown 3*	0.01		0.0158	0.0258	Yes

\*indicates SCR

IMBtu)

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**From:** Saunders, Eileen  
**To:** Revlett, Gary  
**CC:** Wilson, Stuart  
**Sent:** 4/15/2011 8:50:43 AM  
**Subject:** FW: 168908.14.4100 110414 - LG&E/KU UMACT Hg Removal  
**Attachments:** floor\_analysis\_coal\_hg\_031611.pdf

Gary,

Is Kyle's answer sufficient for you? I have copied Stuart on the information since we asked the question in order to give Stuart an emission parameter for the PJFFs.

Please let me know your thoughts today.

Thanks,

Eileen

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**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Thursday, April 14, 2011 10:20 PM  
**To:** Revlett, Gary  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Wehrly, M. R.; Crabtree, Jonathan D.; Krauel, Christopher B. (Chris); 168908 E.ON-AQC  
**Subject:** 168908.14.4100 110414 - LG&E/KU UMACT Hg Removal

Gary,  
Based on our conversation on Monday 4/11, we have investigated what Hg removal efficiencies can be expected when installing PJFF and PAC injection. Based on some general in-house vendor information PAC and PJFF alone can achieve 90-92% removal. Additional AQC control technologies can have additional removal potential.

We also looked at the EPA UMACT database and found that EPA had limited data to set the Hg MACT limit for coal fired units firing bituminous fuel, with PAC (activated carbon) and a PJFF. Quick scan of this data shows four units with this technology (plus other controls) achieving greater than 97%. These units are highlighted in yellow (PSEG Mercer Station, Havana, and Brandon Shores). Attached is the summary sheet with this information.

Additionally, we also highlighted the San Juan Generating Station in NM as its units also have PAC and PJFFs which are recent installations. The fuel is noted as sub-bituminous but it has some bituminous properties, but the mercury content is in-line with that of the bituminous units listed. Their removal efficiencies of Hg are greater than 99%.

Please let me know if you have any questions or would like to discuss.

Regards,  
Kyle

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Plant Name	physical_state	Boiler_Type	Fuel_Type	el_Conc./MWh	Mercury_min	Mercury_min	%_reduction	Control_summary	Mercury_control	control_group_1	control_type_1
Will County	IL	Tangential firing	coal - subbituminous	8.00E-06	7.50E-10	7.27E-09	99.9900%ACI, 25?		ACI	Other control	Activate carbon injection
Jolie 9	IL	Cyc one firing	coal - subbituminous	5.75E-06	7.53E-10	6.25E-09	99.9889%ACI, 25?		ACI	Other control	Activate carbon injection
TS Power Plant	NV	Wall firing - opposed firing	coal - subbituminous	7.52E-06	8.67E-10	7.57E-09	99.9885%SCR, ACI, DRGD, FF		ACI	NDx control	Selective Catalytic Reduction
Waukegan	IL	Tangential firing	coal - subbituminous	7.24E-06	8.69E-10	5.98E-09	99.9880%ACI, 25?		ACI	Other control	Activate carbon injection
Crowford	IL	Tangential firing	coal - subbituminous		1.42E-09	1.45E-08	ACI, 25?		ACI	Other control	Activate carbon injection
Jolie 29	IL	Tangential firing	coal - subbituminous		1.64E-09	1.65E-08	ACI, 25?		ACI	Other control	Activate carbon injection
Jolie 28	IL	Tangential firing	coal - subbituminous		2.35E-09	2.60E-08	ACI, 25?		ACI	Other control	Activate carbon injection
Will County	IL	Tangential firing	coal - subbituminous		2.85E-09	2.65E-08	ACI, 25?		ACI	Other control	Activate carbon injection
Fisk	IL	Tangential firing	coal - subbituminous		3.44E-09	3.54E-08	ACI, 25?		ACI	Other control	Activate carbon injection
Powerport	IL	Cyc one firing	coal - subbituminous		4.23E-09	4.22E-08	ACI, 25?		ACI	Other control	Activate carbon injection
Powerport	IL	Cyc one firing	coal - subbituminous		4.25E-09	4.22E-08	ACI, 25?		ACI	Other control	Activate carbon injection
Waukegan	IL	Tangential firing	coal - subbituminous		5.31E-09	5.36E-08	ACI, 25?		ACI	Other control	Activate carbon injection
AES Greendale	NY	Tangential firing	coal - bituminous, petroleum coke		6.46E-09	6.44E-08	SCR, ACI, DRGD, FF		ACI	NDx control	Selective Catalytic Reduction
BL England	NJ	Cyc one firing	coal - bituminous		2.96E-08	2.84E-07	SNCR, ACI, ESP, WFGD		ACI	NDx control	Selective Noncatalytic Reduction
Blount	NM	Wall firing - opposed firing	coal - subbituminous	5.31E-06	3.43E-08	3.96E-07	99.9343%ESP, SCR, ACI, DRGD, FF, WFGD		ACI	Other control	Activate carbon injection
Blount	NM	Wall firing - opposed firing	coal - subbituminous	1.71E-05	4.68E-08	4.96E-07	99.7255%ACI, FF, WFGD		ACI	Other control	Activate carbon injection
PEG Mercer Generating Station	NJ	Wall firing - unspecified	coal - bituminous	3.18E-06	5.21E-08	5.34E-07	98.1349%ESP, SCR, ACI, FF		ACI	PM control	Electrostatic precipitator, so d side, w/ flue gas conditioning
Blount	NM	Wall firing - front firing	coal - subbituminous	8.23E-06	6.10E-08	6.08E-07	99.2382%ACI, FF, WFGD		ACI	Other control	Activate carbon injection
PEG Mercer Generating Station	NJ	Wall firing - unspecified	coal - bituminous	5.12E-06	8.94E-08	6.08E-07	98.3391%ESP, SCR, ACI, FF		ACI	PM control	Electrostatic precipitator, so d side, w/ flue gas conditioning
Bridgeport Station	CT	Tangential firing	coal - bituminous	9.01E-08	9.01E-08	9.16E-07	ESP, ACI, FF		ACI	PM control	Electrostatic precipitator, so d side, w/o flue gas conditioning
Bridgeport station	CT	Tangential firing	coal - subbituminous	1.80E-06	1.22E-07	1.24E-06	93.3525%ESP, ACI, FF		ACI	PM control	Electrostatic precipitator, so d side, w/o flue gas conditioning
Blount	NM	Wall firing - front firing	coal - subbituminous	1.49E-05	1.31E-07	1.31E-06	99.1207%ACI, FF, WFGD		ACI	Other control	Activate carbon injection
Havana	IL	Wall firing - unspecified	coal - bituminous	5.66E-06	1.60E-07	1.67E-06	97.1802%ESP, SCR, ACI, DRGD, FF		ACI	PM control	Electrostatic precipitator, not d side, unspecified
Hennepin Power Station	IL	Tangential firing	coal - subbituminous	9.63E-06	1.62E-07	1.67E-06	97.3623%ESP, ACI, FF		ACI	PM control	Electrostatic precipitator, so d side, unspecified
Hennepin Power Station	IL	Tangential firing	coal - subbituminous	5.63E-06	1.62E-07	1.72E-06	97.5633%ESP, ACI, FF		ACI	PM control	Electrostatic precipitator, so d side, unspecified
Brandon Shores	MD	Wall firing - unspecified	coal - bituminous	7.80E-06	1.85E-07	1.79E-06	97.5624%SCR, ESP, ACI, DR, FF, WFGD		ACI	NDx control	Selective Catalytic Reduction
Vermilion	IL	Tangential firing	coal - subbituminous	5.82E-06	3.97E-07	4.58E-06	94.1788%ESP, ACI, FF		ACI	PM control	Electrostatic precipitator, unspecified
Vermilion	IL	Tangential firing	coal - subbituminous	5.82E-06	3.97E-07	3.88E-06	94.1788%ESP, ACI, FF		ACI	PM control	Electrostatic precipitator, unspecified
Comanche	CO	Wall firing - front firing	coal - subbituminous	7.19E-06	4.88E-07	4.66E-06	93.2100%ACI, DRGD, FF		ACI	Other control	Activate carbon injection
Comanche	CO	Tangential firing	coal - subbituminous		6.55E-07	6.43E-06	ACI, DRGD, FF		ACI	Other control	Activate carbon injection
Walter Scott Jr. Energy Center	IA	Wall firing - unspecified	coal - subbituminous	8.15E-06	7.20E-07	6.50E-06	91.1656%SCR, ACI, DRGD, FF		ACI	NDx control	Selective Catalytic Reduction
Hardin Generator Project	MT	Wall firing - unspecified	coal - bituminous	2.63E-06	8.93E-07	6.68E-06	86.6470%SCR, ACI, DRGD, FF		ACI	NDx control	Selective Catalytic Reduction
Wescon	WI	Wall firing - opposed firing	coal - subbituminous	7.04E-06	8.93E-07	8.04E-06	87.3145%SCR, ACI, DRGD, FF		ACI	NDx control	Selective Catalytic Reduction
Wescon	WI	Tangential firing	coal - subbituminous	5.33E-06	9.93E-07	9.28E-06	84.3362%FF, ACI		ACI	PM control	Fabric Filter, pulse
Colstrip	MT	Tangential firing	coal - subbituminous	3.36E-06	1.05E-06	9.88E-06	68.7633%ACI, WFGD, Venturi		ACI	Other control	Activate carbon injection
Mereduxia	IL	Tangential firing	coal - subbituminous	3.81E-06	1.80E-06	2.45E-05	45.6993%		ACI	Other control	Activate carbon injection
Joopa Steam	IL	Tangential firing	coal - subbituminous	5.67E-06	2.03E-06	1.99E-05	64.2114%		ACI	Other control	Activate carbon injection
Nebraska City	NE	Wall firing - front firing	coal - bituminous	2.22E-06	7.01E-06	2.35E-05	68.3383%		ACI	NDx control	Selective Catalytic Reduction
Newton	IL	Tangential firing	coal - subbituminous	5.47E-06	3.72E-06	3.30E-05	31.9162%		ACI	Other control	O 2/air (specify): flue gas conditioning
William	WI	Wall firing - rear firing	coal - subbituminous	5.22E-06	6.31E-06	6.91E-05	-1.5157%		ACI	Other control	Activate carbon injection
Marrimack Station	NH	Cyc one firing	coal - bituminous	4.96E-06	7.58E-06	6.79E-05	-74.0177%		ACI	NDx control	Selective Catalytic Reduction

---

**From:** Revlett, Gary  
**To:** Saunders, Eileen  
**CC:** Wilson, Stuart  
**Sent:** 4/15/2011 8:56:52 AM  
**Subject:** RE: 168908.14.4100 110414 - LG&E/KU UMACT Hg Removal

Hi Eileen,

Yes the information should be sufficient for Stuart to complete his analysis. You can pass along my appreciate in B&V expediting the process of developing this information.

Thanks,  
Gary

---

**From:** Saunders, Eileen  
**Sent:** Friday, April 15, 2011 8:51 AM  
**To:** Revlett, Gary  
**Cc:** Wilson, Stuart  
**Subject:** FW: 168908.14.4100 110414 - LG&E/KU UMACT Hg Removal

Gary,

Is Kyle's answer sufficient for you? I have copied Stuart on the information since we asked the question in order to give Stuart an emission parameter for the PJFFs.

Please let me know your thoughts today.

Thanks,

Eileen

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Thursday, April 14, 2011 10:20 PM  
**To:** Revlett, Gary  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Wehrly, M. R.; Crabtree, Jonathan D.; Krauel, Christopher B. (Chris); 168908 E.ON-AQC  
**Subject:** 168908.14.4100 110414 - LG&E/KU UMACT Hg Removal

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Please let me know if you have any questions or would like to discuss.

Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager, Energy**

Black & Veatch Corporation | 11401 Lamar Avenue, Overland Park, KS 66211

+ 1 913-458-9062 P | +1 913-458-9062 F

LucasKJ@BV.com

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---

**From:** Saunders, Eileen  
**To:** Revlett, Gary  
**Sent:** 4/15/2011 8:57:10 AM  
**Subject:** RE: 168908.14.4100 110414 - LG&E/KU UMACT Hg Removal

Will do!

---

**From:** Revlett, Gary  
**Sent:** Friday, April 15, 2011 8:57 AM  
**To:** Saunders, Eileen  
**Cc:** Wilson, Stuart  
**Subject:** RE: 168908.14.4100 110414 - LG&E/KU UMACT Hg Removal

Hi Eileen,

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Gary

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**Sent:** Friday, April 15, 2011 8:51 AM  
**To:** Revlett, Gary  
**Cc:** Wilson, Stuart  
**Subject:** FW: 168908.14.4100 110414 - LG&E/KU UMACT Hg Removal

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**To:** Revlett, Gary  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Wehrly, M. R.; Crabtree, Jonathan D.; Krauel, Christopher B. (Chris); 168908 E.ON-AQC  
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Please let me know if you have any questions or would like to discuss.

Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager, Energy**

Black & Veatch Corporation | 11401 Lamar Avenue, Overland Park, KS 66211

+ 1 913-458-9062 P | +1 913-458-9062 F

LucasKJ@BV.com

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**From:** Wilson, Stuart  
**To:** Revlett, Gary; Saunders, Eileen  
**Sent:** 4/15/2011 8:57:13 AM  
**Subject:** RE: 168908.14.4100 110414 - LG&E/KU UMACT Hg Removal

Mine, too!! J

---

**From:** Revlett, Gary  
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**Cc:** Wilson, Stuart  
**Subject:** RE: 168908.14.4100 110414 - LG&E/KU UMACT Hg Removal

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**To:** Revlett, Gary  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Wehrly, M. R.; Crabtree, Jonathan D.; Krauel, Christopher B. (Chris); 168908 E.ON-AQC  
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Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager, Energy**

Black & Veatch Corporation | 11401 Lamar Avenue, Overland Park, KS 66211

+ 1 913-458-9062 P | +1 913-458-9062 F

LucasKJ@BV.com

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---

**From:** Reeser, Karen  
**To:** Winkler, Michael; Revlett, Gary; Haller, Barbara; Cash, Rebecca; Medina, Roger  
**Sent:** 4/20/2011 2:40:44 PM  
**Subject:** Environmental Summit 2011.docx  
**Attachments:** Environmental Summit 2011.docx

Here is the draft agenda from the meeting today with the new times and presentations...

Environmental Summit  
2011  
12<sup>th</sup> Floor Assembly Room  
LG&E Building

1:00 – 1:05	Welcome	Revlett
1:05 – 1:15	Opening Comments	Dot/Bowling/Voyles
1:15 – 1:45	Kentucky/Washington View on Key Environmental Issues	Siemens
1:45 – 2:15	Key Air Issues/Impact on Us	Air Manager?
2:15 – 2:45	Key Land and Water Issues/Impact on Us	Winkler
2:45 – 3:00	Break	
3:00 – 3:30	IRP/ECR Plan	Voyles?
3:30 – 4:15	Black and Veatch Presentation	
4:15 – 4:30	Closing Discussion	Revlett

---

**From:** Schroeder, Andrea  
**To:** Revlett, Gary  
**Sent:** 5/16/2011 3:20:59 PM  
**Subject:** 2011 ECR Plan - Verification Pages  
**Attachments:** Revlett LG&E and KU Services Company Testimony Verification.docx

Gary,

Please print and sign 2 copies of the attached testimony verification page for the 2011 ECR Plan filing and return to me. Also, please let me know if you are scheduled out of the office any days at the end of the month so the form can be dated appropriately.

Thanks,  
Andrea

**Andrea Schroeder**  
**LG&E and KU**  
**State Regulation and Rates**  
**502-627-3651**  
**502-627-3213 (fax)**



---

**From:** Cash, Rebecca  
**To:** Saunders, Eileen  
**CC:** Revlett, Gary  
**Sent:** 5/19/2011 9:32:25 AM  
**Subject:** Mill creek construction schedule

Eileen,  
I have a couple of questions on the silos and construction schedule. Is the following correct on the silos to be constructed?  
2 PAC silos each for MC1-4 for 8 silos  
2 lime/Trona silos each for 8 total  
1 new ash silo that ties in with 2 existing

Do you have a detailed schedule of when we will start operating controls? I need estimated month and year for baghouse, PAC injection, FGD, lime injection, etc. I know they are estimates but I need a ballpark for the application.

I am in training the rest of the week but can answer any questions by e-mail. Thanks Eileen!

Rebecca  
Rebecca Cash  
LG&E and KU Energy LLC  
Office: (502)627-4633  
Cell: (502)216-1581

---

**From:** Saunders, Eileen  
**Sent:** Monday, May 16, 2011 01:08 PM  
**To:** Cash, Rebecca  
**Subject:** FW: 168908.14.4100 110414 - LG&E/KU UMACT Hg Removal

Rebecca,

Please check with Gary to see if this is the document he was referring to in your last conversation with him.

Thanks,

Eileen

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Thursday, April 14, 2011 10:20 PM  
**To:** Revlett, Gary  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Wehrly, M. R.; Crabtree, Jonathan D.; Krauel, Christopher B. (Chris); 168908 E.ON-AQC  
**Subject:** 168908.14.4100 110414 - LG&E/KU UMACT Hg Removal

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Please let me know if you have any questions or would like to discuss.

Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager, Energy**

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LucasKJ@BV.com

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**From:** Revlett, Gary  
**To:** Saunders, Eileen  
**Sent:** 5/25/2011 9:11:58 AM  
**Subject:** 2011 ECR Testimony by John Voyles (Diagrams and Drawings)

Good Morning Eileen,

If Project Engineering has completed the drawings and diagrams for John Voyles' 2011 ECR testimony, please forward me a copy.

Thanks,  
Gary

---

**From:** Saunders, Eileen  
**To:** Cash, Rebecca  
**CC:** Revlett, Gary  
**Sent:** 5/26/2011 11:20:42 AM  
**Subject:** RE: Mill creek construction schedule

Rebecca,

Would you give me a call to discuss when you can?

Thanks,

Eileen

---

**From:** Cash, Rebecca  
**Sent:** Thursday, May 19, 2011 9:32 AM  
**To:** Saunders, Eileen  
**Cc:** Revlett, Gary  
**Subject:** Mill creek construction schedule

Eileen,

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2 lime/Trona silos each for 8 total

1 new ash silo that ties in with 2 existing

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I am in training the rest of the week but can answer any questions by e-mail. Thanks Eileen!

Rebecca

Rebecca Cash

LG&E and KU Energy LLC

Office: (502)627-4633

Cell: (502)216-1581

---

**From:** Saunders, Eileen  
**Sent:** Monday, May 16, 2011 01:08 PM  
**To:** Cash, Rebecca  
**Subject:** FW: 168908.14.4100 110414 - LG&E/KU UMACT Hg Removal

Rebecca,

Please check with Gary to see if this is the document he was referring to in your last conversation with him.

Thanks,

Eileen

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Thursday, April 14, 2011 10:20 PM  
**To:** Revlett, Gary  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Wehrly, M. R.; Crabtree, Jonathan D.; Krauel, Christopher B. (Chris); 168908 E.ON-AQC  
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Please let me know if you have any questions or would like to discuss.

Regards,  
Kyle

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---

**From:** Schroeder, Andrea  
**To:** Revlett, Gary  
**Sent:** 5/27/2011 3:52:58 PM  
**Subject:** ECR filing

Gary - are you near a phone? Could you please call me ASAP? If after 5pm this evening, please call my cell phone at 502-229-4080....it's still a Frankfort number so you'll need to dial the area code.

We are trying to finalize the ECR and I need to touch base with you first. I'll be working with Xerox over the weekend to get it finished.

Thanks,  
Andrea

**Andrea Schroeder**  
**LG&E and KU**  
**State Regulation and Rates**  
**502-627-3651**  
**502-627-3213 (fax)**

---

**From:** Saunders, Eileen  
**To:** Cash, Rebecca  
**CC:** Revlett, Gary  
**Sent:** 6/3/2011 1:00:37 PM  
**Subject:** RE: Mill creek construction schedule

Rebecca,

I have forwarded you the in-service dates and proposed construction dates as requested. I have forwarded your questions regarding the silos to B&V and am waiting for their response. I just wanted them to double check their silo count. As soon as I hear from them, I will forward the response.

Thanks,

Eileen

---

**From:** Cash, Rebecca  
**Sent:** Thursday, May 19, 2011 9:32 AM  
**To:** Saunders, Eileen  
**Cc:** Revlett, Gary  
**Subject:** Mill creek construction schedule

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Office: (502)627-4633

Cell: (502)216-1581

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**To:** Cash, Rebecca  
**Subject:** FW: 168908.14.4100 110414 - LG&E/KU UMACT Hg Removal

Rebecca,

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Thanks,

Eileen

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**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Thursday, April 14, 2011 10:20 PM  
**To:** Revlett, Gary  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Wehrly, M. R.; Crabtree, Jonathan D.; Krauel, Christopher B. (Chris); 168908

E.ON-AQC

**Subject:** 168908.14.4100 110414 - LG&E/KU UMACT Hg Removal

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---

**From:** Saunders, Eileen  
**To:** Troost, Tom; Harper, Travis  
**Sent:** 5/20/2010 7:00:12 PM  
**Subject:** Fw: EON AQC Selection Sheets - Green River  
**Attachments:** ArchiveInfo.htm

Tom and Travis,

Here is the template for Green River. I will check calendars to set up a discussion time. Please ignore the CO question in the email. Gary Revlett is taking care of getting B&V the answer.

Thanks,

Eileen

---

**From:** Lucas, Kyle J. <LucasKJ@bv.com>  
**To:** Saunders, Eileen  
**Cc:** Mahabaleshwarkar, Anand <MahabaleshwarkarA@bv.com>; Hillman, Timothy M. <HillmanTM@bv.com>  
**Sent:** Thu May 20 17:50:21 2010  
**Subject:** EON AQC Selection Sheets - Green River

Eileen,  
Attached please find the AQC technology selection sheets for Green River Units 3 & 4. Please review this information and provide your approval for the recommended technologies. If E.ON chooses not to approve any of recommended technologies, please provide a detailed description of the alternative approach.

Additionally, we understand you are confirming the CO targeted emission level noted in the matrix of 0.02 lb/MBtu (for each of the 18 coal-fired units). We have assumed that this value is correct and was developed from the recent boiler MACT. However, B&V does not know of any feasible and proven CO control technology for units of this type and size.

Please feel free to contact us if you have any questions,

Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: lucaskj@bv.com

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The following attachments were archived from this message:

- Green River Unit 3 052010.doc
- Green River Unit 4 052010.doc

---

**From:** Saunders, Eileen  
**To:** 'LucasKJ@bv.com'  
**Sent:** 5/20/2010 7:01:13 PM  
**Subject:** Re: EON AQC Selection Sheets - Green River

Thank you! I will look at the missing information you requested in the morning.

Thanks,

Eileen

---

**From:** Lucas, Kyle J. <LucasKJ@bv.com>  
**To:** Saunders, Eileen  
**Cc:** Mahabaleshwarkar, Anand <MahabaleshwarkarA@bv.com>; Hillman, Timothy M. <HillmanTM@bv.com>  
**Sent:** Thu May 20 17:50:21 2010  
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Additionally, we understand you are confirming the CO targeted emission level noted in the matrix of 0.02 lb/MBtu (for each of the 18 coal-fired units). We have assumed that this value is correct and was developed from the recent boiler MACT. However, B&V does not know of any feasible and proven CO control technology for units of this type and size.

Please feel free to contact us if you have any questions,

Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: lucaskj@bv.com

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---

**From:** Saunders, Eileen  
**To:** Straight, Scott  
**Sent:** 5/20/2010 8:06:08 PM  
**Subject:** Fw: EON AQC Selection Sheets - Green River  
**Attachments:** ArchiveInfo.htm

Green River data.

---

**From:** Lucas, Kyle J. <Lucaskj@bv.com>  
**To:** Saunders, Eileen  
**Cc:** Mahabaleshwarkar, Anand <MahabaleshwarkarA@bv.com>; Hillman, Timothy M. <HillmanTM@bv.com>  
**Sent:** Thu May 20 17:50:21 2010  
**Subject:** EON AQC Selection Sheets - Green River

Eileen,  
Attached please find the AQC technology selection sheets for Green River Units 3 & 4. Please review this information and provide your approval for the recommended technologies. If E.ON chooses not to approve any of recommended technologies, please provide a detailed description of the alternative approach.

Additionally, we understand you are confirming the CO targeted emission level noted in the matrix of 0.02 lb/MBtu (for each of the 18 coal-fired units). We have assumed that this value is correct and was developed from the recent boiler MACT. However, B&V does not know of any feasible and proven CO control technology for units of this type and size.

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The following attachments were archived from this message:

- Green River Unit 3 052010.doc
- Green River Unit 4 052010.doc

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**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen  
**CC:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Sent:** 5/21/2010 8:15:23 AM  
**Subject:** RE: Environmental Compliance AQC Study

Do you have time to talk now? If so, please give me a call.

Thanks

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
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---

**From:** Saunders, Eileen [mailto:[Eileen.Saunders@eon-us.com](mailto:Eileen.Saunders@eon-us.com)]  
**Sent:** Friday, May 21, 2010 7:12 AM  
**To:** Lucas, Kyle J.  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** FW: Environmental Compliance AQC Study

Kyle,

I am confused by your request for additional Economic Factor information. Here is a copy of an email that I sent to B&V back on May 12, 2010. Many of the costs you are looking for (Trona, Limestone, etc), is in this spreadsheet. Please look at it again, and update the document you sent me last evening. If there is something still missing, please update the highlighted spreadsheet and let me know, no later than **9 am** your time.

Thank you,

Eileen

---

**From:** Saunders, Eileen  
**Sent:** Wednesday, May 12, 2010 4:03 PM  
**To:** Mahabaleshwarkar, Anand  
**Cc:** 'Hillman, Timothy M.'; Lucas, Kyle J.  
**Subject:** FW: Environmental Compliance AQC Study

Anand,



Here is an updated version of the Economic Evaluation Factors sheet.

Thanks,

Eileen

---

**From:** Karavayev, Louanne  
**Sent:** Wednesday, May 12, 2010 3:57 PM  
**To:** Saunders, Eileen  
**Cc:** Wilson, Stuart  
**Subject:** RE: Environmental Compliance AQC Study

Eileen,

I am attaching an updated Economic Evaluation Factors sheet. I've added some data for consumables, and also updated energy cost. I'm still waiting on some data, but wanted to go ahead and send an update. Thanks,

<<20100512\_LAK\_EconomicEvaluationFactors\_ESaunders\_DR(senttoEileen).xlsx>>

Lou Anne Karavayev

E.ON U.S.

Generation Planning

p (502) 627-2563

f (502) 217-4969

e [LouAnne.Karavayev@EON-US.com](mailto:LouAnne.Karavayev@EON-US.com)

---

**From:** Saunders, Eileen  
**Sent:** Tuesday, May 11, 2010 12:53 PM  
**To:** Karavayev, Louanne  
**Cc:** Wilson, Stuart  
**Subject:** RE: Environmental Compliance AQC Study

Louanne,

Thank you for your comments. I will pass this along to B&V and see what further discussions we may need to have.

Thanks,

Eileen

---

**From:** Karavayev, Louanne  
**Sent:** Monday, May 10, 2010 4:06 PM  
**To:** Saunders, Eileen  
**Cc:** Wilson, Stuart  
**Subject:** Environmental Compliance AQC Study

Eileen,

Stuart and I had some discussion after the meeting today, and realized that we will need a few key points of data for our model, from B&V. To model the potential changes to our units accurately, we will need to know the impact of additional control technologies on:

- Minimum and maximum capacity (MW)
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In other words, anything that would affect the dispatch and cost of our units, we need to know about. I'm not sure if this needs to be added to their big spreadsheet of deliverables, but I wanted to pass it along to you, just in case. Please let me know if I need to contact one of the B&V team directly. Thank you!

Lou Anne Karavayev

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---

**From:** Saunders, Eileen  
**To:** 'Lucas, Kyle J.'  
**Sent:** 5/21/2010 8:17:55 AM  
**Subject:** RE: Environmental Compliance AQC Study

Finishing up something so I will call your office in 5 minutes.

Thanks,

Eileen

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Friday, May 21, 2010 8:15 AM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** RE: Environmental Compliance AQC Study

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**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Friday, May 21, 2010 7:12 AM  
**To:** Lucas, Kyle J.  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** FW: Environmental Compliance AQC Study

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Eileen

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**From:** Saunders, Eileen  
**Sent:** Wednesday, May 12, 2010 4:03 PM  
**To:** Mahabaleshwarkar, Anand  
**Cc:** 'Hillman, Timothy M.'; Lucas, Kyle J.  
**Subject:** FW: Environmental Compliance AQC Study

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Eileen

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**From:** Karavayev, Louanne  
**Sent:** Wednesday, May 12, 2010 3:57 PM  
**To:** Saunders, Eileen  
**Cc:** Wilson, Stuart  
**Subject:** RE: Environmental Compliance AQC Study

Eileen,

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**From:** Saunders, Eileen  
**Sent:** Tuesday, May 11, 2010 12:53 PM  
**To:** Karavayev, Louanne  
**Cc:** Wilson, Stuart  
**Subject:** RE: Environmental Compliance AQC Study

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Eileen

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**From:** Karavayev, Louanne  
**Sent:** Monday, May 10, 2010 4:06 PM  
**To:** Saunders, Eileen  
**Cc:** Wilson, Stuart  
**Subject:** Environmental Compliance AQC Study

Eileen,

Stuart and I had some discussion after the meeting today, and realized that we will need a few key points of data for our model, from B&V. To model the potential changes to our units accurately, we will need to know the impact of additional control technologies on:

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**From:** Saunders, Eileen  
**To:** Jackson, Audrey  
**Sent:** 5/21/2010 8:25:11 AM  
**Subject:** FW: EON AQC Selection Sheets - Mill Creek  
**Attachments:** ArchiveInfo.htm

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Thursday, May 20, 2010 4:20 PM  
**To:** Saunders, Eileen  
**Cc:** Mahabaleshwarkar, Anand; Hillman, Timothy M.  
**Subject:** EON AQC Selection Sheets - Mill Creek

Eileen,  
Attached please find the AQC technology selection sheets for Mill Creek Units 1-4. Please review this information and provide your approval for the recommended technologies. If E.ON chooses not to approve any of recommended technologies, please provide a detailed description of the alternative approach.

Additionally, we understand you are confirming the CO targeted emission level noted in the matrix of 0.02 lb/MBtu (for each of the 18 coal-fired units). We have assumed that this value is correct and was developed from the recent boiler MACT. However, B&V does not know of any feasible and proven CO control technology for units of this type and size.

Please feel free to contact us if you have any questions,

Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
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The following attachments were archived from this message:

- Mill Creek Unit 4 052010.doc
- Mill Creek Unit 1 052010.doc
- Mill Creek Unit 2 052010.doc
- Mill Creek Unit 3 052010.doc

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**From:** Saunders, Eileen  
**To:** Jackson, Audrey  
**Sent:** 5/21/2010 8:25:41 AM  
**Subject:** FW: EON AQC Selection Sheet - Trimble County  
**Attachments:** ArchiveInfo.htm

---

**From:** Lucas, Kyle J. [mailto:Lucaskj@bv.com]  
**Sent:** Tuesday, May 18, 2010 7:03 PM  
**To:** Saunders, Eileen  
**Cc:** Mahabaleshwarkar, Anand; Hillman, Timothy M.  
**Subject:** EON AQC Selection Sheet - Trimble County

Eileen,  
Attached please find the AQC technology selection sheet for Trimble County Unit 1. At this time, we believe that Unit 2 has a full suite of AQC technologies that may meet the target emission levels and will be determined later when the unit is operational. Thus, we have not included an AQC technology selection sheet for this unit. Please review this information and provide your approval for the recommended technologies. If E.ON chooses not to approve any of recommended technologies, please provide a detailed description of the alternative approach.

Additionally, please confirm the CO targeted emission level noted in the matrix is 0.02 lb/MBtu (for each of the 18 coal-fired units). We have assumed that this value is correct and was developed from the recent boiler MACT. However, B&V does not know of any feasible and proven CO control technology for units of this type and size.

Please feel free to contact us if you have any questions,

Regards,  
Kyle

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- Trimble County Unit 1 051810.doc

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**From:** Saunders, Eileen  
**To:** Jackson, Audrey  
**Sent:** 5/21/2010 8:25:25 AM  
**Subject:** FW: EON AQC Selection Sheets - Green River  
**Attachments:** ArchiveInfo.htm

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**From:** Lucas, Kyle J. [mailto:Lucaskj@bv.com]  
**Sent:** Thursday, May 20, 2010 5:50 PM  
**To:** Saunders, Eileen  
**Cc:** Mahabaleshwarkar, Anand; Hillman, Timothy M.  
**Subject:** EON AQC Selection Sheets - Green River

Eileen,  
Attached please find the AQC technology selection sheets for Green River Units 3 & 4. Please review this information and provide your approval for the recommended technologies. If E.ON chooses not to approve any of recommended technologies, please provide a detailed description of the alternative approach.

Additionally, we understand you are confirming the CO targeted emission level noted in the matrix of 0.02 lb/MBtu (for each of the 18 coal-fired units). We have assumed that this value is correct and was developed from the recent boiler MACT. However, B&V does not know of any feasible and proven CO control technology for units of this type and size.

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The following attachments were archived from this message:

- Green River Unit 3 052010.doc
- Green River Unit 4 052010.doc

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**From:** Saunders, Eileen  
**To:** Jackson, Audrey  
**Sent:** 5/21/2010 8:25:52 AM  
**Subject:** FW: EON AQC Selection Sheets - Cane Run  
**Attachments:** ArchiveInfo.htm

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Thursday, May 20, 2010 3:13 PM  
**To:** Saunders, Eileen  
**Cc:** Mahabaleshwarkar, Anand; Hillman, Timothy M.  
**Subject:** EON AQC Selection Sheets - Cane Run

Eileen,  
Attached please find the AQC technology selection sheets for Cane Run Units 4-6. Please review this information and provide your approval for the recommended technologies. If E.ON chooses not to approve any of recommended technologies, please provide a detailed description of the alternative approach.

Additionally, we understand you are confirming the CO targeted emission level noted in the matrix of 0.02 lb/MBtu (for each of the 18 coal-fired units). We have assumed that this value is correct and was developed from the recent boiler MACT. However, B&V does not know of any feasible and proven CO control technology for units of this type and size.

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Kyle

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The following attachments were archived from this message:

- Cane Run Unit 4 052010.doc
- Cane Run Unit 5 052010.doc
- Cane Run Unit 6 052010.doc

---

**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen  
**CC:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Mehta, Pratik D.; Hooper, Richard G.; Muggli, David  
**Sent:** 5/21/2010 9:20:20 AM  
**Subject:** RE: Environmental Compliance AQC Study

Eileen,  
Based on our conversation this morning regarding economic factors, B&V will proceed with estimating the remaining economic factors based on data already provided within the spreadsheet for other plants or from in-house data. These will be used for the costs estimates we'll provide for the June 1 date, but will be included in the June 18 draft report for your review.

Please confirm this is your understanding of our discussion and process forward.

Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
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**From:** Saunders, Eileen [<mailto:Eileen.Saunders@eon-us.com>]  
**Sent:** Friday, May 21, 2010 7:12 AM  
**To:** Lucas, Kyle J.  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** FW: Environmental Compliance AQC Study

Kyle,

I am confused by your request for additional Economic Factor information. Here is a copy of an email that I sent to B&V back on May 12, 2010. Many of the costs you are looking for (Trona, Limestone, etc), is in this spreadsheet. Please look at it again, and update the document you sent me last evening. If there is something still missing, please update the highlighted spreadsheet and let me know, no later than **9 am** your time.

Thank you,

Eileen

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**Sent:** Wednesday, May 12, 2010 4:03 PM

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**Cc:** 'Hillman, Timothy M.'; Lucas, Kyle J.  
**Subject:** FW: Environmental Compliance AQC Study

Anand,

Here is an updated version of the Economic Evaluation Factors sheet.

Thanks,

Eileen

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**From:** Karavayev, Louanne  
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**Cc:** Wilson, Stuart  
**Subject:** RE: Environmental Compliance AQC Study

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**Cc:** Wilson, Stuart  
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Louanne,

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**To:** Saunders, Eileen  
**Cc:** Wilson, Stuart  
**Subject:** Environmental Compliance AQC Study



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e [LouAnne.Karavayev@EON-US.com](mailto:LouAnne.Karavayev@EON-US.com)

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---

**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen  
**CC:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Mehta, Pratik D.; Hooper, Richard G.; Muggli, David  
**Sent:** 5/21/2010 9:43:29 AM  
**Subject:** EON AQC Study - Tons Removed

Eileen,  
B&V has reviewed the E.ON information and have discovered that in order to complete the columns on the Cost Matrix (green highlighted columns) that indicate "tons removed" or "\$/ton" we require the uncontrolled NO<sub>x</sub>, CO, and dioxin/furan emissions from each unit. These values would be the estimated/actual emissions from the boiler combustion process or boiler exit before the exhaust gas starts through any of the post boiler equipment.

In the fast start of this project, B&V included this information in the draft matrix so that we could get the both teams working toward the common goal and to prepare for the kick-off meeting. This information is not necessary for the capital cost or O&M estimate.

The only near-term benefit of having this data may be to compare the pollutant tons removed between units or plants for a certain technology or to compare relative pricing of specific equipment per unit on a \$/ton basis. We would typically use this type of information in a more robust and strategic future compliance analysis that focuses on multiple technologies per unit per pollutant, plant or system averaging of emissions, new power generation costs, etc (future E.ON study). Also, I want to point out that while the \$/ton pollutant removed value is a somewhat standard value for comparison purposes on new unit technologies (BACT or MACT) or when you are looking at multiple technologies per unit and pollutant. This is not the case here for this study.

For comparison purposes between each unit and technology the \$/kW can be used.

To summarize, the uncontrolled NO<sub>x</sub>, CO, and dioxin/furan emissions from each unit are not necessary for us to proceed with providing the capital cost of equipment or the O&M costs. Therefore, if you agree, we will proceed without this unit specific information to provide the cost data by June 1. However, if you do want this information, then we will require the aforementioned information before we can proceed to provide the "tons removed" or "\$/ton" values.

To meet our project deadlines for the capital and O&M costs B&V will proceed with the understanding that the "tons removed" or "\$/ton" values will not be provided. Please confirm you agree with this approach. Feel free to give me a call if you have any questions or would like to discuss further.

Regards,  
Kyle

---

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: [lucaskj@bv.com](mailto:lucaskj@bv.com)

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---

**From:** Lucas, Kyle J.  
**Sent:** Friday, May 21, 2010 8:20 AM  
**To:** 'Saunders, Eileen'  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Mehta, Pratik D.; Hooper, Richard G.; Muggli, David  
**Subject:** RE: Environmental Compliance AQC Study

Eileen,  
Based on our conversation this morning regarding economic factors, B&V will proceed with estimating the remaining remaining economic factors based on data already provided within the spreadsheet for other plants or from in-house data. These will be used for the costs estimates we'll provide for the June 1 date, but will be included in the June 18 draft report for your review.

Please confirm this is your understanding of our discussion and process forward.

Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
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---

**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Friday, May 21, 2010 7:12 AM  
**To:** Lucas, Kyle J.  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** FW: Environmental Compliance AQC Study

Kyle,

I am confused by your request for additional Economic Factor information. Here is a copy of an email that I sent to B&V back on May 12, 2010. Many of the costs you are looking for (Trona, Limestone, etc), is in this spreadsheet. Please look at it again, and update the document you sent me last evening. If there is something still missing, please update the highlighted spreadsheet and let me know, no later than **9 am** your time.

Thank you,

Eileen

---

**From:** Saunders, Eileen  
**Sent:** Wednesday, May 12, 2010 4:03 PM  
**To:** Mahabaleshwarkar, Anand

**Cc:** 'Hillman, Timothy M.'; Lucas, Kyle J.  
**Subject:** FW: Environmental Compliance AQC Study

Anand,

Here is an updated version of the Economic Evaluation Factors sheet.

Thanks,

Eileen

---

**From:** Karavayev, Louanne  
**Sent:** Wednesday, May 12, 2010 3:57 PM  
**To:** Saunders, Eileen  
**Cc:** Wilson, Stuart  
**Subject:** RE: Environmental Compliance AQC Study

Eileen,

I am attaching an updated Economic Evaluation Factors sheet. I've added some data for consumables, and also updated energy cost. I'm still waiting on some data, but wanted to go ahead and send an update. Thanks,

<<20100512\_LAK\_EconomicEvaluationFactors\_ESaunders\_DR(senttoEileen).xlsx>>

Lou Anne Karavayev

E.ON U.S.

Generation Planning

p (502) 627-2563

f (502) 217-4969

e [LouAnne.Karavayev@EON-US.com](mailto:LouAnne.Karavayev@EON-US.com)

---

**From:** Saunders, Eileen  
**Sent:** Tuesday, May 11, 2010 12:53 PM  
**To:** Karavayev, Louanne  
**Cc:** Wilson, Stuart  
**Subject:** RE: Environmental Compliance AQC Study

Louanne,

Thank you for your comments. I will pass this along to B&V and see what further discussions we may need to have.

Thanks,

Eileen

---

**From:** Karavayev, Louanne  
**Sent:** Monday, May 10, 2010 4:06 PM  
**To:** Saunders, Eileen  
**Cc:** Wilson, Stuart  
**Subject:** Environmental Compliance AQC Study

Eileen,

Stuart and I had some discussion after the meeting today, and realized that we will need a few key points of data for our model, from B&V. To model the potential changes to our units accurately, we will need to know the impact of additional control technologies on:

- Minimum and maximum capacity (MW)
- Efficiency/Heat Rate
- Variable O&M (\$/MWh)
- Fixed O&M (\$/year)
- Fuel type/cost

In other words, anything that would affect the dispatch and cost of our units, we need to know about. I'm not sure if this needs to be added to their big spreadsheet of deliverables, but I wanted to pass it along to you, just in case. Please let me know if I need to contact one of the B&V team directly. Thank you!

Lou Anne Karavayev

E.ON U.S.

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f (502) 217-4969

e [LouAnne.Karavayev@EON-US.com](mailto:LouAnne.Karavayev@EON-US.com)

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---

**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen  
**CC:** Straight, Scott; Revlett, Gary; Mahabaleshwarkar, Anand; Hillman, Timothy M.; Mehta, Pratik D.  
**Sent:** 5/21/2010 10:10:50 AM  
**Subject:** RE: CO Emission Limit Question

Eileen,

B&V will use the 0.10 lb/MBtu as the target emission level for each of the units. However, there are not feasible and proven AQC post-combustion technologies that can be added to units of this type and size to control CO. CO emissions vary unit by unit and are very boiler specific and require specific "tuning". As part of this analysis, B&V will assume the 0.10 lb/MBtu CO emission level and review burner, neural networks, or similar technologies for the boiler that may assist in reaching the 0.10 lb/MBtu. If applicable, these costs will be incorporated into the cost analyses--these costs will be minimal compared to the other AQC technologies proposed.

To save time, B&V will not reissue the technology selection sheets for incorporating this CO emission level or technology, but will use this e-mail as confirmation of the approach. Please confirm your agreement with this approach.

Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 65211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
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**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Thursday, May 20, 2010 3:47 PM  
**To:** Revlett, Gary; Hillman, Timothy M.; Lucas, Kyle J.; Mahabaleshwarkar, Anand  
**Cc:** Straight, Scott  
**Subject:** RE: CO Emission Limit Question

Gary,

Please update the "Estimated Requirements Under Future New Environmental Regulations" document that was provided to the team and B&V as soon as possible. I need to make sure everyone receives the new limit for their records.

Thank you,

Eileen

---

**From:** Revlett, Gary  
**Sent:** Thursday, May 20, 2010 3:33 PM

**To:** 'Hillman, Timothy M. '; Saunders, Eileen; Lucas, Kyle J.; Mahabaleshwarkar, Anand  
**Subject:** RE: CO Emission Limit Question

Everyone,

I have reviewed my notes on the origin of the suggested Electric Generating Unit (EGU) MACT carbon monoxide limit of 0.02 lbs/mmBtu. This proposed CO MACT number came from some of our current emission inventories and was based on Table 1.1-3 of AP-42. The value in the table is 0.5 lbs per ton of coal burned, which is approximately 0.02 lbs/mmBtu. When providing this number, I didn't calculate the ppm value as a reality check. Since the ppm value would be less than 10, this does seem to be unrealistically low.

A key factor for the MACT CO will be the averaging time. I would now suggest using the proposed ICI boiler MACT for PC boilers, which is 90 ppm (corrected to 3% O<sub>2</sub>) and the averaging time of 24-hours. For the typical operating conditions of 7% O<sub>2</sub>, this would be equivalent to ~ 40 ppm or ~0.10 lbs/mmBtu.

Gary

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Thursday, May 20, 2010 9:54 AM  
**To:** Saunders, Eileen; Lucas, Kyle J.; Mahabaleshwarkar, Anand  
**Cc:** Revlett, Gary  
**Subject:** RE: CO Emission Limit Question

Understood...thanks.

**Tim Hillman | Senior Air Quality Scientist**

**Black & Veatch - Building a World of Difference™**

11401 Lamar Avenue  
 Overland Park, KS 66211  
 Phone: (913) 458-7928  
 Email: hillmantm@bv.com

---

**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Thursday, May 20, 2010 8:47 AM  
**To:** Hillman, Timothy M.; Lucas, Kyle J.; Mahabaleshwarkar, Anand  
**Cc:** Revlett, Gary  
**Subject:** CO Emission Limit Question

All,

Gary contacted me today regarding your question and he is in the process of researching the answer. As soon as I hear from him, I will pass along the information to you.

Thank you,

Eileen

---

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**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen; Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**CC:** Joyce, Jeff; Nix, Stephen; Piening, Carla  
**Sent:** 5/21/2010 10:38:44 AM  
**Subject:** RE: B&V AQCS- E ON Response

Received.

Thanks

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
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**From:** Saunders, Eileen [mailto:[Eileen.Saunders@eon-us.com](mailto:Eileen.Saunders@eon-us.com)]  
**Sent:** Friday, May 21, 2010 9:03 AM  
**To:** Hillman, Timothy M.; Lucas, Kyle J.; Mahabaleshwarkar, Anand  
**Cc:** Joyce, Jeff; Nix, Stephen; Piening, Carla  
**Subject:** FW: B&V AQCS- E ON Response  
**Importance:** High

All,

Please see the AQCS response from the Ghent Team. There were several General Comments for all Units that have been reflected in the comment section for Unit 1. As you review the document, please refer to the previously forwarded document titled, "Estimated Requirements Under Future New Environmental Regulations" developed by Gary Revlett for guidance.

If you have any questions, please contact me as soon as possible.

Thank you,

Eileen

<<Ghent Unit 1 051910 eon response.doc>> <<Ghent Unit 2 051910 eon response.doc>> <<Ghent Unit 3 051910 eon response.doc>> <<Ghent Unit 4 051910 eon response.doc>>

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**From:** Saunders, Eileen  
**To:** 'Lucas, Kyle J.'  
**CC:** Straight, Scott; Revlett, Gary; Mahabaleshwarkar, Anand; Hillman, Timothy M.; Mehta, Pratik D.  
**Sent:** 5/21/2010 10:43:41 AM  
**Subject:** RE: CO Emission Limit Question

Kyle,

I am in agreement with this approach.

Thank you,

Eileen

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Friday, May 21, 2010 10:11 AM  
**To:** Saunders, Eileen  
**Cc:** Straight, Scott; Revlett, Gary; Mahabaleshwarkar, Anand; Hillman, Timothy M.; Mehta, Pratik D.  
**Subject:** RE: CO Emission Limit Question

Eileen,

B&V will use the 0.10 lb/MBtu as the target emission level for each of the units. However, there are not feasible and proven AQC post-combustion technologies that can be added to units of this type and size to control CO. CO emissions vary unit by unit and are very boiler specific and require specific "tuning". As part of this analysis, B&V will assume the 0.10 lb/MBtu CO emission level and review burner, neural networks, or similar technologies for the boiler that may assist in reaching the 0.10 lb/MBtu. If applicable, these costs will be incorporated into the cost analyses--these costs will be minimal compared to the other AQC technologies proposed.

To save time, B&V will not reissue the technology selection sheets for incorporating this CO emission level or technology, but will use this e-mail as confirmation of the approach. Please confirm your agreement with this approach.

Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
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**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Thursday, May 20, 2010 3:47 PM  
**To:** Revlett, Gary; Hillman, Timothy M.; Lucas, Kyle J.; Mahabaleshwarkar, Anand  
**Cc:** Straight, Scott

**Subject:** RE: CO Emission Limit Question

Gary,

Please update the "Estimated Requirements Under Future New Environmental Regulations" document that was provided to the team and B&V as soon as possible. I need to make sure everyone receives the new limit for their records.

Thank you,

Eileen

---

**From:** Revlett, Gary  
**Sent:** Thursday, May 20, 2010 3:33 PM  
**To:** 'Hillman, Timothy M.'; Saunders, Eileen; Lucas, Kyle J.; Mahabaleshwarkar, Anand  
**Subject:** RE: CO Emission Limit Question

Everyone,

I have reviewed my notes on the origin of the suggested Electric Generating Unit (EGU) MACT carbon monoxide limit of 0.02 lbs/mmBtu. This proposed CO MACT number came from some of our current emission inventories and was based on Table 1.1-3 of AP-42. The value in the table is 0.5 lbs per ton of coal burned, which is approximately 0.02 lbs/mmBtu. When providing this number, I didn't calculate the ppm value as a reality check. Since the ppm value would be less than 10, this does seem to be unrealistically low.

A key factor for the MACT CO will be the averaging time. I would now suggest using the proposed ICI boiler MACT for PC boilers, which is 90 ppm (corrected to 3% O<sub>2</sub>) and the averaging time of 24-hours. For the typical operating conditions of 7% O<sub>2</sub>, this would be equivalent to ~ 40 ppm or ~0.10 lbs/mmBtu.

Gary

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Thursday, May 20, 2010 9:54 AM  
**To:** Saunders, Eileen; Lucas, Kyle J.; Mahabaleshwarkar, Anand  
**Cc:** Revlett, Gary  
**Subject:** RE: CO Emission Limit Question

Understood...thanks.

**Tim Hillman | Senior Air Quality Scientist**

**Black & Veatch - Building a World of Difference™**

11401 Lamar Avenue  
 Overland Park, KS 66211  
 Phone: (913) 458-7928  
 Email: hillmantm@bv.com

---

**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Thursday, May 20, 2010 8:47 AM  
**To:** Hillman, Timothy M.; Lucas, Kyle J.; Mahabaleshwarkar, Anand  
**Cc:** Revlett, Gary  
**Subject:** CO Emission Limit Question

All,

Gary contacted me today regarding your question and he is in the process of researching the answer.

As soon as I hear from him, I will pass along the information to you.

Thank you,

Eileen

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**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen  
**CC:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Mehta, Pratik D.  
**Sent:** 5/21/2010 10:52:23 AM  
**Subject:** E.ON AQC - Design Basis  
**Attachments:** ArchiveInfo.htm

Eileen,  
Attached is the design basis we have quickly developed for each unit based on the noted fuels and other information provided by E.ON. The design basis reflects the estimate of boiler and equipment operation based using the current unit emissions from the Matrix. B&V will use this information as the baseline for each unit and from this point the approved AQC technologies will be added and costs developed. Again, this is just one point/step of the overall costing process and can be revised in later phases of the project.

Please review this information and feel free to provide comments by Monday morning for consideration.

Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
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This message and its attachments have been archived. To retrieve, double click the message in the message list.

The following attachments were archived from this message:

- Design Basis for E-ON 052110b.pdf

---

**From:** Saunders, Eileen  
**To:** Turner, Steven; Hensley, Mike; Kirkland, Mike; Koller, Tiffany; Turner, Steven; Fraley, Jeffrey; Pabian, Brad; Carman, Barry; Troost, Tom; Harper, Travis; Crutcher, Tom; Turner, Haley; Wilson, Stuart; Karavayev, Louanne; Black, Greg; Revlett, Gary; Imber, Philip; Billiter, Delbert  
**CC:** Straight, Scott  
**Sent:** 5/21/2010 11:04:17 AM  
**Subject:** FW: E.ON AQC - Design Basis  
**Attachments:** ArchiveInfo.htm

All,

Please see the design basis B&V plans to use for the cost estimate based on the data E.ON has provided as well as their internal data and calculations. If you have any comments or questions, please let me know by Monday.

As you are looking at the spreadsheet, please see the last column, titled "Reference" for details on the build-up of each line of data.

Thank you,

Eileen

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Friday, May 21, 2010 10:52 AM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Mehta, Pratik D.  
**Subject:** E.ON AQC - Design Basis

Eileen,  
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Regards,  
Kyle

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The following attachments were archived from this message:

- Design Basis for E-ON 052110b.pdf

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**From:** Saunders, Eileen  
**To:** Crutcher, Tom; Turner, Haley  
**Sent:** 5/21/2010 1:15:18 PM  
**Subject:** FW: CO Emission Limit Question  
**Attachments:** ArchiveInfo.htm

---

**From:** Revlett, Gary  
**Sent:** Thursday, May 20, 2010 5:02 PM  
**To:** Saunders, Eileen  
**Subject:** RE: CO Emission Limit Question

Hi Eileen,

The revised tables are attached.

Gary

---

**From:** Saunders, Eileen  
**Sent:** Thursday, May 20, 2010 4:47 PM  
**To:** Revlett, Gary; 'Hillman, Timothy M.'; 'Lucas, Kyle J.'; 'Mahabaleshwarkar, Anand'  
**Cc:** Straight, Scott  
**Subject:** RE: CO Emission Limit Question

Gary,

Please update the "Estimated Requirements Under Future New Environmental Regulations" document that was provided to the team and B&V as soon as possible. I need to make sure everyone receives the new limit for their records.

Thank you,

Eileen

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**From:** Revlett, Gary  
**Sent:** Thursday, May 20, 2010 3:33 PM  
**To:** 'Hillman, Timothy M.'; Saunders, Eileen; Lucas, Kyle J.; Mahabaleshwarkar, Anand  
**Subject:** RE: CO Emission Limit Question

Everyone,

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A key factor for the MACT CO will be the averaging time. I would now suggest using the proposed ICI boiler MACT for PC boilers, which is 90 ppm (corrected to 3% O<sub>2</sub>) and the averaging time of 24-hours. For the typical operating conditions of 7% O<sub>2</sub>, this would be equivalent to ~ 40 ppm or ~0.10 lbs/mmBtu.

Gary

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**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]

**Sent:** Thursday, May 20, 2010 9:54 AM  
**To:** Saunders, Eileen; Lucas, Kyle J.; Mahabaleshwarkar, Anand  
**Cc:** Revlett, Gary  
**Subject:** RE: CO Emission Limit Question

Understood...thanks.

**Tim Hillman | Senior Air Quality Scientist**

**Black & Veatch - Building a World of Difference™**

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Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

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**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Thursday, May 20, 2010 8:47 AM  
**To:** Hillman, Timothy M.; Lucas, Kyle J.; Mahabaleshwarkar, Anand  
**Cc:** Revlett, Gary  
**Subject:** CO Emission Limit Question

All,

Gary contacted me today regarding your question and he is in the process of researching the answer. As soon as I hear from him, I will pass along the information to you.

Thank you,

Eileen

---

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This message and its attachments have been archived. To retrieve, double click the message in the message list.

The following attachments were archived from this message:

- Generation Future Environmental Requirements.xlsx

---

**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen; Lucas, Kyle J.; Mahabaleshwarkar, Anand  
**CC:** Kirkland, Mike; Koller, Tiffany; Stevens, Michael  
**Sent:** 5/21/2010 3:01:20 PM  
**Subject:** RE: Mill Creek AQCS Template Response

Eileen,

Received. Thanks,

**Tim Hillman | Senior Air Quality Scientist**

**Black & Veatch - Building a World of Difference™**

11401 Lamar Avenue

Overland Park, KS 66211

Phone: (913) 458-7928

Email: hillmantm@bv.com

---

**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Friday, May 21, 2010 1:37 PM  
**To:** Hillman, Timothy M.; Lucas, Kyle J.; Mahabaleshwarkar, Anand  
**Cc:** Kirkland, Mike; Koller, Tiffany; Stevens, Michael  
**Subject:** Mill Creek AQCS Template Response

All,

Please see the AQCS response from the Mill Creek Team. As you review the document, please refer to the previously forwarded document titled, "Estimated Requirements Under Future New Environmental Regulations" developed by Gary Revlett for guidance.

If you have any questions, please contact me as soon as possible.

Thank you,

Eileen

<<Mill Creek Unit 1 052010 eon response.doc>> <<Mill Creek Unit 2 052010 eon response.doc>> <<Mill Creek Unit 3 052010 eon response.doc>> <<Mill Creek Unit 4 052010 eon response.doc>>

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---

**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen; Lucas, Kyle J.; Mahabaleshwarkar, Anand  
**CC:** Fraley, Jeffrey; Pabian, Brad; Carman, Barry  
**Sent:** 5/21/2010 3:01:01 PM  
**Subject:** RE: AQCS Response - Brown Station

Eileen,

Received. Thanks,

**Tim Hillman | Senior Air Quality Scientist**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Friday, May 21, 2010 1:52 PM  
**To:** Hillman, Timothy M.; Lucas, Kyle J.; Mahabaleshwarkar, Anand  
**Cc:** Fraley, Jeffrey; Pabian, Brad; Carman, Barry  
**Subject:** FW: AQCS Response - Brown Station

All,

Please see the response from the Brown Team. You will notice that I have attached a separate document with comments regarding their preference for controlling NOx for the **station**. As you review the document, please refer to the previously forwarded document titled, "Estimated Requirements Under Future New Environmental Regulations" developed by Gary Revlett for guidance.

If you have any questions, please contact me as soon as possible.

Thank you,

Eileen

<<E W Brown Unit 1 051910 eon response.doc>> <<E W Brown Unit 2 051910 eon response.docx>> <<E W Brown Unit 3 051910 eon response.docx>> <<Brown AQC Comments.docx>>

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---

**From:** Billiter, Delbert  
**To:** Saunders, Eileen  
**Sent:** 5/21/2010 3:52:42 PM  
**Subject:** RE: E.ON AQC - Design Basis

Eileen,

I reviewed the fuel data and have the following comments:

1. Quality data is consistent with the information I provided.
2. For the ultimate analysis they have B&V combustion calculations listed in the reference column but it should be data from E-ON.
3. If B&V needs to fill in the % chlorine value it can be calculated from the trace metal analysis in the sheet.
4. The data for Brown assumes high sulfur and the TC2 data does not include a blend of PRB.

If you have any questions please call me.

Thanks,  
Delbert

Delbert Billiter  
E.ON US - Corporate Fuels  
220 West Main St.  
Louisville, KY 40202  
502-627-4668 -Office  
502-693-3030 -Cell  
delbert.billiter@eon-us.com  
502-627-3243 -Fax

---

**From:** Saunders, Eileen  
**Sent:** Friday, May 21, 2010 11:04 AM  
**To:** Turner, Steven; Hensley, Mike; Kirkland, Mike; Koller, Tiffany; Turner, Steven; Fraley, Jeffrey; Pabian, Brad; Carman, Barry; Troost, Tom; Harper, Travis; Crutcher, Tom; Turner, Haley; Wilson, Stuart; Karavayev, Louanne; Black, Greg; Revlett, Gary; Imber, Philip; Billiter, Delbert  
**Cc:** Straight, Scott  
**Subject:** FW: E.ON AQC - Design Basis

All,

Please see the design basis B&V plans to use for the cost estimate based on the data E.ON has provided as well as their internal data and calculations. If you have any comments or questions, please let me know by Monday.

As you are looking at the spreadsheet, please see the last column, titled "Reference" for details on the build-up of each line of data.

Thank you,

Eileen

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Friday, May 21, 2010 10:52 AM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Mehta, Pratik D.  
**Subject:** E.ON AQC - Design Basis

Eileen,

Attached is the design basis we have quickly developed for each unit based on the noted fuels and other information provided by E.ON. The design basis reflects the estimate of boiler and equipment operation based using the current unit emissions from the Matrix. B&V will use this information as the baseline for each unit and from this point the approved AQC technologies will be added and costs developed. Again, this is just one point/step of the overall costing process and can be revised in later phases of the project.

Please review this information and feel free to provide comments by Monday morning for consideration.

Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: [lucaskj@bv.com](mailto:lucaskj@bv.com)

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---

**From:** Saunders, Eileen  
**To:** Billiter, Delbert  
**Sent:** 5/21/2010 3:58:40 PM  
**Subject:** RE: E.ON AQC - Design Basis

Delbert,

Thank you very much. I will pass this along to B&V.

Thanks,

Eileen

---

**From:** Billiter, Delbert  
**Sent:** Friday, May 21, 2010 3:53 PM  
**To:** Saunders, Eileen  
**Subject:** RE: E.ON AQC - Design Basis

Eileen,

I reviewed the fuel data and have the following comments:

1. Quality data is consistent with the information I provided.
2. For the ultimate analysis they have B&V combustion calculations listed in the reference column but it should be data from E-ON.
3. If B&V needs to fill in the % chlorine value it can be calculated from the trace metal analysis in the sheet.
4. The data for Brown assumes high sulfur and the TC2 data does not include a blend of PRB.

If you have any questions please call me.

Thanks,  
Delbert

Delbert Billiter  
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Louisville, KY 40202  
502-627-4668 -Office  
502-693-3030 -Cell  
delbert.billiter@eon-us.com  
502-627-3243 -Fax

---

**From:** Saunders, Eileen  
**Sent:** Friday, May 21, 2010 11:04 AM  
**To:** Turner, Steven; Hensley, Mike; Kirkland, Mike; Koller, Tiffany; Turner, Steven; Fraley, Jeffrey; Pabian, Brad; Carman, Barry; Troost, Tom; Harper, Travis; Crutcher, Tom; Turner, Haley; Wilson, Stuart; Karavayev, Louanne; Black, Greg; Revlett, Gary; Imber, Philip; Billiter, Delbert  
**Cc:** Straight, Scott  
**Subject:** FW: E.ON AQC - Design Basis

All,

Please see the design basis B&V plans to use for the cost estimate based on the data E.ON has provided as well as their internal data and calculations. If you have any comments or questions, please let me know by Monday.

As you are looking at the spreadsheet, please see the last column, titled "Reference" for details on the build-up of each

line of data.

Thank you,

Eileen

---

**From:** Lucas, Kyle J. [mailto:Lucaskj@bv.com]  
**Sent:** Friday, May 21, 2010 10:52 AM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Mehta, Pratik D.  
**Subject:** E.ON AQC - Design Basis

Eileen,  
Attached is the design basis we have quickly developed for each unit based on the noted fuels and other information provided by E.ON. The design basis reflects the estimate of boiler and equipment operation based using the current unit emissions from the Matrix. B&V will use this information as the baseline for each unit and from this point the approved AQC technologies will be added and costs developed. Again, this is just one point/step of the overall costing process and can be revised in later phases of the project.  
Please review this information and feel free to provide comments by Monday morning for consideration.

Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: lucaskj@bv.com

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---

**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen; Lucas, Kyle J.; Mahabaleshwarkar, Anand  
**CC:** Turner, Steven; Hensley, Mike  
**Sent:** 5/21/2010 4:56:29 PM  
**Subject:** RE: AQCS Response - Cane Run Station

Eileen,

Received. Thanks

**Tim Hillman | Senior Air Quality Scientist**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Friday, May 21, 2010 3:39 PM  
**To:** Hillman, Timothy M.; Lucas, Kyle J.; Mahabaleshwarkar, Anand  
**Cc:** Turner, Steven; Hensley, Mike  
**Subject:** AQCS Response - Cane Run Station

All,

Please see the response from the Cane Run Team. The General Comments for all three units are listed under Cane Run 4's template on page number 3. As you review the document, please refer to the previously forwarded document titled, "Estimated Requirements Under Future New Environmental Regulations" developed by Gary Revlett for guidance.

If you have any questions, please contact me as soon as possible.

Thank you,

Eileen

<<Cane Run Unit 4 052010 eon response.doc>> <<Cane Run Unit 5 052010 eon response.doc>> <<Cane Run Unit 6 052010 eon response.doc>>

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---

**From:** Saunders, Eileen  
**To:** Gregory, Ronald  
**Sent:** 5/21/2010 5:03:30 PM  
**Subject:** FW: E.ON AQC - Design Basis  
**Attachments:** ArchiveInfo.htm

---

**From:** Lucas, Kyle J. [mailto:Lucaskj@bv.com]  
**Sent:** Friday, May 21, 2010 10:52 AM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Mehta, Pratik D.  
**Subject:** E.ON AQC - Design Basis

Eileen,  
Attached is the design basis we have quickly developed for each unit based on the noted fuels and other information provided by E.ON. The design basis reflects the estimate of boiler and equipment operation based using the current unit emissions from the Matrix. B&V will use this information as the baseline for each unit and from this point the approved AQC technologies will be added and costs developed. Again, this is just one point/step of the overall costing process and can be revised in later phases of the project.

Please review this information and feel free to provide comments by Monday morning for consideration.

Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: lucaskj@bv.com

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The following attachments were archived from this message:

- Design Basis for E-ON 052110b.pdf

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**From:** Saunders, Eileen  
**To:** Hillman, Timothy M.; 'Lucas, Kyle J.'; Mahabaleshwarkar, Anand  
**Sent:** 5/21/2010 5:19:41 PM  
**Subject:** FW: E.ON AQC - Design Basis

I would like to discuss Delbert's comments next Monday.

Thank you,

Eileen

---

**From:** Billiter, Delbert  
**Sent:** Friday, May 21, 2010 3:53 PM  
**To:** Saunders, Eileen  
**Subject:** RE: E.ON AQC - Design Basis

Eileen,

I reviewed the fuel data and have the following comments:

1. Quality data is consistent with the information I provided.
2. For the ultimate analysis they have B&V combustion calculations listed in the reference column but it should be data from E-ON.
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4. The data for Brown assumes high sulfur and the TC2 data does not include a blend of PRB.

If you have any questions please call me.

Thanks,  
Delbert

Delbert Billiter  
E.ON US - Corporate Fuels  
220 West Main St.  
Louisville, KY 40202  
502-627-4668 -Office  
502-693-3030 -Cell  
delbert.billiter@eon-us.com  
502-627-3243 -Fax

---

**From:** Saunders, Eileen  
**Sent:** Friday, May 21, 2010 11:04 AM  
**To:** Turner, Steven; Hensley, Mike; Kirkland, Mike; Koller, Tiffany; Turner, Steven; Fraley, Jeffrey; Pabian, Brad; Carman, Barry; Troost, Tom; Harper, Travis; Crutcher, Tom; Turner, Haley; Wilson, Stuart; Karavayev, Louanne; Black, Greg; Revlett, Gary; Imber, Philip; Billiter, Delbert  
**Cc:** Straight, Scott  
**Subject:** FW: E.ON AQC - Design Basis

All,

Please see the design basis B&V plans to use for the cost estimate based on the data E.ON has provided as well as their internal data and calculations. If you have any comments or questions, please let me know by Monday.

As you are looking at the spreadsheet, please see the last column, titled "Reference" for details on the build-up of each line of data.

Thank you,

Eileen

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Friday, May 21, 2010 10:52 AM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Mehta, Pratik D.  
**Subject:** E.ON AQC - Design Basis

Eileen,  
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Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: lucaskj@bv.com

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---

**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen; Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Sent:** 5/22/2010 9:20:40 AM  
**Subject:** RE: E.ON AQC - Design Basis

Eileen,  
We'll add this to the agenda for the conference call on Monday.

Thanks

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: [lucaskj@bv.com](mailto:lucaskj@bv.com)

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**From:** Saunders, Eileen [<mailto:Eileen.Saunders@eon-us.com>]  
**Sent:** Friday, May 21, 2010 4:20 PM  
**To:** Hillman, Timothy M.; Lucas, Kyle J.; Mahabaleshwarkar, Anand  
**Subject:** FW: E.ON AQC - Design Basis

I would like to discuss Delbert's comments next Monday.

Thank you,

Eileen

---

**From:** Billiter, Delbert  
**Sent:** Friday, May 21, 2010 3:53 PM  
**To:** Saunders, Eileen  
**Subject:** RE: E.ON AQC - Design Basis

Eileen,

I reviewed the fuel data and have the following comments:

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If you have any questions please call me.



Thanks,  
Delbert

Delbert Billiter  
E.ON US - Corporate Fuels  
220 West Main St.  
Louisville, KY 40202  
502-627-4668 -Office  
502-693-3030 -Cell  
delbert.billiter@eon-us.com  
502-627-3243 -Fax

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**From:** Saunders, Eileen  
**Sent:** Friday, May 21, 2010 11:04 AM  
**To:** Turner, Steven; Hensley, Mike; Kirkland, Mike; Koller, Tiffany; Turner, Steven; Fraley, Jeffrey; Pabian, Brad; Carman, Barry; Troost, Tom; Harper, Travis; Crutcher, Tom; Turner, Haley; Wilson, Stuart; Karavayev, Louanne; Black, Greg; Revlett, Gary; Imber, Philip; Billiter, Delbert  
**Cc:** Straight, Scott  
**Subject:** FW: E.ON AQC - Design Basis

All,

Please see the design basis B&V plans to use for the cost estimate based on the data E.ON has provided as well as their internal data and calculations. If you have any comments or questions, please let me know by Monday.

As you are looking at the spreadsheet, please see the last column, titled "Reference" for details on the build-up of each line of data.

Thank you,

Eileen

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Friday, May 21, 2010 10:52 AM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Mehta, Pratik D.  
**Subject:** E.ON AQC - Design Basis

Eileen,  
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Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
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Phone: (913) 458-9062 | Fax: (913) 458-9062  
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---

**From:** Saunders, Eileen  
**To:** 'LucasKJ@bv.com'  
**Sent:** 5/22/2010 9:36:22 AM  
**Subject:** Re: E.ON AQC - Design Basis

Thank you!

---

**From:** Lucas, Kyle J. <LucasKJ@bv.com>  
**To:** Saunders, Eileen; Hillman, Timothy M. <HillmanTM@bv.com>; Mahabaleshwarkar, Anand <MahabaleshwarkarA@bv.com>  
**Sent:** Sat May 22 09:20:40 2010  
**Subject:** RE: E.ON AQC - Design Basis

Eileen,  
We'll add this to the agenda for the conference call on Monday.

Thanks

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
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**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Friday, May 21, 2010 4:20 PM  
**To:** Hillman, Timothy M.; Lucas, Kyle J.; Mahabaleshwarkar, Anand  
**Subject:** FW: E.ON AQC - Design Basis

I would like to discuss Delbert's comments next Monday.

Thank you,

Eileen

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**From:** Billiter, Delbert  
**Sent:** Friday, May 21, 2010 3:53 PM  
**To:** Saunders, Eileen  
**Subject:** RE: E.ON AQC - Design Basis

Eileen,

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If you have any questions please call me.

Thanks,  
Delbert

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**From:** Saunders, Eileen  
**Sent:** Friday, May 21, 2010 11:04 AM  
**To:** Turner, Steven; Hensley, Mike; Kirkland, Mike; Koller, Tiffany; Turner, Steven; Fraley, Jeffrey; Pabian, Brad; Carman, Barry; Troost, Tom; Harper, Travis; Crutcher, Tom; Turner, Haley; Wilson, Stuart; Karavayev, Louanne; Black, Greg; Revlett, Gary; Imber, Philip; Billiter, Delbert  
**Cc:** Straight, Scott  
**Subject:** FW: E.ON AQC - Design Basis

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Thank you,

Eileen

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**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Friday, May 21, 2010 10:52 AM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Mehta, Pratik D.  
**Subject:** E.ON AQC - Design Basis

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Regards,

Kyle

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**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen  
**CC:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Mehta, Pratik D.  
**Sent:** 5/22/2010 9:40:58 AM  
**Subject:** Outstanding E.ON AQC Approvals

Eileen,  
Just to confirm, the outstanding approvals on the technology selection are for Green River and Trimble plants. From our discussion yesterday, we'll receive these from E.ON on Monday.

Thanks,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: [lucaskj@bv.com](mailto:lucaskj@bv.com)

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---

**From:** Saunders, Eileen  
**To:** 'LucasKJ@bv.com'  
**CC:** 'HillmanTM@bv.com'; 'MahabaleshwarkarA@bv.com'; 'MehtaPD@bv.com'  
**Sent:** 5/22/2010 9:45:36 AM  
**Subject:** Re: Outstanding E.ON AQC Approvals

That is correct. I met with Trimble's Mgt team Friday and am waiting on their ok to forward the finished document to B&V. Green River's information came so late on Thursday that the Plant Manager's Friday schedule was booked. I have a mtg with him Monday morning.

Eileen

---

**From:** Lucas, Kyle J. <LucasKJ@bv.com>  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M. <HillmanTM@bv.com>; Mahabaleshwarkar, Anand <MahabaleshwarkarA@bv.com>; Mehta, Pratik D. <MehtaPD@bv.com>  
**Sent:** Sat May 22 09:40:58 2010  
**Subject:** Outstanding E.ON AQC Approvals

Eileen,  
Just to confirm, the outstanding approvals on the technology selection are for Green River and Trimble plants. From our discussion yesterday, we'll receive these from E.ON on Monday.

Thanks,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
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Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: lucaskj@bv.com

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---

**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen; Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**CC:** Troost, Tom; Harper, Travis  
**Sent:** 5/24/2010 12:20:43 PM  
**Subject:** RE: AQCS Response - Green River Station

Received,

Thanks,

Kyle

**Kyle Lucas | Environmental Permitting Manager**

**Black & Veatch - Building a World of Difference™**

11401 Lamar Avenue  
Overland Park, KS 65211

Phone: (913) 458-9062 | Fax: (913) 458-9062

Email: [lucaskj@bv.com](mailto:lucaskj@bv.com)

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**From:** Saunders, Eileen [mailto:[Eileen.Saunders@eon-us.com](mailto:Eileen.Saunders@eon-us.com)]  
**Sent:** Monday, May 24, 2010 11:11 AM  
**To:** Saunders, Eileen; Hillman, Timothy M.; Lucas, Kyle J.; Mahabaleshwarkar, Anand  
**Cc:** Troost, Tom; Harper, Travis; Saunders, Eileen  
**Subject:** RE: AQCS Response - Green River Station

All,

Please see the response from the Green River Team. The General Comments for the two units are listed under Green River 4. As you review the document, please refer to the previously forwarded document titled, "Estimated Requirements Under Future New Environmental Regulations" developed by Gary Revlett for guidance.

If you have any questions, please contact me as soon as possible.

Thank you,

Eileen

<<Green River Unit 3 052010 eon response.doc>> <<Green River Unit 4 052010 eon response.doc>>

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---

**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen; Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**CC:** Crutcher, Tom; Turner, Haley  
**Sent:** 5/24/2010 3:50:52 PM  
**Subject:** 167987.14.0100 100524 RE: AQCS Response Trimble Country

Received,

Thanks,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: lucaskj@bv.com

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**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Monday, May 24, 2010 2:35 PM  
**To:** Hillman, Timothy M.; Lucas, Kyle J.; Mahabaleshwarkar, Anand  
**Cc:** Crutcher, Tom; Turner, Haley  
**Subject:** AQCS Response Trimble Country

All,

Please see the AQCS response from the Trimble County Team. As you review the document, please refer to the previously forwarded document titled, "Estimated Requirements Under Future New Environmental Regulations" developed by Gary Revlett for guidance.

If you have any questions, please contact me as soon as possible.

Thank you,

Eileen

<<Trimble County Unit 1 051810 eon response rev 3.docx>>

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*other than the intended recipient is not allowed. If you received this message and the information contained therein by error, please contact the sender and delete the material from your/any storage medium.*

---

**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen  
**CC:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Sent:** 5/30/2010 2:53:43 PM  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - Green River  
**Attachments:** ArchiveInfo.htm

Eileen,

Attached please find the draft AQCS Costs for the approved technologies at Green River Units 3 & 4. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

Regards,

Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
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The following attachments were archived from this message:

- Green River Unit 4 Cost Estimates 052810.pdf
- Green River Unit 3 Cost Estimates 052810.pdf

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**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen  
**CC:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Sent:** 5/30/2010 2:43:02 PM  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - EW Brown  
**Attachments:** ArchiveInfo.htm

Eileen,

Attached please find the draft AQCS Costs for the approved technologies at EW Brown Units 1-3. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

Regards,

Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
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The following attachments were archived from this message:

- Brown Unit 3 Cost Estimates 052810.pdf
- Brown Unit 1 Cost Estimates 052810.pdf
- Brown Unit 2 Cost Estimates 052810.pdf

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**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen  
**CC:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Sent:** 5/30/2010 2:59:41 PM  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - Trimble  
**Attachments:** ArchiveInfo.htm

Eileen,

Attached please find the draft AQCS Costs for the approved technologies for Trimble Unit 1. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

Regards,

Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**

11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
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The following attachments were archived from this message:

- Trimble Unit 1 Cost Estimates 052810.pdf

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**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen  
**CC:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Sent:** 5/30/2010 3:09:00 PM  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - Ghent  
**Attachments:** ArchiveInfo.htm

Eileen,

Attached please find the draft AQCS Costs for the approved technologies at Ghent Units 1-4. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

Regards,

Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**

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The following attachments were archived from this message:

- Ghent Unit 4 Cost Estimates 052810.pdf
- Ghent Unit 1 Cost Estimates 052810.pdf
- Ghent Unit 2 Cost Estimates 052810.pdf
- Ghent Unit 3 Cost Estimates 052810.pdf

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**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen  
**CC:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Sent:** 5/30/2010 3:23:27 PM  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - Mill Creek  
**Attachments:** ArchiveInfo.htm

Eileen,

Attached please find the draft AQCS Costs for the approved technologies at Mill Creek Units 1-4. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

Regards,

Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
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Phone: (913) 458-9062 | Fax: (913) 458-9062  
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- Mill Creek Unit 4 Cost Estimates 052810.pdf
- Mill Creek Unit 1 Cost Estimates 052810.pdf
- Mill Creek Unit 2 Cost Estimates 052810.pdf
- Mill Creek Unit 3 Cost Estimates 052810.pdf

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**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen  
**CC:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Sent:** 5/30/2010 3:34:15 PM  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - Cane Run  
**Attachments:** ArchiveInfo.htm

Eileen,

Attached please find the draft AQCS Costs for the approved technologies at Cane Run Units 4-6. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

Regards,

Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**

11401 Lamar Avenue  
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Phone: (913) 458-9062 | Fax: (913) 458-9062  
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The following attachments were archived from this message:

- Cane Run Unit 6 Cost Estimates 052810.pdf
- Cane Run Unit 4 Cost Estimates 052810.pdf
- Cane Run Unit 5 Cost Estimates 052810.pdf

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**From:** Saunders, Eileen  
**To:** 'LucasKJ@bv.com'  
**CC:** 'HillmanTM@bv.com'; 'MahabaleshwarkarA@bv.com'  
**Sent:** 5/30/2010 8:26:16 PM  
**Subject:** Re: 167987.26.0000 100530 - EON Draft AQCS Costs - Cane Run

Wow! Thank you all very much for delivery before the due date! I look forward to reviewing the data.  
Have a Safe Holiday,

Eileen

---

**From:** Lucas, Kyle J. <LucasKJ@bv.com>  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M. <HillmanTM@bv.com>; Mahabaleshwarkar, Anand <MahabaleshwarkarA@bv.com>  
**Sent:** Sun May 30 15:34:15 2010  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - Cane Run

Eileen,

Attached please find the draft AQCS Costs for the approved technologies at Cane Run Units 4-6. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

Regards,

Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
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**From:** Saunders, Eileen  
**To:** Raque, Gary; Ritchey, Stacy  
**Sent:** 6/1/2010 8:32:33 AM  
**Subject:** FW: 167987.26.0000 100530 - EON Draft AQCS Costs - EW Brown  
**Attachments:** ArchiveInfo.htm

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**From:** Lucas, Kyle J. [mailto:Lucaskj@bv.com]  
**Sent:** Sunday, May 30, 2010 2:43 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - EW Brown

Eileen,

Attached please find the draft AQCS Costs for the approved technologies at EW Brown Units 1-3. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

Regards,

Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
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- Brown Unit 3 Cost Estimates 052810.pdf
- Brown Unit 1 Cost Estimates 052810.pdf
- Brown Unit 2 Cost Estimates 052810.pdf

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**From:** Saunders, Eileen  
**To:** Raque, Gary; Ritchey, Stacy  
**Sent:** 6/1/2010 8:32:46 AM  
**Subject:** FW: 167987.26.0000 100530 - EON Draft AQCS Costs - Green River  
**Attachments:** ArchiveInfo.htm

---

**From:** Lucas, Kyle J. [mailto:Lucaskj@bv.com]  
**Sent:** Sunday, May 30, 2010 2:54 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - Green River

Eileen,

Attached please find the draft AQCS Costs for the approved technologies at Green River Units 3 & 4. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

Regards,

Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
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The following attachments were archived from this message:

- Green River Unit 4 Cost Estimates 052810.pdf
- Green River Unit 3 Cost Estimates 052810.pdf

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**From:** Saunders, Eileen  
**To:** Raque, Gary; Ritchey, Stacy  
**Sent:** 6/1/2010 8:32:55 AM  
**Subject:** FW: 167987.26.0000 100530 - EON Draft AQCS Costs - Trimble  
**Attachments:** ArchiveInfo.htm

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Sunday, May 30, 2010 3:00 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - Trimble

Eileen,

Attached please find the draft AQCS Costs for the approved technologies for Trimble Unit 1. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

Regards,

Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**

11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
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- Trimble Unit 1 Cost Estimates 052810.pdf

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**From:** Saunders, Eileen  
**To:** Raque, Gary; Ritchey, Stacy  
**Sent:** 6/1/2010 8:33:04 AM  
**Subject:** FW: 167987.26.0000 100530 - EON Draft AQCS Costs - Ghent  
**Attachments:** ArchiveInfo.htm

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**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Sunday, May 30, 2010 3:09 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - Ghent

Eileen,

Attached please find the draft AQCS Costs for the approved technologies at Ghent Units 1-4. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

Regards,

Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**

11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: lucaskj@bv.com

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The following attachments were archived from this message:

- Ghent Unit 4 Cost Estimates 052810.pdf
- Ghent Unit 1 Cost Estimates 052810.pdf
- Ghent Unit 2 Cost Estimates 052810.pdf
- Ghent Unit 3 Cost Estimates 052810.pdf



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**From:** Saunders, Eileen  
**To:** Raque, Gary; Ritchey, Stacy  
**Sent:** 6/1/2010 8:33:12 AM  
**Subject:** FW: 167987.26.0000 100530 - EON Draft AQCS Costs - Mill Creek  
**Attachments:** ArchiveInfo.htm

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Sunday, May 30, 2010 3:23 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - Mill Creek

Eileen,

Attached please find the draft AQCS Costs for the approved technologies at Mill Creek Units 1-4. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

Regards,

Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
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Phone: (913) 458-9062 | Fax: (913) 458-9062  
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- Mill Creek Unit 4 Cost Estimates 052810.pdf
- Mill Creek Unit 1 Cost Estimates 052810.pdf
- Mill Creek Unit 2 Cost Estimates 052810.pdf
- Mill Creek Unit 3 Cost Estimates 052810.pdf

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**From:** Saunders, Eileen  
**To:** Raque, Gary; Ritchey, Stacy  
**Sent:** 6/1/2010 8:33:20 AM  
**Subject:** FW: 167987.26.0000 100530 - EON Draft AQCS Costs - Cane Run  
**Attachments:** ArchiveInfo.htm

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Sunday, May 30, 2010 3:34 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - Cane Run

Eileen,

Attached please find the draft AQCS Costs for the approved technologies at Cane Run Units 4-6. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

Regards,

Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
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Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: lucaskj@bv.com

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- Cane Run Unit 6 Cost Estimates 052810.pdf
- Cane Run Unit 4 Cost Estimates 052810.pdf
- Cane Run Unit 5 Cost Estimates 052810.pdf

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**From:** Saunders, Eileen  
**To:** 'Lucas, Kyle J.'  
**CC:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Sent:** 6/1/2010 11:34:16 AM  
**Subject:** RE: 167987.26.0000 100530 - EON Draft AQCS Costs - Mill Creek

Good Morning Kyle,

After reviewing the documents, I have a few questions for B&V:

- The Capital Costs for Mill Creek 1 and 2 are exactly the same. The O&M Costs are slightly different. I am sure I will be asked about the difference. Please explain.
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Lastly, my youngest is having a 5<sup>th</sup> grade graduation ceremony this afternoon. I will not be able to answer my phone beginning around 2:00 until 4:00 (EST). Please feel free to communicate with me via email.

Thanks,

Eileen

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Sunday, May 30, 2010 3:23 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - Mill Creek

Eileen,

Attached please find the draft AQCS Costs for the approved technologies at Mill Creek Units 1-4. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

Regards,

Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: lucaskj@bv.com

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---

**From:** Saunders, Eileen  
**To:** Ritchey, Stacy; Raque, Gary  
**Sent:** 6/1/2010 12:17:16 PM  
**Subject:** FW: 167987.26.0000 100530 - EON Draft AQCS Costs - Cane Run  
**Attachments:** ArchiveInfo.htm

phone

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Sunday, May 30, 2010 3:34 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - Cane Run

Eileen,  
Attached please find the draft AQCS Costs for the approved technologies at Cane Run Units 4-6. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
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This message and its attachments have been archived. To retrieve, double click the message in the message list.

The following attachments were archived from this message:

- Cane Run Unit 6 Cost Estimates 052810.pdf
- Cane Run Unit 4 Cost Estimates 052810.pdf
- Cane Run Unit 5 Cost Estimates 052810.pdf

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**From:** Saunders, Eileen  
**To:** Ritchey, Stacy; Raque, Gary  
**Sent:** 6/1/2010 12:17:49 PM  
**Subject:** FW: E.ON AQC - Design Basis  
**Attachments:** ArchiveInfo.htm

FYI

---

**From:** Lucas, Kyle J. [mailto:Lucaskj@bv.com]  
**Sent:** Friday, May 21, 2010 10:52 AM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Mehta, Pratik D.  
**Subject:** E.ON AQC - Design Basis

Eileen,  
Attached is the design basis we have quickly developed for each unit based on the noted fuels and other information provided by E.ON. The design basis reflects the estimate of boiler and equipment operation based using the current unit emissions from the Matrix. B&V will use this information as the baseline for each unit and from this point the approved AQC technologies will be added and costs developed. Again, this is just one point/step of the overall costing process and can be revised in later phases of the project.

Please review this information and feel free to provide comments by Monday morning for consideration.

Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
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The following attachments were archived from this message:

- Design Basis for E-ON 052110b.pdf

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**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**CC:** Mahabaleshwarkar, Anand; Lucas, Kyle J.; Mehta, Pratik D.  
**Sent:** 6/1/2010 3:27:56 PM  
**Subject:** RE: 167987.26.0000 100530 - EON Draft AQCS Costs - Mill Creek

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Regards,

**Tim Hillman | Senior Air Quality Scientist**

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11401 Lamar Avenue

Overland Park, KS 66211

Phone: (913) 458-7928

Email: hillmantm@bv.com

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**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Tuesday, June 01, 2010 10:34 AM  
**To:** Lucas, Kyle J.  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** RE: 167987.26.0000 100530 - EON Draft AQCS Costs - Mill Creek

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Eileen

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**From:** Saunders, Eileen  
**To:** 'HillmanTM@bv.com'  
**Sent:** 6/1/2010 4:12:17 PM  
**Subject:** Re: 167987.26.0000 100530 - EON Draft AQCS Costs - Mill Creek

That sounds fine Tim. Just let me know the time.

Eileen

---

**From:** Hillman, Timothy M. <HillmanTM@bv.com>  
**To:** Saunders, Eileen  
**Cc:** Mahabaleshwarkar, Anand <MahabaleshwarkarA@bv.com>; Lucas, Kyle J. <LucasKJ@bv.com>; Mehta, Pratik D. <MehtaPD@bv.com>  
**Sent:** Tue Jun 01 15:27:56 2010  
**Subject:** RE: 167987.26.0000 100530 - EON Draft AQCS Costs - Mill Creek

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Email: hillmantm@bv.com

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**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**CC:** Mahabaleshwarkar, Anand; Mehta, Pratik D.; Lucas, Kyle J.; King, Michael L. (Mike)  
**Sent:** 6/1/2010 4:26:53 PM  
**Subject:** RE: 167987.26.0000 100530 - EON Draft AQCS Costs - Mill Creek

Eileen,

Lets plan on discussing tomorrow (Wed, 6/2/10) at 9:30 our time, 10:30 yours. Please use the call in number below.

Dial-in Number: 877-603-8688

Conf ID: 8791684

Best regards,

**Tim Hillman | Senior Air Quality Scientist**

**Black & Veatch - Building a World of Difference™**

11401 Lamar Avenue

Overland Park, KS 66211

Phone: (913) 458-7928

Email: hillmantm@bv.com

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**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Tuesday, June 01, 2010 3:12 PM  
**To:** Hillman, Timothy M.  
**Subject:** Re: 167987.26.0000 100530 - EON Draft AQCS Costs - Mill Creek

That sounds fine Tim. Just let me know the time.

Eileen

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**From:** Saunders, Eileen  
**To:** Ritchey, Stacy; Raque, Gary  
**Sent:** 6/1/2010 4:30:05 PM  
**Subject:** Fw: 167987.26.0000 100530 - EON Draft AQCS Costs - Mill Creek

For tomorrow.

Thanks,

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**From:** Hillman, Timothy M. <HillmanTM@bv.com>  
**To:** Saunders, Eileen  
**Cc:** Mahabaleshwarkar, Anand <MahabaleshwarkarA@bv.com>; Mehta, Pratik D. <MehtaPD@bv.com>; Lucas, Kyle J. <LucasKJ@bv.com>; King, Michael L. (Mike) <kingml@bv.com>  
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**From:** Saunders, Eileen  
**To:** 'HillmanTM@bv.com'  
**Sent:** 6/1/2010 4:30:28 PM  
**Subject:** Re: 167987.26.0000 100530 - EON Draft AQCS Costs - Mill Creek

Sounds good!

Eileen

---

**From:** Hillman, Timothy M. <HillmanTM@bv.com>  
**To:** Saunders, Eileen  
**Cc:** Mahabaleshwarkar, Anand <MahabaleshwarkarA@bv.com>; Mehta, Pratik D. <MehtaPD@bv.com>; Lucas, Kyle J. <LucasKJ@bv.com>; King, Michael L. (Mike) <kingml@bv.com>  
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**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - Mill Creek

Eileen,

Attached please find the draft AQCS Costs for the approved technologies at Mill Creek Units 1-4. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

Regards,

Kyle

**Kyle Lucas | Environmental Permitting Manager**

**Black & Veatch - Building a World of Difference™**

11401 Lamar Avenue

Overland Park, KS 66211

Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: lucaskj@bv.com

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---

**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen  
**CC:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Sent:** 6/2/2010 7:55:13 AM  
**Subject:** 167987.23.0200 100602 - EON Draft AQCS Design Basis  
**Attachments:** ArchiveInfo.htm

Eileen,  
Attached please find the design basis with updated references based on our conversation last week.  
Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: [lucaskj@bv.com](mailto:lucaskj@bv.com)

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The following attachments were archived from this message:

- Design Basis for E-ON 060110.pdf



---

**From:** Saunders, Eileen  
**To:** 'Lucaskj@bv.com'  
**CC:** 'HillmanTM@bv.com'; 'MahabaleshwarkarA@bv.com'  
**Sent:** 6/2/2010 8:04:29 AM  
**Subject:** Re: 167987.23.0200 100602 - EON Draft AQCS Design Basis

Thank you.

Eileen

---

**From:** Lucas, Kyle J. <Lucaskj@bv.com>  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M. <HillmanTM@bv.com>; Mahabaleshwarkar, Anand <MahabaleshwarkarA@bv.com>  
**Sent:** Wed Jun 02 07:55:13 2010  
**Subject:** 167987.23.0200 100602 - EON Draft AQCS Design Basis

Eileen,  
Attached please find the design basis with updated references based on our conversation last week.  
Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: lucaskj@bv.com

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---

**From:** Saunders, Eileen  
**To:** Fraley, Jeffrey; Pabian, Brad; Carman, Barry  
**Sent:** 6/3/2010 2:36:05 PM  
**Subject:** FW: 167987.26.0000 100530 - EON Draft AQCS Costs - EW Brown  
**Attachments:** ArchiveInfo.htm

All,

Please find the Draft costs I received from B&V. Ralph Bowling is on vacation but I reviewed the information with John Voyles and Scott Straight today. As discussed recently by Paul Thompson in the manager's meeting, the issues surrounding these studies are highly sensitive. Therefore, I ask that you are careful in how you distribute or discuss the information at your station. Please note that the numbers are not final and we are still working with B&V to refine the technology options so the estimate may change.

Also, B&V is working on a report that will include the backup information regarding how these numbers were developed, site arrangements and simple flow diagrams. Once I receive that information, I will send that along to you.

If you have any questions, please let me know.

Thank you,

Eileen

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Sunday, May 30, 2010 2:43 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - EW Brown

Eileen,

Attached please find the draft AQCS Costs for the approved technologies at EW Brown Units 1-3. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

Regards,

Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
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Phone: (913) 458-9062 | Fax: (913) 458-9062  
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The following attachments were archived from this message:

- Brown Unit 3 Cost Estimates 052810.pdf
- Brown Unit 1 Cost Estimates 052810.pdf
- Brown Unit 2 Cost Estimates 052810.pdf

---

**From:** Saunders, Eileen  
**To:** Troost, Tom; Harper, Travis  
**Sent:** 6/3/2010 2:37:28 PM  
**Subject:** FW: 167987.26.0000 100530 - EON Draft AQCS Costs - Green River  
**Attachments:** ArchiveInfo.htm

All,

Please find the Draft costs I received from B&V. Ralph Bowling is on vacation but I reviewed the information with John Voyles and Scott Straight today. As discussed recently by Paul Thompson in the manager's meeting, the issues surrounding these studies are highly sensitive. Therefore, I ask that you are careful in how you distribute or discuss the information at your station. Please note that the numbers are not final and we are still working with B&V to refine the technology options so the estimate may change.

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If you have any questions, please let me know.

Thank you,

Eileen

---

**From:** Lucas, Kyle J. [mailto:Lucaskj@bv.com]  
**Sent:** Sunday, May 30, 2010 2:54 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - Green River

Eileen,

Attached please find the draft AQCS Costs for the approved technologies at Green River Units 3 & 4. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

Regards,

Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
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The following attachments were archived from this message:

- Green River Unit 4 Cost Estimates 052810.pdf
- Green River Unit 3 Cost Estimates 052810.pdf

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**From:** Saunders, Eileen  
**To:** Crutcher, Tom; Turner, Haley  
**Sent:** 6/3/2010 2:37:41 PM  
**Subject:** FW: 167987.26.0000 100530 - EON Draft AQCS Costs - Trimble  
**Attachments:** ArchiveInfo.htm

All,

Please find the Draft costs I received from B&V. Ralph Bowling is on vacation but I reviewed the information with John Voyles and Scott Straight today. As discussed recently by Paul Thompson in the manager's meeting, the issues surrounding these studies are highly sensitive. Therefore, I ask that you are careful in how you distribute or discuss the information at your station. Please note that the numbers are not final and we are still working with B&V to refine the technology options so the estimate may change.

Also, B&V is working on a report that will include the backup information regarding how these numbers were developed, site arrangements and simple flow diagrams. Once I receive that information, I will send that along to you.

If you have any questions, please let me know.

Thank you,

Eileen

---

**From:** Lucas, Kyle J. [mailto:Lucaskj@bv.com]  
**Sent:** Sunday, May 30, 2010 3:00 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - Trimble

Eileen,

Attached please find the draft AQCS Costs for the approved technologies for Trimble Unit 1. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

Regards,

Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
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The following attachments were archived from this message:

- Trimble Unit 1 Cost Estimates 052810.pdf

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**From:** Saunders, Eileen  
**To:** Joyce, Jeff; Nix, Stephen; Piening, Carla  
**Sent:** 6/3/2010 2:38:01 PM  
**Subject:** FW: 167987.26.0000 100530 - EON Draft AQCS Costs - Ghent  
**Attachments:** ArchiveInfo.htm

All,

Please find the Draft costs I received from B&V. Ralph Bowling is on vacation but I reviewed the information with John Voyles and Scott Straight today. As discussed recently by Paul Thompson in the manager's meeting, the issues surrounding these studies are highly sensitive. Therefore, I ask that you are careful in how you distribute or discuss the information at your station. Please note that the numbers are not final and we are still working with B&V to refine the technology options so the estimate may change.

Also, B&V is working on a report that will include the backup information regarding how these numbers were developed, site arrangements and simple flow diagrams. Once I receive that information, I will send that along to you.

If you have any questions, please let me know.

Thank you,

Eileen

---

**From:** Lucas, Kyle J. [mailto:Lucaskj@bv.com]  
**Sent:** Sunday, May 30, 2010 3:09 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - Ghent

Eileen,

Attached please find the draft AQCS Costs for the approved technologies at Ghent Units 1-4. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

Regards,

Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
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The following attachments were archived from this message:

- Ghent Unit 4 Cost Estimates 052810.pdf
- Ghent Unit 1 Cost Estimates 052810.pdf
- Ghent Unit 2 Cost Estimates 052810.pdf
- Ghent Unit 3 Cost Estimates 052810.pdf

---

**From:** Saunders, Eileen  
**To:** Kirkland, Mike; Koller, Tiffany; Stevens, Michael  
**Sent:** 6/3/2010 2:38:27 PM  
**Subject:** FW: 167987.26.0000 100530 - EON Draft AQCS Costs - Mill Creek  
**Attachments:** ArchiveInfo.htm

All,

Please find the Draft costs I received from B&V. Ralph Bowling is on vacation but I reviewed the information with John Voyles and Scott Straight today. As discussed recently by Paul Thompson in the manager's meeting, the issues surrounding these studies are highly sensitive. Therefore, I ask that you are careful in how you distribute or discuss the information at your station. Please note that the numbers are not final and we are still working with B&V to refine the technology options so the estimate may change.

Also, B&V is working on a report that will include the backup information regarding how these numbers were developed, site arrangements and simple flow diagrams. Once I receive that information, I will send that along to you.

If you have any questions, please let me know.

Thank you,

Eileen

---

**From:** Lucas, Kyle J. [mailto:Lucaskj@bv.com]  
**Sent:** Sunday, May 30, 2010 3:23 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - Mill Creek

Eileen,

Attached please find the draft AQCS Costs for the approved technologies at Mill Creek Units 1-4. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

Regards,

Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
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Overland Park, KS 66211  
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The following attachments were archived from this message:

- Mill Creek Unit 4 Cost Estimates 052810.pdf
- Mill Creek Unit 1 Cost Estimates 052810.pdf
- Mill Creek Unit 2 Cost Estimates 052810.pdf
- Mill Creek Unit 3 Cost Estimates 052810.pdf

---

**From:** Saunders, Eileen  
**To:** Turner, Steven; Hensley, Mike  
**Sent:** 6/3/2010 2:41:35 PM  
**Subject:** FW: 167987.26.0000 100530 - EON Draft AQCS Costs - Cane Run  
**Attachments:** ArchiveInfo.htm

All,

Please find the Draft costs I received from B&V. Ralph Bowling is on vacation but I reviewed the information with John Voyles and Scott Straight today. As discussed recently by Paul Thompson in the manager's meeting, the issues surrounding these studies are highly sensitive. Therefore, I ask that you are careful in how you distribute or discuss the information at your station. Please note that the numbers are not final and we are still working with B&V to refine the technology options so the estimate may change.

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If you have any questions, please let me know.

Thank you,

Eileen

---

**From:** Lucas, Kyle J. [mailto:Lucaskj@bv.com]  
**Sent:** Sunday, May 30, 2010 3:34 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - Cane Run

Eileen,

Attached please find the draft AQCS Costs for the approved technologies at Cane Run Units 4-6. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

Regards,

Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: lucaskj@bv.com

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- Cane Run Unit 6 Cost Estimates 052810.pdf
- Cane Run Unit 4 Cost Estimates 052810.pdf
- Cane Run Unit 5 Cost Estimates 052810.pdf

---

**From:** Pabian, Brad  
**To:** Saunders, Eileen; Fraley, Jeffrey; Carman, Barry  
**Sent:** 6/3/2010 3:08:22 PM  
**Subject:** RE: 167987.26.0000 100530 - EON Draft AQCS Costs - EW Brown

It appears that B&V did not give a combined cost for a common fabric filter for Units 1 and 2. This was part of our recommendations to them.

**Brad Pabian**

Mechanical Engineer  
Kentucky Utilities E. W. Brown Station  
815 Dix Dam Road  
Harrodsburg, KY 40330  
859-748-4570  
brad.pabian@eon-us.com

---

**From:** Saunders, Eileen  
**Sent:** Thursday, June 03, 2010 2:36 PM  
**To:** Fraley, Jeffrey; Pabian, Brad; Carman, Barry  
**Subject:** FW: 167987.26.0000 100530 - EON Draft AQCS Costs - EW Brown

All,

Please find the Draft costs I received from B&V. Ralph Bowling is on vacation but I reviewed the information with John Voyles and Scott Straight today. As discussed recently by Paul Thompson in the manager's meeting, the issues surrounding these studies are highly sensitive. Therefore, I ask that you are careful in how you distribute or discuss the information at your station. Please note that the numbers are not final and we are still working with B&V to refine the technology options so the estimate may change.

Also, B&V is working on a report that will include the backup information regarding how these numbers were developed, site arrangements and simple flow diagrams. Once I receive that information, I will send that along to you.

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Thank you,

Eileen

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Sunday, May 30, 2010 2:43 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - EW Brown

Eileen,

Attached please find the draft AQCS Costs for the approved technologies at EW Brown Units 1-3. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

Regards,

Kyle

Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: lucaskj@bv.com

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**From:** Saunders, Eileen  
**To:** Pabian, Brad; Fraley, Jeffrey; Carman, Barry  
**Sent:** 6/4/2010 9:23:51 AM  
**Subject:** RE: 167987.26.0000 100530 - EON Draft AQCS Costs - EW Brown

Brad,

I have passed this comment on to B&V. I will let you know what they say.

Thanks,

Eileen

---

**From:** Pabian, Brad  
**Sent:** Thursday, June 03, 2010 3:08 PM  
**To:** Saunders, Eileen; Fraley, Jeffrey; Carman, Barry  
**Subject:** RE: 167987.26.0000 100530 - EON Draft AQCS Costs - EW Brown

It appears that B&V did not give a combined cost for a common fabric filter for Units 1 and 2. This was part of our recommendations to them.

#### Brad Pabian

Mechanical Engineer  
Kentucky Utilities E. W. Brown Station  
815 Dix Dam Road  
Harrodsburg, KY 40330  
859-748-4570  
brad.pabian@eon-us.com

---

**From:** Saunders, Eileen  
**Sent:** Thursday, June 03, 2010 2:36 PM  
**To:** Fraley, Jeffrey; Pabian, Brad; Carman, Barry  
**Subject:** FW: 167987.26.0000 100530 - EON Draft AQCS Costs - EW Brown

All,

Please find the Draft costs I received from B&V. Ralph Bowling is on vacation but I reviewed the information with John Voyles and Scott Straight today. As discussed recently by Paul Thompson in the manager's meeting, the issues surrounding these studies are highly sensitive. Therefore, I ask that you are careful in how you distribute or discuss the information at your station. Please note that the numbers are not final and we are still working with B&V to refine the technology options so the estimate may change.

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If you have any questions, please let me know.

Thank you,

Eileen

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**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Sunday, May 30, 2010 2:43 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand



**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - EW Brown

Eileen,

Attached please find the draft AQCS Costs for the approved technologies at EW Brown Units 1-3. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

Regards,

Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**

11401 Lamar Avenue

Overland Park, KS 66211

Phone: (913) 458-9062 | Fax: (913) 458-9062

Email: [lucasikj@bv.com](mailto:lucasikj@bv.com)

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---

**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen  
**CC:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Sent:** 6/8/2010 10:08:27 AM  
**Subject:** 167987.14.0100 100608 - Conference Call (6/7) Question Response  
**Attachments:** ArchiveInfo.htm

Eileen,  
From the conference call yesterday there were two questions in which B&V was to investigate and provide response.

1. What is the high level estimated cost to combine Brown's Unit 1 and Unit 2 exhaust flows into one common PJFF?

Response.

Attached please find the draft cost estimate for the common PJFF. For the common PJFF, real estate is available, but will require some demolition and relocation of scrubber electrical feedlines (13.2 kV electrical feedlines). The PJFF will also need to be elevated to provide access to road traffic. The difference between individual and combined PJFF is approximately \$23,000,000 in capital cost. The combined PJFF will be cheaper than individual PJFF.

2. Will B&V provide both fixed and variable O&M costs?

Response.

The O&M costs included on the draft cost summary sheets for each unit's approved AQC technology provided on May 30, 2010 are comprised of both fixed and variable O&M costs. These costs are based on both unit specific information as well as other economic data provided by E.ON. The detailed fixed and variable O&M costs will be included as part of the draft report on June 18.

Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: [lucaskj@bv.com](mailto:lucaskj@bv.com)

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- Brown 1&2 Combined Fabric Filter 060810.pdf

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**From:** Joyce, Jeff  
**To:** Saunders, Eileen  
**Sent:** 6/8/2010 4:05:29 PM  
**Subject:** RE: 167987.26.0000 100530 - EON Draft AQCS Costs - Ghent

Eileen

I would like an opportunity to discuss B&V's view of neural networks and what they believe they can do.

I generally believe there are other boiler constraints that will not allow the benefits they would predict. It should be an interesting conversation.

Thanks  
Jeff J

---

**From:** Saunders, Eileen  
**Sent:** Thursday, June 03, 2010 2:38 PM  
**To:** Joyce, Jeff; Nix, Stephen; Piening, Carla  
**Subject:** FW: 167987.26.0000 100530 - EON Draft AQCS Costs - Ghent

All,

Please find the Draft costs I received from B&V. Ralph Bowling is on vacation but I reviewed the information with John Voyles and Scott Straight today. As discussed recently by Paul Thompson in the manager's meeting, the issues surrounding these studies are highly sensitive. Therefore, I ask that you are careful in how you distribute or discuss the information at your station. Please note that the numbers are not final and we are still working with B&V to refine the technology options so the estimate may change.

Also, B&V is working on a report that will include the backup information regarding how these numbers were developed, site arrangements and simple flow diagrams. Once I receive that information, I will send that along to you.

If you have any questions, please let me know.

Thank you,

Eileen

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Sunday, May 30, 2010 3:09 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - Ghent

Eileen,

Attached please find the draft AQCS Costs for the approved technologies at Ghent Units 1-4. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

Regards,

Kyle

Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: lucaskj@bv.com

---

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---

**From:** Saunders, Eileen  
**To:** Joyce, Jeff  
**Sent:** 6/8/2010 4:12:52 PM  
**Subject:** Re: 167987.26.0000 100530 - EON Draft AQCS Costs - Ghent

I will see what I can set up.

Eileen

---

**From:** Joyce, Jeff  
**To:** Saunders, Eileen  
**Sent:** Tue Jun 08 16:05:29 2010  
**Subject:** RE: 167987.26.0000 100530 - EON Draft AQCS Costs - Ghent

Eileen

I would like an opportunity to discuss B&V's view of neural networks and what they believe they can do.

I generally believe there are other boiler constraints that will not allow the benefits they would predict. It should be an interesting conversation.

Thanks  
Jeff J

---

**From:** Saunders, Eileen  
**Sent:** Thursday, June 03, 2010 2:38 PM  
**To:** Joyce, Jeff; Nix, Stephen; Piening, Carla  
**Subject:** FW: 167987.26.0000 100530 - EON Draft AQCS Costs - Ghent

All,

Please find the Draft costs I received from B&V. Ralph Bowling is on vacation but I reviewed the information with John Voyles and Scott Straight today. As discussed recently by Paul Thompson in the manager's meeting, the issues surrounding these studies are highly sensitive. Therefore, I ask that you are careful in how you distribute or discuss the information at your station. Please note that the numbers are not final and we are still working with B&V to refine the technology options so the estimate may change.

Also, B&V is working on a report that will include the backup information regarding how these numbers were developed, site arrangements and simple flow diagrams. Once I receive that information, I will send that along to you.

If you have any questions, please let me know.

Thank you,

Eileen

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Sunday, May 30, 2010 3:09 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - Ghent

Eileen,

Attached please find the draft AQCS Costs for the approved technologies at Ghent Units 1-4. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

Regards,

Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: lucaskj@bv.com

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---

**From:** Saunders, Eileen  
**To:** Straight, Scott  
**Sent:** 6/10/2010 8:25:55 AM  
**Subject:** FW: 167987.14.0100 100608 - Conference Call (6/7) Question Response  
**Attachments:** ArchiveInfo.htm

Scott,

Here is the follow-up information from our call with B&V.

Thanks,

Eileen

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Tuesday, June 08, 2010 10:08 AM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.14.0100 100608 - Conference Call (6/7) Question Response

Eileen,  
From the conference call yesterday there were two questions in which B&V was to investigate and provide response.

1. What is the high level estimated cost to combine Brown's Unit 1 and Unit 2 exhaust flows into one common PJFF?

Response.

Attached please find the draft cost estimate for the common PJFF. For the common PJFF, real estate is available, but will require some demolition and relocation of scrubber electrical feedlines (13.2 kV electrical feedlines). The PJFF will also need to be elevated to provide access to road traffic. The difference between individual and combined PJFF is approximately \$23,000,000 in capital cost. The combined PJFF will be cheaper than individual PJFF.

2. Will B&V provide both fixed and variable O&M costs?

Response.

The O&M costs included on the draft cost summary sheets for each unit's approved AQC technology provided on May 30, 2010 are comprised of both fixed and variable O&M costs. These costs are based on both unit specific information as well as other economic data provided by E.ON. The detailed fixed and variable O&M costs will be included as part of the draft report on June 18.

Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
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The following attachments were archived from this message:

- Brown 1&2 Combined Fabric Filter 060810.pdf

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**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen  
**CC:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Sent:** 6/14/2010 12:58:22 PM  
**Subject:** 167987.26.0000 100614 - EON Draft AQCS Costs - EW Brown  
**Attachments:** ArchiveInfo.htm

Eileen,  
Attached please find the draft AQCS costs for the addition of an SCR for Brown Unit 1--the costs are included as option #1. Due to the time constraints with getting the information for the draft report compiled we will keep the approved LNB/OFA technology in the report and in associated process flows, schedules, and drawings for this unit. We can discuss including the SCR technology as part of the final report.  
Regards,  
Kyle

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**From:** Lucas, Kyle J.  
**Sent:** Sunday, May 30, 2010 1:43 PM  
**To:** 'Saunders, Eileen'  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - EW Brown

Eileen,  
Attached please find the draft AQCS Costs for the approved technologies at EW Brown Units 1-3. The leveled annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.  
<< File: Brown Unit 3 Cost Estimates 052810.pdf >> << File: Brown Unit 1 Cost Estimates 052810.pdf >> << File: Brown Unit 2 Cost Estimates 052810.pdf >>  
Regards,  
Kyle

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The following attachments were archived from this message:

- Brown Unit 1 Cost Estimates 061110.pdf

---

**From:** Saunders, Eileen  
**To:** 'LucasKJ@bv.com'  
**CC:** 'HillmanTM@bv.com'; 'MahabaleshwarkarA@bv.com'  
**Sent:** 6/14/2010 2:12:38 PM  
**Subject:** Re: 167987.26.0000 100614 - EON Draft AQCS Costs - EW Brown

Thank you.

Eileen

---

**From:** Lucas, Kyle J. <LucasKJ@bv.com>  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M. <HillmanTM@bv.com>; Mahabaleshwarkar, Anand <MahabaleshwarkarA@bv.com>  
**Sent:** Mon Jun 14 12:58:22 2010  
**Subject:** 167987.26.0000 100614 - EON Draft AQCS Costs - EW Brown

Eileen,  
Attached please find the draft AQCS costs for the addition of an SCR for Brown Unit 1--the costs are included as option #1. Due to the time constraints with getting the information for the draft report compiled we will keep the approved LNB/OFA technology in the report and in associated process flows, schedules, and drawings for this unit. We can discuss including the SCR technology as part of the final report.  
Regards,  
Kyle

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Regards,

Kyle

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**From:** Saunders, Eileen  
**To:** Wilson, Stuart; Karavayev, Louanne  
**Sent:** 6/14/2010 2:17:39 PM  
**Subject:** Fw: 167987.26.0000 100614 - EON Draft AQCS Costs - EW Brown  
**Attachments:** ArchiveInfo.htm

Stuart and LouAnne,

Please see the cost estimate for a Brown Unit 1 SCR. I had to leave early for an afternoon doctor's appointment but please email me if you have any questions.

Thanks,

Eileen

---

**From:** Lucas, Kyle J. <LucasKJ@bv.com>  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M. <HillmanTM@bv.com>; Mahabaleshwarkar, Anand <MahabaleshwarkarA@bv.com>  
**Sent:** Mon Jun 14 12:58:22 2010  
**Subject:** 167987.26.0000 100614 - EON Draft AQCS Costs - EW Brown

Eileen,  
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Regards,

Kyle

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- Brown Unit 1 Cost Estimates 061110.pdf



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**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen  
**CC:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Lawson, Stacy J.  
**Sent:** 6/17/2010 10:19:48 PM  
**Subject:** 167987.26.0000 100617 - EON Draft AQC Technology Cost Report  
**Attachments:** ArchiveInfo.htm

Eileen,  
Attached, please find the draft air quality control Technology Cost Report. Please review the document and provide one set of consolidated written comments by COB Thursday June 24, 2010. B&V will review the consolidated comments and incorporate, as appropriate, into the final report.

Additionally, Please confirm receipt of this document.

Regards,  
Kyle

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- COMPLETE Draft EON AQC Cost Study 061710.pdf

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**From:** Saunders, Eileen  
**To:** 'Lucas, Kyle J.'  
**CC:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Lawson, Stacy J.  
**Sent:** 6/18/2010 8:15:40 AM  
**Subject:** RE: 167987.26.0000 100617 - EON Draft AQC Technology Cost Report

Kyle,

This email is to confirm that I have received the report and have been able to open it. We have an executive meeting on Wednesday and I am sure they will have comments that I will need to incorporate. Is there any reason why I cannot get the comments to you on Friday, June 25, 2010? Please let me know.

Thank you,

Eileen

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Thursday, June 17, 2010 10:20 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Lawson, Stacy J.  
**Subject:** 167987.26.0000 100617 - EON Draft AQC Technology Cost Report

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**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen  
**CC:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Lawson, Stacy J.  
**Sent:** 6/18/2010 8:24:46 AM  
**Subject:** RE: 167987.26.0000 100617 - EON Draft AQC Technology Cost Report

Eileen,  
Not knowing the type and berth of comments that we may receive, we wanted the initial review Friday. If needed, we could also have a conference call to discuss with you and would allow us time to incorporate comments and complete the final document the following week.

If needed, Friday is o.k.

Have a nice weekend.

Regards,  
Kyle

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**From:** Saunders, Eileen [<mailto:Eileen.Saunders@eon-us.com>]  
**Sent:** Friday, June 18, 2010 7:16 AM  
**To:** Lucas, Kyle J.  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Lawson, Stacy J.  
**Subject:** RE: 167987.26.0000 100617 - EON Draft AQC Technology Cost Report

Kyle,

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Thank you,

Eileen

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**From:** Lucas, Kyle J. [<mailto:LucasKJ@bv.com>]  
**Sent:** Thursday, June 17, 2010 10:20 PM  
**To:** Saunders, Eileen

**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Lawson, Stacy J.  
**Subject:** 167987.26.0000 100617 - EON Draft AQC Technology Cost Report

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**From:** Saunders, Eileen  
**To:** 'Lucas, Kyle J.'  
**CC:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Lawson, Stacy J.  
**Sent:** 6/18/2010 8:29:10 AM  
**Subject:** RE: 167987.26.0000 100617 - EON Draft AQC Technology Cost Report

I will definitely shoot for Thursday. If I get feedback on Wednesday that puts Thursday in jeopardy, I will let you know.

Thanks,

Eileen

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Friday, June 18, 2010 8:25 AM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Lawson, Stacy J.  
**Subject:** RE: 167987.26.0000 100617 - EON Draft AQC Technology Cost Report

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Have a nice weekend.

Regards,  
Kyle

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**Sent:** Friday, June 18, 2010 7:16 AM  
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**From:** Saunders, Eileen  
**To:** Straight, Scott  
**Sent:** 6/18/2010 8:32:42 AM  
**Subject:** FW: 167987.26.0000 100617 - EON Draft AQC Technology Cost Report  
**Attachments:** ArchiveInfo.htm

Scott,

Here is the report from B&V. I am in the process of reviewing but wanted to send it to you as soon as possible. I would like to talk to you about it on Monday.

Thanks,

Eileen

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**To:** Saunders, Eileen  
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The following attachments were archived from this message:

- COMPLETE Draft EON AQC Cost Study 061710.pdf

---

**From:** Saunders, Eileen  
**To:** Jackson, Audrey  
**Sent:** 6/21/2010 11:25:52 AM  
**Subject:** FW: 167987.26.0000 100617 - EON Draft AQC Technology Cost Report  
**Attachments:** ArchiveInfo.htm

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Email: lucaskj@bv.com

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The following attachments were archived from this message:

- COMPLETE Draft EON AQC Cost Study 061710.pdf

---

**From:** Saunders, Eileen  
**To:** Voyles, John; Bowling, Ralph; Crutcher, Tom; Turner, Haley; Fraley, Jeffrey; Pabian, Brad; Carman, Barry; Joyce, Jeff; Nix, Stephen; Piening, Carla; Kirkland, Mike; Koller, Tiffany; Stevens, Michael; Troost, Tom; Harper, Travis; Turner, Steven; Hensley, Mike; Wilson, Stuart; Karavayev, Louanne; Cosby, David; Hudson, Rusty; Raque, Gary; Revlett, Gary; Black, Greg; Imber, Philip  
**CC:** Straight, Scott  
**Sent:** 6/21/2010 11:30:09 AM  
**Subject:** FW: 167987.26.0000 100617 - EON Draft AQC Technology Cost Report  
**Attachments:** ArchiveInfo.htm

All,

Enclosed, please find the draft report from B&V. Scott and I have just begun the review but I wanted to share the document with you as well. As discussed previously, this information does not meet the criteria for Level 1 Engineering, but it is a starting point for further analysis. If you have any comments, please send them to me by Friday, June 25, 2010.

Before you print this document, I want to warn you that it is roughly 400 pages.

Thanks,

Eileen

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Thursday, June 17, 2010 10:20 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Lawson, Stacy J.  
**Subject:** 167987.26.0000 100617 - EON Draft AQC Technology Cost Report

Eileen,  
Attached, please find the draft air quality control Technology Cost Report. Please review the document and provide one set of consolidated written comments by COB Thursday June 24, 2010. B&V will review the consolidated comments and incorporate, as appropriate, into the final report.

Additionally, Please confirm receipt of this document.

Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
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- COMPLETE Draft EON AQC Cost Study 061710.pdf

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**From:** Voyles, John  
**To:** Saunders, Eileen  
**CC:** Straight, Scott  
**Sent:** 6/21/2010 12:22:00 PM  
**Subject:** RE: 167987.26.0000 100617 - EON Draft AQC Technology Cost Report

Thanks Eileen,

I will scan, but already noticed in the Exec Summary they have added the operating cost/kw column in Table ES1 giving a sum and it should have been the average for the fleet. It is not \$14,720/kw as shown in the total line.

JV

---

**From:** Saunders, Eileen  
**Sent:** Monday, June 21, 2010 11:30 AM  
**To:** Voyles, John; Bowling, Ralph; Crutcher, Tom; Turner, Haley; Fraley, Jeffrey; Pabian, Brad; Carman, Barry; Joyce, Jeff; Nix, Stephen; Piening, Carla; Kirkland, Mike; Koller, Tiffany; Stevens, Michael; Troost, Tom; Harper, Travis; Turner, Steven; Hensley, Mike; Wilson, Stuart; Karavayev, Louanne; Cosby, David; Hudson, Rusty; Raque, Gary; Revlett, Gary; Black, Greg; Imber, Philip  
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**Sent:** Thursday, June 17, 2010 10:20 PM  
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**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Lawson, Stacy J.  
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**From:** Saunders, Eileen  
**To:** Voyles, John  
**Sent:** 6/21/2010 1:57:59 PM  
**Subject:** Re: 167987.26.0000 100617 - EON Draft AQC Technology Cost Report

Thanks John. I will add your comment to the list I am compiling.

Eileen

---

**From:** Voyles, John  
**To:** Saunders, Eileen  
**Cc:** Straight, Scott  
**Sent:** Mon Jun 21 12:22:00 2010  
**Subject:** RE: 167987.26.0000 100617 - EON Draft AQC Technology Cost Report

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Eileen

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Regards,  
Kyle

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**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen  
**CC:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Sent:** 6/21/2010 4:19:53 PM  
**Subject:** 167987.10.0100 100621-New AQC Scenarios

Eileen,

From our conference call today, EON requested additional AQC scenarios be reviewed and costs developed beyond those scenarios assumed in the draft AQC study. The scenarios requested include the following:

1. Modification of Mill Creek 3 and 4 scrubbers from a 2-50% module configuration to a single 100% module configuration each. The scenario will not consider potential space limitations as a fatal flaw due to the rail/road access and will also not include the costs for moving the rail. This scenario will be looked at separately as an additional AQC option for Units 3 and 4.

Also, we reviewed the original scenario data and found that this scenario was only partially completed before it was modified to the 2-50% module configuration. Thus, B&V can revisit and provide the draft costs data by Friday 6/25 COB with approval today.

2. Modification of Mill Creek 1 and 2 scrubbers from two single separate modules to a one single combined larger scrubber module located near the roadway or off to the side of unit. The exhaust gas from each unit will pass through the "approved" AQC technology as presented in the draft report but merge into the single scrubber then back to the existing stack. This scenario will be looked at separately as an additional AQC option for Units 1 and 2.

B&V can provide the draft costs data by Friday 6/25 COB with approval today.

3. Move Mill Creek 1 and 2 SCR's to the location on the side of the units as described in the S&L report from 1999 which will be provided by EON. It is assumed that the "approved" AQC technology as presented in the draft report will remain and the only change is the movement of the SCR location. This scenario will be looked at separately as an additional AQC option for Units 1 and 2.
4. Remove Mill Creek 1 and 2 dry ESP's and only use the proposed PJFF's. It is assumed that the "approved" AQC technology as presented in the draft report will remain and the only change is the removal of the dry ESP and associated repositioning of the PJFF (elevated) and duct work. This scenario will be looked at separately as an additional AQC option for Units 1 and 2.
6. Modification of Brown 1 and 2 PJFF from two single separate PJFF to a one single combined PJFF. The exhaust gas from each unit will pass through the "approved" AQC technology as presented in the draft report (note that Unit 1 is has LNB and OFA for NOx control) but merge into the single PJFF and then to the combined scrubber and stack. This scenario will be looked at separately as an additional AQC option for Units 1 and 2.

Please review the aforementioned scenarios provide an e-mail authorization for us to proceed with developing the cost information for each scenario. If needed, please modify the scenarios to clarify specific requirements. It is our understanding that the same level of detail for each scenario as presented within the draft AQC report will be provided for these scenarios. Upon receipt of your authorization and clarification of the scenarios, B&V will transmit the technology selection sheets for the updated scenario(s) for EON's review and approval along with a man-hour estimate and schedule for completion.

Please feel free to contact me with any questions.

Regards,  
Kyle

---

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
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---

**From:** Saunders, Eileen  
**To:** 'Lucas, Kyle J.'  
**CC:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Straight, Scott  
**Sent:** 6/21/2010 5:06:50 PM  
**Subject:** RE: 167987.10.0100 100621-New AQC Scenarios

Kyle,

After the call, Scott and I reviewed the S&L report from 1999 and discovered that the ESP's were moved to the side not the SCRs. Therefore, Scott said it didn't make sense for me to forward those drawings on to you. You do not need to relocate the SCRs.

Your other assumptions are correct. Please proceed.

Thank you,

Eileen

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Monday, June 21, 2010 4:20 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.10.0100 100621-New AQC Scenarios

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Also, we reviewed the original scenario data and found that this scenario was only partially completed before it was modified to the 2-50% module configuration. Thus, B&V can revisit and provide the draft costs data by Friday 6/25 COB with approval today.

Modification of Mill Creek 1 and 2 scrubbers from two single separate modules to a one single combined larger scrubber module located near the roadway or off to the side of unit. The exhaust gas from each unit will pass through the "approved" AQC technology as presented in the draft report but merge into the single scrubber then back to the existing stack. This scenario will be looked at separately as an additional AQC option for Units 1 and 2.

B&V can provide the draft costs data by Friday 6/25 COB with approval today.

Move Mill Creek 1 and 2 SCRs to the location on the side of the units as described in the S&L report from 1999 which will be provided by EON. It is assumed that the "approved" AQC technology as presented in the draft report will remain and the only change is the movement of the SCR location. This scenario will be looked at separately as an additional AQC option for Units 1 and 2.

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Modification of Brown 1 and 2 PJFF from two single separate PJFF to a one single combined PJFF. The exhaust gas from each unit will pass through the "approved" AQC technology as presented in the draft report (note that Unit 1 is has LNB and OFA for NOx control) but merge into the single PJFF and then to the combined scrubber and stack. This scenario will be looked at separately as an additional AQC option for Units 1 and 2.

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Please feel free to contact me with any questions.

Regards,  
Kyle

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**From:** Saunders, Eileen  
**To:** Ritchey, Stacy  
**Sent:** 6/22/2010 11:51:43 AM  
**Subject:** Fw: 167987.26.0000 100614 - EON Draft AQCS Costs - EW Brown  
**Attachments:** ArchiveInfo.htm

---

**From:** Lucas, Kyle J. <LucasKJ@bv.com>  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M. <HillmanTM@bv.com>; Mahabaleshwarkar, Anand <MahabaleshwarkarA@bv.com>  
**Sent:** Mon Jun 14 12:58:22 2010  
**Subject:** 167987.26.0000 100614 - EON Draft AQCS Costs - EW Brown

Eileen,  
Attached please find the draft AQCS costs for the addition of an SCR for Brown Unit 1--the costs are included as option #1. Due to the time constraints with getting the information for the draft report compiled we will keep the approved LNB/OFA technology in the report and in associated process flows, schedules, and drawings for this unit. We can discuss including the SCR technology as part of the final report.  
Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
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**From:** Lucas, Kyle J.  
**Sent:** Sunday, May 30, 2010 1:43 PM  
**To:** 'Saunders, Eileen'  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.26.0000 100530 - EON Draft AQCS Costs - EW Brown

Eileen,  
Attached please find the draft AQCS Costs for the approved technologies at EW Brown Units 1-3. The levelized annual cost was based on the Capital Recovery Factor (CRF) of 12.17% as supplied by EON as part of the economic criteria.

<< File: Brown Unit 3 Cost Estimates 052810.pdf >> << File: Brown Unit 1 Cost Estimates 052810.pdf >> << File: Brown Unit 2 Cost Estimates 052810.pdf >>

Regards,  
Kyle

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The following attachments were archived from this message:

- Brown Unit 1 Cost Estimates 061110.pdf



---

**From:** Troost, Tom  
**To:** Harper, Travis  
**CC:** Saunders, Eileen  
**Sent:** 6/23/2010 3:33:24 PM  
**Subject:** RE: 167987.26.0000 100617 - EON Draft AQC Technology Cost Report

Travis,

Correct on both.

Thanks

---

**From:** Harper, Travis  
**Sent:** Wednesday, June 23, 2010 1:14 PM  
**To:** Troost, Tom  
**Subject:** FW: 167987.26.0000 100617 - EON Draft AQC Technology Cost Report

Tom,

I briefly reviewed and here are my comments:

- Page 4-38 1<sup>st</sup> paragraph reads - Units 1 and 2 were decommissioned in 2002.  
I think they were decommissioned in 2003.
- Page 4-38 3<sup>rd</sup> paragraph reads – Green River units 1 & 2 have been retired in place since 1948.  
It should be Green River Units 1 & 2 were placed in service in 1948 and have been retired in place since 2003.

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**Sent:** Monday, June 21, 2010 10:30 AM  
**To:** Voyles, John; Bowling, Ralph; Crutcher, Tom; Turner, Haley; Fraley, Jeffrey; Pabian, Brad; Carman, Barry; Joyce, Jeff; Nix, Stephen; Piening, Carla; Kirkland, Mike; Koller, Tiffany; Stevens, Michael; Troost, Tom; Harper, Travis; Turner, Steven; Hensley, Mike; Wilson, Stuart; Karavayev, Louanne; Cosby, David; Hudson, Rusty; Raque, Gary; Revlett, Gary; Black, Greg; Imber, Philip  
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**From:** Saunders, Eileen  
**To:** Troost, Tom; Harper, Travis  
**Sent:** 6/23/2010 3:45:57 PM  
**Subject:** RE: 167987.26.0000 100617 - EON Draft AQC Technology Cost Report

Thank you. I will add that information to the comment sheet.

Eileen

---

**From:** Troost, Tom  
**Sent:** Wednesday, June 23, 2010 3:33 PM  
**To:** Harper, Travis  
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**Subject:** RE: 167987.26.0000 100617 - EON Draft AQC Technology Cost Report

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**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Lawson, Stacy J.  
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**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen  
**CC:** Hillman, Timothy M.  
**Sent:** 6/25/2010 9:15:24 AM  
**Subject:** RE: Status

Eileen,  
Yes, I believe we'll be able to send you the draft cost summary later today for the two scenarios at Mill Creek.

Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 65211  
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**From:** Saunders, Eileen [mailto:[Eileen.Saunders@eon-us.com](mailto:Eileen.Saunders@eon-us.com)]  
**Sent:** Friday, June 25, 2010 7:36 AM  
**To:** Lucas, Kyle J.  
**Subject:** Status

Kyle,  
Are we still on track to receive the new scenarios/numbers for Mill Creek today? The generation planning folks asked me this morning so I figured I would just check in with you.

Thanks,  
Eileen

---

*The information contained in this transmission is intended only for the person or entity to which it is directly addressed or copied. It may contain material of confidential and/or private nature. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is not allowed. If you received this message and the information contained therein by error, please contact the sender and delete the material from your/any storage medium.*

---

**From:** Saunders, Eileen  
**To:** Wilson, Stuart  
**Sent:** 6/25/2010 11:26:19 AM  
**Subject:** FW: Status

Stuart,

Here is an update from B&V confirming that I will receive something today. I don't expect to receive it before close of business but they have surprised me and sent deliverables early before so maybe that will be the case today!

Just wanted to keep you informed.

Thanks,

Eileen

---

**From:** Lucas, Kyle J. [mailto:Lucaskj@bv.com]  
**Sent:** Friday, June 25, 2010 9:15 AM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.  
**Subject:** RE: Status

Eileen,  
Yes, I believe we'll be able to send you the draft cost summary later today for the two scenarios at Mill Creek.

Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Larnar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: lucaskj@bv.com

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**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Friday, June 25, 2010 7:36 AM  
**To:** Lucas, Kyle J.  
**Subject:** Status

Kyle,

Are we still on track to receive the new scenarios/numbers for Mill Creek today? The generation planning folks asked me this morning so I figured I would just check in with you.

Thanks,

Eileen

---

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**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen  
**CC:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Sent:** 6/25/2010 1:43:05 PM  
**Subject:** 167987.26.0000 100625-New AQC Scenarios at MC  
**Attachments:** ArchiveInfo.htm

Eileen,  
Attached please find the draft cost summary for the following two Mill Creek scenarios for the WFGD options. The detailed cost and subsequent support information will be included within the report document.

1. Modification of Mill Creek 3 and 4 scrubbers from a 2-50% module configuration to a single 100% module configuration each. The scenario will not consider potential space limitations as a fatal flaw due to the rail/road access and will also not include the costs for moving the rail.

2. Modification of Mill Creek 1 and 2 scrubbers from two single separate modules to a one single combined larger scrubber module located near the roadway. The exhaust gas from each unit will pass through the "approved" AQC technology as presented in the draft report but merge into the single scrubber then back to the existing stack.

Regards,

Kyle

**Kyle Lucas | Environmental Permitting Manager**  
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Overland Park, KS 66211  
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**From:** Saunders, Eileen [mailto:[Eileen.Saunders@eon-us.com](mailto:Eileen.Saunders@eon-us.com)]  
**Sent:** Monday, June 21, 2010 4:07 PM  
**To:** Lucas, Kyle J.  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Straight, Scott  
**Subject:** RE: 167987.10.0100 100621-New AQC Scenarios

Kyle,

After the call, Scott and I reviewed the S&L report from 1999 and discovered that the ESP's were moved to the side not the SCRs. Therefore, Scott said it didn't make sense for me to forward those drawings on to you. You do not need to relocate the SCRs.

Your other assumptions are correct. Please proceed.

Thank you,



Eileen

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Monday, June 21, 2010 4:20 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.10.0100 100621-New AQC Scenarios

Eileen,  
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Modification of Mill Creek 3 and 4 scrubbers from a 2-50% module configuration to a single 100% module configuration each. The scenario will not consider potential space limitations as a fatal flaw due to the rail/road access and will also not include the costs for moving the rail. This scenario will be looked at separately as an additional AQC option for Units 3 and 4.

Also, we reviewed the original scenario data and found that this scenario was only partially completed before it was modified to the 2-50% module configuration. Thus, B&V can revisit and provide the draft costs data by Friday 6/25 COB with approval today.

Modification of Mill Creek 1 and 2 scrubbers from two single separate modules to a one single combined larger scrubber module located near the roadway or off to the side of unit. The exhaust gas from each unit will pass through the "approved" AQC technology as presented in the draft report but merge into the single scrubber then back to the existing stack. This scenario will be looked at separately as an additional AQC option for Units 1 and 2.

B&V can provide the draft costs data by Friday 6/25 COB with approval today.

Move Mill Creek 1 and 2 SCRs to the location on the side of the units as described in the S&L report from 1999 which will be provided by EON. It is assumed that the "approved" AQC technology as presented in the draft report will remain and the only change is the movement of the SCR location. This scenario will be looked at separately as an additional AQC option for Units 1 and 2.

Remove Mill Creek 1 and 2 dry ESPs and only use the proposed PJFFs. It is assumed that the "approved" AQC technology as presented in the draft report will remain and the only change is the removal of the dry ESP and associated repositioning of the PJFF (elevated) and duct work. This scenario will be looked at separately as an additional AQC option for Units 1 and 2.

Modification of Brown 1 and 2 PJFF from two single separate PJFF to a one single combined PJFF. The exhaust gas from each unit will pass through the "approved" AQC technology as presented in the draft report (note that Unit 1 is has LNB and OFA for NOx control) but merge into the single PJFF and then to the combined scrubber and stack. This scenario will be looked at separately as an additional AQC option for Units 1 and 2.

Please review the aforementioned scenarios provide an e-mail authorization for us to proceed with developing the cost information for each scenario. If needed, please modify the scenarios to clarify specific requirements. It is our understanding that the same level of detail for each scenario as presented within the draft AQC report will be provided for these scenarios. Upon receipt of your authorization and clarification of the scenarios, B&V will transmit the technology selection sheets for the updated scenario(s) for EON's review and approval along with a man-hour estimate and schedule for completion.

Please feel free to contact me with any questions.

Regards,  
 Kyle

---

**Kyle Lucas | Environmental Permitting Manager**  
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 11401 Lamar Avenue  
 Overland Park, KS 66211  
 Phone: (913) 458-9062 | Fax: (913) 458-9062  
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The following attachments were archived from this message:

- Draft Mill Creek Costs - Option 1&2 062510.pdf

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**From:** Saunders, Eileen  
**To:** Straight, Scott  
**Sent:** 6/25/2010 2:15:49 PM  
**Subject:** FW: 167987.26.0000 100625-New AQC Scenarios at MC  
**Attachments:** ArchiveInfo.htm

Scott,

Are you somewhere that I can call you?

Thanks,

Eileen

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Friday, June 25, 2010 1:43 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.26.0000 100625-New AQC Scenarios at MC

Eileen,  
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1. Modification of Mill Creek 3 and 4 scrubbers from a 2-50% module configuration to a single 100% module configuration each. The scenario will not consider potential space limitations as a fatal flaw due to the rail/road access and will also not include the costs for moving the rail.
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Regards,

Kyle

**Kyle Lucas | Environmental Permitting Manager**  
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**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Monday, June 21, 2010 4:07 PM  
**To:** Lucas, Kyle J.

**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Straight, Scott  
**Subject:** RE: 167987.10.0100 100621-New AQC Scenarios

Kyle,

After the call, Scott and I reviewed the S&L report from 1999 and discovered that the ESP's were moved to the side not the SCR's. Therefore, Scott said it didn't make sense for me to forward those drawings on to you. You do not need to relocate the SCR's.

Your other assumptions are correct. Please proceed.

Thank you,

Eileen

---

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**Sent:** Monday, June 21, 2010 4:20 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.10.0100 100621-New AQC Scenarios

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Please feel free to contact me with any questions.

gards,  
le

**Kyle Lucas | Environmental Permitting Manager**  
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Overland Park, KS 66211  
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**From:** Saunders, Eileen  
**To:** 'Lucas, Kyle J.'  
**CC:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Sent:** 6/25/2010 2:23:28 PM  
**Subject:** RE: 167987.26.0000 100625-New AQC Scenarios at MC

Kyle,

Thank you.

Eileen

---

**From:** Lucas, Kyle J. [mailto:Lucaskj@bv.com]  
**Sent:** Friday, June 25, 2010 1:43 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.26.0000 100625-New AQC Scenarios at MC

Eileen,  
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Regards,

Kyle

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**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Monday, June 21, 2010 4:07 PM  
**To:** Lucas, Kyle J.  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Straight, Scott  
**Subject:** RE: 167987.10.0100 100621-New AQC Scenarios



Kyle,

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Eileen

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**Sent:** Monday, June 21, 2010 4:20 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.10.0100 100621-New AQC Scenarios

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Please feel free to contact me with any questions.

Sincerely,  
 Eileen

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**From:** Saunders, Eileen  
**To:** Wilson, Stuart  
**CC:** Voyles, John; Bowling, Ralph; Straight, Scott; Kirkland, Mike; Hudson, Rusty  
**Sent:** 6/25/2010 3:37:08 PM  
**Subject:** FW: 167987.26.0000 100625-New AQC Scenarios at MC  
**Attachments:** ArchiveInfo.htm

Stuart,

As discussed, please find revised numbers for the WFGD portion of the Mill Creek proposed AQCS compliance strategy. Project Engineering will continue to work with B&V to refine the costs on MC and the other facilities.

Thank you,

Eileen

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Friday, June 25, 2010 1:43 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.26.0000 100625-New AQC Scenarios at MC

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Regards,

Kyle

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**Sent:** Monday, June 21, 2010 4:07 PM  
**To:** Lucas, Kyle J.  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Straight, Scott  
**Subject:** RE: 167987.10.0100 100621-New AQC Scenarios

Kyle,

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**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.10.0100 100621-New AQC Scenarios

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Please review the aforementioned scenarios provide an e-mail authorization for us to proceed with developing the cost information for each scenario. If needed, please modify the scenarios to clarify specific requirements. It is our understanding that the same level of detail for each scenario as presented within the draft AQC report will be provided for these scenarios. Upon receipt of your authorization and clarification of the scenarios, B&V will transmit the technology selection sheets for the updated scenario(s)

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Sincerely,  
Kyle

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**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen  
**CC:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Sent:** 7/6/2010 11:28:20 AM  
**Subject:** 167987.26.0000 100706-New AQC Scenarios at MC & Brown  
**Attachments:** ArchiveInfo.htm

Eileen,  
Attached please find the draft cost summary for the following remaining Mill Creek and Brown scenarios. The detailed cost and subsequent support information will be included within the report document.

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Regards,

Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: [lucaskj@bv.com](mailto:lucaskj@bv.com)

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---

**From:** Saunders, Eileen [<mailto:Eileen.Saunders@eon-us.com>]  
**Sent:** Monday, June 21, 2010 4:07 PM  
**To:** Lucas, Kyle J.  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Straight, Scott  
**Subject:** RE: 167987.10.0100 100621-New AQC Scenarios

Kyle,

After the call, Scott and I reviewed the S&L report from 1999 and discovered that the ESP's were moved to the side not the SCR's. Therefore, Scott said it didn't make sense for me to forward those drawings on to you. You do not need to relocate the SCR's.

Your other assumptions are correct. Please proceed.

Thank you,

Eileen

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**From:** Lucas, Kyle J. [mailto:Lucaskj@bv.com]  
**Sent:** Monday, June 21, 2010 4:20 PM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.10.0100 100621-New AQC Scenarios

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Sincerely,  
 Kyle

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The following attachments were archived from this message:

- Brown 1 & 2 Capital Costs-Option 2&3 070610.pdf
- Draft Mill Creek Costs-Option 1&2-opition3 070610.pdf

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**From:** Saunders, Eileen  
**To:** 'Lucas, Kyle J.'  
**Sent:** 7/6/2010 11:33:06 AM  
**Subject:** RE: 167987.26.0000 100706-New AQC Scenarios at MC & Brown

Thank you.

Eileen

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Tuesday, July 06, 2010 11:28 AM  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Subject:** 167987.26.0000 100706-New AQC Scenarios at MC & Brown

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**Sent:** Monday, June 21, 2010 4:07 PM  
**To:** Lucas, Kyle J.  
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**From:** Saunders, Eileen  
**To:** Straight, Scott  
**Sent:** 7/6/2010 11:41:10 AM  
**Subject:** FW: 167987.26.0000 100706-New AQC Scenarios at MC & Brown  
**Attachments:** ArchiveInfo.htm

Scott,

New numbers from B&V. I am just beginning my review.

Thanks,

Eileen

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Tuesday, July 06, 2010 11:28 AM  
**To:** Saunders, Eileen  
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**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen  
**CC:** Straight, Scott; Hillman, Timothy M.; Mahabaleshwarkar, Anand  
**Sent:** 7/8/2010 5:48:34 PM  
**Subject:** RE: Requesting B&V attendance at Mill Creek Station

Eileen,  
As discussed this afternoon, we understand that Alstom is coming to MC plant site to discuss dry scrubbing options and that B&V involvement will be to support and advise EON of scrubbing technology options and retrofit issues with this new technology. Additionally, issues regarding EON's plans to install a 3rd limestone mill at MC may be affected with either the proposed Phase I proposed WFGD or an alternative technology selection in Phase II.

We had discussed a similar issue earlier in the week and I have included a brief discussion below of considerations as to why B&V did not choose a dry scrubber for Mill Creek and Cane Run Units in the Phase I study...  
*Cane Run and Mill Creek had existing WFGD system and had capabilities for handling reagent and dewatering byproduct system for WFGD. Also, some of the existing WFGD BOP system may be reused. On Mill Creek the existing wet stack could be reused, so no need for new stack (if dry FGD was suggested a new stack might be required). Also, the plant (operators and maintenance and supervision crew) was more familiar with WFGD system. Hence a WFGD system was suggested for Cane Run and Mill Creek as it would be cost effective. GR had no existing FGD system and based on unit size a suitable cost effective FGD system (CDS) was recommended. Also, EON units burn high sulfur coal and for large size units like Cane Run and Mill Creek, the O&M costs would be very high if a dry FGD/CDS system is used. GR units are smaller in size as compared to MC and CR and hence a CDS system was recommended.*  
I'll check into the availability of Anand for the July 13 or July 15 dates. However, this activity is considered out of scope from our Phase I tasks. In order to proceed forward to support this MC meeting, please confirm (via -email) that EON approves the associated man-hour costs and travel expenses to support having one B&V staff attend the Alstom meeting at Mill Creek. Upon your approval, and based on availability of staff, will confirm a date, book travel, and supply the cost estimate for this activity. As discussed, this activity will likely fall under Phase II project support.

Regards,  
Kyle

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**From:** Saunders, Eileen [<mailto:Eileen.Saunders@eon-us.com>]  
**Sent:** Thursday, July 08, 2010 3:48 PM  
**To:** Hillman, Timothy M.  
**Cc:** Lucas, Kyle J.; Straight, Scott  
**Subject:** Requesting B&V attendance at Mill Creek Station  
**Importance:** High

Tim,

Scott Straight and I have been in conversation with Mike Kirkland, General Manger of Mill Creek Station. He has Alstom coming to the plant next week to discuss dry scrubbing options with his staff and would like Project Engineering and a representative from B&V to attend. Currently, he is proposing a meeting on either July 13 or July 15. Please give me a call on 502-693-9231 as soon as possible so I can give you the background on why he is requesting our attendance.

Thank you,

Eileen

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**From:** Saunders, Eileen  
**To:** 'Lucaskj@bv.com'  
**Sent:** 7/8/2010 6:37:24 PM  
**Subject:** Re: Requesting B&V attendance at Mill Creek Station

Kyle,

Please consider this email my approval. It is critical that I am contacted tomorrow so I can confirm the meeting with the plant.

Thanks,

Eileen

---

**From:** Lucas, Kyle J. <Lucaskj@bv.com>  
**To:** Saunders, Eileen  
**Cc:** Straight, Scott; Hillman, Timothy M. <HillmanTM@bv.com>; Mahabaleshwarkar, Anand <MahabaleshwarkarA@bv.com>  
**Sent:** Thu Jul 08 17:48:34 2010  
**Subject:** RE: Requesting B&V attendance at Mill Creek Station

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**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen  
**CC:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; King, Michael L. (Mike)  
**Sent:** 7/8/2010 6:40:14 PM  
**Subject:** RE: Requesting B&V attendance at Mill Creek Station

Eileen,  
Your approval has been received.

Thanks,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
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**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Thursday, July 08, 2010 5:37 PM  
**To:** Lucas, Kyle J.  
**Subject:** Re: Requesting B&V attendance at Mill Creek Station

Kyle,

Please consider this email my approval. It is critical that I am contacted tomorrow so I can confirm the meeting with the plant.

Thanks,

Eileen

---

**From:** Lucas, Kyle J. <LucasKJ@bv.com>  
**To:** Saunders, Eileen  
**Cc:** Straight, Scott; Hillman, Timothy M. <HillmanTM@bv.com>; Mahabaleshwarkar, Anand <MahabaleshwarkarA@bv.com>  
**Sent:** Thu Jul 08 17:48:34 2010  
**Subject:** RE: Requesting B&V attendance at Mill Creek Station

Eileen,  
As discussed this afternoon, we understand that Alstom is coming to MC plant site to discuss dry scrubbing options and that B&V involvement will be to support and advise EON of scrubbing technology options and retrofit issues with this new technology. Additionally, issues regarding EON's plans to install a 3rd limestone mill at MC may be affected with either the proposed Phase I proposed WFGD or an alternative technology selection in Phase II.

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Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**

**Black & Veatch - Building a World of Difference™**

11401 Lamar Avenue  
Overland Park, KS 66211

Phone: (913) 458-9062 | Fax: (913) 458-9062

Email: [lucaskj@bv.com](mailto:lucaskj@bv.com)

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**From:** Saunders, Eileen [<mailto:Eileen.Saunders@eon-us.com>]  
**Sent:** Thursday, July 08, 2010 3:48 PM  
**To:** Hillman, Timothy M.  
**Cc:** Lucas, Kyle J.; Straight, Scott  
**Subject:** Requesting B&V attendance at Mill Creek Station  
**Importance:** High

Tim,

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Thank you,

Eileen

---

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---

**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen  
**CC:** Hillman, Timothy M.; King, Michael L. (Mike); Mahabaleshwarkar, Anand  
**Sent:** 7/8/2010 7:02:20 PM  
**Subject:** RE: Requesting B&V attendance at Mill Creek Station

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**To:** Saunders, Eileen  
**Cc:** Straight, Scott; Hillman, Timothy M. <[HillmanTM@bv.com](mailto:HillmanTM@bv.com)>; Mahabaleshwarkar, Anand <[MahabaleshwarkarA@bv.com](mailto:MahabaleshwarkarA@bv.com)>  
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Regards,  
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**From:** Saunders, Eileen  
**To:** 'LucasKJ@bv.com'  
**CC:** 'HillmanTM@bv.com'; 'kingml@bv.com'; 'MahabaleshwarkarA@bv.com'  
**Sent:** 7/8/2010 7:16:19 PM  
**Subject:** Re: Requesting B&V attendance at Mill Creek Station

Thank you. I will check first thing in the morning.

Eileen

---

**From:** Lucas, Kyle J. <LucasKJ@bv.com>  
**To:** Saunders, Eileen  
**Cc:** Hillman, Timothy M. <HillmanTM@bv.com>; King, Michael L. (Mike) <kingml@bv.com>; Mahabaleshwarkar, Anand <MahabaleshwarkarA@bv.com>  
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**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen; Mahabaleshwarkar, Anand; Lucas, Kyle J.  
**CC:** Revlett, Gary; Gregory, Ronald; Imber, Philip  
**Sent:** 7/30/2010 8:45:57 AM  
**Subject:** RE: Updated CATR and NAAQS Compliance Information

Thanks Eileen....we'll take a look at it in preparation for the meeting.

**Tim Hillman | Senior Air Quality Scientist**

**Black & Veatch - Building a World of Difference™**

11401 Lamar Avenue

Overland Park, KS 66211

Phone: (913) 458-7928

Email: [hillmantm@bv.com](mailto:hillmantm@bv.com)

---

**From:** Saunders, Eileen [mailto:[Eileen.Saunders@eon-us.com](mailto:Eileen.Saunders@eon-us.com)]  
**Sent:** Friday, July 30, 2010 6:11 AM  
**To:** Hillman, Timothy M.; Mahabaleshwarkar, Anand; Lucas, Kyle J.  
**Cc:** Revlett, Gary; Gregory, Ronald; Imber, Philip  
**Subject:** FW: Updated CATR and NAAQS Compliance Information

All,

Please see the updated spreadsheet from our environmental department. I think this will be helpful to use in the upcoming meetings.

Thanks,

Eileen

---

**From:** Revlett, Gary  
**Sent:** Friday, July 16, 2010 10:47 AM  
**To:** Saunders, Eileen  
**Cc:** Straight, Scott  
**Subject:** Updated CATR and NAAQS Compliance Information

Hi Eileen,

Below is an attachment containing a table summarizing the CATR and NAAQS for SO<sub>2</sub> and NO<sub>x</sub> required emission rates (lbs/mmBtu) based on EPA's modeling the proposed CATR and our internal modeling. The cells highlighted in gray identify the controlling limit. If you have questions, let me know.

Have a Great Day,

Gary

<<KU-LGE CATR & NAAQS Information.xlsx>>

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**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**CC:** Jackson, Audrey; 168908 E.ON-AQC; Crabtree, Jonathan D.; Wehrly, M. R.; Lucas, Kyle J.; Mehta, Pratik D.; Mahabaleshwarkar, Anand  
**Sent:** 9/29/2010 5:24:40 PM  
**Subject:** 168908.41.0100 100929 Mill Creek, Ghent and Brown Coal Fuel Question  
**Attachments:** ArchiveInfo.htm

Eileen,

During the Phase I work, E.ON initially provided coal analysis data (included in the spreadsheet below) as the typical or "Current Coal" for Mill Creek. Coal data for Ghent and Brown were not initially provided.

Later during the course of the Phase I work, we were asked to use a different fuel (a "Future Coal", included in the spreadsheet below) for the Phase I work for Mill Creek, as well as for Ghent and Brown.

Accordingly, the Phase I study was conducted using the "Future Coal" as a design basis for Mill Creek, Ghent and Brown.

The analyses for the Mill Creek "Current Coal" and "Future Coal" are as follows:

<b>Ultimate Coal Analysis (% by mass as received):</b>	<b><u>Current Coal</u></b>	<b><u>Future Coal</u></b>
Carbon	64	61.21
Hydrogen	4.5	4.28
Sulfur	3.5	3.36
Nitrogen	1.3	1.27
Oxygen	4.62	6.89
Chlorine	0.08	0
Ash	12	12
Moisture	10	11
Total	100.00	100.00
Higher Heating Value, Btu/lb (as received)	11,471.82	11,200
SO <sub>2</sub> Inlet Loading, lb/Mbtu	6.10	6.00

Additionally, during the Aug 5-6 Mill Creek AQC Workshop, a 6.2 lb/Mbtu SO<sub>2</sub> coal was referenced, which is higher than the 6.10 and 6.00 lb/Mbtu SO<sub>2</sub> for the "Current Coal" and "Future Coal", respectively.

Our question is, which fuel analysis should we use as the coal fuel design basis for Mill Creek, Ghent, and Brown in the Phase II work?

Regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
 11401 Lamar Avenue  
 Overland Park, KS 66211  
 Phone: (913) 458-7928  
 Email: hillmantm@bv.com

This message and its attachments have been archived. To retrieve, double click the message in the message list.

The following attachments were archived from this message:

- Mill Creek.xls
- Environmental Compliance Proj quality data.xlsx

---

**From:** Betz, Alex  
**To:** Saunders, Eileen  
**Sent:** 9/30/2010 8:53:49 AM  
**Subject:** RE: 168908.41.0100 100929 Mill Creek Engineering Data Request

Eileen,

I'll be available at 1:00 pm today to discuss. What I'm going to do on my end is get all the engineers together and break apart the list and start going through it. I'll first place everything on the "I" drive internally. Once I've review a document or print, I'll upload it to the ibackup site.

I understand that the sooner the better for this information, but is there a drop dead date that B&V has to have everything by?

Thanks,

**Alex Betz**

(502) 933-6602 Office  
(502) 217-2286 Fax  
(502) 817-3733 Cell

---

**From:** Saunders, Eileen  
**Sent:** Wednesday, September 29, 2010 1:58 PM  
**To:** Betz, Alex  
**Subject:** RE: 168908.41.0100 100929 Mill Creek Engineering Data Request

Alex,

I have not had the time to review this request but noticed your name on the cc list. I will take today to review and will also check your calendar to see if we ca find time tomorrow to run through the list together. I didn't want you to think I was just pushing this off on you!!!

Thanks,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Wednesday, September 29, 2010 10:26 AM  
**To:** Saunders, Eileen  
**Cc:** Jackson, Audrey; 168908 E.ON-AQC; Crabtree, Jonathan D.; Wehrly, M. R.; Lucas, Kyle J.; Betz, Alex  
**Subject:** 168908.41.0100 100929 Mill Creek Engineering Data Request

Eileen,

Please find attached our Engineering Data Request for Mill Creek. We have spent a considerable amount of time researching, cross-referencing with data we already have, and narrowing this list to only those items essential to our work. While the list may look longer than the draft you reviewed earlier, there are very few new requests, just additional detail on some of the more open-ended requests we previously listed. I have also attached for your information, the "Mill Creek Data Index", which is our current inventory of information that we already have on file for Mill Creek. Native and PDF formats of both documents are included.

In a separate email, we will be sending instructions for the use of the iBackup accounts to begin transferring data.

Please don't hesitate to call if you have any questions. I request that you copy M.R Wehrly and Jonathan Crabtree (both copied on this email) on any questions related to this request.

Best regards,

**Tim Hillman | Project Manager**  
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**From:** Saunders, Eileen  
**To:** Betz, Alex  
**Sent:** 9/30/2010 8:55:02 AM  
**Subject:** RE: 168908.41.0100 100929 Mill Creek Engineering Data Request

I will double check. I like your process and think that will work. I would also recommend that we send in information as we receive it rather than wait on one big submittal.

Thanks,

Eileen

---

**From:** Betz, Alex  
**Sent:** Thursday, September 30, 2010 8:54 AM  
**To:** Saunders, Eileen  
**Subject:** RE: 168908.41.0100 100929 Mill Creek Engineering Data Request

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**To:** Saunders, Eileen  
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**From:** Betz, Alex  
**To:** Saunders, Eileen  
**Sent:** 9/30/2010 8:56:08 AM  
**Subject:** RE: 168908.41.0100 100929 Mill Creek Engineering Data Request

I agree. I'll check the "I" drive folder daily and upload whatever is ready to go at that time.

**Alex Betz**

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Eileen

---

**From:** Betz, Alex  
**Sent:** Thursday, September 30, 2010 8:54 AM  
**To:** Saunders, Eileen  
**Subject:** RE: 168908.41.0100 100929 Mill Creek Engineering Data Request

Eileen,

I'll be available at 1:00 pm today to discuss. What I'm going to do on my end is get all the engineers together and break apart the list and start going through it. I'll first place everything on the "I" drive internally. Once I've review a document or print, I'll upload it to the ibackup site.

I understand that the sooner the better for this information, but is there a drop dead date that B&V has to have everything by?

Thanks,

**Alex Betz**

(502) 933-6602 Office  
(502) 217-2286 Fax  
(502) 817-3733 Cell

---

**From:** Saunders, Eileen  
**Sent:** Wednesday, September 29, 2010 1:58 PM  
**To:** Betz, Alex  
**Subject:** RE: 168908.41.0100 100929 Mill Creek Engineering Data Request

Alex,

I have not had the time to review this request but noticed your name on the cc list. I will take today to review and will also check your calendar to see if we ca find time tomorrow to run through the list together. I didn't want you to think I was just pushing this off on you!!!

Thanks,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Wednesday, September 29, 2010 10:26 AM  
**To:** Saunders, Eileen  
**Cc:** Jackson, Audrey; 168908 E.ON-AQC; Crabtree, Jonathan D.; Wehrly, M. R.; Lucas, Kyle J.; Betz, Alex  
**Subject:** 168908.41.0100 100929 Mill Creek Engineering Data Request

Eileen,

Please find attached our Engineering Data Request for Mill Creek. We have spent a considerable amount of time researching, cross-referencing with data we already have, and narrowing this list to only those items essential to our work. While the list may look longer than the draft you reviewed earlier, there are very few new requests, just additional detail on some of the more open-ended requests we previously listed. I have also attached for your information, the "Mill Creek Data Index", which is our current inventory of information that we already have on file for Mill Creek. Native and PDF formats of both documents are included.

In a separate email, we will be sending instructions for the use of the iBackup accounts to begin transferring data.

Please don't hesitate to call if you have any questions. I request that you copy M.R Wehrly and Jonathan Crabtree (both copied on this email) on any questions related to this request.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com



---

**From:** Saunders, Eileen  
**To:** 'Hillman, Timothy M.'  
**CC:** Jackson, Audrey; 168908 E.ON-AQC; Crabtree, Jonathan D.; Wehrly, M. R.; Lucas, Kyle J.; Mehta, Pratik D.; Mahabaleshwarkar, Anand  
**Sent:** 9/30/2010 1:21:40 PM  
**Subject:** RE: 168908.41.0100 100929 Mill Creek, Ghent and Brown Coal Fuel Question

I am working on an answer to this question.

Thanks,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Wednesday, September 29, 2010 5:25 PM  
**To:** Saunders, Eileen  
**Cc:** Jackson, Audrey; 168908 E.ON-AQC; Crabtree, Jonathan D.; Wehrly, M. R.; Lucas, Kyle J.; Mehta, Pratik D.; Mahabaleshwarkar, Anand  
**Subject:** 168908.41.0100 100929 Mill Creek, Ghent and Brown Coal Fuel Question

Eileen,

During the Phase I work, E.ON initially provided coal analysis data (included in the spreadsheet below) as the typical or "Current Coal" for Mill Creek. Coal data for Ghent and Brown were not initially provided.

Later during the course of the Phase I work, we were asked to use a different fuel (a "Future Coal", included in the spreadsheet below) for the Phase I work for Mill Creek, as well as for Ghent and Brown.

Accordingly, the Phase I study was conducted using the "Future Coal" as a design basis for Mill Creek, Ghent and Brown.

The analyses for the Mill Creek "Current Coal" and "Future Coal" are as follows:

<b>Ultimate Coal Analysis (% by mass as received):</b>	<b>Current Coal</b>	<b>Future Coal</b>
Carbon	64	61.21
Hydrogen	4.5	4.28
Sulfur	3.5	3.36
Nitrogen	1.3	1.27
Oxygen	4.62	6.89
Chlorine	0.08	0
Ash	12	12
Moisture	10	11
Total	100.00	100.00
Higher Heating Value, Btu/lb (as received)	11,471.82	11,200
SO <sub>2</sub> Inlet Loading, lb/Mbtu	6.10	6.00

Additionally, during the Aug 5-6 Mill Creek AQC Workshop, a 6.2 lb/Mbtu SO<sub>2</sub> coal was referenced, which is higher than the 6.10 and 6.00 lb/Mbtu SO<sub>2</sub> for the "Current Coal" and "Future Coal", respectively.

Our question is, which fuel analysis should we use as the coal fuel design basis for Mill Creek, Ghent, and Brown in the Phase II work?

Regards,

**Tim Hillman | Project Manager**

**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: [hillmantm@bv.com](mailto:hillmantm@bv.com)

---

**From:** Saunders, Eileen  
**To:** 'Hillman, Timothy M.'  
**CC:** Jackson, Audrey; 168908 E.ON-AQC; Crabtree, Jonathan D.; Wehrly, M. R.; Lucas, Kyle J.; Betz, Alex  
**Sent:** 9/30/2010 1:24:13 PM  
**Subject:** RE: 168908.41.0100 100929 Mill Creek Engineering Data Request

Tim,

Alex and I just completed a meeting where we discussed our process for collecting this data. One thing that would be helpful is if B&V provided a schedule of when you need the information. If you recall, during Phase 1, we were given specific deadlines for data submittal. Alex and I need to plan our resources so a timeline would be helpful.

Thank you,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Wednesday, September 29, 2010 10:26 AM  
**To:** Saunders, Eileen  
**Cc:** Jackson, Audrey; 168908 E.ON-AQC; Crabtree, Jonathan D.; Wehrly, M. R.; Lucas, Kyle J.; Betz, Alex  
**Subject:** 168908.41.0100 100929 Mill Creek Engineering Data Request

Eileen,

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Please don't hesitate to call if you have any questions. I request that you copy M.R Wehrly and Jonathan Crabtree (both copied on this email) on any questions related to this request.

Best regards,

**Tim Hillman | Project Manager**  
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**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Conroy, Robert  
**To:** Straight, Scott  
**CC:** Saunders, Eileen; Schroeder, Andrea  
**Sent:** 9/30/2010 2:25:07 PM  
**Subject:** ECR compliance plan filings.  
**Attachments:** ArchiveInfo.htm

Scott,

Here is the table that I gave you before you left. As we discussed, the column labeled "ECR Filing" was a place holder based on when spending would occur and in no way is it accurate. What I need is an understanding of what documentation we have to support a CCN and ECR filing for each of the projects. In addition, since most of the projects will require a CCN, I need to know when "construction" as defined by the CCN will begin so that I can plan accordingly on when to file the application with the KPSC.

You had mentioned "Black and Veatch" study supporting the projects. Would it be possible for me to get access to review that document so I can understand what we have? Thanks for your help and let me know what time you are available to discuss tomorrow.

**Robert M. Conroy**

*Director, Rates*

*E.ON U.S. Services Inc.*

(502) 627-3324 (phone)

(502) 627-3213 (fax)

(502) 741-4322 (mobile)

robert.conroy@eon-us.com

This message and its attachments have been archived. To retrieve, double click the message in the message list.

The following attachments were archived from this message:

- Environmental Summay alternate scenario Rev4 - Pras (2).xlsx

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**From:** Saunders, Eileen  
**To:** Conroy, Robert  
**CC:** Straight, Scott; Schroeder, Andrea; Clements, Joe  
**Sent:** 9/30/2010 2:56:32 PM  
**Subject:** RE: ECR compliance plan filings.

Robert,

Scott is traveling today and tomorrow. I have a DVD of the Black and Veatch Phase 1 study that I can provide to you. Please be forewarned that the B&V study is roughly 400 pages. Additionally, I have a PowerPoint Presentation that shows the updated version of the plan for Mill Creek.

I am working from Ghent but can try to have someone send that information over to you in the morning. Please let me know if that will work for you.

Thanks,

Eileen

---

**From:** Conroy, Robert  
**Sent:** Thursday, September 30, 2010 2:25 PM  
**To:** Straight, Scott  
**Cc:** Saunders, Eileen; Schroeder, Andrea  
**Subject:** ECR compliance plan filings.

Scott,

Here is the table that I gave you before you left. As we discussed, the column labeled "ECR Filing" was a place holder based on when spending would occur and in no way is it accurate. What I need is an understanding of what documentation we have to support a CCN and ECR filing for each of the projects. In addition, since most of the projects will require a CCN, I need to know when "construction" as defined by the CCN will begin so that I can plan accordingly on when to file the application with the KPSC.

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<< File: Environmental Summay alternate scenario Rev4 - Pras (2).xlsx >>

**Robert M. Conroy**  
*Director, Rates*  
*E.ON U.S. Services Inc.*  
(502) 627-3324 (phone)  
(502) 627-3213 (fax)  
(502) 741-4322 (mobile)  
robert.conroy@eon-us.com

---

**From:** Conroy, Robert  
**To:** Saunders, Eileen  
**CC:** Straight, Scott; Schroeder, Andrea; Clements, Joe  
**Sent:** 9/30/2010 3:01:37 PM  
**Subject:** RE: ECR compliance plan filings.

Eileen,

Thanks. I assumed the document was large so sending on DVD will be fine.

**Robert M. Conroy**  
*Director, Rates*  
*E.ON U.S. Services Inc.*  
(502) 627-3324 (phone)  
(502) 627-3213 (fax)  
(502) 741-4322 (mobile)  
robert.conroy@eon-us.com

---

**From:** Saunders, Eileen  
**Sent:** Thursday, September 30, 2010 2:57 PM  
**To:** Conroy, Robert  
**Cc:** Straight, Scott; Schroeder, Andrea; Clements, Joe  
**Subject:** RE: ECR compliance plan filings.

Robert,

Scott is traveling today and tomorrow. I have a DVD of the Black and Veatch Phase 1 study that I can provide to you. Please be forewarned that the B&V study is roughly 400 pages. Additionally, I have a PowerPoint Presentation that shows the updated version of the plan for Mill Creek.

I am working from Ghent but can try to have someone send that information over to you in the morning. Please let me know if that will work for you.

Thanks,

Eileen

---

**From:** Conroy, Robert  
**Sent:** Thursday, September 30, 2010 2:25 PM  
**To:** Straight, Scott  
**Cc:** Saunders, Eileen; Schroeder, Andrea  
**Subject:** ECR compliance plan filings.

Scott,

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**Robert M. Conroy**

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---

**From:** Conroy, Robert  
**To:** Saunders, Eileen  
**Sent:** 9/30/2010 3:06:53 PM  
**Subject:** RE: ECR compliance plan filings.

The powerpoint or any other summary would be helpful as well.

Thanks for your help.

**Robert M. Conroy**  
*Director, Rates*  
*E.ON U.S. Services Inc.*  
(502) 627-3324 (phone)  
(502) 627-3213 (fax)  
(502) 741-4322 (mobile)  
robert.conroy@eon-us.com

---

**From:** Conroy, Robert  
**Sent:** Thursday, September 30, 2010 3:02 PM  
**To:** Saunders, Eileen  
**Cc:** Straight, Scott; Schroeder, Andrea; Clements, Joe  
**Subject:** RE: ECR compliance plan filings.

Eileen,

Thanks. I assumed the document was large so sending on DVD will be fine.

**Robert M. Conroy**  
*Director, Rates*  
*E.ON U.S. Services Inc.*  
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---

**From:** Saunders, Eileen  
**Sent:** Thursday, September 30, 2010 2:57 PM  
**To:** Conroy, Robert  
**Cc:** Straight, Scott; Schroeder, Andrea; Clements, Joe  
**Subject:** RE: ECR compliance plan filings.

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I am working from Ghent but can try to have someone send that information over to you in the morning. Please let me know if that will work for you.

Thanks,

Eileen

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**From:** Conroy, Robert  
**Sent:** Thursday, September 30, 2010 2:25 PM  
**To:** Straight, Scott  
**Cc:** Saunders, Eileen; Schroeder, Andrea  
**Subject:** ECR compliance plan filings.

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**Robert M. Conroy**  
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*E.ON U.S. Services Inc.*  
(502) 627-3324 (phone)  
(502) 627-3213 (fax)  
(502) 741-4322 (mobile)  
robert.conroy@eon-us.com

---

**From:** Saunders, Eileen  
**To:** Conroy, Robert  
**CC:** Jackson, Audrey  
**Sent:** 9/30/2010 3:13:09 PM  
**Subject:** RE: ECR compliance plan filings.

Our assistant, Audrey Jackson is working to copy the DVD and she has located the PowerPoint. She will send both items to you in a red envelope in the morning. I will look to see if we have any other documents that may be useful to you on Monday. I have a planned vacation day for tomorrow.

As you read the document, please feel free to contact me with any questions.

Thanks,

Eileen

---

**From:** Conroy, Robert  
**Sent:** Thursday, September 30, 2010 3:07 PM  
**To:** Saunders, Eileen  
**Subject:** RE: ECR compliance plan filings.

The powerpoint or any other summary would be helpful as well.

Thanks for your help.

**Robert M. Conroy**  
*Director, Rates*  
*E.ON U.S. Services Inc.*  
(502) 627-3324 (phone)  
(502) 627-3213 (fax)  
(502) 741-4322 (mobile)  
robert.conroy@eon-us.com

---

**From:** Conroy, Robert  
**Sent:** Thursday, September 30, 2010 3:02 PM  
**To:** Saunders, Eileen  
**Cc:** Straight, Scott; Schroeder, Andrea; Clements, Joe  
**Subject:** RE: ECR compliance plan filings.

Eileen,

Thanks. I assumed the document was large so sending on DVD will be fine.

**Robert M. Conroy**  
*Director, Rates*  
*E.ON U.S. Services Inc.*  
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(502) 627-3213 (fax)  
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robert.conroy@eon-us.com

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**From:** Saunders, Eileen  
**Sent:** Thursday, September 30, 2010 2:57 PM

**To:** Conroy, Robert  
**Cc:** Straight, Scott; Schroeder, Andrea; Clements, Joe  
**Subject:** RE: ECR compliance plan filings.

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<< File: Environmental Summay alternate scenario Rev4 - Pras (2).xlsx >>

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robert.conroy@eon-us.com

---

**From:** Saunders, Eileen  
**To:** Billiter, Delbert  
**Sent:** 9/30/2010 3:19:00 PM  
**Subject:** FW: 168908.41.0100 100929 Mill Creek, Ghent and Brown Coal Fuel Question  
**Attachments:** ArchiveInfo.htm

Hi Delbert,

I am now assigned to the Phase 2 portion of the Environmental Compliance work with Black and Veatch. Please take a look at the questions below. Essentially, they are asking which would be the best fuel design basis to use during the next phase of study/engineering.

Please let me know your thoughts as soon as possible. As usual, I appreciate your help on this issue.

Thanks,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Wednesday, September 29, 2010 5:25 PM  
**To:** Saunders, Eileen  
**Cc:** Jackson, Audrey; 168908 E.ON-AQC; Crabtree, Jonathan D.; Wehrly, M. R.; Lucas, Kyle J.; Mehta, Pratik D.; Mahabaleshwarkar, Anand  
**Subject:** 168908.41.0100 100929 Mill Creek, Ghent and Brown Coal Fuel Question

Eileen,

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Later during the course of the Phase I work, we were asked to use a different fuel (a "Future Coal", included in the spreadsheet below) for the Phase I work for Mill Creek, as well as for Ghent and Brown.

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<b>Ultimate Coal Analysis (% by mass as received):</b>	<b><u>Current Coal</u></b>	<b><u>Future Coal</u></b>
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SO2 Inlet Loading, lb/Mbtu	6.10	6.00

Additionally, during the Aug 5-6 Mill Creek AQC Workshop, a 6.2 lb/Mbtu SO2 coal was referenced, which is higher than the 6.10 and 6.00 lb/Mbtu SO2 for the "Current Coal" and "Future Coal", respectively.

Our question is, which fuel analysis should we use as the coal fuel design basis for Mill Creek, Ghent, and Brown in the Phase II work?

Regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: [hillmantm@bv.com](mailto:hillmantm@bv.com)

This message and its attachments have been archived. To retrieve, double click the message in the message list.

The following attachments were archived from this message:

- Mill Creek.xls
- Environmental Compliance Proj quality data.xlsx

---

**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**Sent:** 9/30/2010 3:26:32 PM  
**Subject:** RE: Out of the Office

Thanks you Eileen.. Also, did you have any comments on the Ghent kickoff Agenda I sent you on Tuesday?

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 65211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Thursday, September 30, 2010 2:24 PM  
**To:** Hillman, Timothy M.  
**Subject:** Out of the Office

Tim,

I will be out of the office on October 1, 2010. I will not be out of town and will check my emails periodically throughout the day.

Thanks,

Eileen

---

*The information contained in this transmission is intended only for the person or entity to which it is directly addressed or copied. It may contain material of confidential and/or private nature. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is not allowed. If you received this message and the information contained therein by error, please contact the sender and delete the material from your/any storage medium.*



---

**From:** Saunders, Eileen  
**To:** 'HillmanTM@bv.com'  
**Sent:** 9/30/2010 3:44:44 PM  
**Subject:** Re: Out of the Office

I will look at this and send you an email later today.

Thanks,

Eileen

---

**From:** Hillman, Timothy M. <HillmanTM@bv.com>  
**To:** Saunders, Eileen  
**Sent:** Thu Sep 30 15:26:32 2010  
**Subject:** RE: Out of the Office

Thanks you Eileen.. Also, did you have any comments on the Ghent kickoff Agenda I sent you on Tuesday?

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
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**Sent:** Thursday, September 30, 2010 2:24 PM  
**To:** Hillman, Timothy M.  
**Subject:** Out of the Office

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Eileen

---

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---

**From:** Saunders, Eileen  
**To:** 'HillmanTM@bv.com'  
**Sent:** 9/30/2010 6:44:28 PM  
**Subject:** Re: 168908.14.1000 100928 Ghent - Draft Kickoff Meeting Agenda

Tim,

After I do the introduction and purpose, Gary Revlett will do his Air Compliance overview. Once Gary is finished, B&V can do the presentation as reflected in the agenda.

Thanks,

Eileen

---

**From:** Hillman, Timothy M. <HillmanTM@bv.com>  
**To:** Saunders, Eileen  
**Cc:** Jackson, Audrey; 168908 E.ON-AQC <168908EONAQC@bv.com>; Wehrly, M. R. <WehrlyMR@bv.com>; Hintz, Monty E. <HintzME@bv.com>; Mahabaleshwarkar, Anand <MahabaleshwarkarA@bv.com>; Goodlet, Roger F. <GoodletRF@bv.com>; Lausman, Rick L. <LausmanRL@bv.com>; Lucas, Kyle J. <LucaskJ@bv.com>; Crabtree, Jonathan D. <CrabtreeJD@bv.com>; King, Michael L. (Mike) <kingml@bv.com>  
**Sent:** Tue Sep 28 08:49:29 2010  
**Subject:** 168908.14.1000 100928 Ghent - Draft Kickoff Meeting Agenda

Eileen,

Please find attached a draft meeting agenda for the Ghent kickoff meeting next week. Once again, I have assumed there will be lunch onsite. You will also note that agenda items III and IV on the first day include the presentations we discussed yesterday during our conference call.

B&V attendees will include:

Anand Mahabaleshwarkar (Oct 6th only)  
Rick Lausman  
M.R. Wehrly  
Monty Hintz  
Roger Goodlet  
Tim Hillman

Once I have your comments, I will finalize for distribution.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Hillman, Timothy M.  
**To:** Wehrly, M. R.; Saunders, Eileen  
**Sent:** 9/30/2010 8:39:14 PM  
**Subject:** Re: 168908.14.1000 100928 Ghent - Draft Kickoff Meeting Agenda

Ok thanks Eileen. I will update the agenda as such.

Sent from my HTC on the Now Network from Sprint!

----- Reply message -----

**From:** "Saunders, Eileen" <Eileen.Saunders@eon-us.com>  
**Date:** Thu, Sep 30, 2010 17:46  
**Subject:** 168908.14.1000 100928 Ghent - Draft Kickoff Meeting Agenda  
**To:** "Hillman, Timothy M." <HillmanTM@bv.com>

Tim,

After I do the introduction and purpose, Gary Revlett will do his Air Compliance overview. Once Gary is finished, B&V can do the presentation as reflected in the agenda.

Thanks,

Eileen

---

**From:** Hillman, Timothy M. <HillmanTM@bv.com>  
**To:** Saunders, Eileen  
**Cc:** Jackson, Audrey; 168908 E.ON-AQC <168908EONAQC@bv.com>; Wehrly, M. R. <WehrlyMR@bv.com>; Hintz, Monty E. <HintzME@bv.com>; Mahabaleshwarkar, Anand <MahabaleshwarkarA@bv.com>; Goodlet, Roger F. <GoodletRF@bv.com>; Lausman, Rick L. <LausmanRL@bv.com>; Lucas, Kyle J. <LucasKJ@bv.com>; Crabtree, Jonathan D. <CrabtreeJD@bv.com>; King, Michael L. (Mike) <kingml@bv.com>  
**Sent:** Tue Sep 28 08:49:29 2010  
**Subject:** 168908.14.1000 100928 Ghent - Draft Kickoff Meeting Agenda

Eileen,

Please find attached a draft meeting agenda for the Ghent kickoff meeting next week. Once again, I have assumed there will be lunch onsite. You will also note that agenda items III and IV on the first day include the presentations we discussed yesterday during our conference call.

B&V attendees will include:

Anand Mahabaleshwarkar (Oct 6th only)  
Rick Lausman  
M.R. Wehrly  
Monty Hintz  
Roger Goodlet  
Tim Hillman

Once I have your comments, I will finalize for distribution.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

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---

**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**CC:** 168908 E.ON-AQC; Jackson, Audrey; Lucas, Kyle J.; Goodlet, Roger F.; Lausman, Rick L.; Mahabaleshwarkar, Anand; Hintz, Monty E.; Wehrly, M. R.; Crabtree, Jonathan D.  
**Sent:** 10/1/2010 8:47:36 AM  
**Subject:** 168908.14.1000 101001 Ghent - Kickoff Meeting Agenda  
**Attachments:** ArchiveInfo.htm

Eileen,

Please find attached a final copy of the agenda for the Ghent Kickoff. We plan to bring copies of the agenda and our presentation to the meeting.

If there are any other final details related to the kickoff meeting, let's plan on discussing them during our regularly scheduled Monday conference at 2 pm EST.

Finally, we are working on a priority-based schedule for the Mill Creek action item list, which we plan to send to you before the Monday call along with the updated action item list.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Thursday, September 30, 2010 5:44 PM  
**To:** Hillman, Timothy M.  
**Subject:** Re: 168908.14.1000 100928 Ghent - Draft Kickoff Meeting Agenda

Tim,

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Thanks,

Eileen

---

**From:** Hillman, Timothy M. <HillmanTM@bv.com>  
**To:** Saunders, Eileen  
**Cc:** Jackson, Audrey; 168908 E.ON-AQC <168908EONAQC@bv.com>; Wehrly, M. R. <WehrlyMR@bv.com>; Hintz, Monty E. <HintzME@bv.com>; Mahabaleshwarkar, Anand <MahabaleshwarkarA@bv.com>; Goodlet, Roger F. <GoodletRF@bv.com>; Lausman, Rick L. <LausmanRL@bv.com>; Lucas, Kyle J. <LucasKJ@bv.com>; Crabtree, Jonathan D. <CrabtreeJD@bv.com>; King, Michael L. (Mike) <kingml@bv.com>  
**Sent:** Tue Sep 28 08:49:29 2010  
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The following attachments were archived from this message:

- EON Ghent Kickoff Meeting Agenda.doc

---

**From:** Saunders, Eileen  
**To:** 'HillmanTM@bv.com'  
**Sent:** 10/1/2010 9:49:33 AM  
**Subject:** Re: 168908.14.1000 101001 Ghent - Kickoff Meeting Agenda

Looks good!

Thanks,

Eileen

---

**From:** Hillman, Timothy M. <HillmanTM@bv.com>  
**To:** Saunders, Eileen  
**Cc:** 168908 E.ON-AQC <168908EONAQC@bv.com>; Jackson, Audrey; Lucas, Kyle J. <LucasKJ@bv.com>; Goodlet, Roger F. <GoodletRF@bv.com>; Lausman, Rick L. <LausmanRL@bv.com>; Mahabaleshwarkar, Anand <MahabaleshwarkarA@bv.com>; Hintz, Monty E. <HintzME@bv.com>; Wehrly, M. R. <WehrlyMR@bv.com>; Crabtree, Jonathan D. <CrabtreeJD@bv.com>  
**Sent:** Fri Oct 01 08:47:36 2010  
**Subject:** 168908.14.1000 101001 Ghent - Kickoff Meeting Agenda

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Best regards,

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**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
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Phone: (913) 458-7928  
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**Sent:** Thursday, September 30, 2010 5:44 PM  
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**Subject:** Re: 168908.14.1000 100928 Ghent - Draft Kickoff Meeting Agenda

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Thanks,

Eileen



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**To:** Saunders, Eileen

**Cc:** Jackson, Audrey; 168908 E.ON-AQC <168908EONAQC@bv.com>; Wehrly, M. R. <WehrlyMR@bv.com>; Hintz, Monty E. <HintzME@bv.com>; Mahabaleshwarkar, Anand <MahabaleshwarkarA@bv.com>; Goodlet, Roger F. <GoodletRF@bv.com>; Lausman, Rick L. <LausmanRL@bv.com>; Lucas, Kyle J. <LucasKJ@bv.com>; Crabtree, Jonathan D. <CrabtreeJD@bv.com>; King, Michael L. (Mike) <kingml@bv.com>

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- Monty Hintz
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- Tim Hillman

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Best regards,

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**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**CC:** 168908 E.ON-AQC; Jackson, Audrey; Crabtree, Jonathan D.; Mahabaleshwarkar, Anand; Wehrly, M. R.; Lausman, Rick L.; Hintz, Monty E.; Goodlet, Roger F.; Betz, Alex  
**Sent:** 10/1/2010 10:24:53 AM  
**Subject:** 168908.28.3000 101001 - Action Item List  
**Attachments:** ArchiveInfo.htm

Eileen

Attached is the updated action item list for our weekly Monday conference call.

Regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

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The following attachments were archived from this message:

- 168908 EON ACTION ITEM LIST.xls

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**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**CC:** Jackson, Audrey; 168908 E.ON-AQC; Crabtree, Jonathan D.; Wehrly, M. R.; Lucas, Kyle J.; Betz, Alex  
**Sent:** 10/1/2010 10:25:07 AM  
**Subject:** 168908.41.0100 101001 Mill Creek Engineering Data Request  
**Attachments:** ArchiveInfo.htm

Eileen,

Attached is a revised Mill Creek Data Request list incorporating a priority-based schedule. We have taken the 092910 Mill Creek Data Request list sent to you earlier and created a spreadsheet to reflect all the requests in order of priority. There are 4 priority levels. The first being due at the end of next week, October 8th, and then each consecutive one is a week apart. This allows for all information to be provided by the end of October so that B&V will be able to support the AQC validation and be prepared to start conceptual design in November.

Regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Thursday, September 30, 2010 12:24 PM  
**To:** Hillman, Timothy M.  
**Cc:** Jackson, Audrey; 168908 E.ON-AQC; Crabtree, Jonathan D.; Wehrly, M. R.; Lucas, Kyle J.; Betz, Alex  
**Subject:** RE: 168908.41.0100 100929 Mill Creek Engineering Data Request

Tim,

Alex and I just completed a meeting where we discussed our process for collecting this data. One thing that would be helpful is if B&V provided a schedule of when you need the information. If you recall, during Phase 1, we were given specific deadlines for data submittal. Alex and I need to plan our resources so a timeline would be helpful.

Thank you,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Wednesday, September 29, 2010 10:26 AM  
**To:** Saunders, Eileen  
**Cc:** Jackson, Audrey; 168908 E.ON-AQC; Crabtree, Jonathan D.; Wehrly, M. R.; Lucas, Kyle J.; Betz, Alex  
**Subject:** 168908.41.0100 100929 Mill Creek Engineering Data Request

Eileen,

Please find attached our Engineering Data Request for Mill Creek. We have spent a considerable amount of time researching, cross-referencing with data we already have, and narrowing this list to only those items essential to our work. While the list may look longer than the draft you reviewed earlier, there are very few new requests, just additional detail on some of the more open-ended requests we previously listed. I have also attached for your information, the "Mill Creek Data Index", which is our current inventory of information that we already have on file for Mill Creek. Native and PDF formats of both documents are

included.

In a separate email, we will be sending instructions for the use of the iBackup accounts to begin transferring data.

Please don't hesitate to call if you have any questions. I request that you copy M.R Wehrly and Jonathan Crabtree (both copied on this email) on any questions related to this request.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
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The following attachments were archived from this message:

- Mill Creek Priority List for Info Req 092910.xls

---

**From:** Saunders, Eileen  
**To:** 'HillmanTM@bv.com'  
**Sent:** 10/1/2010 10:37:53 AM  
**Subject:** Re: 168908.41.0100 101001 Mill Creek Engineering Data Request

Thank you. This will really help!

Eileen

---

**From:** Hillman, Timothy M. <HillmanTM@bv.com>  
**To:** Saunders, Eileen  
**Cc:** Jackson, Audrey; 168908 E.ON-AQC <168908EONAQC@bv.com>; Crabtree, Jonathan D. <CrabtreeJD@bv.com>; Wehrly, M. R. <WehrlyMR@bv.com>; Lucas, Kyle J. <LucasKJ@bv.com>; Betz, Alex  
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Best regards,

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---

**From:** Saunders, Eileen  
**To:** Ritchey, Stacy  
**Sent:** 10/4/2010 10:32:46 AM  
**Subject:** FW: ECR compliance plan filings.  
**Attachments:** ArchiveInfo.htm

---

**From:** Conroy, Robert  
**Sent:** Thursday, September 30, 2010 2:25 PM  
**To:** Straight, Scott  
**Cc:** Saunders, Eileen; Schroeder, Andrea  
**Subject:** ECR compliance plan filings.

Scott,

Here is the table that I gave you before you left. As we discussed, the column labeled "ECR Filing" was a place holder based on when spending would occur and in no way is it accurate. What I need is an understanding of what documentation we have to support a CCN and ECR filing for each of the projects. In addition, since most of the projects will require a CCN, I need to know when "construction" as defined by the CCN will begin so that I can plan accordingly on when to file the application with the KPSC.

You had mentioned "Black and Veatch" study supporting the projects. Would it be possible for me to get access to review that document so I can understand what we have? Thanks for your help and let me know what time you are available to discuss tomorrow.

**Robert M. Conroy**  
*Director, Rates*  
*E.ON U.S. Services Inc.*  
(502) 627-3324 (phone)  
(502) 627-3213 (fax)  
(502) 741-4322 (mobile)  
robert.conroy@eon-us.com

This message and its attachments have been archived. To retrieve, double click the message in the message list.

The following attachments were archived from this message:

- Environmental Summay alternate scenario Rev4 - Pras (2).xlsx

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**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen  
**CC:** Hillman, Timothy M.; Wehrly, M. R.; Lawson, Stacy J.; 168908 E.ON-AQC; Jackson, Audrey  
**Sent:** 10/4/2010 3:07:04 PM  
**Subject:** 168908.14.4000 101004 - E.ON Ghent Contact

Eileen,  
Just a follow-up from today's conference call. Please send the Ghent plant contact (name and phone) who will meet the B&V team at security on Wednesday morning. The team will plan to arrive at 8 am.

Thanks,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: [lucaskj@bv.com](mailto:lucaskj@bv.com)

---

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---

**From:** Lucas, Kyle J.  
**To:** Revlett, Gary  
**CC:** Hillman, Timothy M.; Wehrly, M. R.; Lawson, Stacy J.; 168908 E.ON-AQC; Jackson, Audrey; Saunders, Eileen  
**Sent:** 10/4/2010 5:43:16 PM  
**Subject:** 168908.14.4000 101004 - E.ON MC & Ghent Regulatory Briefing

Gary,

For our project records we would like to obtain a copy of your PowerPoint presentation summarizing the regulatory drivers for the Mill Creek plant (from 9/15/10). Likewise, we would like to get an electronic copy of this week's presentation at Ghent.

Thanks for your assistance,

Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 65211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: [lucaskj@bv.com](mailto:lucaskj@bv.com)

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---

**From:** Jones, Greg  
**To:** Saunders, Eileen  
**Sent:** 10/5/2010 10:33:40 AM  
**Subject:** RE: Agenda for B&V meeting

Never mind.

Timmy found the well at Ohio Falls. Black and Veatch pushed him in, ironically. I won't make it up there today.

---

**From:** Saunders, Eileen  
**Sent:** Tuesday, October 05, 2010 10:20 AM  
**To:** Jones, Greg  
**Subject:** RE: Agenda for B&V meeting

No, not that AXE Gary. This Gary is the Manager of Environmental.

Eileen

---

**From:** Jones, Greg  
**Sent:** Tuesday, October 05, 2010 7:55 AM  
**To:** Saunders, Eileen  
**Subject:** RE: Agenda for B&V meeting

Who is Gary Revlett? Should that be 800 AXE Gary?

---

**From:** Saunders, Eileen  
**Sent:** Monday, October 04, 2010 2:56 PM  
**To:** Joyce, Jeff; Drake, Michael; Wright, Paul; Mooney, Mike (BOC 3); Revlett, Gary; Jones, Greg; Scott, Randy  
**Cc:** Stockdale, Dianne  
**Subject:** Agenda for B&V meeting

All,

Please see the enclosed copy of the agenda for our meetings with B&V this week and please pass it along to others in your group who may be attending.

In general, the large group will meet Wednesday morning and discuss options for the Ghent Station and then a smaller group will conduct the site walk-downs. On Thursday, B&V will be available for a debriefing for anyone who can attend.

I will have a project coordinator available to escort B&V while they are on-site but if you can spare someone from operations or engineering to tour with the group Wednesday and Thursday, that would be great. The Mill Creek folks who toured with us over the 3 day period proved to be invaluable.

Lastly, please be thinking of someone you can assign to work with me to help coordinate data collection efforts in support of this project.

Thank you,

Eileen

<< File: EON Ghent Kickoff Meeting Agenda.doc >>

---

**From:** Saunders, Eileen  
**To:** Jones, Greg  
**Sent:** 10/5/2010 10:36:45 AM  
**Subject:** RE: Agenda for B&V meeting

Where are you?

---

**From:** Jones, Greg  
**Sent:** Tuesday, October 05, 2010 10:34 AM  
**To:** Saunders, Eileen  
**Subject:** RE: Agenda for B&V meeting

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---

**From:** Jones, Greg  
**To:** Saunders, Eileen  
**Sent:** 10/5/2010 10:37:00 AM  
**Subject:** RE: Agenda for B&V meeting

Boc

---

**From:** Saunders, Eileen  
**Sent:** Tuesday, October 05, 2010 10:37 AM  
**To:** Jones, Greg  
**Subject:** RE: Agenda for B&V meeting

Where are you?

---

**From:** Jones, Greg  
**Sent:** Tuesday, October 05, 2010 10:34 AM  
**To:** Saunders, Eileen  
**Subject:** RE: Agenda for B&V meeting

Never mind.

Timmy found the well at Ohio Falls. Black and Veatch pushed him in, ironically. I won't make it up there today.

---

**From:** Saunders, Eileen  
**Sent:** Tuesday, October 05, 2010 10:20 AM  
**To:** Jones, Greg  
**Subject:** RE: Agenda for B&V meeting

No, not that AXE Gary. This Gary is the Manager of Environmental.

Eileen

---

**From:** Jones, Greg  
**Sent:** Tuesday, October 05, 2010 7:55 AM  
**To:** Saunders, Eileen  
**Subject:** RE: Agenda for B&V meeting

Who is Gary Revlett? Should that be 800 AXE Gary?

---

**From:** Saunders, Eileen  
**Sent:** Monday, October 04, 2010 2:56 PM  
**To:** Joyce, Jeff; Drake, Michael; Wright, Paul; Mooney, Mike (BOC 3); Revlett, Gary; Jones, Greg; Scott, Randy  
**Cc:** Stockdale, Dianne  
**Subject:** Agenda for B&V meeting

All,

Please see the enclosed copy of the agenda for our meetings with B&V this week and please pass it along to others in your group who may be attending.

In general, the large group will meet Wednesday morning and discuss options for the Ghent Station and then a smaller group will conduct the site walk-downs. On Thursday, B&V will be available for a debriefing for anyone who can attend.

I will have a project coordinator available to escort B&V while they are on-site but if you can spare someone from operations or engineering to tour with the group Wednesday and Thursday, that would be great. The Mill Creek folks who toured with us over the 3 day period proved to be invaluable.

Lastly, please be thinking of someone you can assign to work with me to help coordinate data collection efforts in support of this project.

Thank you,

Eileen

<< File: EON Ghent Kickoff Meeting Agenda.doc >>

---

**From:** Lucas, Kyle J.  
**To:** Saunders, Eileen  
**CC:** 168908 E.ON-AQC; Jackson, Audrey; Wehrly, M. R.; Hillman, Timothy M.; Crabtree, Jonathan D.; Lawson, Stacy J.  
**Sent:** 10/5/2010 1:48:44 PM  
**Subject:** 168908.22.1000 101005 - Mill Creek Project Design Memorandum (PDM)  
**Attachments:** ArchiveInfo.htm

Eileen,

As defined in our scope of work under Task 5, attached please find a copy of the Project Design Memorandum (PDM) for the Mill Creek Plant. The purpose of the PDM is to summarize and define the technical and functional requirements on which the Mill Creek Phase II AQC study will be based. The PDM is a dynamic document subject to change as new project information is made available, but B&V will control this document and will be responsible for updates and revisions.

This PDM document includes Mill Creek project specific information and was built upon the initial design basis prepared for the Phase I project; however, Phase II requires additional information. Thus, there are several tables that require specific input from E.ON. Please review the document and use the "track changes" feature of the Word software to include your comments and the additional project data. We would request comments from E.ON no later than Tuesday 10/12/10.

Please let us know if you have any questions.

Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: [lucaskj@bv.com](mailto:lucaskj@bv.com)

---

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This message and its attachments have been archived. To retrieve, double click the message in the message list.

The following attachments were archived from this message:

- EON Mill Creek Project Design Memo.doc

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**From:** Revlett, Gary  
**To:** 'Lucas, Kyle J.'  
**CC:** Hillman, Timothy M.; Wehrly, M. R.; Lawson, Stacy J.; 168908 E.ON-AQC; Jackson, Audrey; Saunders, Eileen  
**Sent:** 10/6/2010 7:08:44 AM  
**Subject:** RE: 168908.14.4000 101004 - E.ON MC & Ghent Regulatory Briefing  
**Attachments:** ArchiveInfo.htm

Hi Kyle,

Attached to this email is a copy of the Ghent PowerPoint presentation that I will use at Ghent's Phase II Air Quality Control Study Kickoff Meeting. The first part of the Ghent presentation is the same as used at Mill Creek meeting to described the regulatory drivers. I have also included the Mill Creek specific environmental requirements and information on CATR.

Gary

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Monday, October 04, 2010 5:43 PM  
**To:** Revlett, Gary  
**Cc:** Hillman, Timothy M.; Wehrly, M. R.; Lawson, Stacy J.; 168908 E.ON-AQC; Jackson, Audrey; Saunders, Eileen  
**Subject:** 168908.14.4000 101004 - E.ON MC & Ghent Regulatory Briefing

Gary,

For our project records we would like to obtain a copy of your PowerPoint presentation summarizing the regulatory drivers for the Mill Creek plant (from 9/15/10). Likewise, we would like to get an electronic copy of this week's presentation at Ghent.

Thanks for your assistance,

Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
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The following attachments were archived from this message:

- Revlett - Upcoming Environmental Air Regulations (Ghent).pptx

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**From:** Lucas, Kyle J.  
**To:** Revlett, Gary  
**CC:** Hillman, Timothy M.; Wehrly, M. R.; Lawson, Stacy J.; 168908 E.ON-AQC; Jackson, Audrey; Saunders, Eileen  
**Sent:** 10/6/2010 7:11:45 AM  
**Subject:** RE: 168908.14.4000 101004 - E.ON MC & Ghent Regulatory Briefing

Thanks Gary.

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 65211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
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**From:** Revlett, Gary [<mailto:Gary.Revlett@eon-us.com>]  
**Sent:** Wednesday, October 06, 2010 6:09 AM  
**To:** Lucas, Kyle J.  
**Cc:** Hillman, Timothy M.; Wehrly, M. R.; Lawson, Stacy J.; 168908 E.ON-AQC; Jackson, Audrey; Saunders, Eileen  
**Subject:** RE: 168908.14.4000 101004 - E.ON MC & Ghent Regulatory Briefing

Hi Kyle,

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Gary

---

**From:** Lucas, Kyle J. [<mailto:LucasKJ@bv.com>]  
**Sent:** Monday, October 04, 2010 5:43 PM  
**To:** Revlett, Gary  
**Cc:** Hillman, Timothy M.; Wehrly, M. R.; Lawson, Stacy J.; 168908 E.ON-AQC; Jackson, Audrey; Saunders, Eileen  
**Subject:** 168908.14.4000 101004 - E.ON MC & Ghent Regulatory Briefing

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Regards,  
Kyle

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---

**From:** Ritchey, Stacy  
**To:** Saunders, Eileen  
**Sent:** 10/7/2010 12:47:54 PM  
**Subject:** FW: Environmental Summary alternate scenario Rev4 - Pras.xlsx  
**Attachments:** ArchiveInfo.htm

Eileen,

Robert is wanting me to provide them with by month numbers, are you ok with that? It will probably take me at least until the end of tomorrow to get his data. Thanks. Stacy

---

**From:** Conroy, Robert  
**Sent:** Thursday, October 07, 2010 12:44 PM  
**To:** Ritchey, Stacy  
**Cc:** Schroeder, Andrea  
**Subject:** FW: Environmental Summay alternate scenario Rev4 - Pras.xlsx

Stacy,

This is the table I referenced in my voice-mail. Can you provided us monthly numbers for these projects?

**Robert M. Conroy**  
*Director, Rates*  
*E.ON U.S. Services Inc.*  
(502) 627-3324 (phone)  
(502) 627-3213 (fax)  
(502) 741-4322 (mobile)  
robert.conroy@eon-us.com

---

**From:** Garrett, Chris  
**Sent:** Friday, September 24, 2010 10:17 AM  
**To:** Conroy, Robert; Foxworthy, Carol  
**Subject:** Environmental Summay alternate scenario Rev4 - Pras.xlsx

Here is a summary of the costs by technology by plant site. The CCR costs are not included in this schedule, but we anticipate getting ECR recovery in the Plan for the capital expenditures, but not the cost of removal (\$200M in capex related; \$500m in removal costs). The CCR costs breakdown is in the PowerPoint slide in the prior email.

Chris

This message and its attachments have been archived. To retrieve, double click the message in the message list.

The following attachments were archived from this message:

- Environmental Summay alternate scenario Rev4 - Pras.xlsx

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**From:** Saunders, Eileen  
**To:** Ritchey, Stacy  
**Sent:** 10/7/2010 12:57:54 PM  
**Subject:** Re: Environmental Summary alternate scenario Rev4 - Pras.xlsx

You can work on it but inform him you will need to get Scott to review it before we send it out.

Thanks,

Eileen

---

**From:** Ritchey, Stacy  
**To:** Saunders, Eileen  
**Sent:** Thu Oct 07 12:47:54 2010  
**Subject:** FW: Environmental Summary alternate scenario Rev4 - Pras.xlsx

Eileen,

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**Sent:** Thursday, October 07, 2010 12:44 PM  
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**Cc:** Schroeder, Andrea  
**Subject:** FW: Environmental Summay alternate scenario Rev4 - Pras.xlsx

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Chris

<<Environmental Summay alternate scenario Rev4 - Pras.xlsx>>

---

**From:** Conroy, Robert  
**To:** Ritchey, Stacy  
**CC:** Schroeder, Andrea; Saunders, Eileen  
**Sent:** 10/7/2010 2:15:23 PM  
**Subject:** Re: Environmental Summary alternate scenario Rev4 - Pras.xlsx

As soon as possible.

Sent from my BlackBerry.

---

**From:** Ritchey, Stacy  
**To:** Conroy, Robert  
**Cc:** Schroeder, Andrea; Saunders, Eileen  
**Sent:** Thu Oct 07 13:00:19 2010  
**Subject:** RE: Environmental Summary alternate scenario Rev4 - Pras.xlsx

Robert,

I will pull this data together, but I will need to get Scott and Eileen to review before I send it. Scott is out the rest of the week. When do you need the information? Thanks. Stacy

---

**From:** Conroy, Robert  
**Sent:** Thursday, October 07, 2010 12:44 PM  
**To:** Ritchey, Stacy  
**Cc:** Schroeder, Andrea  
**Subject:** FW: Environmental Summay alternate scenario Rev4 - Pras.xlsx

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**Sent:** Friday, September 24, 2010 10:17 AM  
**To:** Conroy, Robert; Foxworthy, Carol  
**Subject:** Environmental Summay alternate scenario Rev4 - Pras.xlsx

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Chris

<< File: Environmental Summay alternate scenario Rev4 - Pras.xlsx >>

---

**From:** Conroy, Robert  
**To:** Straight, Scott; Saunders, Eileen  
**CC:** Schroeder, Andrea; Bellar, Lonnie  
**Sent:** 10/7/2010 5:23:22 PM  
**Subject:** FW: ECR compliance plan filings.  
**Attachments:** ArchiveInfo.htm

Scott/Eileen,

Have you been able to complete the information below?

**Robert M. Conroy**  
*Director, Rates*  
*E.ON U.S. Services Inc.*  
(502) 627-3324 (phone)  
(502) 627-3213 (fax)  
(502) 741-4322 (mobile)  
robert.conroy@eon-us.com

---

**From:** Conroy, Robert  
**Sent:** Thursday, September 30, 2010 2:25 PM  
**To:** Straight, Scott  
**Cc:** Saunders, Eileen; Schroeder, Andrea  
**Subject:** ECR compliance plan filings.

Scott,

Here is the table that I gave you before you left. As we discussed, the column labeled "ECR Filing" was a place holder based on when spending would occur and in no way is it accurate. What I need is an understanding of what documentation we have to support a CCN and ECR filing for each of the projects. In addition, since most of the projects will require a CCN, I need to know when "construction" as defined by the CCN will begin so that I can plan accordingly on when to file the application with the KPSC.

You had mentioned "Black and Veatch" study supporting the projects. Would it be possible for me to get access to review that document so I can understand what we have? Thanks for your help and let me know what time you are available to discuss tomorrow.

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robert.conroy@eon-us.com

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The following attachments were archived from this message:

- Environmental Summay alternate scenario Rev4 - Pras (2).xlsx



---

**From:** Saunders, Eileen  
**To:** Conroy, Robert; Straight, Scott  
**CC:** Schroeder, Andrea; Bellar, Lonnie  
**Sent:** 10/7/2010 6:49:13 PM  
**Subject:** Re: ECR compliance plan filings.

Robert,

Scott has been on vacation since you originally sent this request. This looks like the same document that Stacy Ritchey and I communicated would be sent to you on Monday after Scott's review.

I am working from my blackberry at the moment and couldn't see the document well but I believe it is the same.

Also, I sent you everything I had from B&V. If you have any questions about that information, please give me a call. I will be at the BOC tomorrow.

Thank you,

Eileen

---

**From:** Conroy, Robert  
**To:** Straight, Scott; Saunders, Eileen  
**Cc:** Schroeder, Andrea; Bellar, Lonnie  
**Sent:** Thu Oct 07 17:23:21 2010  
**Subject:** FW: ECR compliance plan filings.

Scott/Eileen,

Have you been able to complete the information below?

**Robert M. Conroy**

*Director, Rates*

*E.ON U.S. Services Inc.*

(502) 627-3324 (phone)

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<<Environmental Summay alternate scenario Rev4 - Pras (2).xlsx>>

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**From:** Garrett, Chris  
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**Sent:** 9/24/2010 10:17:20 AM  
**Subject:** Environmental Summay alternate scenario Rev4 - Pras.xlsx  
**Attachments:** Environmental Summay alternate scenario Rev4 - Pras.xlsx

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Chris

	A	C	D	E	F	G	H	I	J	K	L	M	N
1	<b>Environmental Air - CATR by January 2015, NAAQS by January 2016, HAPs by January 2017</b>												
2	\$ in thousands												
3		<b>Capital Cost</b>		2011	2012	2013	2014	2015	2016	2017	2018	Total	
4	<b>Alternate Plan</b>												
5	<b>Brown</b>												
6	Brown 1 - SCR	\$59,000		\$2,950	\$17,700	\$23,600	\$14,750					\$59,000	\$0
7	Brown 1 - Baghouse	\$34,000		\$1,700	\$11,900	\$13,600	\$6,800					\$34,000	\$0
8	Brown 1 - PAC Injection	\$1,599				\$800	\$800					\$1,599	\$0
10	Brown 1 - SAM Mitigation	\$4,000		\$200	\$1,200	\$1,600	\$1,000					\$4,000	\$0
12	Brown 1 - Escalation	\$15,476		\$371	\$3,679	\$6,504	\$4,922					\$15,476	\$0
13	Total Brown 1	<b>\$114,075</b>		<b>\$5,221</b>	<b>\$34,479</b>	<b>\$46,103</b>	<b>\$28,272</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$114,075</b>	<b>\$0</b>
14													
15	Brown 2 - SCR	\$92,000		\$9,200.0	\$34,500	\$43,700	\$4,600					\$92,000	\$0
16	Brown 2 - Baghouse	\$34,000			\$1,360	\$10,200	\$10,880	\$10,540	\$1,020			\$34,000	\$0
17	Brown 2 - PAC Injection	\$2,476					\$1,238	\$1,238				\$2,476	\$0
20	Brown 2 - SAM Mitigation	\$4,000		\$200	\$1,600	\$2,200						\$4,000	\$0
22	Brown 2 - Escalation	\$21,300		\$718	\$4,475	\$9,214	\$3,524	\$3,053	\$316			\$21,300	\$0
23	Total Brown 2	<b>\$153,776</b>		<b>\$10,118</b>	<b>\$41,935</b>	<b>\$65,314</b>	<b>\$20,242</b>	<b>\$14,831</b>	<b>\$1,336</b>	<b>\$0</b>	<b>\$0</b>	<b>\$153,776</b>	<b>\$0</b>
24													
27	Brown 3 - Baghouse	\$61,000				\$1,830	\$21,350	\$28,670	\$9,150			\$61,000	\$0
28	Brown 3 - PAC Injection	\$5,426					\$1,000	\$3,426	\$1,000			\$5,426	\$0
31	Brown 3 - Escalation	\$16,475		\$0	\$0	\$301	\$4,711	\$8,320	\$3,142			\$16,475	\$0
32	Total Brown 3	<b>\$82,901</b>		<b>\$0</b>	<b>\$0</b>	<b>\$2,131</b>	<b>\$27,061</b>	<b>\$40,416</b>	<b>\$13,292</b>	<b>\$0</b>	<b>\$0</b>	<b>\$82,901</b>	<b>\$0</b>
33													
34	<b>Total Brown</b>	<b>\$350,751</b>		<b>\$15,339</b>	<b>\$76,414</b>	<b>\$113,547</b>	<b>\$75,575</b>	<b>\$55,248</b>	<b>\$14,628</b>	<b>\$0</b>	<b>\$0</b>	<b>\$350,751</b>	<b>\$0</b>
35													
36	<b>Ghent</b>												
37	Ghent 1 - Baghouse	\$131,000				\$3,930	\$45,850	\$61,570	\$19,650			\$131,000	\$0
38	Ghent 1 - PAC Injection	\$6,380					\$1,000	\$4,380	\$1,000			\$6,380	\$0
42	Ghent 1 - Escalation	\$34,012		\$0	\$0	\$645	\$9,876	\$17,097	\$6,393			\$34,012	\$0
43	Total Ghent 1	<b>\$171,392</b>		<b>\$0</b>	<b>\$0</b>	<b>\$4,575</b>	<b>\$56,726</b>	<b>\$83,047</b>	<b>\$27,043</b>	<b>\$0</b>	<b>\$0</b>	<b>\$171,392</b>	<b>\$0</b>
44													
45	Ghent 2 - SCR	\$227,000		\$11,350	\$68,100	\$90,800	\$56,750					\$227,000	\$0
46	Ghent 2 - Baghouse	\$120,000				\$4,800	\$42,000	\$56,400	\$16,800			\$120,000	\$0
47	Ghent 2 - PAC Injection	\$6,109					\$1,000	\$4,109	\$1,000			\$6,109	\$0
52	Ghent 2 - Escalation	\$66,928		\$867	\$8,135	\$15,701	\$21,028	\$15,686	\$5,511			\$66,928	\$0
53	Total Ghent 2	<b>\$420,037</b>		<b>\$12,217</b>	<b>\$76,235</b>	<b>\$111,301</b>	<b>\$120,778</b>	<b>\$76,195</b>	<b>\$23,311</b>	<b>\$0</b>	<b>\$0</b>	<b>\$420,037</b>	<b>\$0</b>
54													
55	Ghent 3 - Baghouse	\$138,000				\$16,560	\$48,300	\$66,240	\$6,900			\$138,000	\$0
56	Ghent 3 - PAC Injection	\$6,173					\$3,087	\$3,087				\$6,173	\$0
60	Ghent 3 - Escalation	\$33,660		\$0	\$0	\$2,720	\$10,832	\$17,972	\$2,136			\$33,660	\$0
61	Total Ghent 3	<b>\$177,833</b>		<b>\$0</b>	<b>\$0</b>	<b>\$19,280</b>	<b>\$62,219</b>	<b>\$87,298</b>	<b>\$9,036</b>	<b>\$0</b>	<b>\$0</b>	<b>\$177,833</b>	<b>\$0</b>
62													
63	Ghent 4 - Baghouse	\$117,000				\$11,700	\$40,950	\$58,500	\$5,850			\$117,000	\$0
64	Ghent 4 - PAC Injection	\$6,210					\$3,105	\$3,105				\$6,210	\$0
68	Ghent 4 - Escalation	\$28,990		\$0	\$0	\$1,922	\$9,287	\$15,970	\$1,811	\$0	\$0	\$28,990	\$0
69	Total Ghent 4	<b>\$152,200</b>		<b>\$0</b>	<b>\$0</b>	<b>\$13,622</b>	<b>\$53,342</b>	<b>\$77,575</b>	<b>\$7,661</b>	<b>\$0</b>	<b>\$0</b>	<b>\$152,200</b>	<b>\$0</b>
70													
71	<b>Total Ghent</b>	<b>\$921,461</b>		<b>\$12,217</b>	<b>\$76,235</b>	<b>\$148,777</b>	<b>\$293,065</b>	<b>\$324,115</b>	<b>\$67,052</b>	<b>\$0</b>	<b>\$0</b>	<b>\$921,461</b>	<b>\$0</b>
72													
73	<b>Mill Creek</b>												

	A	C	D	E	F	G	H	I	J	K	L	M	N
74	Mill Creek 1 - FGD Upgrade	\$41,250				\$10,313	\$28,875	\$2,063				\$41,250	\$0
75	Mill Creek 1 - SCR	\$97,020				\$2,911	\$27,166	\$29,106	\$35,897	\$1,940		\$97,020	\$0
76	Mill Creek 1 - Baghouse	\$80,850			\$8,085	\$28,298	\$40,425	\$4,043				\$80,850	\$0
77	Mill Creek 1 - Electrostatic Precipitator	\$0			\$0	\$0	\$0	\$0				\$0	\$0
78	Mill Creek 1 - PAC Injection	\$4,290			\$429	\$1,502	\$2,360					\$4,290	\$0
81	Mill Creek 1 - SAM Mitigation	\$7,920				\$396	\$792	\$2,376	\$3,960	\$396		\$7,920	\$0
83	Mill Creek 1 - Escalation	\$52,077		\$0	\$1,017	\$7,131	\$21,000	\$9,744	\$12,340	\$846		\$52,077	\$0
84	Total Mill Creek 1	<b>\$283,407</b>		<b>\$0</b>	<b>\$9,531</b>	<b>\$50,549</b>	<b>\$120,617</b>	<b>\$47,331</b>	<b>\$52,197</b>	<b>\$3,182</b>	<b>\$0</b>	<b>\$283,407</b>	<b>\$0</b>
85													
86	Mill Creek 2 - FGD Upgrade	\$41,250			\$10,313	\$28,875	\$2,063					\$41,250	\$0
87	Mill Creek 2 - SCR	\$97,020			\$2,911	\$27,166	\$29,106	\$35,897	\$1,940			\$97,020	\$0
88	Mill Creek 2 - Baghouse	\$80,850		\$8,085	\$28,298	\$40,425	\$4,043					\$80,850	\$0
89	Mill Creek 2 - Electrostatic Precipitator	\$33,000		\$3,300	\$11,550	\$16,500	\$1,650					\$33,000	\$0
90	Mill Creek 2 - PAC Injection	\$4,290		\$429	\$1,502	\$2,360						\$4,290	\$0
91	Mill Creek 2 - SAM Mitigation	\$7,920			\$396	\$792	\$2,376	\$3,960	\$396			\$7,920	\$0
92	Mill Creek 2 - Escalation	\$45,866		\$903	\$6,566	\$19,070	\$8,271	\$10,332	\$723	\$0		\$45,866	\$0
93	Total Mill Creek 2	<b>\$310,196</b>		<b>\$12,717</b>	<b>\$61,534</b>	<b>\$135,188</b>	<b>\$47,508</b>	<b>\$50,190</b>	<b>\$3,060</b>	<b>\$0</b>	<b>\$0</b>	<b>\$310,196</b>	<b>\$0</b>
94													
97	Mill Creek 3 - FGD (U4 update and tie in)	\$63,750					\$47,813	\$15,938				\$63,750	\$0
98	Mill Creek 3 - FGD (Unit 3 Removal)	\$25,500					\$6,375	\$19,125				\$25,500	\$0
99	Mill Creek 3 - Baghouse	\$104,125			\$2,083	\$31,238	\$39,568	\$31,238				\$104,125	\$0
100	Mill Creek 3 - PAC Injection	\$5,525			\$111	\$1,658	\$2,100	\$1,658				\$5,525	\$0
101	Mill Creek 3 - Escalation	\$43,488		\$0	\$262	\$5,402	\$20,206	\$17,617	\$0			\$43,488	\$0
102	Total Mill Creek 3	<b>\$242,388</b>		<b>\$0</b>	<b>\$2,455</b>	<b>\$38,297</b>	<b>\$116,061</b>	<b>\$85,575</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$242,388</b>	<b>\$0</b>
103													
104	Mill Creek 4 - FGD	\$236,250		\$18,900	\$80,325	\$89,775	\$47,250					\$236,250	\$0
105	Mill Creek 4 - SCR Upgrade	\$5,250		\$4,200	\$1,050							\$5,250	\$0
106	Mill Creek 4 - Baghouse	\$131,250		\$5,250	\$45,938	\$52,500	\$27,563					\$131,250	\$0
107	Mill Creek 4 - PAC Injection	\$6,825		\$273	\$2,389	\$2,730	\$1,433					\$6,825	\$0
108	Mill Creek 4 - Ammonia	\$10,500		\$5,250	\$5,250							\$10,500	\$0
109	Mill Creek 4 - Escalation	\$58,596		\$2,588	\$16,121	\$23,815	\$16,073	\$0				\$58,596	\$0
110	Total Mill Creek 4	<b>\$448,671</b>		<b>\$36,461</b>	<b>\$151,072</b>	<b>\$168,820</b>	<b>\$92,319</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$448,671</b>	<b>\$0</b>
111													
112	<b>Total Mill Creek</b>	<b>\$1,284,663</b>		<b>\$49,177</b>	<b>\$224,592</b>	<b>\$392,854</b>	<b>\$376,505</b>	<b>\$183,095</b>	<b>\$55,257</b>	<b>\$3,182</b>	<b>\$0</b>	<b>\$1,284,663</b>	<b>\$0</b>
113													
114	<b>Trimble</b>												
115	Trimble 1 - Baghouse	\$128,000				\$12,800	\$44,800	\$64,000	\$6,400			\$128,000	\$0
116	Trimble 1 - PAC Injection	\$6,451					\$3,226	\$3,226				\$6,451	\$0
117	Trimble 1 - Escalation	\$31,635		\$0	\$0	\$2,102	\$10,124	\$17,427	\$1,981			\$31,635	\$0
118	Total Trimble 1	<b>\$166,086</b>		<b>\$0</b>	<b>\$0</b>	<b>\$14,902</b>	<b>\$58,149</b>	<b>\$84,653</b>	<b>\$8,381</b>	<b>\$0</b>	<b>\$0</b>	<b>\$166,086</b>	<b>\$0</b>
119													
120	<b>Total Trimble</b>	<b>\$166,086</b>		<b>\$0</b>	<b>\$0</b>	<b>\$14,902</b>	<b>\$58,149</b>	<b>\$84,653</b>	<b>\$8,381</b>	<b>\$0</b>	<b>\$0</b>	<b>\$166,086</b>	<b>\$0</b>
121													
122	<b>Total Environmental Compliance Air - Alternate Plan</b>	<b>\$2,722,961</b>		<b>\$76,733</b>	<b>\$377,241</b>	<b>\$670,080</b>	<b>\$803,294</b>	<b>\$647,111</b>	<b>\$145,319</b>	<b>\$3,182</b>	<b>\$0</b>	<b>\$2,722,961</b>	<b>\$0</b>
123													
124													
125	Scope	\$2,274,459											
126	Escalation	\$448,502											
127		<b>\$2,722,961</b>											
128													

	A	C	D	E	F	G	H	I	J	K	L	M	N
129													
130													
131													
132													
133													
134				3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%		
135				1	2	3	4	5	6	7	8		

---

**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**CC:** 168908 E.ON-AQC; Jackson, Audrey; Mooney, Mike (BOC 3); King, Michael L. (Mike); Harris, David K. (Dave); Wehrly, M. R.; Lucas, Kyle J.  
**Sent:** 10/8/2010 3:32:50 PM  
**Subject:** 168908.28.0000 101008 Monthly Project Progress Report  
**Attachments:** ArchiveInfo.htm

Eileen,

Please find attached the Monthly Project Progress Report for work completed in September.

Do not hesitate to call me if you have any questions at all.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

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The following attachments were archived from this message:

- EON Monthly Progress Report - Septemebr 2010.pdf



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**From:** Hillman, Timothy M.  
**To:** Betz, Alex; Wehrly, M. R.  
**CC:** Saunders, Eileen; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Sent:** 10/8/2010 3:41:13 PM  
**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

Thank you Alex. We will do so and get back to you.

Regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]  
**Sent:** Friday, October 08, 2010 2:19 PM  
**To:** Wehrly, M. R.  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

M.R.,

Attached is the updated spreadsheet for today. There is some confusion on the Unit 1 Plant Arrangement Drawings. If possible, please list the drawing numbers of the prints that are unreadable or the file names and I will look for better copies of those prints.

Also, please check the limestone analysis file I uploaded to see if that is the information you're looking for.

Thanks,

**Alex Betz**

(502) 933-6602 Office  
(502) 217-2286 Fax  
(502) 817-3733 Cell

---

**From:** Betz, Alex  
**Sent:** Thursday, October 07, 2010 3:18 PM  
**To:** 'Wehrly, M. R.'  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

M.R.,

Attached is the updated spreadsheet for today. A lot of information has been added. We are having trouble finding "Original/Operating performance data" for the Air Heaters. We do have actual operating data, but are not sure if that's what you're looking for. Please advise on that item.

The Excess O2 spreadsheet shows the actual data in 4 hour averages for the year to date. If you need more data, please let me know.

Thanks,

**Alex Betz**

(502) 933-6602 Office

(502) 217-2286 Fax

(502) 817-3733 Cell

---

**From:** Wehrly, M. R. [mailto:WehrlyMR@bv.com]

**Sent:** Wednesday, October 06, 2010 8:59 PM

**To:** Betz, Alex

**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.

**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

Alex,

Thanks for the update.

Send the study when you can. With the transformer nameplate pictures/drawings, we should be able to get started on the electrical review.

I've forwarded the structural steel study information on to Monty and if we think it will be useful, we'll try to get it from our storage.

M.R.

---

**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]

**Sent:** Wednesday, October 06, 2010 2:23 PM

**To:** Wehrly, M. R.

**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.

**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

M.R.,

I am in the process of getting you a copy of the study, but I doubt it will be to you by Friday.

The attached sheet shows everything that I've uploaded to the website. Notice that some of the items could not be found either because we don't measure them, can't find them, or they don't exist. For the MC3 FD Fan Curve and MC1 & MC2 ID Booster Fan Curves, please see the comments in the "Completed" column.

I did find a structural report on Unit 3 FGD from 1993 by B&V, but it does not look that helpful, especially since it's from 1993. The cover letter is attached which shows the B&V Project and File number for you to reference in the B&V files if you think it would be valuable.

Thanks,

**Alex Betz**

(502) 933-6602 Office

(502) 217-2286 Fax

(502) 817-3733 Cell

---

**From:** Wehrly, M. R. [mailto:WehrlyMR@bv.com]

**Sent:** Tuesday, October 05, 2010 10:22 PM

**To:** Betz, Alex

**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.

**Subject:** 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

Alex,

Thanks for finding this information.

Yes we can still use SKM although we have a newer version and we'd have to update the data anyway.

Our Ann Arbor office told us they have the SKM model disks also, so we can get them from them if we need to.

Just a copy of the report would do it for now.

Thanks,

M.R.

---

**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]

**Sent:** Tuesday, October 05, 2010 12:16 PM

**To:** Wehrly, M. R.

**Cc:** Saunders, Eileen; Hillman, Timothy M.

**Subject:** B&V Short Circuit Study

M.R.,

I have located the short circuit study, but I also found out from the guy who has the study that he has a model in an SKM (PTW) format. I think I remember you mentioning that format during the conference call yesterday, but don't remember if you said you could use that or couldn't use that, so please let me know.

Thanks,

**Alex Betz**

Mechanical Engineer II

LG&E - Mill Creek Station

14660 Dixie Hwy

Louisville, KY 40272

(502) 933-6602 Office

(502) 217-2286 Fax

(502) 817-3733 Cell

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**From:** Saunders, Eileen  
**To:** Jackson, Audrey  
**Sent:** 10/8/2010 3:54:21 PM  
**Subject:** FW: 168908.21.0100 100924 - Project Instruction Memorandum (PIM)  
**Attachments:** ArchiveInfo.htm

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**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Friday, September 24, 2010 12:37 PM  
**To:** Saunders, Eileen  
**Cc:** 168908 E.ON-AQC; Jackson, Audrey; Mooney, Mike (BOC 3); Wehrly, M. R.; Lucas, Kyle J.; Hillman, Timothy M.  
**Subject:** 168908.21.0100 100924 - Project Instruction Memorandum (PIM)

Eileen,

As we discussed in our kickoff meeting, please find attached a copy of the Project Instruction Memorandum (PIM). The purpose of the PIM is to summarize the procedures and information that will be used by Black & Veatch in support of developing the Phase II Air Quality Control (AQC) Study for E.ON. It is our understanding that E.ON may duplicate this procedure and file system for your own record and document storage.

Please let us know if you have any questions.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

This message and its attachments have been archived. To retrieve, double click the message in the message list.

The following attachments were archived from this message:

- 168908 EON Phase II AQC Study PIM 092410.pdf

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**From:** Saunders, Eileen  
**To:** Inman, David  
**CC:** Ritchey, Stacy  
**Sent:** 10/11/2010 7:27:06 AM  
**Subject:** Fw: ECR compliance plan filings.  
**Attachments:** ArchiveInfo.htm

David,

Please print this spreadsheet (entire worksheet) for our meeting with Scott this morning.

Thanks,

Eileen

---

**From:** Conroy, Robert  
**To:** Straight, Scott; Saunders, Eileen  
**Cc:** Schroeder, Andrea; Bellar, Lonnie  
**Sent:** Thu Oct 07 17:23:21 2010  
**Subject:** FW: ECR compliance plan filings.

Scott/Eileen,

Have you been able to complete the information below?

**Robert M. Conroy**

*Director, Rates*

*E.ON U.S. Services Inc.*

(502) 627-3324 (phone)

(502) 627-3213 (fax)

(502) 741-4322 (mobile)

robert.conroy@eon-us.com

---

**From:** Conroy, Robert  
**Sent:** Thursday, September 30, 2010 2:25 PM  
**To:** Straight, Scott  
**Cc:** Saunders, Eileen; Schroeder, Andrea  
**Subject:** ECR compliance plan filings.

Scott,

Here is the table that I gave you before you left. As we discussed, the column labeled "ECR Filing" was a place holder based on when spending would occur and in no way is it accurate. What I need is an understanding of what documentation we have to support a CCN and ECR filing for each of the projects. In addition, since most of the projects will require a CCN, I need to know when "construction" as defined by the CCN will begin so that I can plan accordingly on when to file the application with the KPSC.

You had mentioned "Black and Veatch" study supporting the projects. Would it be possible for me to get access to review that document so I can understand what we have? Thanks for your help and let me know what time you

are available to discuss tomorrow.

<<Environmental Summay alternate scenario Rev4 - Pras (2).xlsx>>

**Robert M. Conroy**

*Director, Rates*

*E.ON U.S. Services Inc.*

(502) 627-3324 (phone)

(502) 627-3213 (fax)

(502) 741-4322 (mobile)

robert.conroy@eon-us.com

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The following attachments were archived from this message:

- Environmental Summay alternate scenario Rev4 - Pras (2).xlsx



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**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**CC:** 168908 E.ON-AQC; Jackson, Audrey; Crabtree, Jonathan D.; Mahabaleshwarkar, Anand; Wehrly, M. R.; Lausman, Rick L.; Hintz, Monty E.; Goodlet, Roger F.; Betz, Alex; Lucas, Kyle J.  
**Sent:** 10/11/2010 10:22:11 AM  
**Subject:** 168908.28.3000 101011 - Action Item List  
**Attachments:** ArchiveInfo.htm

Eileen

Attached is the updated action item list for our weekly Monday conference call.  
Regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

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- 168908 EON ACTION ITEM LIST.xls

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**From:** Saunders, Eileen  
**To:** 'Hillman, Timothy M.'  
**Sent:** 10/11/2010 2:54:29 PM  
**Subject:** RE: 168908.28.0000 101008 Monthly Project Progress Report

Thanks Tim!

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Friday, October 08, 2010 3:33 PM  
**To:** Saunders, Eileen  
**Cc:** 168908 E.ON-AQC; Jackson, Audrey; Mooney, Mike (BOC 3); King, Michael L. (Mike); Harris, David K. (Dave); Wehrly, M. R.; Lucas, Kyle J.  
**Subject:** 168908.28.0000 101008 Monthly Project Progress Report

Eileen,

Please find attached the Monthly Project Progress Report for work completed in September.

Do not hesitate to call me if you have any questions at all.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Saunders, Eileen  
**To:** Straight, Scott  
**Sent:** 10/11/2010 2:54:56 PM  
**Subject:** FW: 168908.28.0000 101008 Monthly Project Progress Report  
**Attachments:** ArchiveInfo.htm

Scott,

Here is a copy of the first Monthly Report I received from B&V.

Thanks,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Friday, October 08, 2010 3:33 PM  
**To:** Saunders, Eileen  
**Cc:** 168908 E.ON-AQC; Jackson, Audrey; Mooney, Mike (BOC 3); King, Michael L. (Mike); Harris, David K. (Dave); Wehrly, M. R.; Lucas, Kyle J.  
**Subject:** 168908.28.0000 101008 Monthly Project Progress Report

Eileen,

Please find attached the Monthly Project Progress Report for work completed in September.

Do not hesitate to call me if you have any questions at all.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

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The following attachments were archived from this message:

- EON Monthly Progress Report - Septemebr 2010.pdf

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**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**CC:** Crabtree, Jonathan D.; Wehrly, M. R.  
**Sent:** 10/12/2010 11:27:08 AM  
**Subject:** RE: PDM

Thanks Eileen. We will review your comments and respond or update as necessary.

Regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Tuesday, October 12, 2010 8:59 AM  
**To:** Hillman, Timothy M.  
**Subject:** PDM

Tim,

Here are my comments. I have also sent it to Alex but we can always incorporate his changes later.

Thanks,

Eileen

<<EON Mill Creek Project Design Memo (E.ON comments).doc>>

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**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**CC:** 168908 E.ON-AQC; Jackson, Audrey; Wehrly, M. R.; Lucas, Kyle J.; Mahabaleshwarkar, Anand; Lausman, Rick L.; Hintz, Monty E.; Goodlet, Roger F.; Crabtree, Jonathan D.  
**Sent:** 10/12/2010 1:52:54 PM  
**Subject:** 168908.14.1000 101012 Ghent - Draft Kickoff and Site Visit Meeting Minutes  
**Attachments:** ArchiveInfo.htm

Eileen,

Please find attached draft meeting minutes from the Ghent kickoff. Please provide E.ON's comments by next Tuesday, 10/19.  
Thanks,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: [hillmantm@bv.com](mailto:hillmantm@bv.com)

This message and its attachments have been archived. To retrieve, double click the message in the message list.

The following attachments were archived from this message:

- Draft Ghent Kickoff and Site Walkdown Meeting Minutes - 101210 with attachments.pdf



---

**From:** Saunders, Eileen  
**To:** Straight, Scott  
**CC:** Ritchey, Stacy  
**Sent:** 10/12/2010 4:33:09 PM  
**Subject:** Environmental Summay alternate scenario Rev4 - Pras (3) 10-13-10.xlsx  
**Attachments:** ArchiveInfo.htm

Scott,

Before I send this document to Robert. I wan't to discuss my thinking with you. Here are some general comments for you to consider while conducting your review:

- I added a Notice to Proceed (NTP) column. This column does not have to stay in the document but I thought it would be helpful for you to see that in general, I made the Start of Construction (SOC) 3-4 months before the NTP. My thinking is the SOC represents when we may award/commit dollars to an EPC or Engineering Firm.
- For Mill Creek, the early start date is based on the concept of potentially having to move outlying buildings (the annex) and possibly constructing a warehouse to make room for Mill Creek 4 FGD. We could begin that construction in early 2011 prior to any of the big EPC contracts being awarded.
- I did not make any changes to the ECR Filing column, the SAM Mitigation row or the financials.
- I approached this exercise from a station/program perspective, not technology. As you will see, I went with the earliest unit/structure scheduled for construction as my benchmark.
- As discussed, we do not have a corporate contracting strategy at this time so I used the worst case scenario of an EPC contract as my starting point.

Please take a look at these and I will call you in the morning for a quick discussion. I plan on forwarding these same assumption to Robert so feel free to edit the comments.

Thanks,

Eileen

This message and its attachments have been archived. To retrieve, double click the message in the message list.

The following attachments were archived from this message:

- Environmental Summay alternate scenario Rev4 - Pras (3) 10-13-10.xlsx

---

**From:** Saunders, Eileen  
**To:** Joyce, Jeff; Wright, Paul; Drake, Michael; Ayler, Danny; Bickers, Troy; Smith, Dave; Jones, Greg; Scott, Randy; Revlett, Gary  
**CC:** Hillman, Timothy M.  
**Sent:** 10/14/2010 11:18:02 AM  
**Subject:** FW: 168908.14.1000 101012 Ghent - Draft Kickoff and Site Visit Meeting Minutes  
**Attachments:** ArchiveInfo.htm

All,

Here are the notes from our meeting. Please let me know if you have any comments so I can respond to B&V.

Thanks,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Tuesday, October 12, 2010 1:53 PM  
**To:** Saunders, Eileen  
**Cc:** 168908 E.ON-AQC; Jackson, Audrey; Wehrly, M. R.; Lucas, Kyle J.; Mahabaleshwarkar, Anand; Lausman, Rick L.; Hintz, Monty E.; Goodlet, Roger F.; Crabtree, Jonathan D.  
**Subject:** 168908.14.1000 101012 Ghent - Draft Kickoff and Site Visit Meeting Minutes

Eileen,

Please find attached draft meeting minutes from the Ghent kickoff. Please provide E.ON's comments by next Tuesday, 10/19.  
Thanks,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

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The following attachments were archived from this message:

- Draft Ghent Kickoff and Site Walkdown Meeting Minutes - 101210 with attachments.pdf

---

**From:** Schroeder, Andrea  
**To:** Saunders, Eileen  
**Sent:** 10/14/2010 2:49:30 PM  
**Subject:** RE: Environmental Compliance-DRAFT

Eileen,

Thank you for sending the information. I have several questions as to interdependency of the different technologies on a specific unit and/or station and how that relates to construction and ECR timing. It may be easier to discuss than communicate in email. If you would please call me, we can discuss further.

Thanks,  
Andrea  
X3651

---

**From:** Saunders, Eileen  
**Sent:** Thursday, October 14, 2010 9:59 AM  
**To:** Schroeder, Andrea  
**Subject:** FW: Environmental Compliance-DRAFT

Andrea,

I noticed that Robert is out of the office so I thought I would send you a copy of the email I sent to him yesterday.

Thanks,

Eileen

---

**From:** Saunders, Eileen  
**Sent:** Wednesday, October 13, 2010 11:44 AM  
**To:** Conroy, Robert  
**Cc:** Straight, Scott; Ritchey, Stacy  
**Subject:** Environmental Compliance-DRAFT

Robert,

Scott and I conference this morning regarding the enclosed spreadsheet. Here are some general comments for you to consider while conducting your review:

- For the most part, we approached each station as a program. Mill Creek is slightly different due to the variety of work that is planned for the station.
- The start dates for construction are based on the earliest unit to be installed.
- For Mill Creek, the FGD upgrades on Units 1, 2, 3 and SCR upgrades on Unit 4 are tied to the same construction dates. All MC Baghouses, PAC Injection Systems and Unit 3 Removal dates are linked together. Lastly, all new MC SCR's are tied to the same date.
- I did not make any changes to the ECR Filing column, the SAM Mitigation row or the financials.
- As discussed, we do not have a corporate contracting strategy at this time so I used the worst case scenario of an EPC contract as my starting point. Additionally, these construction dates are based on schedules provided by B&V during their Phase I Study. That study is not representative of Level I Engineering.

Please let me know if you would like to arrange a conference call to discuss the information provided.

Thanks,

Eileen

<< File: Environmental Summay alternate scenario Rev4 - Pras (4) 10-13-10.xlsx >>

---

**From:** Saunders, Eileen  
**To:** Schroeder, Andrea  
**Sent:** 10/14/2010 3:03:53 PM  
**Subject:** RE: Environmental Compliance-DRAFT

Hi Andrea,

I am tied up at Ghent this afternoon. Can we conference in the morning? I can call your desk at 8:30 am or later. I have morning meetings at the plant prior to that time. Let me know and I will send a quick meeting notice.

Thanks,

Eileen

---

**From:** Schroeder, Andrea  
**Sent:** Thursday, October 14, 2010 2:50 PM  
**To:** Saunders, Eileen  
**Subject:** RE: Environmental Compliance-DRAFT

Eileen,

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Thanks,  
Andrea  
X3651

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**From:** Saunders, Eileen  
**Sent:** Thursday, October 14, 2010 9:59 AM  
**To:** Schroeder, Andrea  
**Subject:** FW: Environmental Compliance-DRAFT

Andrea,

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Thanks,

Eileen

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**Sent:** Wednesday, October 13, 2010 11:44 AM  
**To:** Conroy, Robert  
**Cc:** Straight, Scott; Ritchey, Stacy  
**Subject:** Environmental Compliance-DRAFT

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while conducting your review:

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Please let me know if you would like to arrange a conference call to discuss the information provided.

Thanks,

Eileen

<< File: Environmental Summay alternate scenario Rev4 - Pras (4) 10-13-10.xlsx >>



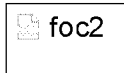
---

**From:** Drake, Michael  
**To:** Saunders, Eileen  
**Sent:** 10/14/2010 3:09:41 PM  
**Subject:** RE: 168908.14.1000 101012 Ghent - Draft Kickoff and Site Visit Meeting Minutes  
**Attachments:** ArchiveInfo.htm

You forgot about flying monkeys... or did I just dream that part? I was not all there that day!

Best Regards,

*Michael Drake*



**P** Please consider the environment  
before printing this e-mail

---

**From:** Saunders, Eileen  
**Sent:** Thursday, October 14, 2010 11:18 AM  
**To:** Joyce, Jeff; Wright, Paul; Drake, Michael; Ayler, Danny; Bickers, Troy; Smith, Dave; Jones, Greg; Scott, Randy; Revlett, Gary  
**Cc:** Hillman, Timothy M.  
**Subject:** FW: 168908.14.1000 101012 Ghent - Draft Kickoff and Site Visit Meeting Minutes

All,

Here are the notes from our meeting. Please let me know if you have any comments so I can respond to B&V.

Thanks,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Tuesday, October 12, 2010 1:53 PM  
**To:** Saunders, Eileen  
**Cc:** 168908 E.ON-AQC; Jackson, Audrey; Wehrly, M. R.; Lucas, Kyle J.; Mahabaleshwarkar, Anand; Lausman, Rick L.; Hintz, Monty E.; Goodlet, Roger F.; Crabtree, Jonathan D.  
**Subject:** 168908.14.1000 101012 Ghent - Draft Kickoff and Site Visit Meeting Minutes

Eileen,

Please find attached draft meeting minutes from the Ghent kickoff. Please provide E.ON's comments by next Tuesday, 10/19.  
Thanks,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

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- image003.jpg

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**From:** Saunders, Eileen  
**To:** Schroeder, Andrea  
**Sent:** 10/15/2010 9:40:35 AM  
**Subject:** FW: 168908.14.4000 101004 - E.ON MC & Ghent Regulatory Briefing  
**Attachments:** ArchiveInfo.htm

---

**From:** Revlett, Gary  
**Sent:** Wednesday, October 06, 2010 7:09 AM  
**To:** 'Lucas, Kyle J.'  
**Cc:** Hillman, Timothy M.; Wehrly, M. R.; Lawson, Stacy J.; 168908 E.ON-AQC; Jackson, Audrey; Saunders, Eileen  
**Subject:** RE: 168908.14.4000 101004 - E.ON MC & Ghent Regulatory Briefing

Hi Kyle,

Attached to this email is a copy of the Ghent PowerPoint presentation that I will use at Ghent's Phase II Air Quality Control Study Kickoff Meeting. The first part of the Ghent presentation is the same as used at Mill Creek meeting to described the regulatory drivers. I have also included the Mill Creek specific environmental requirements and information on CATR.

Gary

---

**From:** Lucas, Kyle J. [mailto:LucasKJ@bv.com]  
**Sent:** Monday, October 04, 2010 5:43 PM  
**To:** Revlett, Gary  
**Cc:** Hillman, Timothy M.; Wehrly, M. R.; Lawson, Stacy J.; 168908 E.ON-AQC; Jackson, Audrey; Saunders, Eileen  
**Subject:** 168908.14.4000 101004 - E.ON MC & Ghent Regulatory Briefing

Gary,  
For our project records we would like to obtain a copy of your PowerPoint presentation summarizing the regulatory drivers for the Mill Creek plant (from 9/15/10). Likewise, we would like to get an electronic copy of this week's presentation at Ghent.

Thanks for your assistance,

Regards,  
Kyle

**Kyle Lucas | Environmental Permitting Manager**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-9062 | Fax: (913) 458-9062  
Email: [lucaskj@bv.com](mailto:lucaskj@bv.com)

---

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The following attachments were archived from this message:

- Revlett - Upcoming Environmental Air Regulations (Ghent).pptx

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**From:** Saunders, Eileen  
**To:** Billiter, Delbert  
**Sent:** 10/18/2010 8:29:12 AM  
**Subject:** FW: 168908.41.0100 100929 Mill Creek, Ghent and Brown Coal Fuel Question  
**Attachments:** ArchiveInfo.htm

Delbert,

I have a conference call on the Environmental Compliance Project with B&V this afternoon. Can you comment on the questions below? My thought is that they should use the "future" coal box to ensure continuity within the two studies. I need to confirm with you that the "future" coal box information is correct.

Thanks,

Eileen

---

**From:** Saunders, Eileen  
**Sent:** Thursday, September 30, 2010 3:19 PM  
**To:** Billiter, Delbert  
**Subject:** FW: 168908.41.0100 100929 Mill Creek, Ghent and Brown Coal Fuel Question

Hi Delbert,

I am now assigned to the Phase 2 portion of the Environmental Compliance work with Black and Veatch. Please take a look at the questions below. Essentially, they are asking which would be the best fuel design basis to use during the next phase of study/engineering.

Please let me know your thoughts as soon as possible. As usual, I appreciate your help on this issue.

Thanks,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Wednesday, September 29, 2010 5:25 PM  
**To:** Saunders, Eileen  
**Cc:** Jackson, Audrey; 168908 E.ON-AQC; Crabtree, Jonathan D.; Wehrly, M. R.; Lucas, Kyle J.; Mehta, Pratik D.; Mahabaleshwarkar, Anand  
**Subject:** 168908.41.0100 100929 Mill Creek, Ghent and Brown Coal Fuel Question

Eileen,

During the Phase I work, E.ON initially provided coal analysis data (included in the spreadsheet below) as the typical or "Current Coal" for Mill Creek. Coal data for Ghent and Brown were not initially provided.

Later during the course of the Phase I work, we were asked to use a different fuel (a "Future Coal", included in the spreadsheet below) for the Phase I work for Mill Creek, as well as for Ghent and Brown.

Accordingly, the Phase I study was conducted using the "Future Coal" as a design basis for Mill Creek, Ghent and Brown.

The analyses for the Mill Creek "Current Coal" and "Future Coal" are as follows:

<b>Ultimate Coal Analysis (% by mass as received):</b>	<b><u>Current Coal</u></b>	<b><u>Future Coal</u></b>
Carbon	64	61.21
Hydrogen	4.5	4.28

Sulfur	3.5	3.36
Nitrogen	1.3	1.27
Oxygen	4.62	6.89
Chlorine	0.08	0
Ash	12	12
Moisture	10	11
Total	100.00	100.00
Higher Heating Value, Btu/lb (as received)	11,471.82	11,200
SO2 Inlet Loading, lb/Mbtu	6.10	6.00

Additionally, during the Aug 5-6 Mill Creek AQC Workshop, a 6.2 lb/Mbtu SO2 coal was referenced, which is higher than the 6.10 and 6.00 lb/Mbtu SO2 for the "Current Coal" and "Future Coal", respectively.

Our question is, which fuel analysis should we use as the coal fuel design basis for Mill Creek, Ghent, and Brown in the Phase II work?

Regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
 11401 Lamar Avenue  
 Overland Park, KS 66211  
 Phone: (913) 458-7928  
 Email: [hillmantm@bv.com](mailto:hillmantm@bv.com)

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The following attachments were archived from this message:

- Mill Creek.xls
- Environmental Compliance Proj quality data.xlsx

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**From:** Billiter, Delbert  
**To:** Saunders, Eileen  
**Sent:** 10/18/2010 9:01:32 AM  
**Subject:** RE: 168908.41.0100 100929 Mill Creek, Ghent and Brown Coal Fuel Question

Eileen,

I'm sorry--I thought I had already responded. I know I typed out a response but I must have not pushed the sent because it wasn't in my sent box.

The future coal is the correct numbers to use. These represent the average fuel so there will be coals that will be higher and lower than these numbers. The table that they put in the email has the incorrect number for chlorine. The number in the file I sent is 1600 ppm or .16%.

Again sorry for my error on the reply.

Delbert

Delbert Billiter  
E.ON US - Corporate Fuels  
220 West Main St.  
Louisville, KY 40202  
502-627-4668 -Office  
502-693-3030 -Cell  
delbert.billiter@eon-us.com  
502-627-3243 -Fax

---

**From:** Saunders, Eileen  
**Sent:** Monday, October 18, 2010 8:29 AM  
**To:** Billiter, Delbert  
**Subject:** FW: 168908.41.0100 100929 Mill Creek, Ghent and Brown Coal Fuel Question

Delbert,

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Thanks,

Eileen

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Please let me know your thoughts as soon as possible. As usual, I appreciate your help on this issue.

Thanks,



Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Wednesday, September 29, 2010 5:25 PM  
**To:** Saunders, Eileen  
**Cc:** Jackson, Audrey; 168908 E.ON-AQC; Crabtree, Jonathan D.; Wehrly, M. R.; Lucas, Kyle J.; Mehta, Pratik D.; Mahabaleshwarkar, Anand  
**Subject:** 168908.41.0100 100929 Mill Creek, Ghent and Brown Coal Fuel Question

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Sulfur	3.5	3.36
Nitrogen	1.3	1.27
Oxygen	4.62	6.89
Chlorine	0.08	0
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Total	100.00	100.00
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Our question is, which fuel analysis should we use as the coal fuel design basis for Mill Creek, Ghent, and Brown in the Phase II work?

Regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
 11401 Lamar Avenue  
 Overland Park, KS 66211  
 Phone: (913) 458-7928  
 Email: hillmantm@bv.com

---

**From:** Saunders, Eileen  
**To:** Billiter, Delbert  
**Sent:** 10/18/2010 9:02:46 AM  
**Subject:** RE: 168908.41.0100 100929 Mill Creek, Ghent and Brown Coal Fuel Question

Thanks so much!

Eileen

---

**From:** Billiter, Delbert  
**Sent:** Monday, October 18, 2010 9:02 AM  
**To:** Saunders, Eileen  
**Subject:** RE: 168908.41.0100 100929 Mill Creek, Ghent and Brown Coal Fuel Question

Eileen,

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SO <sub>2</sub> Inlet Loading, lb/Mbtu	6.10	6.00

Additionally, during the Aug 5-6 Mill Creek AQC Workshop, a 6.2 lb/Mbtu SO<sub>2</sub> coal was referenced, which is higher than the 6.10 and 6.00 lb/Mbtu SO<sub>2</sub> for the "Current Coal" and "Future Coal", respectively.

Our question is, which fuel analysis should we use as the coal fuel design basis for Mill Creek, Ghent, and Brown in the Phase II work?

Regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
 11401 Lamar Avenue  
 Overland Park, KS 66211  
 Phone: (913) 458-7928

Email: [hillmantm@bv.com](mailto:hillmantm@bv.com)

---

**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**CC:** 168908 E.ON-AQC; Jackson, Audrey; Crabtree, Jonathan D.; Wehrly, M. R.; Lucas, Kyle J.; Smith, Dave  
**Sent:** 10/18/2010 9:43:17 AM  
**Subject:** 168908.41.0100 101018 Ghent Engineering Data Request  
**Attachments:** ArchiveInfo.htm

Eileen,

Please find attached our Engineering Information Request with Priority List spreadsheet for Ghent. As we did on Mill Creek, we have spent a considerable amount of time researching, cross-referencing with data we already have, and narrowing this list to only those items essential to our work. I have also attached for your information the "Ghent Data Index", which is our current inventory of information that we already have on file for Ghent.

Additionally, as was added to Mill Creek's info request, attached are three word documents with a total of four tables that need to be filled-in for the Project Design Memorandum (PDM), which is scheduled to be sent for E.ON's review late next week. These tables are referenced within the information request. If you prefer, you can just provide the information necessary to fill in the tables and then we will fill them in.

Please don't hesitate to call if you have any questions. I request that you copy M.R. Wehrly and Jonathan Crabtree (copied on this email) on any questions related to this request.

Attachments included:

- Ghent Information Request.doc - Official Request
- Ghent Priority List for Info Req.xls - Info Request organized by priority due date
- Ghent Data Index.xls - Spreadsheet of B&V filed information
- Table 1\_02 Water Analysis.doc - Water Analysis Table for PDM
- Table 1\_11 and 1\_12 Electrical.doc - Electrical Design Data Tables for PDM
- Table 1\_14 - Load Model.doc - Recent Operating Information Table for PDM

Best Regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

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- Ghent Information Request .doc
- Ghent Priority List for Info Req 101510.xls
- Ghent Data Index.xls
- Table 1\_02 Water Analysis.doc
- Table 1\_11 and 1\_12 Electrical.doc
- Table 1\_14 Load Model.doc

---

**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**CC:** 168908 E.ON-AQC; Jackson, Audrey; Crabtree, Jonathan D.; Mahabaleshwarkar, Anand; Wehrly, M. R.; Lausman, Rick L.; Hintz, Monty E.; Goodlet, Roger F.; Betz, Alex; Lucas, Kyle J.; Smith, Dave  
**Sent:** 10/18/2010 9:57:04 AM  
**Subject:** 168908.28.3000 101018 - Action Item List  
**Attachments:** ArchiveInfo.htm

Eileen,

Attached is the updated action item list for our weekly Monday conference call.

Regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

This message and its attachments have been archived. To retrieve, double click the message in the message list.

The following attachments were archived from this message:

- 168908 EON ACTION ITEM LIST.xls



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**From:** Saunders, Eileen  
**To:** 'Hillman, Timothy M.'  
**Sent:** 10/18/2010 10:08:52 AM  
**Subject:** FW: 168908.41.0100 100929 Mill Creek, Ghent and Brown Coal Fuel Question

Hi Tim,

Here is the fuels answer.

Thanks,

Eileen

---

**From:** Billiter, Delbert  
**Sent:** Monday, October 18, 2010 9:02 AM  
**To:** Saunders, Eileen  
**Subject:** RE: 168908.41.0100 100929 Mill Creek, Ghent and Brown Coal Fuel Question

Eileen,

I'm sorry--I thought I had already responded. I know I typed out a response but I must have not pushed the sent because it wasn't in my sent box.

The future coal is the correct numbers to use. These represent the average fuel so there will be coals that will be higher and lower than these numbers. The table that they put in the email has the incorrect number for chlorine. The number in the file I sent is 1600 ppm or .16%.

Again sorry for my error on the reply.  
Delbert

Delbert Billiter  
E.ON US - Corporate Fuels  
220 West Main St.  
Louisville, KY 40202  
502-627-4668 -Office  
502-693-3030 -Cell  
delbert.billiter@eon-us.com  
502-627-3243 -Fax

---

**From:** Saunders, Eileen  
**Sent:** Monday, October 18, 2010 8:29 AM  
**To:** Billiter, Delbert  
**Subject:** FW: 168908.41.0100 100929 Mill Creek, Ghent and Brown Coal Fuel Question

Delbert,

I have a conference call on the Environmental Compliance Project with B&V this afternoon. Can you comment on the questions below? My thought is that they should use the "future" coal box to ensure continuity within the two studies. I need to confirm with you that the "future" coal box information is correct.

Thanks,

Eileen

---

**From:** Saunders, Eileen  
**Sent:** Thursday, September 30, 2010 3:19 PM

**To:** Billiter, Delbert

**Subject:** FW: 168908.41.0100 100929 Mill Creek, Ghent and Brown Coal Fuel Question

Hi Delbert,

I am now assigned to the Phase 2 portion of the Environmental Compliance work with Black and Veatch. Please take a look at the questions below. Essentially, they are asking which would be the best fuel design basis to use during the next phase of study/engineering.

Please let me know your thoughts as soon as possible. As usual, I appreciate your help on this issue.

Thanks,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]

**Sent:** Wednesday, September 29, 2010 5:25 PM

**To:** Saunders, Eileen

**Cc:** Jackson, Audrey; 168908 E.ON-AQC; Crabtree, Jonathan D.; Wehrly, M. R.; Lucas, Kyle J.; Mehta, Pratik D.; Mahabaleshwarkar, Anand

**Subject:** 168908.41.0100 100929 Mill Creek, Ghent and Brown Coal Fuel Question

Eileen,

During the Phase I work, E.ON initially provided coal analysis data (included in the spreadsheet below) as the typical or "Current Coal" for Mill Creek. Coal data for Ghent and Brown were not initially provided.

Later during the course of the Phase I work, we were asked to use a different fuel (a "Future Coal", included in the spreadsheet below) for the Phase I work for Mill Creek, as well as for Ghent and Brown.

Accordingly, the Phase I study was conducted using the "Future Coal" as a design basis for Mill Creek, Ghent and Brown.

The analyses for the Mill Creek "Current Coal" and "Future Coal" are as follows:

<b>Ultimate Coal Analysis (% by mass as received):</b>	<b>Current Coal</b>	<b>Future Coal</b>
Carbon	64	61.21
Hydrogen	4.5	4.28
Sulfur	3.5	3.36
Nitrogen	1.3	1.27
Oxygen	4.62	6.89
Chlorine	0.08	0
Ash	12	12
Moisture	10	11
Total	100.00	100.00
Higher Heating Value, Btu/lb (as received)	11,471.82	11,200
SO2 Inlet Loading, lb/Mbtu	6.10	6.00

Additionally, during the Aug 5-6 Mill Creek AQC Workshop, a 6.2 lb/Mbtu SO2 coal was referenced, which is higher than the 6.10 and 6.00 lb/Mbtu SO2 for the "Current Coal" and "Future Coal", respectively.

Our question is, which fuel analysis should we use as the coal fuel design basis for Mill Creek, Ghent, and Brown in the Phase II work?

Regards,

**Tim Hillman | Project Manager**

**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: [hillmantm@bv.com](mailto:hillmantm@bv.com)

---

**From:** Saunders, Eileen  
**To:** 'Hillman, Timothy M.'  
**CC:** 168908 E.ON-AQC; Jackson, Audrey; Crabtree, Jonathan D.; Wehrly, M. R.; Lucas, Kyle J.; Smith, Dave  
**Sent:** 10/18/2010 10:13:05 AM  
**Subject:** RE: 168908.41.0100 101018 Ghent Engineering Data Request

Tim,

Thank you. I will follow up with Dave Smith to see if he has any questions.

Sincerely,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Monday, October 18, 2010 9:43 AM  
**To:** Saunders, Eileen  
**Cc:** 168908 E.ON-AQC; Jackson, Audrey; Crabtree, Jonathan D.; Wehrly, M. R.; Lucas, Kyle J.; Smith, Dave  
**Subject:** 168908.41.0100 101018 Ghent Engineering Data Request

Eileen,

Please find attached our Engineering Information Request with Priority List spreadsheet for Ghent. As we did on Mill Creek, we have spent a considerable amount of time researching, cross-referencing with data we already have, and narrowing this list to only those items essential to our work. I have also attached for your information the "Ghent Data Index", which is our current inventory of information that we already have on file for Ghent.

Additionally, as was added to Mill Creek's info request, attached are three word documents with a total of four tables that need to be filled-in for the Project Design Memorandum (PDM), which is scheduled to be sent for E.ON's review late next week. These tables are referenced within the information request. If you prefer, you can just provide the information necessary to fill in the tables and then we will fill them in.

Please don't hesitate to call if you have any questions. I request that you copy M.R. Wehrly and Jonathan Crabtree (copied on this email) on any questions related to this request.

Attachments included:

- Ghent Information Request.doc - Official Request
- Ghent Priority List for Info Req.xls - Info Request organized by priority due date
- Ghent Data Index.xls - Spreadsheet of B&V filed information
- Table 1\_02 Water Analysis.doc - Water Analysis Table for PDM
- Table 1\_11 and 1\_12 Electrical.doc - Electrical Design Data Tables for PDM
- Table 1\_14 - Load Model.doc - Recent Operating Information Table for PDM

Best Regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Saunders, Eileen  
**To:** Heath, Rosie  
**Sent:** 10/18/2010 1:26:41 PM  
**Subject:** Fw: 168908.28.3000 101018 - Action Item List  
**Attachments:** ArchiveInfo.htm

---

**From:** Hillman, Timothy M. <HillmanTM@bv.com>  
**To:** Saunders, Eileen  
**Cc:** 168908 E.ON-AQC <168908EONAQC@bv.com>; Jackson, Audrey; Crabtree, Jonathan D. <CrabtreeJD@bv.com>; Mahabaleshwarkar, Anand <MahabaleshwarkarA@bv.com>; Wehrly, M. R. <WehrlyMR@bv.com>; Lausman, Rick L. <LausmanRL@bv.com>; Hintz, Monty E. <HintzME@bv.com>; Goodlet, Roger F. <GoodletRF@bv.com>; Betz, Alex; Lucas, Kyle J. <LucasKJ@bv.com>; Smith, Dave  
**Sent:** Mon Oct 18 09:57:04 2010  
**Subject:** 168908.28.3000 101018 - Action Item List

Eileen,

Attached is the updated action item list for our weekly Monday conference call.

Regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
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**From:** Hillman, Timothy M.  
**To:** Smith, Dave  
**CC:** Crabtree, Jonathan D.; Wehrly, M. R.; Saunders, Eileen; Wright, Paul; Bickers, Troy; Yocum, James; Piening, Carla; Maki, Bill; Nix, Stephen; Drake, Michael  
**Sent:** 10/19/2010 3:30:38 PM  
**Subject:** RE: Clarification: Ghent Engineering Data Request

Thanks Dave. We'll take a look at your questions and get back to you.

Regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: [hillmantm@bv.com](mailto:hillmantm@bv.com)

---

**From:** Smith, Dave [<mailto:Dave.Smith@eon-us.com>]  
**Sent:** Tuesday, October 19, 2010 2:18 PM  
**To:** Hillman, Timothy M.  
**Cc:** Crabtree, Jonathan D.; Wehrly, M. R.; Saunders, Eileen; Wright, Paul; Bickers, Troy; Yocum, James; Piening, Carla; Maki, Bill; Nix, Stephen; Drake, Michael  
**Subject:** Clarification: Ghent Engineering Data Request

Tim:

We have gone through the list of data requested and we have a few questions or clarifications needed on some data so that we can make sure we give you what you need.

Based on the Priority List data request items:

1. Priority 1, Request #3 – Foundation drawing for existing AQS area for Unit 2 east of unit 2 boiler – could you please verify this is the correct area of the plant you need.
2. Priority 2, Request #5 – Tank foundations and underground piping in area of tanks west of shop area – could you please verify this is the correct area you need.
3. Priority 2, Request #2 - Provide DCS network or architecture drawings for each unit – could you clarify what you are asking for.
4. Priority 4, Request #4 – Steam coil air heaters original data sheets and general arrangement drawings – These units have hot water air coil preheaters (not steam); however, they do have steam coil injection air heaters for the SCRs. Which one do you need?
5. Priority 4, Request #7 – Provide plant access standards for roadway, specifically clearances required for the courtyard – Two points or questions: Are you asking for “maximum” heights and widths for carriers bringing large equipment on site so that we don’t hit anything or are you asking for minimum height and width requirements so that we can drive pant vehicles under the new equipment and not hit the new equipment? Also, access to the courtyard area is currently through a roll-up door in the maintenance shops. However, those shops would probably be demolished for these projects so we can probably disregard the roll-up door dimensions for access

dimensions?

6. Priority 3, Request #1 – CEM quarterly data for first and second qtr. – How much data do you want (hourly values, qtrly totals, all CEMs reported pollutants, etc.)?

FYI: I do have a phone number assigned to me now (below) at Ghent. However, for the next week or so the best way to get me is either by email or cell (502.640.4326) if you have any questions.

Thanks.

Dave

David A. Smith  
Power Production Environmental Supervisor  
Ghent Generating Station  
(502) 347-4145  
dave.smith@eon-us.com

---

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**From:** Crabtree, Jonathan D.  
**To:** Smith, Dave  
**CC:** Hillman, Timothy M.; Wehrly, M. R.; Saunders, Eileen; Wright, Paul; Bickers, Troy; Yocum, James; Piening, Carla; Maki, Bill; Nix, Stephen; Drake, Michael; 168908 E.ON-AQC  
**Sent:** 10/20/2010 8:51:36 AM  
**Subject:** RE: Clarification: Ghent Engineering Data Request  
**Attachments:** ArchiveInfo.htm

Dave,

Please find responses in red below for each of your questions. Let us know if there is anything else we can clarify.

Thanks,

***Jonathan D. Crabtree***

Black & Veatch Corporation  
11401 Lamar Avenue  
Overland Park, KS 66211 USA  
\* CrabtreeJD@bv.com  
(913) 458-2403

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---

**From:** Smith, Dave [mailto:Dave.Smith@eon-us.com]  
**Sent:** Tuesday, October 19, 2010 2:18 PM  
**To:** Hillman, Timothy M.  
**Cc:** Crabtree, Jonathan D.; Wehrly, M. R.; Saunders, Eileen; Wright, Paul; Bickers, Troy; Yocum, James; Piening, Carla; Maki, Bill; Nix, Stephen; Drake, Michael  
**Subject:** Clarification: Ghent Engineering Data Request

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2. Priority 2, Request #5 – Tank foundations and underground piping in area of tanks west of shop area – could you please verify this is the correct area you need. Again, the directions were mixed up. Please provide information on the tanks south of the shop area. We are trying to identify obstructions that we need to avoid for the new Unit 3 baghouse structure and would like to know where the tanks and any undergrounds lie in relation to the south end of the shop area/new baghouse. We apologize for the confusion on the directions.
3. Priority 2, Request #2 - Provide DCS network or architecture drawings for each unit – could you clarify what you are asking for. Please provide drawing(s) similar to the attached DCS network topology drawing that Mill Creek provided. We will need one for each unit and/or one for the entire plant.
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6. Priority 3, Request #1 – CEM quarterly data for first and second qtr. – How much data do you want (hourly values, qtrly totals, all CEMs reported pollutants, etc.)? Provide hourly values for all CEMs for the two quarters requested. This information will help engineers review current system operations and potentially apply this data moving forward. The quarterly reports sent to EPA (which should include the CEMs data, heat inputs, etc.) should be sufficient if it contains this information.

FYI: I do have a phone number assigned to me now (below) at Ghent. However, for the next week or so the best way to get me is either by email or cell (502.640.4326) if you have any questions.

Thanks.

Dave

David A. Smith  
Power Production Environmental Supervisor  
Ghent Generating Station  
(502) 347-4145  
dave.smith@eon-us.com

---

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- DCS network Topology.pptx

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**From:** Crabtree, Jonathan D.  
**To:** Smith, Dave; Hillman, Timothy M.  
**CC:** Wehrly, M. R.; Saunders, Eileen  
**Sent:** 10/20/2010 9:00:46 AM  
**Subject:** RE: Ghent data request

Dave,

Again, we apologize for the confusion. Although aeriels and site arrangements sometimes look similar, the unit orientation for Ghent is rotated counterclockwise 90 degrees from Mill Creek and the river is on the stack side instead of on the generator side. In the future, we will pay extra attention to this and be careful to avoid any more confusion.

Thanks,

**Jonathan D. Crabtree**

Black & Veatch Corporation  
11401 Lamar Avenue  
Overland Park, KS 66211 USA  
\* CrabtreeJD@bv.com  
(913) 458-2403

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---

**From:** Smith, Dave [mailto:Dave.Smith@eon-us.com]  
**Sent:** Tuesday, October 19, 2010 3:35 PM  
**To:** Hillman, Timothy M.  
**Cc:** Wehrly, M. R.; Crabtree, Jonathan D.; Saunders, Eileen  
**Subject:** Ghent data request

Tim:

Regarding locations of the areas to verify in my earlier email, just to clarify a little more on our question: we think B&V is confusing north, south, east and west for the plant; I believe this happened during an earlier study that was done.

Dave

David A. Smith  
Power Production Environmental Supervisor  
Ghent Generating Station  
(502) 347-4145  
dave.smith@eon-us.com

---

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---

**From:** Smith, Dave  
**To:** 'CrabtreeJD@bv.com'  
**CC:** 'HillmanTM@bv.com'; 'WehrlyMR@bv.com'; Saunders, Eileen; Wright, Paul; Bickers, Troy; Yocum, James; Piening, Carla; Maki, Bill; Nix, Stephen; Drake, Michael; '168908EONAQC@bv.com'  
**Sent:** 10/20/2010 9:26:41 AM  
**Subject:** Re: Clarification: Ghent Engineering Data Request

Jonathan:

Thanks, we'll go through them and let you know if we have any more questions.

Dave

---

**From:** Crabtree, Jonathan D. <CrabtreeJD@bv.com>  
**To:** Smith, Dave  
**Cc:** Hillman, Timothy M. <HillmanTM@bv.com>; Wehrly, M. R. <WehrlyMR@bv.com>; Saunders, Eileen; Wright, Paul; Bickers, Troy; Yocum, James; Piening, Carla; Maki, Bill; Nix, Stephen; Drake, Michael; 168908 E.ON-AQC <168908EONAQC@bv.com>  
**Sent:** Wed Oct 20 08:51:36 2010  
**Subject:** RE: Clarification: Ghent Engineering Data Request

Dave,

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Thanks,

***Jonathan D. Crabtree***

Black & Veatch Corporation  
 11401 Lamar Avenue  
 Overland Park, KS 66211 USA  
 \* CrabtreeJD@bv.com  
 ( 913) 458-2403

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---

**From:** Smith, Dave [mailto:Dave.Smith@eon-us.com]  
**Sent:** Tuesday, October 19, 2010 2:18 PM  
**To:** Hillman, Timothy M.  
**Cc:** Crabtree, Jonathan D.; Wehrly, M. R.; Saunders, Eileen; Wright, Paul; Bickers, Troy; Yocum, James; Piening, Carla; Maki, Bill; Nix, Stephen; Drake, Michael  
**Subject:** Clarification: Ghent Engineering Data Request

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FYI: I do have a phone number assigned to me now (below) at Ghent. However, for the next week or so the best way to get me is either by email or cell (502.640.4326) if you have any questions.

Thanks.

Dave

David A. Smith  
 Power Production Environmental Supervisor  
 Ghent Generating Station  
 (502) 347-4145  
 dave.smith@eon-us.com

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**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**CC:** Jackson, Audrey; 168908 E.ON-AQC; Wehrly, M. R.; Crabtree, Jonathan D.; Lucas, Kyle J.; Mahabaleshwarkar, Anand  
**Sent:** 10/21/2010 10:27:51 AM  
**Subject:** 168908.41.0803 101021 Mill Creek - Comparison Pros/Cons of NID System vs. CDS PowerPoint  
**Attachments:** ArchiveInfo.htm

Eileen,

During the Mill Creek kickoff meeting on September 15th, plant personnel requested a general comparison (pros and cons) of the NID system with a standard circulating dry scrubber (CDS). Therefore, in response to action item #11, please find subject attached for your review and consideration. We can also include this in the November 9th validation presentation if you desire.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

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- CDS vs NIDS.pdf



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**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**CC:** 168908 E.ON-AQC; Jackson, Audrey; Smith, Dave; Crabtree, Jonathan D.; Wehrly, M. R.; Lucas, Kyle J.  
**Sent:** 10/21/2010 5:19:42 PM  
**Subject:** 168908.22.1000 101021 - Ghent Project Design Memorandum (PDM)  
**Attachments:** ArchiveInfo.htm

Eileen,

As defined in our scope of work under Task 5, attached please find a copy of the Project Design Memorandum (PDM) for the Ghent Plant. As you are already aware from Mill Creek, the purpose of the PDM is to summarize and define the technical and functional requirements on which the Ghent Phase II AQC study will be based. The PDM is a dynamic document subject to change as new project information is made available, but B&V will control this document and will be responsible for updates and revisions.

This PDM document includes Ghent project specific information and was built upon the initial design basis prepared for the Phase I project; however, Phase II requires additional information. Thus, there are several tables that require specific input from E.ON. These tables were included with the Ghent Information Request, sent on 10/18/10. Please review the document and use the "track changes" feature of the Word software to include your comments. We would request comments from E.ON no later than Thursday 10/28/10.

Please let us know if you have any questions.

Regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

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- EON Ghent Project Design Memo.doc

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**From:** Saunders, Eileen  
**To:** 'Hillman, Timothy M.'  
**CC:** 168908 E.ON-AQC; Jackson, Audrey; Wehrly, M. R.; Lucas, Kyle J.; Mahabaleshwarkar, Anand; Lausman, Rick L.; Hintz, Monty E.; Goodlet, Roger F.; Crabtree, Jonathan D.  
**Sent:** 10/22/2010 7:35:56 AM  
**Subject:** RE: 168908.14.1000 101012 Ghent - Draft Kickoff and Site Visit Meeting Minutes

Tim,

The notes look fine with one exception: "James Yocun" should read "James Yocum".

Thanks,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Tuesday, October 12, 2010 1:53 PM  
**To:** Saunders, Eileen  
**Cc:** 168908 E.ON-AQC; Jackson, Audrey; Wehrly, M. R.; Lucas, Kyle J.; Mahabaleshwarkar, Anand; Lausman, Rick L.; Hintz, Monty E.; Goodlet, Roger F.; Crabtree, Jonathan D.  
**Subject:** 168908.14.1000 101012 Ghent - Draft Kickoff and Site Visit Meeting Minutes

Eileen,

Please find attached draft meeting minutes from the Ghent kickoff. Please provide E.ON's comments by next Tuesday, 10/19.  
Thanks,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**CC:** 168908 E.ON-AQC; Jackson, Audrey; Wehrly, M. R.; Lucas, Kyle J.; Mahabaleshwarkar, Anand; Lausman, Rick L.; Hintz, Monty E.; Goodlet, Roger F.; Crabtree, Jonathan D.  
**Sent:** 10/22/2010 8:21:38 AM  
**Subject:** RE: 168908.14.1000 101012 Ghent - Draft Kickoff and Site Visit Meeting Minutes

Thanks Eileen,

We will revise and issue as final.

Regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Friday, October 22, 2010 6:36 AM  
**To:** Hillman, Timothy M.  
**Cc:** 168908 E.ON-AQC; Jackson, Audrey; Wehrly, M. R.; Lucas, Kyle J.; Mahabaleshwarkar, Anand; Lausman, Rick L.; Hintz, Monty E.; Goodlet, Roger F.; Crabtree, Jonathan D.  
**Subject:** RE: 168908.14.1000 101012 Ghent - Draft Kickoff and Site Visit Meeting Minutes

Tim,

The notes look fine with one exception: "James Yocun" should read "James Yocum".

Thanks,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Tuesday, October 12, 2010 1:53 PM  
**To:** Saunders, Eileen  
**Cc:** 168908 E.ON-AQC; Jackson, Audrey; Wehrly, M. R.; Lucas, Kyle J.; Mahabaleshwarkar, Anand; Lausman, Rick L.; Hintz, Monty E.; Goodlet, Roger F.; Crabtree, Jonathan D.  
**Subject:** 168908.14.1000 101012 Ghent - Draft Kickoff and Site Visit Meeting Minutes

Eileen,

Please find attached draft meeting minutes from the Ghent kickoff. Please provide E.ON's comments by next Tuesday, 10/19.  
Thanks,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
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---

**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**Sent:** 10/22/2010 9:29:23 AM  
**Subject:** RE: FW: Updated: E.ON Phase II AQC Study - Weekly Conference Call

Eileen,

Let us know what works for Scott and we will try and accommodate. Even if its later next week.

Thanks,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Straight, Scott [<mailto:Scott.Straight@eon-us.com>]  
**Sent:** Friday, October 22, 2010 7:47 AM  
**To:** Hillman, Timothy M.  
**Subject:** Declined: FW: Updated: E.ON Phase II AQC Study - Weekly Conference Call  
**When:** Monday, November 01, 2010 1:00 PM-2:00 PM (GMT-06:00) Central Time (US & Canada).  
**Where:** Teleconference (P3A-W)

I have one meeting on this day and this meeting request is right on top of it. Please use the meeting planner in Outlook.

---

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---

**From:** Saunders, Eileen  
**To:** 'Hillman, Timothy M.'  
**Sent:** 10/22/2010 9:42:31 AM  
**Subject:** RE: FW: Updated: E.ON Phase II AQC Study - Weekly Conference Call

Monday the 1<sup>st</sup> works for him.

Thanks,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Friday, October 22, 2010 9:29 AM  
**To:** Saunders, Eileen  
**Subject:** RE: FW: Updated: E.ON Phase II AQC Study - Weekly Conference Call  
**Importance:** High

Eileen,

Let us know what works for Scott and we will try and accommodate. Even if its later next week.

Thanks,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

ott [mailto:Scott.Straight@eon-us.com]  
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thy M.  
ed: FW: Updated: E.ON Phase II AQC Study - Weekly Conference Call  
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---

**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**Sent:** 10/22/2010 9:58:30 AM  
**Subject:** RE: FW: Updated: E.ON Phase II AQC Study - Weekly Conference Call

Ok...thanks,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Friday, October 22, 2010 8:43 AM  
**To:** Hillman, Timothy M.  
**Subject:** RE: FW: Updated: E.ON Phase II AQC Study - Weekly Conference Call

Monday the 1<sup>st</sup> works for him.

Thanks,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Friday, October 22, 2010 9:29 AM  
**To:** Saunders, Eileen  
**Subject:** RE: FW: Updated: E.ON Phase II AQC Study - Weekly Conference Call  
**Importance:** High

Eileen,

Let us know what works for Scott and we will try and accommodate. Even if its later next week.

Thanks,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

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ber 22, 2010 7:47 AM  
thy M.  
ed: FW: Updated: E.ON Phase II AQC Study - Weekly Conference Call  
ovember 01, 2010 1:00 PM-2:00 PM (GMT-06:00) Central Time (US & Canada).  
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I have one meeting on this day and this meeting request is right on top of it. Please use the meeting planner in



Outlook.

---

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---

**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**CC:** 168908 E.ON-AQC; Jackson, Audrey; Wehrly, M. R.; Lucas, Kyle J.; Mahabaleshwarkar, Anand; Lausman, Rick L.; Hintz, Monty E.; Goodlet, Roger F.; Crabtree, Jonathan D.; Smith, Dave; Mehta, Pratik D.; Bayless, James W. III (Jim); Keltner, Erik J.; King, Michael L. (Mike)  
**Sent:** 10/22/2010 2:42:41 PM  
**Subject:** 168908.14.1000 101022 Ghent - Final Kickoff and Site Visit Meeting Minutes  
**Attachments:** ArchiveInfo.htm

Eileen,

Please find attached the final Ghent Kickoff meeting minutes. This final version incorporates E.ON's comment below, and picks up a few additional comments/clarifications from B&V team members.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Friday, October 22, 2010 6:36 AM  
**To:** Hillman, Timothy M.  
**Cc:** 168908 E.ON-AQC; Jackson, Audrey; Wehrly, M. R.; Lucas, Kyle J.; Mahabaleshwarkar, Anand; Lausman, Rick L.; Hintz, Monty E.; Goodlet, Roger F.; Crabtree, Jonathan D.  
**Subject:** RE: 168908.14.1000 101012 Ghent - Draft Kickoff and Site Visit Meeting Minutes

Tim,

The notes look fine with one exception: "James Yocun" should read "James Yocum".

Thanks,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Tuesday, October 12, 2010 1:53 PM  
**To:** Saunders, Eileen  
**Cc:** 168908 E.ON-AQC; Jackson, Audrey; Wehrly, M. R.; Lucas, Kyle J.; Mahabaleshwarkar, Anand; Lausman, Rick L.; Hintz, Monty E.; Goodlet, Roger F.; Crabtree, Jonathan D.  
**Subject:** 168908.14.1000 101012 Ghent - Draft Kickoff and Site Visit Meeting Minutes

Eileen,

Please find attached draft meeting minutes from the Ghent kickoff. Please provide E.ON's comments by next Tuesday, 10/19.  
Thanks,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
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This message and its attachments have been archived. To retrieve, double click the message in the message list.

The following attachments were archived from this message:

- Ghent Kickoff and Site Walkdown Meeting Minutes with Attachments - Final 102210.pdf

---

**From:** Saunders, Eileen  
**To:** Straight, Scott; Kirkland, Mike  
**CC:** Didelot, Joe; Buckner, Mike; Betz, Alex; 'Hillman, Timothy M.'  
**Sent:** 10/25/2010 2:08:17 PM  
**Subject:** FW: 168908.41.0803 101021 Mill Creek - Comparison Pros/Cons of NID System vs. CDS PowerPoint  
**Attachments:** ArchiveInfo.htm

Scott and Mike,

Enclosed, please find additional information regarding NID Systems as requested.

Thank you,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Thursday, October 21, 2010 10:28 AM  
**To:** Saunders, Eileen  
**Cc:** Jackson, Audrey; 168908 E.ON-AQC; Wehrly, M. R.; Crabtree, Jonathan D.; Lucas, Kyle J.; Mahabaleshwarkar, Anand  
**Subject:** 168908.41.0803 101021 Mill Creek - Comparison Pros/Cons of NID System vs. CDS PowerPoint

Eileen,

During the Mill Creek kickoff meeting on September 15th, plant personnel requested a general comparison (pros and cons) of the NID system with a standard circulating dry scrubber (CDS). Therefore, in response to action item #11, please find subject attached for your review and consideration. We can also include this in the November 9th validation presentation if you desire.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

This message and its attachments have been archived. To retrieve, double click the message in the message list.

The following attachments were archived from this message:

- CDS vs NIDS.pdf

---

**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**CC:** Smith, Dave; Bickers, Troy; Jackson, Audrey; Mahabaleshwarkar, Anand; Lausman, Rick L.; Hintz, Monty E.; Wehrly, M. R.; Crabtree, Jonathan D.; Lucas, Kyle J.; Goodlet, Roger F.  
**Sent:** 10/26/2010 12:53:06 PM  
**Subject:** RE: Ghent Unit 2 SCR Drawings

Thanks Eileen. We'll look for it.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Tuesday, October 26, 2010 11:48 AM  
**To:** Hillman, Timothy M.; Crabtree, Jonathan D.; Wehrly, M. R.  
**Cc:** Smith, Dave; Bickers, Troy; Jackson, Audrey  
**Subject:** Ghent Unit 2 SCR Drawings

All,

An overnight package has been shipped to Tim's attention with drawings for locations from the Ghent Unit 2 SCR Study conducted in 2008. Please let me know if you have any questions.

Thanks,

Eileen

---

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---

**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**CC:** Jackson, Audrey; 168908 E.ON-AQC; Wehrly, M. R.; Crabtree, Jonathan D.; Lucas, Kyle J.; Mehta, Pratik D.; Mahabaleshwarkar, Anand; Lausman, Rick L.; Goodlet, Roger F.; Ballard, Michael W; Hintz, Monty E.  
**Sent:** 10/27/2010 3:19:36 PM  
**Subject:** 168908.41.0803 101027 - Mill Creek U4 Alternative AQC Arrangement Sketches for Nov 1st Conference Call  
**Attachments:** ArchiveInfo.htm

Eileen,

In preparation for our Nov 1st conference call, please find attached sketches of the potential Mill Creek U4 AQC arrangements. The sketches include both NID and PJFF versions of an east-west configuration along the south side of U4, and a north-south configuration in the old thickener area.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com



This message and its attachments have been archived. To retrieve, double click the message in the message list.

The following attachments were archived from this message:

- MC U3-U4 NID Sketch.pdf
- MC U3-U4 NID Sketch Alt.pdf
- MC U3-U4 PJFF Sketch.pdf
- MC U3-U4 PJFF Sketch Alt.pdf

---

**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**CC:** Jackson, Audrey; 168908 E.ON-AQC; Wehrly, M. R.; Lucas, Kyle J.  
**Sent:** 10/27/2010 3:23:07 PM  
**Subject:** 168908.14.1000 101027 Draft Meeting Agendas for Mill Creek Validation and Brown Kickoff  
**Attachments:** ArchiveInfo.htm

Eileen,

Please find attached draft meeting agendas for the Mill Creek validation meeting on Nov 9th, and the Brown Kickoff meeting Nov 10-11. Please advise of any comments or edits. Also, for the Mill Creek validation meeting, we anticipate you will distribute the electronic validation report to the E.ON meeting attendees, as we have an agenda item (# IV) to review the report during the meeting.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

This message and its attachments have been archived. To retrieve, double click the message in the message list.

The following attachments were archived from this message:

- EON Mill Creek Validation Meeting Agenda.doc
- EON Brown Kickoff Meeting Agenda.doc

---

**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen; Crabtree, Jonathan D.; Betz, Alex  
**CC:** Wehrly, M. R.; 168908 E.ON-AQC  
**Sent:** 10/27/2010 5:32:20 PM  
**Subject:** RE: 168908. 41.0100 101012 Mill Creek Information Request from PDM

Eileen,  
I just forwarded your voice mail to Jonathan. We'll get back to you.

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Wednesday, October 27, 2010 4:29 PM  
**To:** Crabtree, Jonathan D.; Betz, Alex  
**Cc:** Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC  
**Subject:** RE: 168908. 41.0100 101012 Mill Creek Information Request from PDM

Jonathan,

I am working with Alex to complete Table 1-2 and I have a few clarifying questions. Would you please contact me at Ghent on 502-347-4023 sometime today or tomorrow morning? I also left Tim a voice mail detailing some of my questions.

Thanks,

Eileen

---

**From:** Crabtree, Jonathan D. [mailto:CrabtreeJD@bv.com]  
**Sent:** Tuesday, October 12, 2010 5:33 PM  
**To:** Betz, Alex  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC  
**Subject:** 168908. 41.0100 101012 Mill Creek Information Request from PDM

Alex,

As you may have recently seen, there are tables in the Mill Creek Project Design Memorandum (PDM) that were requested to be filled in or confirmed by E.ON. In response to Eileen's comments, we would like to add these fill-in tables from the PDM to the Information Request, which will hopefully clarify some of the existing requests.

Attached are the following four word documents:

Table 1-2 - Design Basis Water Analysis - This information was previously requested on the Information Request under "3. Plant Data g. Water analyses and supply information." This table is an example of the kind of information we are looking for and in what form it will be placed in the PDM. (PRIORITY LVL 4)

Table 1-4 - Limestone Properties - This information was previously requested on the Information Request under "3. Plant Data o. Need current limestone quality analysis." From Phase I of this project, we had information that filled out the "%Guaranteed" column but are still interested if you have information that can fill in the "Nominal" column or any of the values under "Bulk Density Design Basis". I reviewed the limestone quality you uploaded on i-backup and if you prefer those values could be used to fill in the first two rows under the "Nominal" column. (PRIORITY LVL 2)

Table 1-11 and 1-12 - Electrical Design Data and Electrical Equipment and System Voltages - This information could not be filled in based on previously supplied electrical information. If possible, it would be helpful if these values could be filled in and confirmed by someone on site or in the T&D group. (PRIORITY LVL 4)

Table 1-14 (mis-labeled in PDM as 1-11) - Load Model - Recent operating information will be helpful when performing economic analysis of the different equipment options. (PRIORITY LVL 4)

Feel free to fill out the tables in the attached word documents or provide the necessary data to fill in these tables, whichever is easier for you. These tables can be placed in i-Backup or emailed to us.

Let me know if you have any questions.

Thanks,

**Jonathan D. Crabtree**

Black & Veatch Corporation  
11401 Lamar Avenue  
Overland Park, KS 66211 USA  
\* CrabtreeJD@bv.com  
(913) 458-2403

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---

**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]  
**Sent:** Tuesday, October 12, 2010 3:12 PM  
**To:** Crabtree, Jonathan D.  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC  
**Subject:** RE: 168908. 41.0100 101011 Mill Creek Information Request

Jonathan,

Sorry about forgetting the attachment yesterday. It should be attached this time.

We had already found one drawing on Unit 2 that was requested, so I am uploading it today. We will mark that one as being complete and if you find otherwise, please let me know.

We do have percent volume CO2 at the stack and I am in the process of getting that data (should be tomorrow). I am planning to get the year-to-date data, if you need more, let me know.

I'm not positive I can find testing results in those areas, but I would say they probably have been done before. I will try to find any test results I can.

I will get an uncorrupted version of "MC 3 SCR General Arrangt Plan Section E-20.pdf" uploaded tomorrow.

What address, and to whose attention, should the B&V Short Circuit Study be sent?

Thanks,

**Alex Betz**

(502) 933-6602 Office  
(502) 217-2286 Fax  
(502) 817-3733 Cell

---

**From:** Crabtree, Jonathan D. [mailto:CrabtreeJD@bv.com]  
**Sent:** Monday, October 11, 2010 5:11 PM  
**To:** Betz, Alex  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC  
**Subject:** 168908. 41.0100 101011 Mill Creek Information Request

Alex,

Thanks for the update. I believe your attachment did not make it on there with your email. Feel free to resend it or wait until your next update.

Regarding the plant arrangements, if the ones we requested are Unit 2 drawings, we already have clear copies of those and you do not need to rescan them. Unless you have additional Unit 1 plant arrangement drawings, we will assume we have everything we need and we can close that item.

Additionally, in response to the "Not measured" items on the data request (air heater leakage, precipitator leakage, and stack gas outlet oxygen percent) please provide information regarding the following (if available):

- 1) Do you have measurements of percent volume CO<sub>2</sub> at the stack on any or all units?
- 2) Has the plant conducted any flue gas testing on any of the units at the air heater gas outlets and/or the cold-side ESPs? The type of information we would be looking for would again be percent volume O<sub>2</sub> and/or CO<sub>2</sub>.

Lastly, in the priority 2 folder, the "MC 3 SCR General Arrangt Plan Section E-20.pdf" appears to be corrupted and we are unable to open it. If possible, please send another copy.

Thanks for your help,

**Jonathan D. Crabtree**

Black & Veatch Corporation  
11401 Lamar Avenue  
Overland Park, KS 66211 USA  
\* CrabtreeJD@bv.com  
(913) 458-2403

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---

**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]  
**Sent:** Monday, October 11, 2010 2:59 PM  
**To:** Wehrly, M. R.  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** RE: 168908. 41.0143 101011 Mill Creek Information Request

M.R.,

Thanks for the feedback on these issues. I will get the AH info uploaded as soon as possible. We're looking for the prints you've listed below. We've found some, but they are not the latest revisions you've listed. Just for clarification, these prints you've listed are for Unit 2, not Unit 1.

Once again, the sheet is attached. There wasn't much that was added today, only 4 foundation prints under the Priority 2 folder.

Thanks,

**Alex Betz**

(502) 933-6602 Office  
(502) 217-2286 Fax  
(502) 817-3733 Cell

---

**From:** Wehrly, M. R. [mailto:WehrlyMR@bv.com]  
**Sent:** Monday, October 11, 2010 10:03 AM  
**To:** Betz, Alex  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** 168908. 41.0143 101011 Mill Creek Information Request

Alex,  
Sorry for any confusion on the Unit 1 Plant arrangements.

There are six Unit 1 PA drawings that just fuzz out to the point you can't read the characters when you blow them up to readable size. It may just be bad files or poor copies of good files. The six drawings are:

F-663-253-16, -16A, & 16B (drawings are actually numbered as F-663-253, shts 1 of 3, 2 of 3 & 3 of 3)  
F-663-254-12, -12A, & 12B (drawings are actually numbered as F-663-254, shts 1 of 3, 2 of 3 & 3 of 3)

Please do the best you can. If the originals are real light, they may never scan well.

I'll let you know if we need anything further on Limestone.

Thanks,  
M.R.

---

**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]  
**Sent:** Friday, October 08, 2010 2:19 PM  
**To:** Wehrly, M. R.  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

M.R.,

Attached is the updated spreadsheet for today. There is some confusion on the Unit 1 Plant Arrangement Drawings. If possible, please list the drawing numbers of the prints that are unreadable or the file names and I will look for better copies of those prints.

Also, please check the limestone analysis file I uploaded to see if that is the information you're looking for.

Thanks,

**Alex Betz**

(502) 933-6602 Office  
(502) 217-2286 Fax  
(502) 817-3733 Cell

---

**From:** Betz, Alex  
**Sent:** Thursday, October 07, 2010 3:18 PM  
**To:** 'Wehrly, M. R.'  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

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Thanks,

**Alex Betz**

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(502) 217-2286 Fax  
(502) 817-3733 Cell

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**From:** Wehrly, M. R. [mailto:WehrlyMR@bv.com]  
**Sent:** Wednesday, October 06, 2010 8:59 PM  
**To:** Betz, Alex  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

Alex,  
Thanks for the update.  
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I've forwarded the structural steel study information on to Monty and if we think it will be useful, we'll try to get it from our storage.  
M.R.

---

**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]  
**Sent:** Wednesday, October 06, 2010 2:23 PM  
**To:** Wehrly, M. R.  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

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I did find a structural report on Unit 3 FGD from 1993 by B&V, but it does not look that helpful, especially since it's from 1993. The cover letter is attached which shows the B&V Project and File number for you to reference in the B&V files if you think it would be valuable.

Thanks,

**Alex Betz**

(502) 933-6602 Office  
(502) 217-2286 Fax  
(502) 817-3733 Cell

---

**From:** Wehrly, M. R. [mailto:WehrlyMR@bv.com]  
**Sent:** Tuesday, October 05, 2010 10:22 PM  
**To:** Betz, Alex  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

Alex,  
Thanks for finding this information.  
Yes we can still use SKM although we have a newer version and we'd have to update the data anyway.



Our Ann Arbor office told us they have the SKM model disks also, so we can get them from them if we need to.  
Just a copy of the report would do it for now.

Thanks,  
M.R.

---

**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]  
**Sent:** Tuesday, October 05, 2010 12:16 PM  
**To:** Wehrly, M. R.  
**Cc:** Saunders, Eileen; Hillman, Timothy M.  
**Subject:** B&V Short Circuit Study

M.R.,

I have located the short circuit study, but I also found out from the guy who has the study that he has a model in an SKM (PTW) format. I think I remember you mentioning that format during the conference call yesterday, but don't remember if you said you could use that or couldn't use that, so please let me know.

Thanks,

**Alex Betz**

Mechanical Engineer II  
LG&E - Mill Creek Station  
14660 Dixie Hwy  
Louisville, KY 40272  
(502) 933-6602 Office  
(502) 217-2286 Fax  
(502) 817-3733 Cell

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---

**From:** Saunders, Eileen  
**To:** 'Hillman, Timothy M.'  
**Sent:** 10/27/2010 5:52:43 PM  
**Subject:** RE: 168908. 41.0100 101012 Mill Creek Information Request from PDM

Thank you.

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Wednesday, October 27, 2010 5:32 PM  
**To:** Saunders, Eileen; Crabtree, Jonathan D.; Betz, Alex  
**Cc:** Wehrly, M. R.; 168908 E.ON-AQC  
**Subject:** RE: 168908. 41.0100 101012 Mill Creek Information Request from PDM

Eileen,  
I just forwarded your voice mail to Jonathan. We'll get back to you.

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Wednesday, October 27, 2010 4:29 PM  
**To:** Crabtree, Jonathan D.; Betz, Alex  
**Cc:** Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC  
**Subject:** RE: 168908. 41.0100 101012 Mill Creek Information Request from PDM

Jonathan,

I am working with Alex to complete Table 1-2 and I have a few clarifying questions. Would you please contact me at Ghent on 502-347-4023 sometime today or tomorrow morning? I also left Tim a voice mail detailing some of my questions.

Thanks,

Eileen

---

**From:** Crabtree, Jonathan D. [mailto:CrabtreeJD@bv.com]  
**Sent:** Tuesday, October 12, 2010 5:33 PM  
**To:** Betz, Alex  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC  
**Subject:** 168908. 41.0100 101012 Mill Creek Information Request from PDM

Alex,

As you may have recently seen, there are tables in the Mill Creek Project Design Memorandum (PDM) that were requested to be filled in or confirmed by E.ON. In response to Eileen's comments, we would like to add these fill-in tables from the PDM to the Information Request, which will hopefully clarify some of the existing requests.

Attached are the following four word documents:

Table 1-2 - Design Basis Water Analysis - This information was previously requested on the Information Request under "3. Plant

Data g. Water analyses and supply information." This table is an example of the kind of information we are looking for and in what form it will be placed in the PDM. (PRIORITY LVL 4)

Table 1-4 - Limestone Properties - This information was previously requested on the Information Request under "3. Plant Data o. Need current limestone quality analysis." From Phase I of this project, we had information that filled out the "%Guaranteed" column but are still interested if you have information that can fill in the "Nominal" column or any of the values under "Bulk Density Design Basis". I reviewed the limestone quality you uploaded on i-backup and if you prefer those values could be used to fill in the first two rows under the "Nominal" column. (PRIORITY LVL 2)

Table 1-11 and 1-12 - Electrical Design Data and Electrical Equipment and System Voltages - This information could not be filled in based on previously supplied electrical information. If possible, it would be helpful if these values could be filled in and confirmed by someone on site or in the T&D group. (PRIORITY LVL 4)

Table 1-14 (misabeled in PDM as 1-11) - Load Model - Recent operating information will be helpful when performing economic analysis of the different equipment options. (PRIORITY LVL 4)

Feel free to fill out the tables in the attached word documents or provide the necessary data to fill in these tables, whichever is easier for you. These tables can be placed in i-Backup or emailed to us.

Let me know if you have any questions.

Thanks,

**Jonathan D. Crabtree**

Black & Veatch Corporation  
11401 Lamar Avenue  
Overland Park, KS 66211 USA  
\* CrabtreeJD@bv.com  
(913) 458-2403

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---

**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]  
**Sent:** Tuesday, October 12, 2010 3:12 PM  
**To:** Crabtree, Jonathan D.  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC  
**Subject:** RE: 168908. 41.0100 101011 Mill Creek Information Request

Jonathan,

Sorry about forgetting the attachment yesterday. It should be attached this time.

We had already found one drawing on Unit 2 that was requested, so I am uploading it today. We will mark that one as being complete and if you find otherwise, please let me know.

We do have percent volume CO2 at the stack and I am in the process of getting that data (should be tomorrow). I am planning to get the year-to-date data, if you need more, let me know.

I'm not positive I can find testing results in those areas, but I would say they probably have been done before. I will try to find any test results I can.

I will get an uncorrupted version of "MC 3 SCR General Arrangt Plan Section E-20.pdf" uploaded tomorrow.

What address, and to whose attention, should the B&V Short Circuit Study be sent?

Thanks,

**Alex Betz**

(502) 933-6602 Office  
(502) 217-2286 Fax

(502) 817-3733 Cell

---

**From:** Crabtree, Jonathan D. [mailto:CrabtreeJD@bv.com]  
**Sent:** Monday, October 11, 2010 5:11 PM  
**To:** Betz, Alex  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC  
**Subject:** 168908. 41.0100 101011 Mill Creek Information Request

Alex,

Thanks for the update. I believe your attachment did not make it on there with your email. Feel free to resend it or wait until your next update.

Regarding the plant arrangements, if the ones we requested are Unit 2 drawings, we already have clear copies of those and you do not need to rescan them. Unless you have additional Unit 1 plant arrangement drawings, we will assume we have everything we need and we can close that item.

Additionally, in response to the "Not measured" items on the data request (air heater leakage, precipitator leakage, and stack gas outlet oxygen percent) please provide information regarding the following (if available):

- 1) Do you have measurements of percent volume CO2 at the stack on any or all units?
- 2) Has the plant conducted any flue gas testing on any of the units at the air heater gas outlets and/or the cold-side ESPs? The type of information we would be looking for would again be percent volume O2 and/or CO2.

Lastly, in the priority 2 folder, the "MC 3 SCR General Arrangt Plan Section E-20.pdf" appears to be corrupted and we are unable to open it. If possible, please send another copy.

Thanks for your help,

**Jonathan D. Crabtree**

Black & Veatch Corporation  
 11401 Lamar Avenue  
 Overland Park, KS 66211 USA  
 \* CrabtreeJD@bv.com  
 ( 913) 458-2403

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---

**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]  
**Sent:** Monday, October 11, 2010 2:59 PM  
**To:** Wehrly, M. R.  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** RE: 168908. 41.0143 101011 Mill Creek Information Request

M.R.,

Thanks for the feedback on these issues. I will get the AH info uploaded as soon as possible. We're looking for the prints you've listed below. We've found some, but they are not the latest revisions you've listed. Just for clarification, these prints you've listed are for Unit 2, not Unit 1.

Once again, the sheet is attached. There wasn't much that was added today, only 4 foundation prints under the Priority 2 folder.

Thanks,

**Alex Betz**

(502) 933-6602 Office  
 (502) 217-2286 Fax

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---

**From:** Wehrly, M. R. [mailto:WehrlyMR@bv.com]  
**Sent:** Monday, October 11, 2010 10:03 AM  
**To:** Betz, Alex  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** 168908. 41.0143 101011 Mill Creek Information Request

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There are six Unit 1 PA drawings that just fuzz out to the point you can't read the characters when you blow them up to readable size. It may just be bad files or poor copies of good files. The six drawings are:

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I'll let you know if we need anything further on Limestone.

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(502) 817-3733 Cell

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**To:** Betz, Alex  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.

**Subject:** 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

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M.R.

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**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]  
**Sent:** Tuesday, October 05, 2010 12:16 PM  
**To:** Wehrly, M. R.  
**Cc:** Saunders, Eileen; Hillman, Timothy M.  
**Subject:** B&V Short Circuit Study

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Thanks,

**Alex Betz**

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---

**From:** Saunders, Eileen  
**To:** Billiter, Delbert  
**CC:** Betz, Alex  
**Sent:** 10/28/2010 8:44:16 AM  
**Subject:** FW: 168908. 41.0100 101027 Mill Creek Information Request - PDM Tables  
**Attachments:** ArchiveInfo.htm

Delbert,

Alex Betz and I have been working with B&V on the Mill Creek portion of the Phase II Environmental Compliance Study. The attached Excel Spreadsheet was provided to B&V during Phase I. Is it ok to use that original information for Phase II or should we update them on the word document (Table 1-4)?

Also, the Bulk Density numbers in the second part of Table 1-4 are standard numbers that B&V uses. Should we allow them to continue with those numbers or should do we have new inputs for them?

In addition to the two attachments, please see the emails below for further details of their request.

I would appreciate any guidance you can give us.

Thank you,

Eileen

---

**From:** Crabtree, Jonathan D. [mailto:CrabtreeJD@bv.com]  
**Sent:** Wednesday, October 27, 2010 7:01 PM  
**To:** Saunders, Eileen; Betz, Alex  
**Cc:** Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC  
**Subject:** 168908. 41.0100 101027 Mill Creek Information Request - PDM Tables

Eileen,

Since it is getting late in eastern time, I am responding by email. I listened to your voicemail that Tim forwarded me regarding Table 1-4: Limestone Properties. The response below will hopefully clarify any questions you had in regards to Table 1-4. Also, your email mentioned you had questions regarding Table 1-2. If so, please feel free to call me at your convenience tomorrow at 913-458-2403 or send me an email. I'll be in the office tomorrow from 8:30am - 6:30pm EST.

Table 1-4:

The top half of the table "Dry Basis, Percent by Weight" has two columns: "% Guaranteed" and "Nominal". I filled out the "% Guaranteed" column based on the attached spreadsheet provided during Phase I. In PDMs from past projects, we have had the "nominal" column for typical/expected values. The highlighted values are old values from a past PDM. If E.ON has numbers readily available to replace them, please update the table those values. Otherwise, we can just delete that half of the column for this phase of the project. Additionally, information that is shown as crossed out and highlighted are values that are typically included in our PDM table but have not yet been provided. If this information is available, please update the table or we will just leave them out for this phase of the project.

The bottom half of the table "Bulk Density Design basis" has only a "Nominal" column. The values highlighted are standard numbers that B&V uses for Limestone Bulk Density. If E.ON has their own values for these parameters, please update the table or else we will just use the standard numbers at this time.

Please let me know if you have any further questions. And as I mentioned before, if you would like to discuss another table or info request, please give me a call or send me an email.

Thanks,

**Jonathan D. Crabtree**

Black & Veatch Corporation  
11401 Lamar Avenue  
Overland Park, KS 66211 USA

\* CrabtreeJD@bv.com  
 ( (913) 458-2403

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---

**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Wednesday, October 27, 2010 4:29 PM  
**To:** Crabtree, Jonathan D.; Betz, Alex  
**Cc:** Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC  
**Subject:** RE: 168908. 41.0100 101012 Mill Creek Information Request from PDM

Jonathan,

I am working with Alex to complete Table 1-2 and I have a few clarifying questions. Would you please contact me at Ghent on 502-347-4023 sometime today or tomorrow morning? I also left Tim a voice mail detailing some of my questions.

Thanks,

Eileen

---

**From:** Crabtree, Jonathan D. [mailto:CrabtreeJD@bv.com]  
**Sent:** Tuesday, October 12, 2010 5:33 PM  
**To:** Betz, Alex  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC  
**Subject:** 168908. 41.0100 101012 Mill Creek Information Request from PDM

Alex,

As you may have recently seen, there are tables in the Mill Creek Project Design Memorandum (PDM) that were requested to be filled in or confirmed by E.ON. In response to Eileen's comments, we would like to add these fill-in tables from the PDM to the Information Request, which will hopefully clarify some of the existing requests.

Attached are the following four word documents:

Table 1-2 - Design Basis Water Analysis - This information was previously requested on the Information Request under "3. Plant Data g. Water analyses and supply information." This table is an example of the kind of information we are looking for and in what form it will be placed in the PDM. (PRIORITY LVL 4)

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Feel free to fill out the tables in the attached word documents or provide the necessary data to fill in these tables, whichever is easier for you. These tables can be placed in i-Backup or emailed to us.

Let me know if you have any questions.

Thanks,

**Jonathan D. Crabtree**

Black & Veatch Corporation  
11401 Lamar Avenue  
Overland Park, KS 66211 USA  
\* CrabtreeJD@bv.com  
(913) 458-2403

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---

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**Sent:** Tuesday, October 12, 2010 3:12 PM  
**To:** Crabtree, Jonathan D.  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC  
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I'm not positive I can find testing results in those areas, but I would say they probably have been done before. I will try to find any test results I can.

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What address, and to whose attention, should the B&V Short Circuit Study be sent?

Thanks,

**Alex Betz**

(502) 933-6602 Office  
(502) 217-2286 Fax  
(502) 817-3733 Cell

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**Sent:** Monday, October 11, 2010 2:59 PM  
**To:** Wehrly, M. R.  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** RE: 168908. 41.0143 101011 Mill Creek Information Request

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Once again, the sheet is attached. There wasn't much that was added today, only 4 foundation prints under the Priority 2 folder.

Thanks,

**Alex Betz**

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**From:** Wehrly, M. R. [mailto:WehrlyMR@bv.com]  
**Sent:** Monday, October 11, 2010 10:03 AM  
**To:** Betz, Alex  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** 168908. 41.0143 101011 Mill Creek Information Request

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F-663-254-12, -12A, & 12B (drawings are actually numbered as F-663-254, shts 1 of 3, 2 of 3 & 3 of 3)

Please do the best you can. If the originals are real light, they may never scan well.

I'll let you know if we need anything further on Limestone.

Thanks,

M.R.

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**To:** Wehrly, M. R.  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

M.R.,

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Also, please check the limestone analysis file I uploaded to see if that is the information you're looking for.

Thanks,

**Alex Betz**

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**From:** Betz, Alex  
**Sent:** Thursday, October 07, 2010 3:18 PM  
**To:** 'Wehrly, M. R.'  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

M.R.,

Attached is the updated spreadsheet for today. A lot of information has been added. We are having trouble finding "Original/Operating performance data" for the Air Heaters. We do have actual operating data, but are not sure if that's what you're looking for. Please advise on that item.

The Excess O2 spreadsheet shows the actual data in 4 hour averages for the year to date. If you need more data, please let me know.

Thanks,

**Alex Betz**

(502) 933-6602 Office  
(502) 217-2286 Fax  
(502) 817-3733 Cell

---

**From:** Wehrly, M. R. [mailto:WehrlyMR@bv.com]  
**Sent:** Wednesday, October 06, 2010 8:59 PM  
**To:** Betz, Alex  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

Alex,

Thanks for the update.

Send the study when you can. With the transformer nameplate pictures/drawings, we should be able to get started on the electrical review.

I've forwarded the structural steel study information on to Monty and if we think it will be useful, we'll try to get it from our storage.

M.R.

---

**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]  
**Sent:** Wednesday, October 06, 2010 2:23 PM  
**To:** Wehrly, M. R.  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

M.R.,

I am in the process of getting you a copy of the study, but I doubt it will be to you by Friday.

The attached sheet shows everything that I've uploaded to the website. Notice that some of the items could not be found either because we don't measure them, can't find them, or they don't exist. For the MC3 FD Fan Curve and MC1 & MC2 ID Booster Fan Curves, please see the comments in the "Completed" column.

I did find a structural report on Unit 3 FGD from 1993 by B&V, but it does not look that helpful, especially since it's from 1993. The cover letter is attached which shows the B&V Project and File number for you to reference in the B&V files if you think it would be valuable.

Thanks,

**Alex Betz**

(502) 933-6602 Office  
(502) 217-2286 Fax  
(502) 817-3733 Cell

---

**From:** Wehrly, M. R. [mailto:WehrlyMR@bv.com]  
**Sent:** Tuesday, October 05, 2010 10:22 PM  
**To:** Betz, Alex  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

Alex,  
Thanks for finding this information.  
Yes we can still use SKM although we have a newer version and we'd have to update the data anyway.  
Our Ann Arbor office told us they have the SKM model disks also, so we can get them from them if we need to.  
Just a copy of the report would do it for now.

Thanks,  
M.R.

---

**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]  
**Sent:** Tuesday, October 05, 2010 12:16 PM  
**To:** Wehrly, M. R.  
**Cc:** Saunders, Eileen; Hillman, Timothy M.  
**Subject:** B&V Short Circuit Study

M.R.,

I have located the short circuit study, but I also found out from the guy who has the study that he has a model in an SKM (PTW) format. I think I remember you mentioning that format during the conference call yesterday, but don't remember if you said you could use that or couldn't use that, so please let me know.

Thanks,

**Alex Betz**

Mechanical Engineer II  
LG&E - Mill Creek Station  
14660 Dixie Hwy  
Louisville, KY 40272  
(502) 933-6602 Office  
(502) 217-2286 Fax  
(502) 817-3733 Cell

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This message and its attachments have been archived. To retrieve, double click the message in the message list.

The following attachments were archived from this message:

- Environmental Compliance Proj quality data.xlsx
- Table 1\_04 Limestone Props.doc

---

**From:** Billiter, Delbert  
**To:** Saunders, Eileen  
**CC:** Betz, Alex  
**Sent:** 10/28/2010 9:20:23 AM  
**Subject:** RE: 168908. 41.0100 101027 Mill Creek Information Request - PDM Tables

Eileen,

The original limestone quality parameters are the contract specs and what we can be assured of receiving. If you would like to go with the current delivered quality the CaCO<sub>3</sub> Y-T-D has been 93% and the MgCO<sub>3</sub> has been 3% that would leave 4% for total inerts. Actual surface moisture is less than 3%.

As far as the limestone density we have always used 109 pcf in any work we've done. I'm not sure what the 55 pcf for volumetric sizing represents.

Also, the maximum lump size is 1 ¼" not the listed ¾".

Hope this helps.

Delbert

Delbert Billiter  
E.ON US - Corporate Fuels  
220 West Main St.  
Louisville, KY 40202  
502-627-4668 -Office  
502-693-3030 -Cell  
delbert.billiter@eon-us.com  
502-627-3243 -Fax

---

**From:** Saunders, Eileen  
**Sent:** Thursday, October 28, 2010 8:44 AM  
**To:** Billiter, Delbert  
**Cc:** Betz, Alex  
**Subject:** FW: 168908. 41.0100 101027 Mill Creek Information Request - PDM Tables

Delbert,

Alex Betz and I have been working with B&V on the Mill Creek portion of the Phase II Environmental Compliance Study. The attached Excel Spreadsheet was provided to B&V during Phase I. Is it ok to use that original information for Phase II or should we update them on the word document (Table 1-4)?

Also, the Bulk Density numbers in the second part of Table 1-4 are standard numbers that B&V uses. Should we allow them to continue with those numbers or should do we have new inputs for them?

In addition to the two attachments, please see the emails below for further details of their request.

I would appreciate any guidance you can give us.

Thank you,

Eileen

---

**From:** Crabtree, Jonathan D. [mailto:CrabtreeJD@bv.com]  
**Sent:** Wednesday, October 27, 2010 7:01 PM  
**To:** Saunders, Eileen; Betz, Alex  
**Cc:** Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC

**Subject:** 168908. 41.0100 101027 Mill Creek Information Request - PDM Tables

Eileen,

Since it is getting late in eastern time, I am responding by email. I listened to your voicemail that Tim forwarded me regarding Table 1-4: Limestone Properties. The response below will hopefully clarify any questions you had in regards to Table 1-4. Also, your email mentioned you had questions regarding Table 1-2. If so, please feel free to call me at your convenience tomorrow at 913-458-2403 or send me an email. I'll be in the office tomorrow from 8:30am - 6:30pm EST.

Table 1-4:

The top half of the table "Dry Basis, Percent by Weight" has two columns: "% Guaranteed" and "Nominal". I filled out the "% Guaranteed" column based on the attached spreadsheet provided during Phase I. In PDMs from past projects, we have had the "nominal" column for typical/expected values. The highlighted values are old values from a past PDM. If E.ON has numbers readily available to replace them, please update the table those values. Otherwise, we can just delete that half of the column for this phase of the project. Additionally, information that is shown as crossed out and highlighted are values that are typically included in our PDM table but have not yet been provided. If this information is available, please update the table or we will just leave them out for this phase of the project.

The bottom half of the table "Bulk Density Design basis" has only a "Nominal" column. The values highlighted are standard numbers that B&V uses for Limestone Bulk Density. If E.ON has their own values for these parameters, please update the table or else we will just use the standard numbers at this time.

Please let me know if you have any further questions. And as I mentioned before, if you would like to discuss another table or info request, please give me a call or send me an email.

Thanks,

**Jonathan D. Crabtree**

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Overland Park, KS 66211 USA  
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**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Wednesday, October 27, 2010 4:29 PM  
**To:** Crabtree, Jonathan D.; Betz, Alex  
**Cc:** Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC  
**Subject:** RE: 168908. 41.0100 101012 Mill Creek Information Request from PDM

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**Sent:** Monday, October 11, 2010 10:03 AM  
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**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
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**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

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**To:** 'Wehrly, M. R.'  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.

**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

M.R.,

Attached is the updated spreadsheet for today. A lot of information has been added. We are having trouble finding "Original/Operating performance data" for the Air Heaters. We do have actual operating data, but are not sure if that's what you're looking for. Please advise on that item.

The Excess O2 spreadsheet shows the actual data in 4 hour averages for the year to date. If you need more data, please let me know.

Thanks,

**Alex Betz**

(502) 933-6602 Office

(502) 217-2286 Fax

(502) 817-3733 Cell

---

**From:** Wehrly, M. R. [mailto:WehrlyMR@bv.com]

**Sent:** Wednesday, October 06, 2010 8:59 PM

**To:** Betz, Alex

**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.

**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

Alex,

Thanks for the update.

Send the study when you can. With the transformer nameplate pictures/drawings, we should be able to get started on the electrical review.

I've forwarded the structural steel study information on to Monty and if we think it will be useful, we'll try to get it from our storage.

M.R.

---

**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]

**Sent:** Wednesday, October 06, 2010 2:23 PM

**To:** Wehrly, M. R.

**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.

**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

M.R.,

I am in the process of getting you a copy of the study, but I doubt it will be to you by Friday.

The attached sheet shows everything that I've uploaded to the website. Notice that some of the items could not be found either because we don't measure them, can't find them, or they don't exist. For the MC3 FD Fan Curve and MC1 & MC2 ID Booster Fan Curves, please see the comments in the "Completed" column.

I did find a structural report on Unit 3 FGD from 1993 by B&V, but it does not look that helpful, especially since it's from 1993. The cover letter is attached which shows the B&V Project and File number for you to reference in the B&V files if you think it would be valuable.

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**From:** Wehrly, M. R. [mailto:WehrlyMR@bv.com]  
**Sent:** Tuesday, October 05, 2010 10:22 PM  
**To:** Betz, Alex  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

Alex,  
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 Yes we can still use SKM although we have a newer version and we'd have to update the data anyway.  
 Our Ann Arbor office told us they have the SKM model disks also, so we can get them from them if we need to.  
 Just a copy of the report would do it for now.  
 Thanks,  
 M.R.

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**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]  
**Sent:** Tuesday, October 05, 2010 12:16 PM  
**To:** Wehrly, M. R.  
**Cc:** Saunders, Eileen; Hillman, Timothy M.  
**Subject:** B&V Short Circuit Study

M.R.,

I have located the short circuit study, but I also found out from the guy who has the study that he has a model in an SKM (PTW) format. I think I remember you mentioning that format during the conference call yesterday, but don't remember if you said you could use that or couldn't use that, so please let me know.

Thanks,

### **Alex Betz**

Mechanical Engineer II  
 LG&E - Mill Creek Station  
 14660 Dixie Hwy  
 Louisville, KY 40272  
 (502) 933-6602 Office  
 (502) 217-2286 Fax  
 (502) 817-3733 Cell

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---

**From:** Saunders, Eileen  
**To:** Billiter, Delbert  
**CC:** Betz, Alex  
**Sent:** 10/28/2010 9:36:35 AM  
**Subject:** Re: 168908. 41.0100 101027 Mill Creek Information Request - PDM Tables

Thank you. I will forward this information to B&V and will let you know if they have any questions. I really appreciate your support of our never ending list of questions!!

Eileen

---

**From:** Billiter, Delbert  
**To:** Saunders, Eileen  
**Cc:** Betz, Alex  
**Sent:** Thu Oct 28 09:20:23 2010  
**Subject:** RE: 168908. 41.0100 101027 Mill Creek Information Request - PDM Tables

Eileen,

The original limestone quality parameters are the contract specs and what we can be assured of receiving. If you would like to go with the current delivered quality the CaCO<sub>3</sub> Y-T-D has been 93% and the MgCO<sub>3</sub> has been 3% that would leave 4% for total inerts. Actual surface moisture is less than 3%.

As far as the limestone density we have always used 109 pcf in any work we've done. I'm not sure what the 55 pcf for volumetric sizing represents.

Also, the maximum lump size is 1 ¼" not the listed ¾".

Hope this helps.  
Delbert

Delbert Billiter  
E.ON US - Corporate Fuels  
220 West Main St.  
Louisville, KY 40202  
502-627-4668 -Office  
502-693-3030 -Cell  
delbert.billiter@eon-us.com  
502-627-3243 -Fax

---

**From:** Saunders, Eileen  
**Sent:** Thursday, October 28, 2010 8:44 AM  
**To:** Billiter, Delbert  
**Cc:** Betz, Alex  
**Subject:** FW: 168908. 41.0100 101027 Mill Creek Information Request - PDM Tables

Delbert,

Alex Betz and I have been working with B&V on the Mill Creek portion of the Phase II Environmental Compliance Study. The attached Excel Spreadsheet was provided to B&V during Phase I. Is it ok to use that original information for Phase II or should we update them on the word document (Table 1-4)?

Also, the Bulk Density numbers in the second part of Table 1-4 are standard numbers that B&V uses. Should we allow them to continue with those numbers or should do we have new inputs for them?

In addition to the two attachments, please see the emails below for further details of their request.

I would appreciate any guidance you can give us.

Thank you,

Eileen

---

**From:** Crabtree, Jonathan D. [mailto:CrabtreeJD@bv.com]  
**Sent:** Wednesday, October 27, 2010 7:01 PM  
**To:** Saunders, Eileen; Betz, Alex  
**Cc:** Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC  
**Subject:** 168908. 41.0100 101027 Mill Creek Information Request - PDM Tables

Eileen,

Since it is getting late in eastern time, I am responding by email. I listened to your voicemail that Tim forwarded me regarding Table 1-4: Limestone Properties. The response below will hopefully clarify any questions you had in regards to Table 1-4. Also, your email mentioned you had questions regarding Table 1-2. If so, please feel free to call me at your convenience tomorrow at 913-458-2403 or send me an email. I'll be in the office tomorrow from 8:30am - 6:30pm EST.

Table 1-4:

The top half of the table "Dry Basis, Percent by Weight" has two columns: "% Guaranteed" and "Nominal". I filled out the "% Guaranteed" column based on the attached spreadsheet provided during Phase I. In PDMs from past projects, we have had the "nominal" column for typical/expected values. The highlighted values are old values from a past PDM. If E.ON has numbers readily available to replace them, please update the table those values. Otherwise, we can just delete that half of the column for this phase of the project. Additionally, information that is shown as crossed out and highlighted are values that are typically included in our PDM table but have not yet been provided. If this information is available, please update the table or we will just leave them out for this phase of the project.

The bottom half of the table "Bulk Density Design basis" has only a "Nominal" column. The values highlighted are standard numbers that B&V uses for Limestone Bulk Density. If E.ON has their own values for these parameters, please update the table or else we will just use the standard numbers at this time.

Please let me know if you have any further questions. And as I mentioned before, if you would like to discuss another table or info request, please give me a call or send me an email.

Thanks,

**Jonathan D. Crabtree**

Black & Veatch Corporation  
 11401 Lamar Avenue  
 Overland Park, KS 66211 USA  
 \* CrabtreeJD@bv.com  
 ( 913) 458-2403

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---

**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Wednesday, October 27, 2010 4:29 PM  
**To:** Crabtree, Jonathan D.; Betz, Alex  
**Cc:** Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC  
**Subject:** RE: 168908. 41.0100 101012 Mill Creek Information Request from PDM

Jonathan,

I am working with Alex to complete Table 1-2 and I have a few clarifying questions. Would you please contact me at Ghent on 502-347-4023 sometime today or tomorrow morning? I also left Tim a voice mail detailing some of my questions.

Thanks,

Eileen

---

**From:** Crabtree, Jonathan D. [mailto:CrabtreeJD@bv.com]  
**Sent:** Tuesday, October 12, 2010 5:33 PM  
**To:** Betz, Alex  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC  
**Subject:** 168908. 41.0100 101012 Mill Creek Information Request from PDM

Alex,

As you may have recently seen, there are tables in the Mill Creek Project Design Memorandum (PDM) that were requested to be filled in or confirmed by E.ON. In response to Eileen's comments, we would like to add these fill-in tables from the PDM to the Information Request, which will hopefully clarify some of the existing requests.

Attached are the following four word documents:

Table 1-2 - Design Basis Water Analysis - This information was previously requested on the Information Request under "3. Plant Data g. Water analyses and supply information." This table is an example of the kind of information we are looking for and in what form it will be placed in the PDM. (PRIORITY LVL 4)

Table 1-4 - Limestone Properties - This information was previously requested on the Information Request under "3. Plant Data o. Need current limestone quality analysis." From Phase I of this project, we had information that filled out the "%Guaranteed" column but are still interested if you have information that can fill in the "Nominal" column or any of the values under "Bulk Density Design Basis". I reviewed the limestone quality you uploaded on i-backup and if you prefer those values could be used to fill in the first two rows under the "Nominal" column. (PRIORITY LVL 2)

Table 1-11 and 1-12 - Electrical Design Data and Electrical Equipment and System Voltages - This information could not be filled in based on previously supplied electrical information. If possible, it would be helpful if these values could be filled in and confirmed by someone on site or in the T&D group. (PRIORITY LVL 4)

Table 1-14 (mislabeled in PDM as 1-11) - Load Model - Recent operating information will be helpful when performing economic analysis of the different equipment options. (PRIORITY LVL 4)

Feel free to fill out the tables in the attached word documents or provide the necessary data to fill in these tables, whichever is easier for you. These tables can be placed in i-Backup or emailed to us.

Let me know if you have any questions.

Thanks,

**Jonathan D. Crabtree**

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 11401 Lamar Avenue  
 Overland Park, KS 66211 USA  
 \* CrabtreeJD@bv.com  
 ( (913) 458-2403

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---

**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]  
**Sent:** Tuesday, October 12, 2010 3:12 PM  
**To:** Crabtree, Jonathan D.  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC  
**Subject:** RE: 168908. 41.0100 101011 Mill Creek Information Request

Jonathan,

Sorry about forgetting the attachment yesterday. It should be attached this time.

We had already found one drawing on Unit 2 that was requested, so I am uploading it today. We will mark that one as being complete and if you find otherwise, please let me know.

We do have percent volume CO2 at the stack and I am in the process of getting that data (should be tomorrow). I am planning to get the year-to-date data, if you need more, let me know.

I'm not positive I can find testing results in those areas, but I would say they probably have been done before. I will try to find any test results I can.

I will get an uncorrupted version of "MC 3 SCR General Arrangt Plan Section E-20.pdf" uploaded tomorrow.

What address, and to whose attention, should the B&V Short Circuit Study be sent?

Thanks,

**Alex Betz**

(502) 933-6602 Office

(502) 217-2286 Fax

(502) 817-3733 Cell

---

**From:** Crabtree, Jonathan D. [mailto:CrabtreeJD@bv.com]  
**Sent:** Monday, October 11, 2010 5:11 PM  
**To:** Betz, Alex  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC  
**Subject:** 168908. 41.0100 101011 Mill Creek Information Request

Alex,

Thanks for the update. I believe your attachment did not make it on there with your email. Feel free to resend it or wait until your next update.

Regarding the plant arrangements, if the ones we requested are Unit 2 drawings, we already have clear copies of those and you do not need to rescan them. Unless you have additional Unit 1 plant arrangement drawings, we will assume we have everything we need and we can close that item.

Additionally, in response to the "Not measured" items on the data request (air heater leakage, precipitator leakage, and stack gas outlet oxygen percent) please provide information regarding the following (if available):

- 1) Do you have measurements of percent volume CO2 at the stack on any or all units?
- 2) Has the plant conducted any flue gas testing on any of the units at the air heater gas outlets and/or the cold-side ESPs? The type of information we would be looking for would again be percent volume O2 and/or CO2.

Lastly, in the priority 2 folder, the "MC 3 SCR General Arrangt Plan Section E-20.pdf" appears to be corrupted and we are unable to open it. If possible, please send another copy.

Thanks for your help,

**Jonathan D. Crabtree**

Black & Veatch Corporation

11401 Lamar Avenue

Overland Park, KS 66211 USA

\* CrabtreeJD@bv.com

(913) 458-2403

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---

**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]  
**Sent:** Monday, October 11, 2010 2:59 PM

**To:** Wehrly, M. R.  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** RE: 168908. 41.0143 101011 Mill Creek Information Request

M.R.,

Thanks for the feedback on these issues. I will get the AH info uploaded as soon as possible. We're looking for the prints you've listed below. We've found some, but they are not the latest revisions you've listed. Just for clarification, these prints you've listed are for Unit 2, not Unit 1.

Once again, the sheet is attached. There wasn't much that was added today, only 4 foundation prints under the Priority 2 folder.

Thanks,

**Alex Betz**

(502) 933-6602 Office  
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---

**From:** Wehrly, M. R. [mailto:WehrlyMR@bv.com]  
**Sent:** Monday, October 11, 2010 10:03 AM  
**To:** Betz, Alex  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** 168908. 41.0143 101011 Mill Creek Information Request

Alex,  
Sorry for any confusion on the Unit 1 Plant arrangements.

There are six Unit 1 PA drawings that just fuzz out to the point you can't read the characters when you blow them up to readable size. It may just be bad files or poor copies of good files. The six drawings are:

F-663-253-16, -16A, & 16B (drawings are actually numbered as F-663-253, shts 1 of 3, 2 of 3 & 3 of 3)  
F-663-254-12, -12A, & 12B (drawings are actually numbered as F-663-254, shts 1 of 3, 2 of 3 & 3 of 3)

Please do the best you can. If the originals are real light, they may never scan well.

I'll let you know if we need anything further on Limestone.

Thanks,  
M.R.

---

**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]  
**Sent:** Friday, October 08, 2010 2:19 PM  
**To:** Wehrly, M. R.  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

M.R.,

Attached is the updated spreadsheet for today. There is some confusion on the Unit 1 Plant Arrangement Drawings. If possible, please list the drawing numbers of the prints that are unreadable or the file names and I will look for better copies of those prints.

Also, please check the limestone analysis file I uploaded to see if that is the information you're looking for.

Thanks,

**Alex Betz**

(502) 933-6602 Office  
(502) 217-2286 Fax  
(502) 817-3733 Cell

---

**From:** Betz, Alex  
**Sent:** Thursday, October 07, 2010 3:18 PM  
**To:** 'Wehrly, M. R.'  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

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**Sent:** Wednesday, October 06, 2010 8:59 PM  
**To:** Betz, Alex  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
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**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
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**From:** Wehrly, M. R. [mailto:WehrlyMR@bv.com]  
**Sent:** Tuesday, October 05, 2010 10:22 PM  
**To:** Betz, Alex  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
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**Cc:** Saunders, Eileen; Hillman, Timothy M.  
**Subject:** B&V Short Circuit Study

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Thanks,

**Alex Betz**

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---

**From:** Billiter, Delbert  
**To:** Saunders, Eileen  
**Sent:** 10/28/2010 11:33:53 AM  
**Subject:** Re: 168908. 41.0100 101027 Mill Creek Information Request - PDM Tables

No problem. Any time I can help

---

**From:** Saunders, Eileen  
**To:** Billiter, Delbert  
**Cc:** Betz, Alex  
**Sent:** Thu Oct 28 09:36:35 2010  
**Subject:** Re: 168908. 41.0100 101027 Mill Creek Information Request - PDM Tables

Thank you. I will forward this information to B&V and will let you know if they have any questions. I really appreciate your support of our never ending list of questions!!

Eileen

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**From:** Billiter, Delbert  
**To:** Saunders, Eileen  
**Cc:** Betz, Alex  
**Sent:** Thu Oct 28 09:20:23 2010  
**Subject:** RE: 168908. 41.0100 101027 Mill Creek Information Request - PDM Tables

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Also, the maximum lump size is 1 ¼" not the listed ¾".

Hope this helps.  
Delbert

Delbert Billiter  
E.ON US - Corporate Fuels  
220 West Main St.  
Louisville, KY 40202  
502-627-4668 -Office  
502-693-3030 -Cell  
delbert.billiter@eon-us.com  
502-627-3243 -Fax

---

**From:** Saunders, Eileen  
**Sent:** Thursday, October 28, 2010 8:44 AM  
**To:** Billiter, Delbert  
**Cc:** Betz, Alex  
**Subject:** FW: 168908. 41.0100 101027 Mill Creek Information Request - PDM Tables

Delbert,

Alex Betz and I have been working with B&V on the Mill Creek portion of the Phase II Environmental Compliance Study. The attached Excel Spreadsheet was provided to B&V during Phase I. Is it ok to use that original information for Phase II or should we update them on the word document (Table 1-4)?

Also, the Bulk Density numbers in the second part of Table 1-4 are standard numbers that B&V uses. Should we allow them to continue with those numbers or should do we have new inputs for them?

In addition to the two attachments, please see the emails below for further details of their request.

I would appreciate any guidance you can give us.

Thank you,

Eileen

---

**From:** Crabtree, Jonathan D. [mailto:CrabtreeJD@bv.com]  
**Sent:** Wednesday, October 27, 2010 7:01 PM  
**To:** Saunders, Eileen; Betz, Alex  
**Cc:** Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC  
**Subject:** 168908. 41.0100 101027 Mill Creek Information Request - PDM Tables

Eileen,

Since it is getting late in eastern time, I am responding by email. I listened to your voicemail that Tim forwarded me regarding Table 1-4: Limestone Properties. The response below will hopefully clarify any questions you had in regards to Table 1-4. Also, your email mentioned you had questions regarding Table 1-2. If so, please feel free to call me at your convenience tomorrow at 913-458-2403 or send me an email. I'll be in the office tomorrow from 8:30am - 6:30pm EST.

Table 1-4:

The top half of the table "Dry Basis, Percent by Weight" has two columns: "% Guaranteed" and "Nominal". I filled out the "% Guaranteed" column based on the attached spreadsheet provided during Phase I. In PDMs from past projects, we have had the "nominal" column for typical/expected values. The highlighted values are old values from a past PDM. If E.ON has numbers readily available to replace them, please update the table those values. Otherwise, we can just delete that half of the column for this phase of the project. Additionally, information that is shown as crossed out and highlighted are values that are typically included in our PDM table but have not yet been provided. If this information is available, please update the table or we will just leave them out for this phase of the project.

The bottom half of the table "Bulk Density Design basis" has only a "Nominal" column. The values highlighted are standard numbers that B&V uses for Limestone Bulk Density. If E.ON has their own values for these parameters, please update the table or else we will just use the standard numbers at this time.

Please let me know if you have any further questions. And as I mentioned before, if you would like to discuss another table or info request, please give me a call or send me an email.

Thanks,

**Jonathan D. Crabtree**

Black & Veatch Corporation  
 11401 Lamar Avenue  
 Overland Park, KS 66211 USA  
 \* CrabtreeJD@bv.com  
 (913) 458-2403

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---

**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Wednesday, October 27, 2010 4:29 PM  
**To:** Crabtree, Jonathan D.; Betz, Alex  
**Cc:** Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC

**Subject:** RE: 168908. 41.0100 101012 Mill Creek Information Request from PDM

Jonathan,

I am working with Alex to complete Table 1-2 and I have a few clarifying questions. Would you please contact me at Ghent on 502-347-4023 sometime today or tomorrow morning? I also left Tim a voice mail detailing some of my questions.

Thanks,

Eileen

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**From:** Crabtree, Jonathan D. [mailto:CrabtreeJD@bv.com]  
**Sent:** Tuesday, October 12, 2010 5:33 PM  
**To:** Betz, Alex  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC  
**Subject:** 168908. 41.0100 101012 Mill Creek Information Request from PDM

Alex,

As you may have recently seen, there are tables in the Mill Creek Project Design Memorandum (PDM) that were requested to be filled in or confirmed by E.ON. In response to Eileen's comments, we would like to add these fill-in tables from the PDM to the Information Request, which will hopefully clarify some of the existing requests.

Attached are the following four word documents:

Table 1-2 - Design Basis Water Analysis - This information was previously requested on the Information Request under "3. Plant Data g. Water analyses and supply information." This table is an example of the kind of information we are looking for and in what form it will be placed in the PDM. (PRIORITY LVL 4)

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Let me know if you have any questions.

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 (913) 458-2403

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**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]  
**Sent:** Tuesday, October 12, 2010 3:12 PM  
**To:** Crabtree, Jonathan D.

**Cc:** Saunders, Eileen; Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC  
**Subject:** RE: 168908. 41.0100 101011 Mill Creek Information Request

Jonathan,

Sorry about forgetting the attachment yesterday. It should be attached this time.

We had already found one drawing on Unit 2 that was requested, so I am uploading it today. We will mark that one as being complete and if you find otherwise, please let me know.

We do have percent volume CO<sub>2</sub> at the stack and I am in the process of getting that data (should be tomorrow). I am planning to get the year-to-date data, if you need more, let me know.

I'm not positive I can find testing results in those areas, but I would say they probably have been done before. I will try to find any test results I can.

I will get an uncorrupted version of "MC 3 SCR General Arrangt Plan Section E-20.pdf" uploaded tomorrow.

What address, and to whose attention, should the B&V Short Circuit Study be sent?

Thanks,

**Alex Betz**

(502) 933-6602 Office  
(502) 217-2286 Fax  
(502) 817-3733 Cell

---

**From:** Crabtree, Jonathan D. [mailto:CrabtreeJD@bv.com]  
**Sent:** Monday, October 11, 2010 5:11 PM  
**To:** Betz, Alex  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC  
**Subject:** 168908. 41.0100 101011 Mill Creek Information Request

Alex,

Thanks for the update. I believe your attachment did not make it on there with your email. Feel free to resend it or wait until your next update.

Regarding the plant arrangements, if the ones we requested are Unit 2 drawings, we already have clear copies of those and you do not need to rescan them. Unless you have additional Unit 1 plant arrangement drawings, we will assume we have everything we need and we can close that item.

Additionally, in response to the "Not measured" items on the data request (air heater leakage, precipitator leakage, and stack gas outlet oxygen percent) please provide information regarding the following (if available):

- 1) Do you have measurements of percent volume CO<sub>2</sub> at the stack on any or all units?
- 2) Has the plant conducted any flue gas testing on any of the units at the air heater gas outlets and/or the cold-side ESPs? The type of information we would be looking for would again be percent volume O<sub>2</sub> and/or CO<sub>2</sub>.

Lastly, in the priority 2 folder, the "MC 3 SCR General Arrangt Plan Section E-20.pdf" appears to be corrupted and we are unable to open it. If possible, please send another copy.

Thanks for your help,

**Jonathan D. Crabtree**

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11401 Lamar Avenue  
Overland Park, KS 66211 USA

\* CrabtreeJD@bv.com  
(913) 458-2403

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**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]  
**Sent:** Monday, October 11, 2010 2:59 PM  
**To:** Wehrly, M. R.  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** RE: 168908. 41.0143 101011 Mill Creek Information Request

M.R.,

Thanks for the feedback on these issues. I will get the AH info uploaded as soon as possible. We're looking for the prints you've listed below. We've found some, but they are not the latest revisions you've listed. Just for clarification, these prints you've listed are for Unit 2, not Unit 1.

Once again, the sheet is attached. There wasn't much that was added today, only 4 foundation prints under the Priority 2 folder.

Thanks,

**Alex Betz**

(502) 933-6602 Office  
(502) 217-2286 Fax  
(502) 817-3733 Cell

---

**From:** Wehrly, M. R. [mailto:WehrlyMR@bv.com]  
**Sent:** Monday, October 11, 2010 10:03 AM  
**To:** Betz, Alex  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** 168908. 41.0143 101011 Mill Creek Information Request

Alex,  
Sorry for any confusion on the Unit 1 Plant arrangements.

There are six Unit 1 PA drawings that just fuzz out to the point you can't read the characters when you blow them up to readable size. It may just be bad files or poor copies of good files. The six drawings are:

F-663-253-16, -16A, & 16B (drawings are actually numbered as F-663-253, shts 1 of 3, 2 of 3 & 3 of 3)  
F-663-254-12, -12A, & 12B (drawings are actually numbered as F-663-254, shts 1 of 3, 2 of 3 & 3 of 3)

Please do the best you can. If the originals are real light, they may never scan well.

I'll let you know if we need anything further on Limestone.

Thanks,  
M.R.

---

**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]  
**Sent:** Friday, October 08, 2010 2:19 PM  
**To:** Wehrly, M. R.  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

M.R.,

Attached is the updated spreadsheet for today. There is some confusion on the Unit 1 Plant Arrangement Drawings. If possible, please list the drawing numbers of the prints that are unreadable or the file names and I will look for better copies of those prints.

Also, please check the limestone analysis file I uploaded to see if that is the information you're looking for.

Thanks,

**Alex Betz**

(502) 933-6602 Office

(502) 217-2286 Fax

(502) 817-3733 Cell

---

**From:** Betz, Alex

**Sent:** Thursday, October 07, 2010 3:18 PM

**To:** 'Wehrly, M. R.'

**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.

**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

M.R.,

Attached is the updated spreadsheet for today. A lot of information has been added. We are having trouble finding "Original/Operating performance data" for the Air Heaters. We do have actual operating data, but are not sure if that's what you're looking for. Please advise on that item.

The Excess O2 spreadsheet shows the actual data in 4 hour averages for the year to date. If you need more data, please let me know.

Thanks,

**Alex Betz**

(502) 933-6602 Office

(502) 217-2286 Fax

(502) 817-3733 Cell

---

**From:** Wehrly, M. R. [mailto:WehrlyMR@bv.com]

**Sent:** Wednesday, October 06, 2010 8:59 PM

**To:** Betz, Alex

**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.

**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

Alex,

Thanks for the update.

Send the study when you can. With the transformer nameplate pictures/drawings, we should be able to get started on the electrical review.

I've forwarded the structural steel study information on to Monty and if we think it will be useful, we'll try to get it from our storage.

M.R.

---

**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]

**Sent:** Wednesday, October 06, 2010 2:23 PM

**To:** Wehrly, M. R.

**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.

**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

M.R.,

I am in the process of getting you a copy of the study, but I doubt it will be to you by Friday.

The attached sheet shows everything that I've uploaded to the website. Notice that some of the items could not be found either because we don't measure them, can't find them, or they don't exist. For the MC3 FD Fan Curve and MC1 & MC2 ID Booster Fan Curves, please see the comments in the "Completed" column.

I did find a structural report on Unit 3 FGD from 1993 by B&V, but it does not look that helpful, especially since it's from 1993. The cover letter is attached which shows the B&V Project and File number for you to reference in the B&V files if you think it would be valuable.

Thanks,

**Alex Betz**

(502) 933-6602 Office  
 (502) 217-2286 Fax  
 (502) 817-3733 Cell

---

**From:** Wehrly, M. R. [mailto:WehrlyMR@bv.com]  
**Sent:** Tuesday, October 05, 2010 10:22 PM  
**To:** Betz, Alex  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

Alex,  
 Thanks for finding this information.  
 Yes we can still use SKM although we have a newer version and we'd have to update the data anyway.  
 Our Ann Arbor office told us they have the SKM model disks also, so we can get them from them if we need to.  
 Just a copy of the report would do it for now.  
 Thanks,  
 M.R.

---

**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]  
**Sent:** Tuesday, October 05, 2010 12:16 PM  
**To:** Wehrly, M. R.  
**Cc:** Saunders, Eileen; Hillman, Timothy M.  
**Subject:** B&V Short Circuit Study

M.R.,

I have located the short circuit study, but I also found out from the guy who has the study that he has a model in an SKM (PTW) format. I think I remember you mentioning that format during the conference call yesterday, but don't remember if you said you could use that or couldn't use that, so please let me know.

Thanks,

**Alex Betz**

Mechanical Engineer II  
 LG&E - Mill Creek Station  
 14660 Dixie Hwy  
 Louisville, KY 40272  
 (502) 933-6602 Office  
 (502) 217-2286 Fax  
 (502) 817-3733 Cell



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**From:** Saunders, Eileen  
**To:** 'Crabtree, Jonathan D.'; Hillman, Timothy M.; Wehrly, M. R.  
**CC:** Betz, Alex  
**Sent:** 10/28/2010 12:26:05 PM  
**Subject:** FW: 168908. 41.0100 101027 Mill Creek Information Request - PDM Tables

Jonathan,

Please see the response from our Fuels Manager.

Thanks,

Eileen

---

**From:** Billiter, Delbert  
**Sent:** Thursday, October 28, 2010 9:20 AM  
**To:** Saunders, Eileen  
**Cc:** Betz, Alex  
**Subject:** RE: 168908. 41.0100 101027 Mill Creek Information Request - PDM Tables

Eileen,

The original limestone quality parameters are the contract specs and what we can be assured of receiving. If you would like to go with the current delivered quality the CaCO<sub>3</sub> Y-T-D has been 93% and the MgCO<sub>3</sub> has been 3% that would leave 4% for total inerts. Actual surface moisture is less than 3%.

As far as the limestone density we have always used 109 pcf in any work we've done. I'm not sure what the 55 pcf for volumetric sizing represents.

Also, the maximum lump size is 1 ¼" not the listed ¾".

Hope this helps.  
Delbert

Delbert Billiter  
E.ON US - Corporate Fuels  
220 West Main St.  
Louisville, KY 40202  
502-627-4668 -Office  
502-693-3030 -Cell  
delbert.billiter@eon-us.com  
502-627-3243 -Fax

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Black & Veatch Corporation  
 11401 Lamar Avenue  
 Overland Park, KS 66211 USA  
 \* CrabtreeJD@bv.com  
 (913) 458-2403

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**Sent:** Tuesday, October 12, 2010 3:12 PM  
**To:** Crabtree, Jonathan D.  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC  
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Thanks,

**Alex Betz**

(502) 933-6602 Office

(502) 217-2286 Fax

(502) 817-3733 Cell

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**Cc:** Saunders, Eileen; Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC

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Thanks for your help,

**Jonathan D. Crabtree**

Black & Veatch Corporation

11401 Lamar Avenue

Overland Park, KS 66211 USA

\* CrabtreeJD@bv.com

(913) 458-2403

**Building a World of Difference®**

**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]  
**Sent:** Monday, October 11, 2010 2:59 PM  
**To:** Wehrly, M. R.  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** RE: 168908. 41.0143 101011 Mill Creek Information Request

M.R.,

Thanks for the feedback on these issues. I will get the AH info uploaded as soon as possible. We're looking for the prints you've listed below. We've found some, but they are not the latest revisions you've listed. Just for clarification, these prints you've listed are for Unit 2, not Unit 1.

Once again, the sheet is attached. There wasn't much that was added today, only 4 foundation prints under the Priority 2 folder.

Thanks,

**Alex Betz**

(502) 933-6602 Office  
(502) 217-2286 Fax  
(502) 817-3733 Cell

---

**From:** Wehrly, M. R. [mailto:WehrlyMR@bv.com]  
**Sent:** Monday, October 11, 2010 10:03 AM  
**To:** Betz, Alex  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** 168908. 41.0143 101011 Mill Creek Information Request

Alex,  
Sorry for any confusion on the Unit 1 Plant arrangements.

There are six Unit 1 PA drawings that just fuzz out to the point you can't read the characters when you blow them up to readable size. It may just be bad files or poor copies of good files. The six drawings are:

F-663-253-16, -16A, & 16B (drawings are actually numbered as F-663-253, shts 1 of 3, 2 of 3 & 3 of 3)  
F-663-254-12, -12A, & 12B (drawings are actually numbered as F-663-254, shts 1 of 3, 2 of 3 & 3 of 3)

Please do the best you can. If the originals are real light, they may never scan well.

I'll let you know if we need anything further on Limestone.

Thanks,  
M.R.

---

**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]  
**Sent:** Friday, October 08, 2010 2:19 PM  
**To:** Wehrly, M. R.  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

M.R.,

Attached is the updated spreadsheet for today. There is some confusion on the Unit 1 Plant Arrangement Drawings. If possible, please list the drawing numbers of the prints that are unreadable or the file names and I will look for better copies of those prints.

Also, please check the limestone analysis file I uploaded to see if that is the information you're looking for.

Thanks,

**Alex Betz**

(502) 933-6602 Office  
(502) 217-2286 Fax  
(502) 817-3733 Cell

---

**From:** Betz, Alex  
**Sent:** Thursday, October 07, 2010 3:18 PM  
**To:** 'Wehrly, M. R.'  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

M.R.,

Attached is the updated spreadsheet for today. A lot of information has been added. We are having trouble finding "Original/Operating performance data" for the Air Heaters. We do have actual operating data, but are not sure if that's what you're looking for. Please advise on that item.

The Excess O2 spreadsheet shows the actual data in 4 hour averages for the year to date. If you need more data, please let me know.

Thanks,

**Alex Betz**

(502) 933-6602 Office  
(502) 217-2286 Fax  
(502) 817-3733 Cell

---

**From:** Wehrly, M. R. [mailto:WehrlyMR@bv.com]  
**Sent:** Wednesday, October 06, 2010 8:59 PM  
**To:** Betz, Alex  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

Alex,  
Thanks for the update.  
Send the study when you can. With the transformer nameplate pictures/drawings, we should be able to get started on the electrical review.

I've forwarded the structural steel study information on to Monty and if we think it will be useful, we'll try to get it from our storage.  
M.R.

---

**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]  
**Sent:** Wednesday, October 06, 2010 2:23 PM  
**To:** Wehrly, M. R.  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** RE: 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

M.R.,

I am in the process of getting you a copy of the study, but I doubt it will be to you by Friday.

The attached sheet shows everything that I've uploaded to the website. Notice that some of the items could not be found either because we don't measure them, can't find them, or they don't exist. For the MC3 FD Fan Curve and MC1 & MC2 ID Booster Fan Curves, please see the comments in the "Completed" column.

I did find a structural report on Unit 3 FGD from 1993 by B&V, but it does not look that helpful, especially since it's from 1993. The cover letter is attached which shows the B&V Project and File number for you to reference in the B&V files if you think it would be valuable.

Thanks,

**Alex Betz**

(502) 933-6602 Office  
(502) 217-2286 Fax  
(502) 817-3733 Cell

---

**From:** Wehrly, M. R. [mailto:WehrlyMR@bv.com]  
**Sent:** Tuesday, October 05, 2010 10:22 PM  
**To:** Betz, Alex  
**Cc:** Saunders, Eileen; Hillman, Timothy M.; Bayless, James W. III (Jim); 168908 E.ON-AQC; Crabtree, Jonathan D.  
**Subject:** 168908. 41.0143 101005 Mill Creek RE: B&V Short Circuit Study

Alex,  
Thanks for finding this information.  
Yes we can still use SKM although we have a newer version and we'd have to update the data anyway.  
Our Ann Arbor office told us they have the SKM model disks also, so we can get them from them if we need to.  
Just a copy of the report would do it for now.  
Thanks,  
M.R.

---

**From:** Betz, Alex [mailto:Alex.Betz@eon-us.com]  
**Sent:** Tuesday, October 05, 2010 12:16 PM  
**To:** Wehrly, M. R.  
**Cc:** Saunders, Eileen; Hillman, Timothy M.  
**Subject:** B&V Short Circuit Study

M.R.,

I have located the short circuit study, but I also found out from the guy who has the study that he has a model in an SKM (PTW) format. I think I remember you mentioning that format during the conference call yesterday, but don't remember if you said you could use that or couldn't use that, so please let me know.

Thanks,

**Alex Betz**

Mechanical Engineer II  
LG&E - Mill Creek Station  
14660 Dixie Hwy  
Louisville, KY 40272  
(502) 933-6602 Office  
(502) 217-2286 Fax  
(502) 817-3733 Cell

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*other than the intended recipient is not allowed. If you received this message and the information contained therein by error, please contact the sender and delete the material from your/any storage medium.*

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---

**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**CC:** Jackson, Audrey; 168908 E.ON-AQC; Wehrly, M. R.; Crabtree, Jonathan D.; Lucas, Kyle J.; Mehta, Pratik D.; Mahabaleshwarkar, Anand; Lausman, Rick L.; Goodlet, Roger F.; Ballard, Michael W; Hintz, Monty E.  
**Sent:** 10/29/2010 12:38:35 PM  
**Subject:** 168908.41.0803 101029 - Mill Creek U4 Alternative AQC Arrangement Sketches for Nov 1st Conference Call (Revised)  
**Attachments:** ArchiveInfo.htm

Eileen,

As part of our validation work, we have made some refinements to the Mill Creek U4 arrangement sketches that I sent you on Wednesday. Please consider the attached revised sketches for our Monday conference call.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Hillman, Timothy M.  
**Sent:** Wednesday, October 27, 2010 2:20 PM  
**To:** 'Saunders, Eileen'  
**Cc:** Jackson, Audrey; 168908 E.ON-AQC; Wehrly, M. R.; Crabtree, Jonathan D.; Lucas, Kyle J.; Mehta, Pratik D.; Mahabaleshwarkar, Anand; Lausman, Rick L.; Goodlet, Roger F.; Ballard, Michael W; Hintz, Monty E.  
**Subject:** 168908.41.0803 101027 - Mill Creek U4 Alternative AQC Arrangement Sketches for Nov 1st Conference Call

Eileen,

In preparation for our Nov 1st conference call, please find attached sketches of the potential Mill Creek U4 AQC arrangements. The sketches include both NID and PJFF versions of an east-west configuration along the south side of U4, and a north-south configuration in the old thickener area.

<< File: MC U3-U4 NID Sketch.pdf >> << File: MC U3-U4 NID Sketch Alt.pdf >> << File: MC U3-U4 PJFF Sketch.pdf >> << File: MC U3-U4 PJFF Sketch Alt.pdf >>

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

This message and its attachments have been archived. To retrieve, double click the message in the message list.

The following attachments were archived from this message:

- Mill Creek U3-U4 NID A.pdf
- Mill Creek U3-U4 NID B.pdf
- Mill Creek U3-U4 PJFF A.pdf
- Mill Creek U3-U4 PJFF B.pdf

---

**From:** Saunders, Eileen  
**To:** Straight, Scott  
**CC:** HillmanTM@bv.com  
**Sent:** 10/29/2010 1:03:22 PM  
**Subject:** FW: 168908.41.0803 101029 - Mill Creek U4 Alternative AQC Arrangement Sketches for Nov 1st Conference Call (Revised)  
**Attachments:** ArchiveInfo.htm

Scott,

Here are updated sketches to use when we talk to B&V Monday at 2 pm.

Thanks,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Friday, October 29, 2010 12:39 PM  
**To:** Saunders, Eileen  
**Cc:** Jackson, Audrey; 168908 E.ON-AQC; Wehrly, M. R.; Crabtree, Jonathan D.; Lucas, Kyle J.; Mehta, Pratik D.; Mahabaleshwarkar, Anand; Lausman, Rick L.; Goodlet, Roger F.; Ballard, Michael W; Hintz, Monty E.  
**Subject:** 168908.41.0803 101029 - Mill Creek U4 Alternative AQC Arrangement Sketches for Nov 1st Conference Call (Revised)  
**Importance:** High

Eileen,

As part of our validation work, we have made some refinements to the Mill Creek U4 arrangement sketches that I sent you on Wednesday. Please consider the attached revised sketches for our Monday conference call.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
 11401 Lamar Avenue  
 Overland Park, KS 66211  
 Phone: (913) 458-7928  
 Email: hillmantm@bv.com

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 October 27, 2010 2:20 PM  
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 8.41.0803 101027 - Mill Creek U4 Alternative AQC Arrangement Sketches for Nov 1st Conference Call

Eileen,

In preparation for our Nov 1st conference call, please find attached sketches of the potential Mill Creek U4 AQC arrangements. The sketches include both NID and PJFF versions of an east-west configuration along the south side of U4, and a north-south configuration in the old thickener area.

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Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
 11401 Lamar Avenue

Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: [hillmantm@bv.com](mailto:hillmantm@bv.com)

This message and its attachments have been archived. To retrieve, double click the message in the message list.

The following attachments were archived from this message:

- Mill Creek U3-U4 NID A.pdf
- Mill Creek U3-U4 NID B.pdf
- Mill Creek U3-U4 PJFF A.pdf
- Mill Creek U3-U4 PJFF B.pdf

---

**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**Sent:** 10/29/2010 1:09:09 PM  
**Subject:** RE: 168908.41.0803 101029 - Mill Creek U4 Alternative AQC Arrangement Sketches for Nov 1st Conference Call (Revised)

Eileen,

Just for clarification, I believe the meeting is at 1 pm your time at Scott's request. Please confirm.

Thanks,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Friday, October 29, 2010 12:03 PM  
**To:** Straight, Scott  
**Cc:** Hillman, Timothy M.  
**Subject:** FW: 168908.41.0803 101029 - Mill Creek U4 Alternative AQC Arrangement Sketches for Nov 1st Conference Call (Revised)  
**Importance:** High

Scott,

Here are updated sketches to use when we talk to B&V Monday at 2 pm.

Thanks,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Friday, October 29, 2010 12:39 PM  
**To:** Saunders, Eileen  
**Cc:** Jackson, Audrey; 168908 E.ON-AQC; Wehrly, M. R.; Crabtree, Jonathan D.; Lucas, Kyle J.; Mehta, Pratik D.; Mahabaleshwarkar, Anand; Lausman, Rick L.; Goodlet, Roger F.; Ballard, Michael W; Hintz, Monty E.  
**Subject:** 168908.41.0803 101029 - Mill Creek U4 Alternative AQC Arrangement Sketches for Nov 1st Conference Call (Revised)  
**Importance:** High

Eileen,

As part of our validation work, we have made some refinements to the Mill Creek U4 arrangement sketches that I sent you on Wednesday. Please consider the attached revised sketches for our Monday conference call.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
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October 27, 2010 2:20 PM

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8.41.0803 101027 - Mill Creek U4 Alternative AQC Arrangement Sketches for Nov 1st Conference Call

Eileen,

In preparation for our Nov 1st conference call, please find attached sketches of the potential Mill Creek U4 AQC arrangements. The sketches include both NID and PJFF versions of an east-west configuration along the south side of U4, and a north-south configuration in the old thickener area.

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Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
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**From:** Saunders, Eileen  
**To:** 'Hillman, Timothy M.'; Straight, Scott  
**Sent:** 10/29/2010 1:11:29 PM  
**Subject:** RE: 168908.41.0803 101029 - Mill Creek U4 Alternative AQC Arrangement Sketches for Nov 1st Conference Call (Revised)

Scott,

I misspoke, the meeting is at 1pm on Monday.

Thanks,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Friday, October 29, 2010 1:09 PM  
**To:** Saunders, Eileen  
**Subject:** RE: 168908.41.0803 101029 - Mill Creek U4 Alternative AQC Arrangement Sketches for Nov 1st Conference Call (Revised)

Eileen,

Just for clarification, I believe the meeting is at 1 pm your time at Scott's request. Please confirm.

Thanks,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

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**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Friday, October 29, 2010 12:03 PM  
**To:** Straight, Scott  
**Cc:** Hillman, Timothy M.  
**Subject:** FW: 168908.41.0803 101029 - Mill Creek U4 Alternative AQC Arrangement Sketches for Nov 1st Conference Call (Revised)  
**Importance:** High

Scott,

Here are updated sketches to use when we talk to B&V Monday at 2 pm.

Thanks,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Friday, October 29, 2010 12:39 PM  
**To:** Saunders, Eileen  
**Cc:** Jackson, Audrey; 168908 E.ON-AQC; Wehrly, M. R.; Crabtree, Jonathan D.; Lucas, Kyle J.; Mehta, Pratik D.; Mahabaleshwarkar, Anand; Lausman, Rick L.; Goodlet, Roger F.; Ballard, Michael W; Hintz, Monty E.

**Subject:** 168908.41.0803 101029 - Mill Creek U4 Alternative AQC Arrangement Sketches for Nov 1st Conference Call  
(Revised)

**Importance:** High

Eileen,

As part of our validation work, we have made some refinements to the Mill Creek U4 arrangement sketches that I sent you on Wednesday. Please consider the attached revised sketches for our Monday conference call.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
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Best regards,

**Tim Hillman | Project Manager**  
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**From:** Saunders, Eileen  
**To:** Inman, David  
**Sent:** 11/1/2010 9:10:45 AM  
**Subject:** FW: 168908.41.0803 101029 - Mill Creek U4 Alternative AQC Arrangement Sketches for Nov 1st Conference Call (Revised)  
**Attachments:** ArchiveInfo.htm

David,

Here are the sketches needed for our conference call at 1 pm. Please remind Scott of the call and let him know that I will be calling in from Mill Creek unless he feels I need to come to the BOC. Please let me know if he wants me to come to his office.

Thanks,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Friday, October 29, 2010 12:39 PM  
**To:** Saunders, Eileen  
**Cc:** Jackson, Audrey; 168908 E.ON-AQC; Wehrly, M. R.; Crabtree, Jonathan D.; Lucas, Kyle J.; Mehta, Pratik D.; Mahabaleshwarkar, Anand; Lausman, Rick L.; Goodlet, Roger F.; Ballard, Michael W; Hintz, Monty E.  
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**Importance:** High

Eileen,

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Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
 11401 Lamar Avenue  
 Overland Park, KS 66211  
 Phone: (913) 458-7928  
 Email: hillmantm@bv.com

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 October 27, 2010 2:20 PM  
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Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**

11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: [hillmantm@bv.com](mailto:hillmantm@bv.com)

This message and its attachments have been archived. To retrieve, double click the message in the message list.

The following attachments were archived from this message:

- Mill Creek U3-U4 NID A.pdf
- Mill Creek U3-U4 NID B.pdf
- Mill Creek U3-U4 PJFF A.pdf
- Mill Creek U3-U4 PJFF B.pdf

---

**From:** Saunders, Eileen  
**To:** Kirkland, Mike; Buckner, Mike; Didelot, Joe; Betz, Alex  
**CC:** Craigmyle, Kenny; Moehrke, William  
**Sent:** 11/1/2010 9:13:52 AM  
**Subject:** FW: 168908.14.1000 100924 Mill Creek - Final Kickoff and Site Visit Meeting Minutes  
**Attachments:** ArchiveInfo.htm

All,

I know I sent you the initial meeting minutes but I don't think I forwarded the final version to you. Please feel free to issue this information to others who attended our meeting.

Thank you,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Friday, September 24, 2010 2:17 PM  
**To:** Saunders, Eileen  
**Cc:** 168908.E.ON-AQC; Wehrly, M. R.; Lucas, Kyle J.; Jackson, Audrey; Hillman, Timothy M.  
**Subject:** 168908.14.1000 100924 Mill Creek - Final Kickoff and Site Visit Meeting Minutes

Eileen,

Please find attached the final Mill Creek Kickoff meeting minutes incorporating E.ON's comments.  
Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

nothy M.  
stember 20, 2010 4:09 PM

sen'  
-AQC; Crabtree, Jonathan D.; Wehrly, M. R.; Lausman, Rick L.; Mahabaleshwarkar, Anand; Hintz, Monty E.; Lucas, Kyle J.  
8.14.1000 100920 Mill Creek - Draft Kickoff and Site Visit Meeting Minutes

Eileen,

Please find attached draft meeting minutes from last week's kickoff and Mill Creek site visit. Please provide E.ON's comments back to me by Friday, 9/24.

<< File: Mill Creek Kickoff and Site Walkdown Meeting Minutes with Attachments - Draft.pdf >>

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

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The following attachments were archived from this message:

- Mill Creek Kickoff and Site Walkdown Meeting Minutes - Final with Attachments.pdf

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**From:** Saunders, Eileen  
**To:** Inman, David  
**Sent:** 11/1/2010 9:14:26 AM  
**Subject:** FW: 168908.14.1000 100924 Mill Creek - Final Kickoff and Site Visit Meeting Minutes  
**Attachments:** ArchiveInfo.htm

David,

You may want to make a color copy of this document as well to give to Scott.

Thanks,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Friday, September 24, 2010 2:17 PM  
**To:** Saunders, Eileen  
**Cc:** 168908 E.ON-AQC; Wehrly, M. R.; Lucas, Kyle J.; Jackson, Audrey; Hillman, Timothy M.  
**Subject:** 168908.14.1000 100924 Mill Creek - Final Kickoff and Site Visit Meeting Minutes

Eileen,

Please find attached the final Mill Creek Kickoff meeting minutes incorporating E.ON's comments.  
Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

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nothy M.  
ptember 20, 2010 4:09 PM  
sen'  
-AQC; Crabtree, Jonathan D.; Wehrly, M. R.; Lausman, Rick L.; Mahabaleshwarkar, Anand; Hintz, Monty E.; Lucas, Kyle J.  
8.14.1000 100920 Mill Creek - Draft Kickoff and Site Visit Meeting Minutes

Eileen,

Please find attached draft meeting minutes from last week's kickoff and Mill Creek site visit. Please provide E.ON's comments back to me by Friday, 9/24.

<< File: Mill Creek Kickoff and Site Walkdown Meeting Minutes with Attachments - Draft.pdf >>  
Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com



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- Mill Creek Kickoff and Site Walkdown Meeting Minutes - Final with Attachments.pdf

---

**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**CC:** 168908 E.ON-AQC; Jackson, Audrey; Crabtree, Jonathan D.; Mahabaleshwarkar, Anand; Wehrly, M. R.; Lausman, Rick L.; Hintz, Monty E.; Goodlet, Roger F.; Betz, Alex; Lucas, Kyle J.; Smith, Dave; Mehta, Pratik D.  
**Sent:** 11/1/2010 11:01:49 AM  
**Subject:** 168908.28.3000 101101 - Action Item List  
**Attachments:** ArchiveInfo.htm

Eileen,

Attached is the updated action item list for our weekly Monday conference call following our Mill Creek U4 discussion.

Regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

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- 168908 EON ACTION ITEM LIST.xls

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**From:** Saunders, Eileen  
**To:** 'Hillman, Timothy M.'  
**CC:** Jackson, Audrey; 168908 E.ON-AQC; Wehrly, M. R.; Lucas, Kyle J.  
**Sent:** 11/1/2010 2:38:09 PM  
**Subject:** RE: 168908.14.1000 101027 Draft Meeting Agendas for Mill Creek Validation and Brown Kickoff

Tim,

The agendas both look good. I asked everyone to hold from 9 am to 4 pm but I indicated that I did not think it would take the whole day. Do you think we will need until 4pm or should I adjust the length to 2 or 3 pm?

Thanks,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Wednesday, October 27, 2010 3:23 PM  
**To:** Saunders, Eileen  
**Cc:** Jackson, Audrey; 168908 E.ON-AQC; Wehrly, M. R.; Lucas, Kyle J.  
**Subject:** 168908.14.1000 101027 Draft Meeting Agendas for Mill Creek Validation and Brown Kickoff

Eileen,

Please find attached draft meeting agendas for the Mill Creek validation meeting on Nov 9th, and the Brown Kickoff meeting Nov 10-11. Please advise of any comments or edits. Also, for the Mill Creek validation meeting, we anticipate you will distribute the electronic validation report to the E.ON meeting attendees, as we have an agenda item (# IV) to review the report during the meeting.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Saunders, Eileen  
**To:** Joyce, Jeff; Wright, Paul; Drake, Michael; Smith, Dave; Ayler, Danny; Bickers, Troy; Yocum, James; Scott, Randy  
**CC:** Straight, Scott; 'Hillman, Timothy M.'  
**Sent:** 11/1/2010 2:41:30 PM  
**Subject:** FW: 168908.14.1000 101022 Ghent - Final Kickoff and Site Visit Meeting Minutes  
**Attachments:** ArchiveInfo.htm

All,

Here are the final minutes from the discussion at Ghent.

Thanks,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Friday, October 22, 2010 2:43 PM  
**To:** Saunders, Eileen  
**Cc:** 168908 E.ON-AQC; Jackson, Audrey; Wehrly, M. R.; Lucas, Kyle J.; Mahabaleshwarkar, Anand; Lausman, Rick L.; Hintz, Monty E.; Goodlet, Roger F.; Crabtree, Jonathan D.; Smith, Dave; Mehta, Pratik D.; Bayless, James W. III (Jim); Keltner, Erik J.; King, Michael L. (Mike)  
**Subject:** 168908.14.1000 101022 Ghent - Final Kickoff and Site Visit Meeting Minutes

Eileen,

Please find attached the final Ghent Kickoff meeting minutes. This final version incorporates E.ON's comment below, and picks up a few additional comments/clarifications from B&V team members.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Friday, October 22, 2010 6:36 AM  
**To:** Hillman, Timothy M.  
**Cc:** 168908 E.ON-AQC; Jackson, Audrey; Wehrly, M. R.; Lucas, Kyle J.; Mahabaleshwarkar, Anand; Lausman, Rick L.; Hintz, Monty E.; Goodlet, Roger F.; Crabtree, Jonathan D.  
**Subject:** RE: 168908.14.1000 101012 Ghent - Draft Kickoff and Site Visit Meeting Minutes

Tim,

The notes look fine with one exception: "James Yocun" should read "James Yocum".

Thanks,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]

**Sent:** Tuesday, October 12, 2010 1:53 PM

**To:** Saunders, Eileen

**Cc:** 168908 E.ON-AQC; Jackson, Audrey; Wehrly, M. R.; Lucas, Kyle J.; Mahabaleshwarkar, Anand; Lausman, Rick L.; Hintz, Monty E.; Goodlet, Roger F.; Crabtree, Jonathan D.

**Subject:** 168908.14.1000 101012 Ghent - Draft Kickoff and Site Visit Meeting Minutes

Eileen,

Please find attached draft meeting minutes from the Ghent kickoff. Please provide E.ON's comments by next Tuesday, 10/19.  
Thanks,

**Tim Hillman | Project Manager**

**Power Generation - Environmental Services**

**Black & Veatch - Building a World of Difference™**

11401 Lamar Avenue

Overland Park, KS 66211

Phone: (913) 458-7928

Email: [hillmantm@bv.com](mailto:hillmantm@bv.com)

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- Ghent Kickoff and Site Walkdown Meeting Minutes with Attachments - Final 102210.pdf

---

**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**Sent:** 11/1/2010 3:25:51 PM  
**Subject:** RE: Schedule a discussion

Eileen,

2 pm your time (1 pm my time) works good for me tomorrow. I'll give you a call.

Regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Monday, November 01, 2010 1:35 PM  
**To:** Hillman, Timothy M.  
**Subject:** Schedule a discussion

Tim,

I will be tied up this afternoon. Can we talk tomorrow around 2pm my time? Let me know if that works for you. I have a training class in the morning (that I just remembered) so I need to get a few things taken care of today.

Thanks,

Eileen

---

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**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**Sent:** 11/1/2010 3:29:15 PM  
**Subject:** RE: Name Change

Eileen,

Thanks for the heads up...we will use "LG&E and KU".

Regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Monday, November 01, 2010 1:54 PM  
**To:** Hillman, Timothy M.  
**Subject:** Name Change

Tim,

For your presentation or documents, please cease using E.ON US. This includes your PDMS, agendas and presentations. I would use "LG&E and KU" together, until I gather additional information. I didn't want you to show up next week and have to hear that you were still using E.ON logos!

Thanks,

Eileen

---

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---

**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**CC:** Jackson, Audrey; Wehrly, M. R.; Lucas, Kyle J.; Hintz, Monty E.; Mahabaleshwarkar, Anand; Goodlet, Roger F.  
**Sent:** 11/1/2010 3:33:07 PM  
**Subject:** RE: 168908.14.1000 101027 Draft Meeting Agendas for Mill Creek Validation and Brown Kickoff

Eileen,

Lets go with 3 pm for both meetings.

Thanks,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Saunders, Eileen [mailto:Eileen.Saunders@eon-us.com]  
**Sent:** Monday, November 01, 2010 1:38 PM  
**To:** Hillman, Timothy M.  
**Cc:** Jackson, Audrey; 168908 E.ON-AQC; Wehrly, M. R.; Lucas, Kyle J.  
**Subject:** RE: 168908.14.1000 101027 Draft Meeting Agendas for Mill Creek Validation and Brown Kickoff

Tim,

The agendas both look good. I asked everyone to hold from 9 am to 4 pm but I indicated that I did not think it would take the whole day. Do you think we will need until 4pm or should I adjust the length to 2 or 3 pm?

Thanks,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Wednesday, October 27, 2010 3:23 PM  
**To:** Saunders, Eileen  
**Cc:** Jackson, Audrey; 168908 E.ON-AQC; Wehrly, M. R.; Lucas, Kyle J.  
**Subject:** 168908.14.1000 101027 Draft Meeting Agendas for Mill Creek Validation and Brown Kickoff

Eileen,

Please find attached draft meeting agendas for the Mill Creek validation meeting on Nov 9th, and the Brown Kickoff meeting Nov 10-11. Please advise of any comments or edits. Also, for the Mill Creek validation meeting, we anticipate you will distribute the electronic validation report to the E.ON meeting attendees, as we have an agenda item (# IV) to review the report during the meeting.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue

Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmartn@bv.com

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---

**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**CC:** Lucas, Kyle J.; Wehrly, M. R.; Crabtree, Jonathan D.  
**Sent:** 11/3/2010 10:32:28 AM  
**Subject:** Draft Mill Creek Validation and Brown Kickoff Presentations for Review.  
**Attachments:** ArchiveInfo.htm

Eileen,

Please find attached draft presentations for the Mill Creek validation and Brown kickoff meetings. I'm circulating them to you at the same time as my team for final review.

I believe you'll find the Brown kickoff presentation very similar to the previous ones. We've included slides on PJFF and SCR vs. SNCR as requested.

In the Mill Creek validation presentation, we have included the arrangement sketches for the different options and summarized the major pros and cons of each. These slides should facilitate additional discussions where more detail can be discussed on the attributes of each arrangement. Finally, we have a placeholder in the side deck for the 3-D models of the arrangement alternatives that we are currently working on. I think the 3-D models will be invaluable during our meeting, as a picture speaks a thousand words.

If you could provide a quick review of these and let us know your thoughts by the end of the day, then we will be in a position to finalize them and prepare copies for next week.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

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The following attachments were archived from this message:

- Draft Brown kickoff Presentation 110310.pdf
- Draft Mill Creek Validation Presentation 110310.pdf

---

**From:** Saunders, Eileen  
**To:** Straight, Scott  
**Sent:** 11/4/2010 12:01:00 PM  
**Subject:** FW: Draft Mill Creek Validation and Brown Kickoff Presentations for Review.  
**Attachments:** ArchiveInfo.htm

Scott,

Here are the slides for the Brown and MC presentations next week. I left you a voicemail that I would like you to hear regarding how I told B&V to proceed for the meetings.

Thank you,

Eileen

---

**From:** Hillman, Timothy M. [mailto:HillmanTM@bv.com]  
**Sent:** Wednesday, November 03, 2010 10:32 AM  
**To:** Saunders, Eileen  
**Cc:** Lucas, Kyle J.; Wehrly, M. R.; Crabtree, Jonathan D.  
**Subject:** Draft Mill Creek Validation and Brown Kickoff Presentations for Review.  
**Importance:** High

Eileen,

Please find attached draft presentations for the Mill Creek validation and Brown kickoff meetings. I'm circulating them to you at the same time as my team for final review.

I believe you'll find the Brown kickoff presentation very similar to the previous ones. We've included slides on PJFF and SCR vs. SNCR as requested.

In the Mill Creek validation presentation, we have included the arrangement sketches for the different options and summarized the major pros and cons of each. These slides should facilitate additional discussions where more detail can be discussed on the attributes of each arrangement. Finally, we have a placeholder in the side deck for the 3-D models of the arrangement alternatives that we are currently working on. I think the 3-D models will be invaluable during our meeting, as a picture speaks a thousand words.

If you could provide a quick review of these and let us know your thoughts by the end of the day, then we will be in a position to finalize them and prepare copies for next week.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

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The following attachments were archived from this message:

- Draft Brown kickoff Presentation 110310.pdf
- Draft Mill Creek Validation Presentation 110310.pdf

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**From:** Hillman, Timothy M.  
**To:** Smith, Dave  
**CC:** Wehrly, M. R.; Crabtree, Jonathan D.; Saunders, Eileen; Wright, Paul  
**Sent:** 11/4/2010 4:02:30 PM  
**Subject:** RE: Priority 2 Ghent Data Request

Thanks Dave for your attention to detail and hard work on this!

You have a nice weekend as well.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

---

**From:** Smith, Dave [mailto:Dave.Smith@lge-ku.com]  
**Sent:** Thursday, November 04, 2010 2:52 PM  
**To:** Hillman, Timothy M.  
**Cc:** Wehrly, M. R.; Crabtree, Jonathan D.; Saunders, Eileen; Wright, Paul  
**Subject:** Priority 2 Ghent Data Request  
**Importance:** High

Tim:

Ghent Priority 2 data request information has been placed on IBackup.

Please note: Priority 2, Item 6 (EE/Control for aux loads): We will not have Unit 4 data until 11/12 when the Unit 4 DCS historian is back in service.

If you have any questions, please let me know.

Thanks and have a good weekend.

Dave

David A. Smith  
Power Production Environmental Supervisor  
Ghent Generating Station  
(502) 347-4145  
dave.smith@eon-us.com

---

**NOTE: The extension for all E.ON U.S. e-mail addresses has changed from @eon-us.com to @lge-ku.com. Please update your address book accordingly.**

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---

**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**CC:** 168908 E.ON-AQC; Jackson, Audrey; Wehrly, M. R.; Lucas, Kyle J.; Mahabaleshwarkar, Anand; Hintz, Monty E.; Goodlet, Roger F.; Crabtree, Jonathan D.; Hillman, Timothy M.  
**Sent:** 11/5/2010 11:05:22 AM  
**Subject:** 168908.41.0803 101105 Mill Creek Validation Meeting Presentation - Final  
**Attachments:** ArchiveInfo.htm

Eileen,

Please find attached a PDF of the Mill Creek Validation Meeting Presentation. We plan to bring color copy handouts as well as the electronic PowerPoint to the meeting on November 9th. I assume you can provide the PC projector again.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

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The following attachments were archived from this message:

- Mill Creek Validation Presentation.pdf

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**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**CC:** 168908 E.ON-AQC; Jackson, Audrey; Wehrly, M. R.; Lucas, Kyle J.; Mahabaleshwarkar, Anand; Hintz, Monty E.; Goodlet, Roger F.; Crabtree, Jonathan D.; Hillman, Timothy M.  
**Sent:** 11/5/2010 11:06:03 AM  
**Subject:** 168908.14.1000 101105 Brown Kickoff Meeting Slides - Final  
**Attachments:** ArchiveInfo.htm

Eileen,

Please find attached a PDF of the Brown Kickoff Meeting Presentation. We plan to bring color copy handouts as well as the electronic PowerPoint to the meeting on November 10th. I assume you can provide the PC projector again.

Thanks,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

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- Brown kickoff Presentation 110210.pdf

---

**From:** Hillman, Timothy M.  
**To:** Saunders, Eileen  
**CC:** 168908 E.ON-AQC; Jackson, Audrey; Wehrly, M. R.; Lucas, Kyle J.; Mahabaleshwarkar, Anand; Hintz, Monty E.; Goodlet, Roger F.; Crabtree, Jonathan D.; Hillman, Timothy M.  
**Sent:** 11/5/2010 11:08:01 AM  
**Subject:** 168908.41.0803 101105 Mill Creek Draft Validation Report  
**Attachments:** ArchiveInfo.htm

Eileen,

Please find attached an electronic copy of the Draft Mill Creek AQC Validation Report for your review and LG&E/KU's use during the technology validation meeting next week. The real intent of the draft report is to capture the considerations, reviews, constraints, and analyses conducted to date to validate that the selected AQC technologies could be accommodated and arranged on site with no obvious fatal flaws. The presentation next week will highlight the most salient points of the report, and the report will also serve as a reference document to address any detailed questions that may arise during the course of the meeting.

Finally, you will notice that the conclusion section of the report is incomplete at this point. Following the validation meeting, B&V anticipates that LG&E/KU will complete their review of the report and provide comments and direction as to which arrangement(s) to advance to conceptual design and cost estimating, or if additional information is required in order to make a decision. B&V will then finalize the validation report by incorporating LG&E/KU's comments and completing the conclusions section.

We look forward to meeting with you and your team next week.

Best regards,

**Tim Hillman | Project Manager**  
**Power Generation - Environmental Services**  
**Black & Veatch - Building a World of Difference™**  
11401 Lamar Avenue  
Overland Park, KS 66211  
Phone: (913) 458-7928  
Email: hillmantm@bv.com

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- Draft MC Validation Report 110410.pdf