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| | A | B | C | D | E |
|----|------|---------------------------------|---|---|---|
| 1 | E.ON | E.ON U.S. SERVICES INC. COMPANY | | | |
| 2 | AB | Alex Betz - Mill Creek | | | |
| 3 | DS | Dave Smith - Ghent | | | |
| 4 | ES | Eileen Saunders | | | |
| 5 | GB | Greg Black | | | |
| 6 | GR | Gary Revlett | | | |
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| 16 | | | | | |
| 17 | BV | Black & Veatch (B&V) | | | |
| 18 | TH | Tim Hillman | | | |
| 19 | KL | Kyle Lucas | | | |
| 20 | AM | Anand Mahabaleshwarker | | | |
| 21 | MK | Mike King | | | |
| 22 | RL | Rick Lausman | | | |
| 23 | MW | M.R. Wehrly | | | |
| 24 | MH | Monty Hintz | | | |
| 25 | JB | Jim Bayless | | | |
| 26 | JC | Jonathan Crabtree | | | |

From: Conroy, Robert
To: Schroeder, Andrea; Foxworthy, Carol
Sent: 10/18/2010 1:50:39 PM
Subject: FW: Environmental Compliance-DRAFT
Attachments: Environmental Summay alternate scenario Rev4 - Pras (4) 10-13-10.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: 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

| | A | C | D | E | F | G | H | I | J |
|----|--|---------------------|-------------------|----------------------------|-------------------------------|-----------------|-----------------|------------------|------------------|
| 1 | Environmental Air - CATR by January 2015, NAAQS by January 2016, HAPs by January 2017 | | | | DRAFT | | | | |
| 2 | \$ in thousands | | | | | | | | |
| 3 | | Capital Cost | ECR Filing | Reportable Document | Start Major Commitment | 2011 | 2012 | 2013 | 2014 |
| 4 | Alternate Plan | | | | | | | | |
| 5 | Brown | | | | | | | | |
| 6 | Brown 1 - SCR | \$59,000 | Dec-10 | | See BR- Unit 2 | \$2,950 | \$17,700 | \$23,600 | \$14,750 |
| 7 | Brown 1 - Baghouse | \$34,000 | Dec-10 | | See BR- Unit 2 | \$1,700 | \$11,900 | \$13,600 | \$6,800 |
| 8 | Brown 1 - PAC Injection | \$1,599 | Apr-12 | | See BR- Unit 2 | | | \$800 | \$800 |
| 10 | Brown 1 - SAM Mitigation | \$4,000 | Dec-10 | | | \$200 | \$1,200 | \$1,600 | \$1,000 |
| 12 | Brown 1 - Escalation | \$15,476 | | | | \$371 | \$3,679 | \$6,504 | \$4,922 |
| 13 | Total Brown 1 | \$114,075 | | | | \$5,221 | \$34,479 | \$46,103 | \$28,272 |
| 14 | | | | | | | | | |
| 15 | Brown 2 - SCR | \$92,000 | Dec-10 | | May, 2011 | \$9,200.0 | \$34,500 | \$43,700 | \$4,600 |
| 16 | Brown 2 - Baghouse | \$34,000 | Jul-11 | | May, 2011 | | \$1,360 | \$10,200 | \$10,880 |
| 17 | Brown 2 - PAC Injection | \$2,476 | Apr-13 | | May, 2011 | | | | \$1,238 |
| 20 | Brown 2 - SAM Mitigation | \$4,000 | Dec-10 | | | \$200 | \$1,600 | \$2,200 | |
| 22 | Brown 2 - Escalation | \$21,300 | | | | \$718 | \$4,475 | \$9,214 | \$3,524 |
| 23 | Total Brown 2 | \$153,776 | | | | \$10,118 | \$41,935 | \$65,314 | \$20,242 |
| 24 | | | | | | | | | |
| 27 | Brown 3 - Baghouse | \$61,000 | Apr-12 | | See BR- Unit 2 | | | \$1,830 | \$21,350 |
| 28 | Brown 3 - PAC Injection | \$5,426 | Apr-13 | | See BR- Unit 2 | | | | \$1,000 |
| 31 | Brown 3 - Escalation | \$16,475 | | | See BR- Unit 2 | \$0 | \$0 | \$301 | \$4,711 |
| 32 | Total Brown 3 | \$82,901 | | | | \$0 | \$0 | \$2,131 | \$27,061 |
| 33 | | | | | | | | | |
| 34 | Total Brown | \$350,751 | | | | \$15,339 | \$76,414 | \$113,547 | \$75,575 |
| 35 | | | | | | | | | |
| 36 | Ghent | | | | | | | | |
| 37 | Ghent 1 - Baghouse | \$131,000 | Apr-12 | | See GH-Unit 2 | | | \$3,930 | \$45,850 |
| 38 | Ghent 1 - PAC Injection | \$6,380 | Apr-13 | | See GH-Unit 2 | | | | \$1,000 |
| 42 | Ghent 1 - Escalation | \$34,012 | | | | \$0 | \$0 | \$645 | \$9,876 |
| 43 | Total Ghent 1 | \$171,392 | | | | \$0 | \$0 | \$4,575 | \$56,726 |
| 44 | | | | | | | | | |
| 45 | Ghent 2 - SCR | \$227,000 | Dec-10 | | June, 2011 | \$11,350 | \$68,100 | \$90,800 | \$56,750 |
| 46 | Ghent 2 - Baghouse | \$120,000 | Apr-12 | | June, 2011 | | | \$4,800 | \$42,000 |
| 47 | Ghent 2 - PAC Injection | \$6,109 | Apr-13 | | June, 2011 | | | | \$1,000 |
| 52 | Ghent 2 - Escalation | \$66,928 | | | | \$867 | \$8,135 | \$15,701 | \$21,028 |
| 53 | Total Ghent 2 | \$420,037 | | | | \$12,217 | \$76,235 | \$111,301 | \$120,778 |
| 54 | | | | | | | | | |
| 55 | Ghent 3 - Baghouse | \$138,000 | Apr-12 | | See GH-Unit 2 | | | \$16,560 | \$48,300 |
| 56 | Ghent 3 - PAC Injection | \$6,173 | Apr-13 | | See GH-Unit 2 | | | | \$3,087 |
| 60 | Ghent 3 - Escalation | \$33,660 | | | See GH-Unit 2 | \$0 | \$0 | \$2,720 | \$10,832 |
| 61 | Total Ghent 3 | \$177,833 | | | | \$0 | \$0 | \$19,280 | \$62,219 |
| 62 | | | | | | | | | |
| 63 | Ghent 4 - Baghouse | \$117,000 | Apr-12 | | See GH-Unit 2 | | | \$11,700 | \$40,950 |
| 64 | Ghent 4 - PAC Injection | \$6,210 | Apr-13 | | See GH-Unit 2 | | | | \$3,105 |
| 68 | Ghent 4 - Escalation | \$28,990 | | | | \$0 | \$0 | \$1,922 | \$9,287 |
| 69 | Total Ghent 4 | \$152,200 | | | | \$0 | \$0 | \$13,622 | \$53,342 |
| 70 | | | | | | | | | |
| 71 | Total Ghent | \$921,461 | | | | \$12,217 | \$76,235 | \$148,777 | \$293,065 |
| 72 | | | | | | | | | |

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| 2 | | | | | | |
| 3 | 2015 | 2016 | 2017 | 2018 | Total | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | \$59,000 | \$0 |
| 7 | | | | | \$34,000 | \$0 |
| 8 | | | | | \$1,599 | \$0 |
| 10 | | | | | \$4,000 | \$0 |
| 12 | | | | | \$15,476 | \$0 |
| 13 | \$0 | \$0 | \$0 | \$0 | \$114,075 | \$0 |
| 14 | | | | | | |
| 15 | | | | | \$92,000 | \$0 |
| 16 | \$10,540 | \$1,020 | | | \$34,000 | \$0 |
| 17 | \$1,238 | | | | \$2,476 | \$0 |
| 20 | | | | | \$4,000 | \$0 |
| 22 | \$3,053 | \$316 | | | \$21,300 | \$0 |
| 23 | \$14,831 | \$1,336 | \$0 | \$0 | \$153,776 | \$0 |
| 24 | | | | | | |
| 27 | \$28,670 | \$9,150 | | | \$61,000 | \$0 |
| 28 | \$3,426 | \$1,000 | | | \$5,426 | \$0 |
| 31 | \$8,320 | \$3,142 | | | \$16,475 | \$0 |
| 32 | \$40,416 | \$13,292 | \$0 | \$0 | \$82,901 | \$0 |
| 33 | | | | | | |
| 34 | \$55,248 | \$14,628 | \$0 | \$0 | \$350,751 | \$0 |
| 35 | | | | | | |
| 36 | | | | | | |
| 37 | \$61,570 | \$19,650 | | | \$131,000 | \$0 |
| 38 | \$4,380 | \$1,000 | | | \$6,380 | \$0 |
| 42 | \$17,097 | \$6,393 | | | \$34,012 | \$0 |
| 43 | \$83,047 | \$27,043 | \$0 | \$0 | \$171,392 | \$0 |
| 44 | | | | | | |
| 45 | | | | | \$227,000 | \$0 |
| 46 | \$56,400 | \$16,800 | | | \$120,000 | \$0 |
| 47 | \$4,109 | \$1,000 | | | \$6,109 | \$0 |
| 52 | \$15,686 | \$5,511 | | | \$66,928 | \$0 |
| 53 | \$76,195 | \$23,311 | \$0 | \$0 | \$420,037 | \$0 |
| 54 | | | | | | |
| 55 | \$66,240 | \$6,900 | | | \$138,000 | \$0 |
| 56 | \$3,087 | | | | \$6,173 | \$0 |
| 60 | \$17,972 | \$2,136 | | | \$33,660 | \$0 |
| 61 | \$87,298 | \$9,036 | \$0 | \$0 | \$177,833 | \$0 |
| 62 | | | | | | |
| 63 | \$58,500 | \$5,850 | | | \$117,000 | \$0 |
| 64 | \$3,105 | | | | \$6,210 | \$0 |
| 68 | \$15,970 | \$1,811 | \$0 | \$0 | \$28,990 | \$0 |
| 69 | \$77,575 | \$7,661 | \$0 | \$0 | \$152,200 | \$0 |
| 70 | | | | | | |
| 71 | \$324,115 | \$67,052 | \$0 | \$0 | \$921,461 | \$0 |
| 72 | | | | | | |

| | A | C | D | E | F | G | H | I | J |
|-----|--|--------------------|--------|---|----------------|-----------------|------------------|------------------|------------------|
| 73 | Mill Creek | | | | | | | | |
| 74 | Mill Creek 1 - FGD Upgrade | \$41,250 | Apr-12 | | June, 2011 | | | \$10,313 | \$28,875 |
| 75 | Mill Creek 1 - SCR | \$97,020 | Apr-12 | | December, 2011 | | | \$2,911 | \$27,166 |
| 76 | Mill Creek 1 - Baghouse | \$80,850 | Jul-11 | | See MC-Unit 4 | | \$8,085 | \$28,298 | \$40,425 |
| 77 | Mill Creek 1 - Electrostatic Precipitator | \$0 | | | See MC-Unit 4 | | \$0 | \$0 | \$0 |
| 78 | Mill Creek 1 - PAC Injection | \$4,290 | Jul-11 | | See MC-Unit 4 | | \$429 | \$1,502 | \$2,360 |
| 81 | Mill Creek 1 - SAM Mitigation | \$7,920 | Apr-12 | | | | | \$396 | \$792 |
| 83 | Mill Creek 1 - Escalation | \$52,077 | | | | \$0 | \$1,017 | \$7,131 | \$21,000 |
| 84 | Total Mill Creek 1 | \$283,407 | | | | \$0 | \$9,531 | \$50,549 | \$120,617 |
| 85 | | | | | | | | | |
| 86 | Mill Creek 2 - FGD Upgrade | \$41,250 | Jul-11 | | June, 2011 | | \$10,313 | \$28,875 | \$2,063 |
| 87 | Mill Creek 2 - SCR | \$97,020 | Jul-11 | | December, 2011 | | \$2,911 | \$27,166 | \$29,106 |
| 88 | Mill Creek 2 - Baghouse | \$80,850 | Dec-10 | | See MC-Unit 4 | \$8,085 | \$28,298 | \$40,425 | \$4,043 |
| 89 | Mill Creek 2 - Electrostatic Precipitator | \$33,000 | Dec-10 | | See MC-Unit 4 | \$3,300 | \$11,550 | \$16,500 | \$1,650 |
| 90 | Mill Creek 2 - PAC Injection | \$4,290 | Dec-10 | | See MC-Unit 4 | \$429 | \$1,502 | \$2,360 | |
| 91 | Mill Creek 2 - SAM Mitigation | \$7,920 | Jul-11 | | | | \$396 | \$792 | \$2,376 |
| 92 | Mill Creek 2 - Escalation | \$45,866 | | | | \$903 | \$6,566 | \$19,070 | \$8,271 |
| 93 | Total Mill Creek 2 | \$310,196 | | | | \$12,717 | \$61,534 | \$135,188 | \$47,508 |
| 94 | | | | | | | | | |
| 97 | Mill Creek 3 - FGD (U4 update and tie in) | \$63,750 | Apr-13 | | June, 2011 | | | | \$47,813 |
| 98 | Mill Creek 3 - FGD (Unit 3 Removal) | \$25,500 | Apr-13 | | See MC-Unit 4 | | | | \$6,375 |
| 99 | Mill Creek 3 - Baghouse | \$104,125 | Jul-11 | | See MC-Unit 4 | | \$2,083 | \$31,238 | \$39,568 |
| 100 | Mill Creek 3 - PAC Injection | \$5,525 | Jul-11 | | See MC-Unit 4 | | \$111 | \$1,658 | \$2,100 |
| 101 | Mill Creek 3 - Escalation | \$43,488 | | | | \$0 | \$262 | \$5,402 | \$20,206 |
| 102 | Total Mill Creek 3 | \$242,388 | | | | \$0 | \$2,455 | \$38,297 | \$116,061 |
| 103 | | | | | | | | | |
| 104 | Mill Creek 4 - FGD | \$236,250 | Dec-10 | | March, 2011 | \$18,900 | \$80,325 | \$89,775 | \$47,250 |
| 105 | Mill Creek 4 - SCR Upgrade | \$5,250 | Dec-10 | | June, 2011 | \$4,200 | \$1,050 | | |
| 106 | Mill Creek 4 - Baghouse | \$131,250 | Dec-10 | | March, 2011 | \$5,250 | \$45,938 | \$52,500 | \$27,563 |
| 107 | Mill Creek 4 - PAC Injection | \$6,825 | Dec-10 | | March, 2011 | \$273 | \$2,389 | \$2,730 | \$1,433 |
| 108 | Mill Creek 4 - Ammonia | \$10,500 | Dec-10 | | June, 2011 | \$5,250 | \$5,250 | | |
| 109 | Mill Creek 4 - Escalation | \$58,596 | | | | \$2,588 | \$16,121 | \$23,815 | \$16,073 |
| 110 | Total Mill Creek 4 | \$448,671 | | | | \$36,461 | \$151,072 | \$168,820 | \$92,319 |
| 111 | | | | | | | | | |
| 112 | Total Mill Creek | \$1,284,663 | | | | \$49,177 | \$224,592 | \$392,854 | \$376,505 |
| 113 | | | | | | | | | |
| 114 | Trimble | | | | | | | | |
| 115 | Trimble 1 - Baghouse | \$128,000 | Apr-12 | | December, 2012 | | | \$12,800 | \$44,800 |
| 116 | Trimble 1 - PAC Injection | \$6,451 | Apr-13 | | December, 2012 | | | | \$3,226 |
| 117 | Trimble 1 - Escalation | \$31,635 | | | | \$0 | \$0 | \$2,102 | \$10,124 |
| 118 | Total Trimble 1 | \$166,086 | | | | \$0 | \$0 | \$14,902 | \$58,149 |
| 119 | | | | | | | | | |
| 120 | Total Trimble | \$166,086 | | | | \$0 | \$0 | \$14,902 | \$58,149 |
| 121 | | | | | | | | | |
| 122 | Total Environmental Compliance Air - Alternate Plan | \$2,722,961 | | | | \$76,733 | \$377,241 | \$670,080 | \$803,294 |
| 123 | | | | | | | | | |
| 124 | | | | | | | | | |
| 125 | Scope | \$2,274,459 | | | | | | | |
| 126 | Escalation | \$448,502 | | | | | | | |
| 127 | | \$2,722,961 | | | | | | | |

| | K | L | M | N | O | P |
|-----|------------------|------------------|----------------|------------|--------------------|------------|
| 73 | | | | | | |
| 74 | \$2,063 | | | | \$41,250 | \$0 |
| 75 | \$29,106 | \$35,897 | \$1,940 | | \$97,020 | \$0 |
| 76 | \$4,043 | | | | \$80,850 | \$0 |
| 77 | \$0 | | | | \$0 | \$0 |
| 78 | | | | | \$4,290 | \$0 |
| 81 | \$2,376 | \$3,960 | \$396 | | \$7,920 | \$0 |
| 83 | \$9,744 | \$12,340 | \$846 | | \$52,077 | \$0 |
| 84 | \$47,331 | \$52,197 | \$3,182 | \$0 | \$283,407 | \$0 |
| 85 | | | | | | |
| 86 | | | | | \$41,250 | \$0 |
| 87 | \$35,897 | \$1,940 | | | \$97,020 | \$0 |
| 88 | | | | | \$80,850 | \$0 |
| 89 | | | | | \$33,000 | \$0 |
| 90 | | | | | \$4,290 | \$0 |
| 91 | \$3,960 | \$396 | | | \$7,920 | \$0 |
| 92 | \$10,332 | \$723 | \$0 | | \$45,866 | \$0 |
| 93 | \$50,190 | \$3,060 | \$0 | \$0 | \$310,196 | \$0 |
| 94 | | | | | | |
| 97 | \$15,938 | | | | \$63,750 | \$0 |
| 98 | \$19,125 | | | | \$25,500 | \$0 |
| 99 | \$31,238 | | | | \$104,125 | \$0 |
| 100 | \$1,658 | | | | \$5,525 | \$0 |
| 101 | \$17,617 | \$0 | | | \$43,488 | \$0 |
| 102 | \$85,575 | \$0 | \$0 | \$0 | \$242,388 | \$0 |
| 103 | | | | | | |
| 104 | | | | | \$236,250 | \$0 |
| 105 | | | | | \$5,250 | \$0 |
| 106 | | | | | \$131,250 | \$0 |
| 107 | | | | | \$6,825 | \$0 |
| 108 | | | | | \$10,500 | \$0 |
| 109 | \$0 | | | | \$58,596 | \$0 |
| 110 | \$0 | \$0 | \$0 | \$0 | \$448,671 | \$0 |
| 111 | | | | | | |
| 112 | \$183,095 | \$55,257 | \$3,182 | \$0 | \$1,284,663 | \$0 |
| 113 | | | | | | |
| 114 | | | | | | |
| 115 | \$64,000 | \$6,400 | | | \$128,000 | \$0 |
| 116 | \$3,226 | | | | \$6,451 | \$0 |
| 117 | \$17,427 | \$1,981 | | | \$31,635 | \$0 |
| 118 | \$84,653 | \$8,381 | \$0 | \$0 | \$166,086 | \$0 |
| 119 | | | | | | |
| 120 | \$84,653 | \$8,381 | \$0 | \$0 | \$166,086 | \$0 |
| 121 | | | | | | |
| 122 | \$647,111 | \$145,319 | \$3,182 | \$0 | \$2,722,961 | \$0 |
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| 134 | 3.5% | 3.5% | 3.5% | 3.5% | 3.5% | |
| 135 | 4 | 5 | 6 | 7 | 8 | |

| | A | B | D | E | F | G | H | I | J | K | L | M | N |
|----|---|--|-----------|---|----------|----------|----------|----------|----------|----------|---------|------|-----------|
| 1 | | Environmental Air - CATR by January 2015, NAAQS by January 2016, HAPs by January 2017 | | | | | | | | | | | |
| 2 | | \$ in thousands | | | | | | | | | | | |
| 3 | | Capital Cost | | | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | Total |
| 4 | | Alternate Plan | | | | | | | | | | | |
| 5 | 1 | Brown 1 - SCR | \$59,000 | | \$2,950 | \$17,700 | \$23,600 | \$14,750 | | | | | \$59,000 |
| 6 | 1 | Brown 1 - Baghouse | \$34,000 | | \$1,700 | \$11,900 | \$13,600 | \$6,800 | | | | | \$34,000 |
| 7 | 1 | Brown 1 - SAM Mitigation | \$4,000 | | \$200 | \$1,200 | \$1,600 | \$1,000 | | | | | \$4,000 |
| 10 | 1 | Brown 2 - SCR | \$92,000 | | \$9,200 | \$34,500 | \$43,700 | \$4,600 | | | | | \$92,000 |
| 11 | 1 | Brown 2 - SAM Mitigation | \$4,000 | | \$200 | \$1,600 | \$2,200 | | | | | | \$4,000 |
| 12 | 1 | Ghent 2 - SCR | \$227,000 | | \$11,350 | \$68,100 | \$90,800 | \$56,750 | | | | | \$227,000 |
| 16 | 1 | Mill Creek 2 - Baghouse | \$80,850 | | \$8,085 | \$28,298 | \$40,425 | \$4,043 | | | | | \$80,850 |
| 19 | 1 | Mill Creek 2 - Electrostatic Precipitator | \$33,000 | | \$3,300 | \$11,550 | \$16,500 | \$1,650 | | | | | \$33,000 |
| 20 | 1 | Mill Creek 2 - PAC Injection | \$4,290 | | \$429 | \$1,502 | \$2,360 | | | | | | \$4,290 |
| 23 | 1 | Mill Creek 4 - FGD | \$236,250 | | \$18,900 | \$80,325 | \$89,775 | \$47,250 | | | | | \$236,250 |
| 24 | 1 | Mill Creek 4 - SCR Upgrade | \$5,250 | | \$4,200 | \$1,050 | | | | | | | \$5,250 |
| 28 | 1 | Mill Creek 4 - Baghouse | \$131,250 | | \$5,250 | \$45,938 | \$52,500 | \$27,563 | | | | | \$131,250 |
| 29 | 1 | Mill Creek 4 - PAC Injection | \$6,825 | | \$273 | \$2,389 | \$2,730 | \$1,433 | | | | | \$6,825 |
| 30 | 1 | Mill Creek 4 - Ammonia | \$10,500 | | \$5,250 | \$5,250 | | | | | | | \$10,500 |
| 35 | 2 | Brown 2 - Baghouse | \$34,000 | | | \$1,360 | \$10,200 | \$10,880 | \$10,540 | \$1,020 | | | \$34,000 |
| 36 | 2 | Mill Creek 1 - Baghouse | \$80,850 | | | \$8,085 | \$28,298 | \$40,425 | \$4,043 | | | | \$80,850 |
| 37 | 2 | Mill Creek 1 - PAC Injection | \$4,290 | | | \$429 | \$1,502 | \$2,360 | | | | | \$4,290 |
| 41 | 2 | Mill Creek 2 - FGD Upgrade | \$41,250 | | | \$10,313 | \$28,875 | \$2,063 | | | | | \$41,250 |
| 42 | 2 | Mill Creek 2 - SCR | \$97,020 | | | \$2,911 | \$27,166 | \$29,106 | \$35,897 | \$1,940 | | | \$97,020 |
| 46 | 2 | Mill Creek 2 - SAM Mitigation | \$7,920 | | | \$396 | \$792 | \$2,376 | \$3,960 | \$396 | | | \$7,920 |
| 47 | 2 | Mill Creek 3 - Baghouse | \$104,125 | | | \$2,083 | \$31,238 | \$39,568 | \$31,238 | | | | \$104,125 |
| 48 | 2 | Mill Creek 3 - PAC Injection | \$5,525 | | | \$111 | \$1,658 | \$2,100 | \$1,658 | | | | \$5,525 |
| 49 | 3 | Brown 1 - PAC Injection | \$1,599 | | | | \$800 | \$800 | | | | | \$1,599 |
| 50 | 3 | Brown 3 - Baghouse | \$61,000 | | | | \$1,830 | \$21,350 | \$28,670 | \$9,150 | | | \$61,000 |
| 53 | 3 | Ghent 1 - Baghouse | \$131,000 | | | | \$3,930 | \$45,850 | \$61,570 | \$19,650 | | | \$131,000 |
| 55 | 3 | Ghent 2 - Baghouse | \$120,000 | | | | \$4,800 | \$42,000 | \$56,400 | \$16,800 | | | \$120,000 |
| 56 | 3 | Ghent 3 - Baghouse | \$138,000 | | | | \$16,560 | \$48,300 | \$66,240 | \$6,900 | | | \$138,000 |
| 57 | 3 | Ghent 4 - Baghouse | \$117,000 | | | | \$11,700 | \$40,950 | \$58,500 | \$5,850 | | | \$117,000 |
| 58 | 3 | Mill Creek 1 - FGD Upgrade | \$41,250 | | | | \$10,313 | \$28,875 | \$2,063 | | | | \$41,250 |
| 59 | 3 | Mill Creek 1 - SCR | \$97,020 | | | | \$2,911 | \$27,166 | \$29,106 | \$35,897 | \$1,940 | | \$97,020 |
| 60 | 3 | Mill Creek 1 - SAM Mitigation | \$7,920 | | | | \$396 | \$792 | \$2,376 | \$3,960 | \$396 | | \$7,920 |
| 63 | 3 | Trimble 1 - Baghouse | \$128,000 | | | | \$12,800 | \$44,800 | \$64,000 | \$6,400 | | | \$128,000 |
| 64 | 4 | Brown 2 - PAC Injection | \$2,476 | | | | | \$1,238 | \$1,238 | | | | \$2,476 |
| 65 | 4 | Brown 3 - PAC Injection | \$5,426 | | | | | \$1,000 | \$3,426 | \$1,000 | | | \$5,426 |
| 66 | 4 | Ghent 1 - PAC Injection | \$6,380 | | | | | \$1,000 | \$4,380 | \$1,000 | | | \$6,380 |
| 67 | 4 | Ghent 2 - PAC Injection | \$6,109 | | | | | \$1,000 | \$4,109 | \$1,000 | | | \$6,109 |
| 68 | 4 | Ghent 3 - PAC Injection | \$6,173 | | | | | \$3,087 | \$3,087 | | | | \$6,173 |
| 69 | 4 | Ghent 4 - PAC Injection | \$6,210 | | | | | \$3,105 | \$3,105 | | | | \$6,210 |
| 70 | 4 | Mill Creek 3 - FGD (U4 update and tie in) | \$63,750 | | | | | \$47,813 | \$15,938 | | | | \$63,750 |
| 71 | 4 | Mill Creek 3 - FGD (Unit 3 Removal) | \$25,500 | | | | | \$6,375 | \$19,125 | | | | \$25,500 |
| 72 | 4 | Trimble 1 - PAC Injection | \$6,451 | | | | | \$3,226 | \$3,226 | | | | \$6,451 |
| 73 | | | | | | | | | | | | | |
| 74 | | | | | | | | | | | | | |
| 75 | | | | | | | | | | | | | |

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| 77 | | | | | | | | | | | | | |
| 78 | | | | | | | | | | | | | |
| 79 | | | | | 3.5% | 3.5% | 3.5% | 3.5% | 3.5% | 3.5% | 3.5% | 3.5% | |
| 80 | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |

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: EON Monthly Progress Report - Septemebr 2010.pdf

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



E.ON U.S. Services Inc.
Phase II Air Quality Control Study
Monthly Project Progress Report

B&V Project: 168908
B&V File 28.0000
October 8, 2010

Email

Subject: Progress Report for
September 7, 2010 to October 1, 2010

Attention: Eileen Saunders
Project Manager

Dear Eileen:

Please find below Black & Veatch's (B&V) Project Progress Report for the E.ON Air Quality Control Study for the subject period. The financial summaries listed below include billings for this period.

The following is a summary of activities B&V completed or performed during this reporting period.

- Continued receiving and reviewing additional information throughout the period.
- Updated project action item list throughout the month. See open action items below.
- Participated in administrative kickoff meeting in Louisville on 9/13/2010.
- Participated in Mill Creek kick off meeting and site walk downs 9/13 to 9/15/2010.
- Sent Mill Creek 1 and 2 SCR acceleration email to E.ON on 9/17/2010.
- Updated PIM with information from 9/14/2010 administration kickoff meeting. Issued PIM Revision B to E.ON for their use in establishing project administrative procedures on 9/24/2010.
- Issued draft administration and Mill Creek meeting minutes and attachments to E.ON for review on 9/20/2010. Requested comments by 9/24. Received E.ON comments on draft meeting minutes on 9/24/2010. Incorporated comments and issued as final.
- Held internal B&V kick-off meeting with the project team on 9/21/2010.
- Established Ghent Kickoff dates of 10/6 and 10/7/2010.
- Received CD from E.ON on 9/27/2010 in response to Action Items 13 and 14 (Structural Steel Reports and minimum access dimensions box.) Reviewed and issued additional information request to E.ON on 9/28/2010.
- Held first Monday weekly project conference call/meeting on 9/24/2010.
- Developed and issued Draft Ghent Kickoff Meeting Agenda to E.ON for comment and review on 9/28/2010. Received E.ON comments on 9/30/2010. Issued final Ghent kickoff agenda to E.ON on 10/1/2010.

E.ON U.S. Services Inc.
Phase II Air Quality Control Study
Monthly Project Progress Report

B&V Project: 168908
October 8, 2010

- Sent Mill Creek Data Request and iBackup procedures for data transfer to E.ON on 9/29/2010. Issued priority list with due dates to E.ON for Mill Creek Data Request on 10/1/2010.
- Sent question to E.ON regarding which fuel analysis to use (current or future) for Mill Creek, Ghent, and Brown on 9/29/2010.
- Began development of the Project Design Memorandum (PDM) for Mill Creek. Issued for internal review on 9/23/2010.

The following activities are anticipated to be undertaken or occur during the next reporting period.

- Continue development of the AQC validation for Mill Creek
- Issue Mill Creek PDM for E.ON review.
- Develop preliminary site arrangement for Mill Creek and issue to E.ON for review.
- Attend Ghent kickoff meeting and site visit scheduled for 10/5 and 10/6/2010.
- Issue Ghent data request with priority list.
- Begin development of the Ghent PDM.
- Begin development of Ghent preliminary site arrangement.
- Begin development of the AQC validation for Ghent.
- Schedule E.W. Brown kickoff meeting and site visit.

The following is a list of the current open action items.

| ITEM # | SOURCE | | DESCRIPTION | FILE NO. | RESPONSIBILITY | | DATE ADDED | ORIG DUE DATE | CURR DUE DATE | NOTES |
|--------|----------------------------|---------|--|----------|----------------|-------|------------|---------------|---------------|---|
| | DOC/MTNG | DATE | | | CO. | IND | | | | |
| | GENERAL | | | | | | | | | |
| 11 | KO & MC Site Visit Minutes | 9/20/10 | Evaluate pros and cons of NID system for November technology validation presentation | 14.1000 | B&V | AM/RL | 09/21/10 | Nov. 2010 | | Started - B&V met with Alstom Rep week of 9/13. |
| 13 | KO & MC Site Visit Minutes | 9/20/10 | Provide structural steel study assessments | 14.1000 | E.ON | ES | 09/21/10 | 09/24/10 | 09/30/10 | CD received 9/27. Units 1, 2, and 4 on CD. Unit 3 still needed. Email request sent on 9/28. |
| 14 | KO & MC Site Visit Minutes | 9/20/10 | Provide minimum access dimension box | 14.1000 | E.ON | ES | 09/21/10 | 09/24/10 | 09/30/10 | CD received 9/27. Access Dimension not included. |

E.ON U.S. Services Inc.
Phase II Air Quality Control Study
Monthly Project Progress Report

B&V Project: 168908
October 8, 2010

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|-------------------|----------------------------|---------|--|---------|------------|---------|----------|----------|-----|--|
| | | | | | | | | | | Email request sent 9/28. |
| 18 | Email 41.0100 100929 | 9/29/10 | Choose the coal fuel design basis for Mill Creek, Ghent, and Brown between current and future coal analyses. | 41.0100 | E.ON | ES | 09/30/10 | 10/06/10 | | |
| 4 | KO & MC Site Visit Minutes | 9/20/10 | Use B&V file system to set up E.ON document storage | 14.1000 | E.ON | ES | 09/21/10 | TBD | | Planning to start set up of file system on 9/28. |
| 7 | KO & MC Site Visit Minutes | 9/20/10 | Determine personnel assignments for document review | 14.1000 | E.ON | ES | 09/21/10 | TBD | | MC - Alex Betz and a couple others at plant. |
| 12 | KO & MC Site Visit Minutes | 9/20/10 | Schedule vendors for evaluation of existing scrubbers | 14.1000 | E.ON | ES | 09/21/10 | TBD | | |
| MILL CREEK | | | | | | | | | | |
| 15 | KO & MC Site Visit Minutes | 9/20/10 | Review B&V electrical study conducted in the 1990s | 14.1000 | B&V | JB | 09/21/10 | 09/24/10 | TBD | B&V could not locate study. Added to Data Request. Will review when E.ON provides study. |
| 1 | KO & MC Site Visit Minutes | 9/20/10 | Determine location for Mill Creek Task 6 Technology Selection meeting during 2nd week of November. | 14.1000 | E.ON | ES | 09/21/10 | 10/15/10 | | Potentially to be held in KC (9/27). |
| 16 | KO & MC Site Visit Minutes | 9/20/10 | Evaluate the possibility of accelerating the installation of SCRs on Mill Creek Units 1 and 2 | 14.1000 | E.ON & B&V | ES & TH | 09/21/10 | TBD | | B&V email addressed the acceleration of the SCR install for MC 1 & 2 (9/17). E.ON replied no change in |

E.ON U.S. Services Inc.
Phase II Air Quality Control Study
Monthly Project Progress Report

B&V Project: 168908
October 8, 2010

| | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--------------------------------------|
| | | | | | | | | | | direction at this time (9/27). |
|--|--|--|--|--|--|--|--|--|--|--------------------------------------|

The following items are especially critical to the project's success and are specifically listed below so appropriate action can be taken:

- (None to date)

Summary of Engineering Costs

Listed below is a summary of the engineering costs through this reporting period:

| | |
|---|-----------------|
| Billings this period | \$64,950.63 |
| Previous billings | \$0 |
| Total Billings to Date | \$64,950.63 |
| E.ON U.S. Services Inc. Contract 496789, Black & Veatch Corporation Air Quality Control Study | \$1, 510,593.00 |

Listed below is the breakout of engineering costs through this reporting period which are attributable to out-of-scope items.

(None to date)

The following is a list of out-of-scope activities which we have been requested to perform.

| # | DESCRIPTION | Source |
|---|----------------|--------|
| 1 | (None to date) | |
| 2 | | |
| 3 | | |

E.ON U.S. Services Inc.
Phase II Air Quality Control Study
Monthly Project Progress Report

B&V Project: 168908
October 8, 2010

If there are any questions or information needing clarification on the above progress report, please contact me at 913-458-7928 or M.R. Wehrly at 913-458-7131.

Very truly yours,

BLACK & VEATCH

A handwritten signature in black ink, appearing to read "Timothy M. Hillman". The signature is fluid and cursive, with a period at the end.

Timothy M. Hillman
Project Manager

TMH/MRW

CC: Project File
Audrey Jackson (E.ON)
Mike Mooney (E.ON)
Dave Harris (B&V)
Mike King (B&V)
M.R. Wehrly (B&V)
Kyle Lucas (B&V)
All via email

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: Draft Ghent Kickoff and Site Walkdown Meeting Minutes - 101210 with attachments.pdf

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

DRAFT**BLACK & VEATCH CORPORATION
CONFERENCE MEMORANDUM**

E.ON US
Phase II: Air Quality Control Study
Ghent Kick-off and Site Visit

B&V Project 168908
B&V File 14.1000
October 12, 2010

A kick-off and site walk down meeting was held October 6-7th at the Ghent Generating Station for the Phase II: Air Quality Control Study Project.

Recorded by: Tim Hillman

Attending:

Ghent Kick-off Meeting, October 6th

| | |
|------------------------|-----------|
| Eileen Saunders | E.ON |
| Mike Mooney | E.ON |
| Gary Revlett | E.ON |
| James Yocun | KU |
| Randy Scott | LG&E - KU |
| Greg Jones | LG&E - KU |
| Jeff Joyce | KU |
| Danny Ayler | KU |
| Troy Bickers | KU |
| Paul Wright | KU |
| Mike Drake | KU |
| Dave Smith | KU |
| Tim Hillman | B&V |
| M.R. Wehrly | B&V |
| Anand Mahabaleshwarkar | B&V |
| Kyle Lucas | B&V |
| Rick Lausman | B&V |
| Monty Hintz | B&V |
| Roger Goodlet | B&V |

The purpose of this meeting was to 1) present the project scope and Phase I study results to the Ghent facility personnel, and 2) provide for a site visit and walk down of the Ghent facility. The above attendance list reflects those attending the initial kick-off meeting at Ghent. (Agenda and Attendance Roster attached herein for reference).

MEETING DISCUSSION**Day 1, October 6, 2010**

The kick-off meeting began at 9 am at Ghent.

1. Eileen began the meeting with introductions and a brief summary of the project scope. E.ON requested B&V to prepare a data request with priority dates similar to that developed for Mill Creek. (Action Item #1)
2. E.ON (Gary Revlett) provided a review of all the regulations and environmental controls that are driving the capital projects. (Presentation attached herein for reference).
 - NAAQS

DRAFT

CONFERENCE MEMORANDUM

Page 2

E.ON US
Ghent Kick-off and Site Visit

B&V Project 168908
October 12, 2010

- Clean Air Transport Rule - CATR
 - Electric Generating Unit Maximum Achievable Control Technology - EGU MACT
3. The change from annual average to a one (1) hour limit for NAAQS causes the biggest issues; even the diesel fired units may have issues on the site. The impact of one hour limits will be based on monitoring of stack emissions coupled with modeling done for the plume dispersion.
 4. SO₂ should not be a problem for the Ghent units since the existing FGDs basically achieve +98% removal on the units and the modeling shows that they require 96% removal on a plant average.
 5. Compliance dates are very short and the industry has commented that insufficient implementation time is included for CATR Phase 1 in 2012 and Phase 2 in 2014.
 6. CATR is the driving force for Ghent for both SO₂ and NO_x.
 7. Hg is an issue at Ghent. However, E.ON hopes that with the addition of an SCR on Unit 2, acceptable Hg control may be achieved without additional modifications.
 8. E.ON provided an updated table that can be used as the initial Ghent design basis titled: "Estimated Limits & Compliance Dates for Future New Air Requirements Ghent Station". (Attached herein for reference).
 9. E.ON believes Ghent will likely meet the new NAAQS standards because of the existing scrubbers and SCRs.
 10. CATR NO_x and SO₂ limits are aggressive because allowance modeling for the plant assumed a new SCR on Unit 2. Ghent SO₂ allowances for SO₂ in 2014 are higher for some reason than the 2012 allowances. This maybe an error in the CATR model.
 11. B&V provided a presentation of the Ghent Phase I results and an overview of a PJFF. (Power Point Presentation attached herein for reference). The following general characteristics of a pulse jet fabric filter (PJFF) were discussed.
 - Pressure drop can be 6-8 inches through the PJFF. The increased system pressure drop will require increased ID fan capacity. Upgrade of the existing ID fans, the addition of booster fans, or new replacement ID fans will be required. E.ON emphasized that, if possible, the fans should be located downstream of the PJFF to minimize erosion and damage by dust loading.
 - PJFF bags are normally made of polyphenylene sulfide (PPS) materials, but materials such as fiberglass with a Teflon membrane have been used in specific applications. Temperature constraints on PPS bags are in the range of 380-400 °F continuous operation. Bags woven of fiberglass material can safely be subjected to 500 °F over the short term. The temperature limits require PJFFs to be installed downstream of the air heater.
 - PJFFs are compartmentalized with isolation between compartments to allow online maintenance of bags and compartment equipment.
 - The differences between PJFFs and reverse gas fabric filters were described and discussed.
 - Bag life for a PJFF is typically 3 years by guarantee. The PJFF is harder on the bags during cleaning than a reverse gas fabric filter due to the high, short-duration air pulse used.

DRAFT

CONFERENCE MEMORANDUM

Page 3

E.ON US
Ghent Kick-off and Site Visit

B&V Project 168908
October 12, 2010

- Dimensions of PJFF vary by manufacturer and are based on gas flow. A “typical” PJFF for a Ghent-sized unit would have an approximately 90 foot x140 foot footprint.
 - An advantage of PJFF installation is that its performance is generally independent of the ash type and is based primarily on flue gas volume. A PJFF could allow burning of PRB coal in the future. This flexibility will be considered in the study.
 - One question to be considered is whether Ghent needs to keep the hot-side ESPs, either for ash scavenging or because the existing SCRs are the low-dust type. B&V noted that a change in catalyst could convert the SCRs to operate in high-dust conditions if the possibility of lower catalyst life is acceptable.
 - The area and facilities for dry ash conversion and ash handling need to be considered with this study. E.ON commented that B&V had previously completed an ash handling study and that the AQC study must be coordinated with the plans developed in the ash handling study.
12. B&V provided an overview of the Phase I study results. Two additional points were also noted and discussed.
- B&V may consider designing the Unit 2 SCR as high-dust units from the onset, allowing deletion of the existing ESPs at Unit 2 if warranted by congestion and construction difficulties.
 - B&V asked if E.ON needs to sell fly ash. Saleable fly ash would require “scalping” of the fly ash upstream of PAC injection and require the retention and use of the existing ESPs. E.ON would like to sell fly ash on an opportunistic basis, but is not necessarily tied to the existing ESPs.
13. EON made the following general comments.
- E.ON wants any new axial fans to be downstream of the PJFFs.
 - E.ON asked B&V to investigate a refined layout for Unit 3 PJFF that would reduce the ductwork runs indicated in the Phase I study.
 - The courtyard area between Units 2 and 3 can be used for siting new equipment. The various maintenance shops on the south side of the courtyard could be relocated. There is no “sacred ground” onsite that must be avoided in locating new facilities. However, retention or re-establishment of the ground level breezeway and the overhead skyway between Units 2 and 3 is desirable.
14. A plant walk down of Units 1-4 was conducted until approximately 3 pm.
15. After the walk down, B&V personnel convened in the Ghent conference room to review preliminary arrangement sketches and begin preparations for the debriefing meeting.
16. Day 1 activities adjourned at approximately 6 pm.

Day 2, October 7, 2010

The second day of meetings began at 8 am at Ghent.

17. B&V began Day 2 by preparing some initial sketch arrangements for Units 1-4 in preparation for a site de-briefing scheduled later in the afternoon.

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18. At approximately 10 am, B&V resumed site walk downs, splitting into two groups to ground-verify some assumptions made in the initial arrangement sketches.
19. A site debriefing meeting was convened at 1 pm. The following are the general and unit specific discussions that ensued. (Initial arrangement sketches attached herein).
 - General comments:
 - B&V believes it will likely not be feasible to reuse/upgrade the existing ID fans to avoid the addition of new booster or ID fans. Physical constraints on routing duct to and from the existing ID inlet fans is problematic. Locating the PJFFs to protect all of the existing ID fans is not practical in all cases, even for the axial fans at Units 3 and 4. The Unit 3 fans can be incorporated into the revised AQC system, but only in a location that may not be beneficial. B&V fan experts will review this, but new ID fans or booster fans are expected to be required for all units.
 - Unit 1:
 - Sorbent injection will need to be relocated in the duct work to near the inlet of the PJFF. E.ON questioned whether the PJFF vendors would be willing to offer SO₃ guarantees based on sorbent injection. B&V noted that if the vendor is awarded both sorbent injection and the PJFF as a single package he will likely offer some guarantees, but the specific level will have to be negotiated.
 - Concern was expressed with the elevated PJFF for Unit 1 being located close to the Unit 2 cooling tower. B&V will investigate and provide opinions on the overall affect of the new structures on cooling tower performance and level of icing that could result.
 - If the impact to performance warrants it, it was discussed that a couple cells could be added to the east end of the tower to increase the overall tower capacity or allow impacted cells to be taken out of service.
 - Alternate arrangements at Unit 1 appear very limited at this time. E.ON asked about relocating Unit 2's cooling tower to make more room for Unit 1 PJFF. The major issue with that approach is where to relocate the cooling tower. The potential of locating the new cooling tower towards the river or to the east of Unit 1's cooling tower was discussed. Any new construction towards the river, either relocating the Unit 2 cooling tower or the plant reagent piperack, would likely trigger permit concerns with the COE. Building a new tower in the "rock pile" area (formerly the limestone storage area east of the plant) was also discussed. Routing of the underground circulating water lines potentially would be a major issue.
 - Unit 2
 - Because of the high level of congestion in the existing arrangement at Unit 2, plus the need to add a PJFF, B&V considered three alternatives for the SCR location at Unit 2. Two alternatives (Alternates 1 & 3) include split SCR's – two separate reactors, one for each ESP train, with the only difference between the alternatives being the location of the west side SCR.
 - Alternate 1 locates the west SCR in the area just west of the west ID fan and the east SCR above the tower support for the Unit 1 SCR's. The area

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west of the ID fans appears sufficiently open to allow construction of a tower support for the SCR. The advantage of this arrangement is the short runs of ductwork required.

- Alternate 3 locates the west SCR along the west side of the Unit 2 boiler structure and the east SCR in the same location as Alternate 1. The approach suggested in the Phase 1 study of locating both split SCRs on the west side of the boiler structure would be problematic because of the difficulty of routing duct work from east side Unit 2 duct to the courtyard and back.
- Alternate 2 is similar to that used for the Unit 1 SCR, with a combined SCR located above the ESPs. However, the area beneath the SCRs in Alternate 2 is very congested, making foundation design and installation extremely difficult. Moreover, the lack of nearby open area will limit crane access and greatly complicate constructability. Assuming sufficient free area is found to accommodate the necessary foundations, Alternate 1 is more favorable to construction and the most likely option.
- Low dust SCRs will be assumed for Unit 2 unless elimination of the existing ESPs is warranted for some other reason.
- E.ON has previous studies about locating the SCR modules in the courtyard. E.ON offered to provide these studies to B&V. B&V will add these studies to the Ghent Information Request.
- The Unit 2 PJFF is assumed to be located north of the existing ESPs and ductwork. It appears that a short temporary bypass connecting the airheater outlet duct and the ductwork to the scrubber inlet would allow installation of a PJFF in this area with the unit on line. The completed PJFF would be tied into the system during an outage. The new booster or ID fans for Unit 2 (not shown on the arrangement sketches) would tentatively be located at the west (downstream) end of the new PJFF.
- Unit 3
 - The preliminary arrangement sketches show the PJFF location in the courtyard, requiring relocation of the maintenance shop. E.ON has some ideas where the shop could be relocated. As currently configured, new booster or ID fans could be added south of the PJFF without impacting the existing tanks south of the shop.
 - The skyway connecting Units 2 and 3 would need to be temporarily removed, and then routed around the south side of the PJFF. The skyway may be used to provide access from the turbine buildings to the PJFF. To avoid re-routing of the significant amount of interconnecting pipe located in the ground level breezeway between units, the PJFF would be designed to span over this piping and allow the breezeway structure to remain in place, if practical.
- Unit 4
 - The most likely location for the new PJFF is between the existing Unit 4 ESP area and the Unit 3 cooling tower as shown on the sketch. This location avoids the circ water pipe and most of the underground utilities in the area.

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- The ID fans currently being installed at Unit 4 would be difficult to incorporate into the ductwork system running to the new PJFF and back, as shown on the arrangement sketches. For that reason, new ID fans located near the PJFF and sized to replace the ID fans would be the most likely option due to constructability, access, and outage considerations. New ID fans in this location would allow relatively easy connection directly to the ductwork at the FGD inlet.
 - E.ON asked about wet fans to be located downstream of the scrubber, similar to those used in Europe. B&V explained some of the disadvantages, including materials of construction, maintenance and reliability.
 - E.ON expressed general agreement with the arrangement as discussed for Unit 4. An alternate version of the Unit 4 arrangement sketch was developed to more closely depict the arrangement discussed.
- The debriefing meeting concluded at approximately 2:30.
20. Eileen identified Dave Smith as the Ghent information request point of contact. Dave's contact information is as follows: 502-627-4633 and dave.smith@eon-us.com.
 21. B&V conducted a final walk down to ground-truth some of the comments obtained during the debriefing meeting and review the Unit 1 issues with relocating equipment to allow a more advantageous PJFF location to avoid cooling tower issues.
 22. Plant personnel provided an electronic of an aerial view of the site.
 23. B&V departed Ghent at approximately 4 pm.

ACTION ITEMS

| # | Description | Responsible | Due Date |
|---|-----------------------------------|-------------|----------|
| 1 | Prepare Ghent Information Request | TMH | 10/15/10 |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |

ATTACHMENTS

- Agenda
- Attendance roster
- E.ON Environmental Drivers Presentation and Estimated Limits & Compliance Dates for Future New Air Requirements Ghent Station
- Phase I Results and PJFF PowerPoint Presentation
- Initial arrangement sketches presented during the de-brief meeting

cc: All Attendees
File

AGENDA

Phase II Air Quality Control Study – Kickoff Meeting and Site Visit

E.ON - Ghent

October 6 - 7, 2010

Location: Ghent Generating Station

Day 1, October 6th, B&V Arrives 8 am

- I. Introductions (Starts at 9 am)
- II. Project/Scope Description (E.ON – Eileen S)
- III. Environmental Drivers Presentation (E.ON – Gary R)
- IV. Phase I Study Results/PJFF Overview Presentation (B&V – Rick L and Anand M)
- V. Lunch (on site)
- VI. Begin Escorted Site Walk Down and Data Collection

Day 2, October 7th, B&V Arrives 8 am

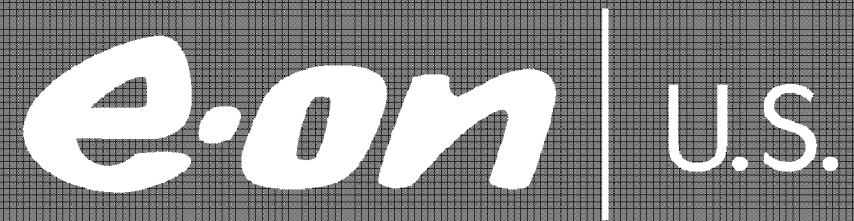
- I. Continue Escorted Site Walk Down and Data Collection
- II. Lunch (on site)
- III. Site Debriefing Meeting
- IV. Additional Walk Down Time if Required
- V. Depart (no later than 4 pm)

EQU AOC GHENT PLANT KICKOFF

10/6/2010

9:00 A.M.

| NAME | COMPANY/POSITION | TELENO. | EMAIL |
|------------------------|-------------------------|----------------|--------------------------|
| Tim Hillman | B&V / Proj Mgr | 913-458-7928 | hillman tm @bv.com |
| ROGER GOODLET | B&V / CONSTRUCTION | 913-458-4134 | goodlet rf @bv.com |
| M.R. WEHRLY | B&V / ENG MGR | 913-458-7131 | wehrl ymr @bv.com |
| RICK LAUSMAN | B&V / AQC Eng | 913 458-7528 | LAUSMAN RL @bv.com |
| MONTY HINTZ | B&V / CIVIL STRUCT ENGR | 913-458-2464 | hintzme @bv.com |
| Anand Mahabaleshwarkar | B&V / AQC | 913 458 7736 | mahabaleshwarkar @bv.com |
| Gary Revlett | LGE - KU | 502 627 - 4621 | gary.revlett@eon-us.com |
| JAMES YOCUM | KU | 502-347-4157 | JAMES.YOCUM LGE+KU |
| Randy Scott | LGE - KU | 347-4020 | Randy.Scott@Eon-US.com |
| Greg Jones | " | 347-4031 | Greg.Jones " " |
| Mike Mooney | LGE/KV | 627-3671 | Mike.Mooney @eon-us.com |
| Eileen Sawarders | LGE/ILU | 347-4023 | Eileen.Sawarders |
| Jeff Joyce | Kentucky Utilities | 347-4001 | jeff.joyce |
| DANNY AYLER | ILU | 502-347-4052 | DANNY.AYLER@eon-us.com |
| Troy Bickers | Kentucky UTILITIES | 502-347-4057 | Troy.bickers @ " " " |
| Paul Wright | KU | 502-347-4003 | paul.wright@eon-us.com |
| Mike Drake | KU | 502 347 4002 | michael.drake@eon-us.com |
| Dave Smith | KU | (502)627-4633 | dave.smith@eon-us.com |

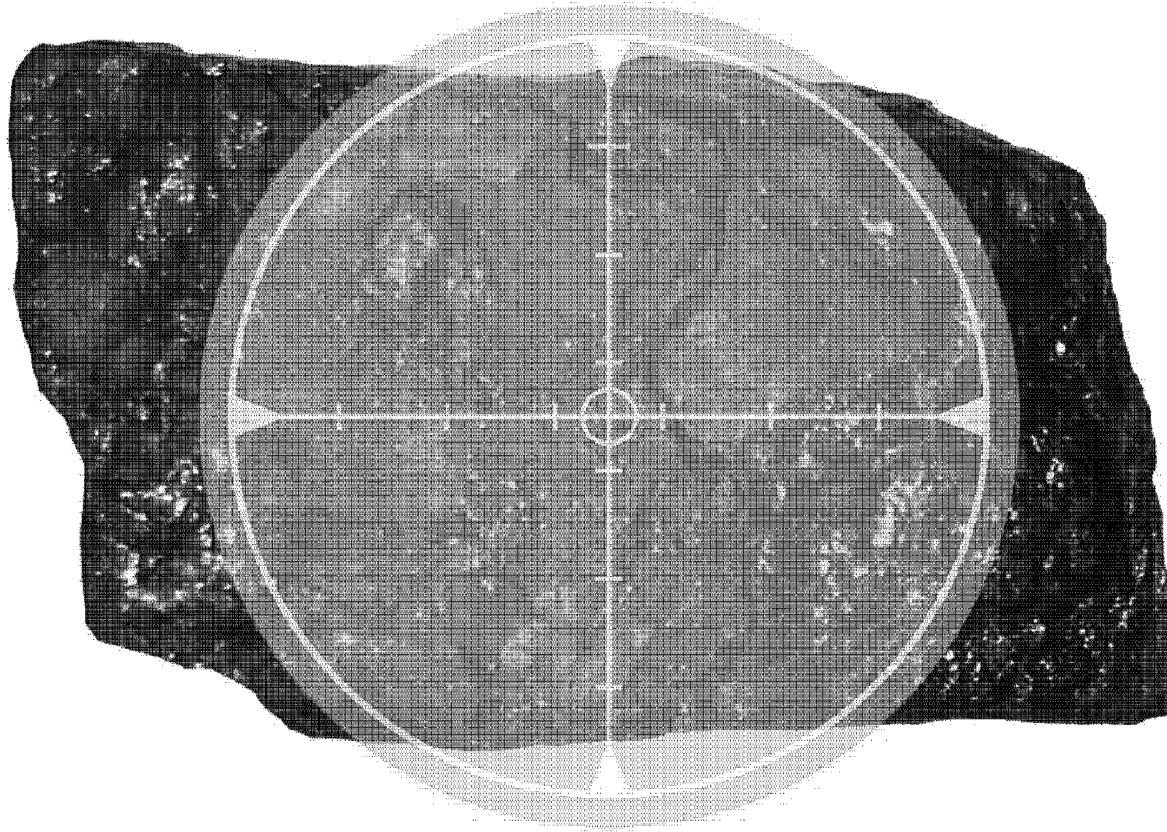


New EPA Air Regulations

Gary Revlett
Air Manager, Environmental Affairs



Coal (Still) in the Crosshairs





Upcoming Air Related EPA Regulations

- 1. Nitrogen Dioxide National Ambient Air Quality Standard: NO_x - NAAQS**
- 2. Sulfur Dioxide National Ambient Air Quality Standard: SO₂ - NAAQS**
- 3. Clean Air Interstate Rule (CAIR) Replacement: Clean Air Transport Rule (CATR)**
- 4. Clean Air Mercury Rule (CAMR) Replacement: Electric Generating Unit Maximum Achievable Control Technology (EGU MACT)**

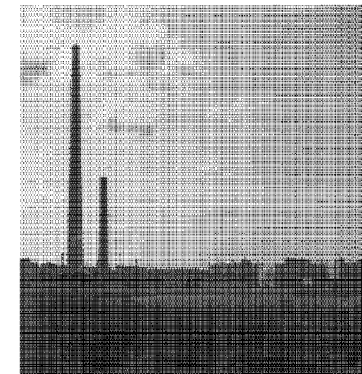


New Nitrogen Dioxide National Ambient Air Quality Standard

- **New 1-hour NO₂ ambient air standard added to the current annual standard.**
- **The new ambient air standard is added to protect public health from short-term exposures.**
- **Sources with the greatest impact are power plants and major highways.**
- **Maximum impact due to short-duration adverse meteorological conditions.**
- **This new regulation is final and compliance is required by 2016.**

Potential Company Impact(s):

- **All coal-fired boilers will need tall stacks (> 400 ft.).**
- **OR**
- **Any coal-fired unit without a tall stack will need a SCR**



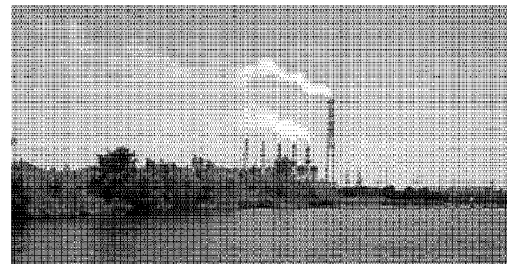


New Sulfur Dioxide National Ambient Air Quality Standard

- **New 1-hour SO₂ ambient air standard added to the current 24-hour standard.**
- **The new ambient air standard is added to protect public health from short-term exposures.**
- **Sources with the greatest impact are coal-fired power plants.**
- **Maximum impact due to short-duration adverse meteorological conditions.**
- **This new regulation is final and compliance is required by end of 2016.**

Potential Company Impact(s):

- **All coal-fired boilers need tall stacks (> 400 ft.) and a FGD with greater than 96% removal efficiency.**
- **OR**
- **Switch to low sulfur fuels**





CAIR Replacement – Proposed Clean Air Transport Rule (CATR) for SO₂ and NO_x

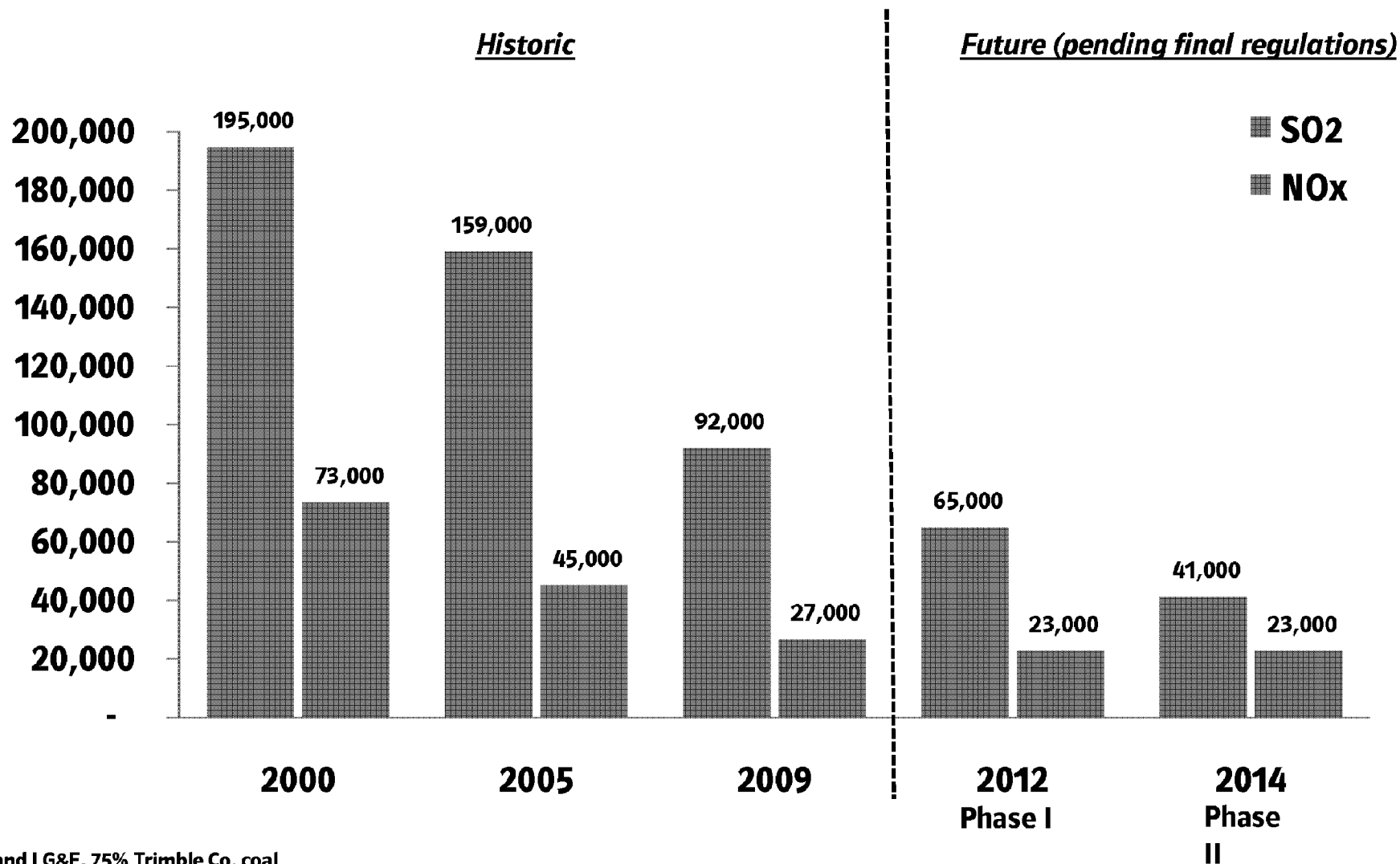
- **Replaces the CAIR cap-and-trade regulations which were vacated in 2008.**
- **The Acid Rain SO₂ cap-and-trade program will remain in place.**
- **100% intrastate trading of SO₂ and NO_x allowances but limited interstate trading**
- **The new regulations were proposed in July, 2010 and will not be final until June, 2011.**
- **The proposed implementation dates of Phase 1 in 2012 and Phase 2 in 2014 are unrealistic.**

Potential Company Impact(s):

- **With less than 10% interstate trading allowed, utilities in Kentucky need to self comply.**
- **Will require a fleet-wide 20% reduction in NO_x emissions and more than 50% reduction in SO₂ emissions by 2014.**



SO₂ and NO_x: Historic Emissions and CATR Allocations



KU and LG&E, 75% Trimble Co. coal

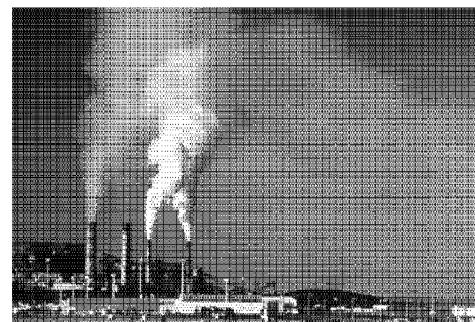


CAMR Replacement - Electric Utility Maximum Achievable Control Technology (MACT)

- **Currently the CAMR replacement has not yet been proposed by EPA.**
- **EPA plans to propose in the new rules in March 2011 and finalize in November 2011.**
- **New emissions limits for Hazardous Air Pollutants such as mercury, hydrogen chloride and hydrogen fluoride and other toxic metals.**
- **No trading of emissions or allowances, each plant must meet the pollutant specific emission limit.**
- **Expected compliance date will be 2015 with a possible 1-year extension.**

Potential Company Impact(s):

- **Most coal-fired units will need to add a baghouse with carbon and lime injection.**

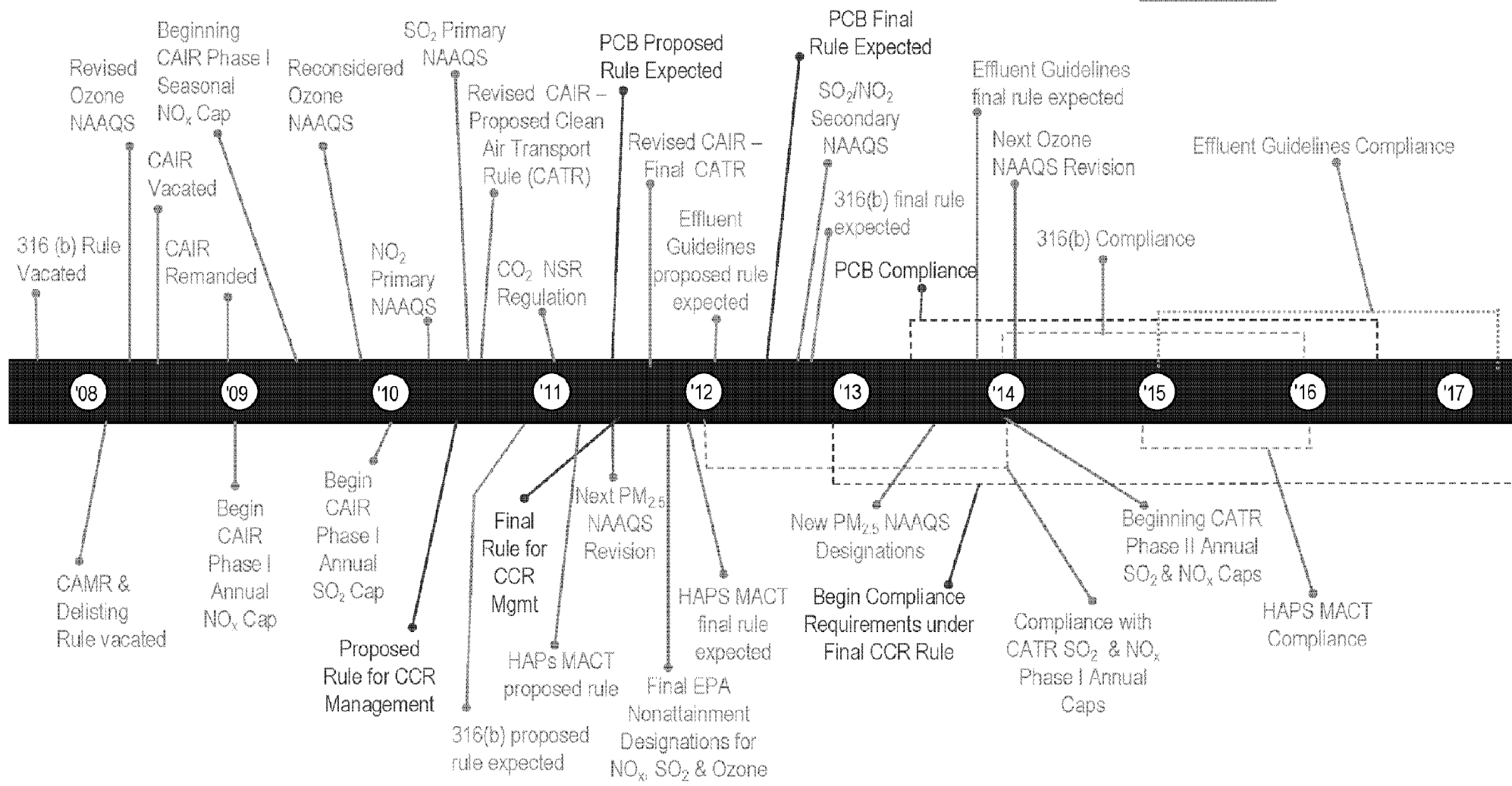




AIR

LAND

WATER



-- adapted from (EPA 2008) Updated August, 2010



Summary

- **Coal is still, and will continue to be, in the cross-hairs of the EPA.**
- **We will analyze every EPA proposal to determine the full magnitude of its impact, including the financial and operational implications.**
- **As with any proposed environmental regulation, we will continue to follow the developments and act accordingly to achieve full compliance once it takes effect.**
- **It will be necessary for continued coordination between departments and across the lines of business. There will be an increased effort to educate the public and key stakeholders.**



Estimated Limits & Compliance Dates For Future New Air Requirements

Ghent Station

| Program Name | Regulated Pollutants | | | Unit/Plant Averaging | Current Reg. Required Date | Forecasted Date for Compliance |
|--------------------------------------|-------------------------------------|------------------------------------|-----------------|-------------------------------|---|---|
| | Pollutant | Limit | Units | | | |
| SAM NSR NOV | H ₂ SO ₄ | 2 - 10 | ppm | Unit | To Be Determined | 2012 - 2014 |
| New 1-hour NAAQS for SO ₂ | SO ₂ | 0.31 for plant avg. | lbs/mmBtu | Based on air quality modeling | June, 2017 | June, 2016 to June, 2017 |
| New 1-hour NAAQS for NO _x | NO _x | 0.47 for plant avg. | lbs/mmBtu | Based on air quality modeling | January, 2017 | No sooner than January, 2017 |
| CATR | SO ₂ | 0.186 | lbs/mmBtu | Plant, but statewide trading | Beginning Phase I in 2012; Limits in Phase II during 2014 | Beginning Phase I in 2013; Limits in Phase II during 2015 |
| | NO _x | 0.041 | lbs/mmBtu | | | |
| New EGU MACT | Mercury | 90% or 0.012 | Removal lbs/GWH | Plant | January, 2015, with 1-yr extension - January, 2016 | January, 2016, with 1-yr extension - January, 2017 Potential delay for commitment to shutdown older coal-fired units |
| | Acids (HCl) | 0.002 | lbs/mmBtu | Unit or Plant | | |
| | Metals (PM) or Metals (As) | 0.03 | lbs/mmBtu | | | |
| | Organics (CO) | 0.10 | lbs/mmBtu | | | |
| | Dioxin/Furan | 15 x 10 ⁻¹⁸ | lbs/mmBtu | | | |
| PM _{2.5} NAAQS | PM _{2.5} or Condensable PM | To be determined based on modeling | lbs/hours | Plant | After 2017 | After 2017 |

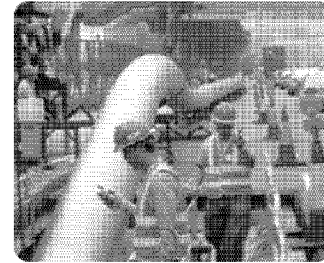
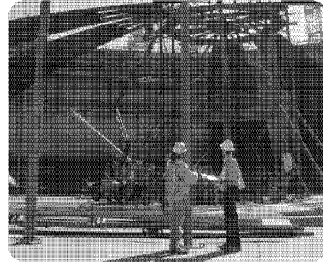


Evaluation of CATR for Ghent Station

| Plant | Unit | 2009 Actual Emissions | | | | |
|--------------|--------------|------------------------|------------------------|--------------------|----------------------------------|----------------------------------|
| | | SO ₂ (tons) | NO _x (tons) | mmBtu (year) | SO ₂ Rate (lbs/mmBtu) | NO _x Rate (lbs/mmBtu) |
| Ghent | 1 | 1,418.1 | 973.2 | 31,802,243 | 0.09 | 0.06 |
| Ghent | 2 | 5,044.3 | 2,664.9 | 24,783,886 | 0.41 | 0.22 |
| Ghent | 3 | 3,188.6 | 1,972.3 | 34,425,557 | 0.19 | 0.11 |
| Ghent | 4 | 1,220.5 | 802.8 | 28,668,181 | 0.09 | 0.06 |
| Ghent | Total | 10,872 | 6,413 | 119,679,867 | 0.182 | 0.107 |

| Plant | Unit | CATR Allocation Tons | | | CATR Alternative lb/mmBtu | | | SO ₂ 2012 Heat Input | NO _x 2012 Heat Input |
|--------------|--------------|--------------------------|--------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------------|---------------------------------|
| | | SO ₂ for 2012 | SO ₂ for 2014 | NO _x in ≥ 2012 | SO ₂ for 2012 | SO ₂ for 2014 | NO _x in ≥ 2012 | | |
| Ghent | 1 | 2,221 | 3,653 | 794 | 0.139 | 0.214 | 0.050 | 31,854,467 | 31,477,413 |
| Ghent | 2 | 2,101 | 1,813 | 976 | 0.180 | 0.108 | 0.058 | 23,378,147 | 33,536,165 |
| Ghent | 3 | 3,578 | 3,363 | 483 | 0.199 | 0.203 | 0.030 | 35,919,897 | 32,698,639 |
| Ghent | 4 | 1,214 | 3,359 | 468 | 0.079 | 0.203 | 0.029 | 30,683,824 | 32,663,045 |
| Ghent | Total | 9,114 | 12,188 | 2,721 | 0.155 | 0.186 | 0.041 | 121,836,336 | 130,375,262 |

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Phase II AQC Study Ghent Station Kickoff

e-on | U.S.

Black & Veatch

October 2010

Agenda

- Regulatory drivers
- PJFF overview
- Overview of phase I results

Regulatory drivers – still uncertainty

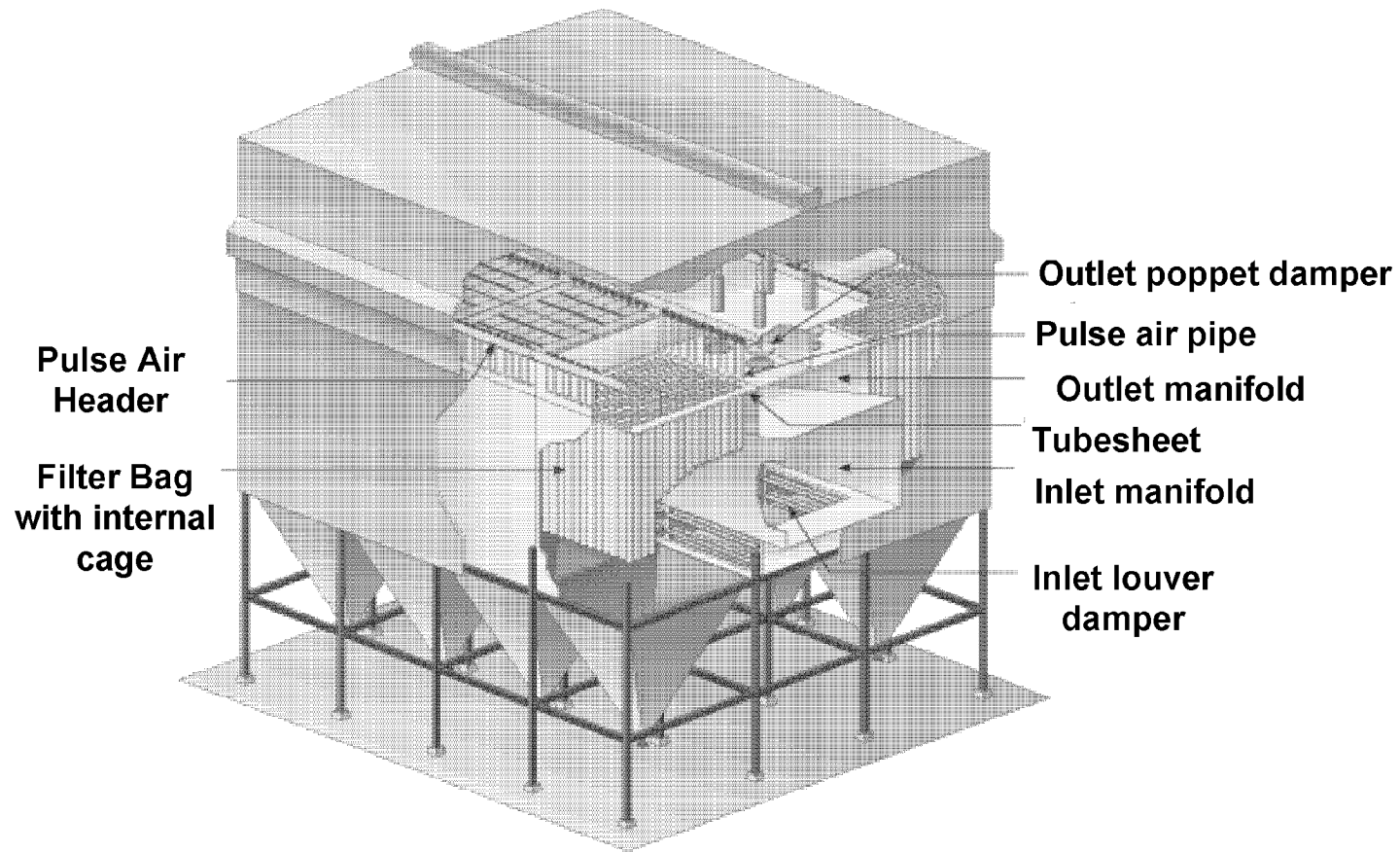
| Program Name | Regulated Pollutants | Forecasted Date for Compliance |
|----------------------------------|---|--|
| PSD/NSR | SAM Ghent Units 1- 4 | E.ON currently negotiating with EPA |
| 1-hour NAAQS for NO _x | NO _x | 2015 - 2017 |
| 1-hour NAAQS for SO ₂ | SO ₂ | 2016 |
| Clean Air Transport Rule | NO _x SO ₂ | Beginning in 2012 Phase in 2014 |
| New EGU MACT | Mercury Acids (HCl) Metals (PM) Metals (AS) Organics (CO) Dioxin/Furan | Estimated January, 2015; with 1-yr extension - January, 2016 |

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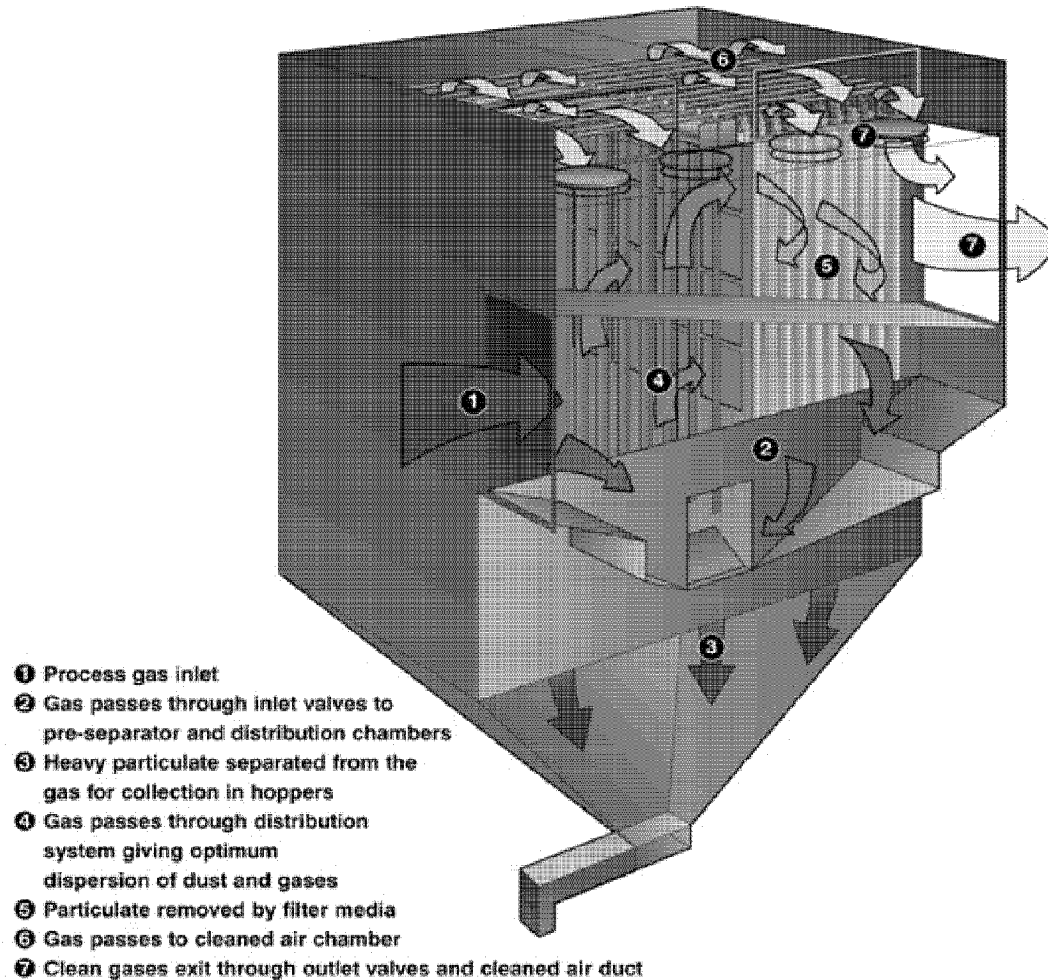
PJFF Overview

PJFF – overall layout



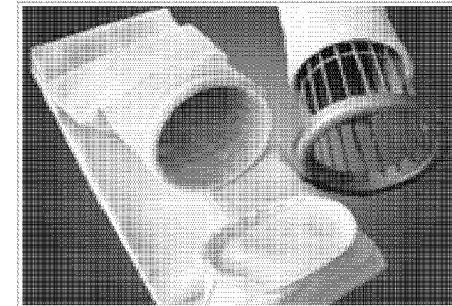
Courtesy: Babcock & Wilcox

PJFF – flow diagram



PJFF advantages vs. DESP

- Fuel flexibility
- High efficiency especially on $PM_{2.5}$
- Performance is less susceptible to plant operating conditions
- Works well during startups
- Better control of hazardous air pollutants such as heavy metals (Ar, Ni, Pb, etc.)
- Allows reagent injection to work better (Hg or SO_3)



PJFF disadvantages vs. DESP

- Bags damaged by high temperatures
- High pressure drop
- Periodic bag replacement



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Overview of Phase I Results

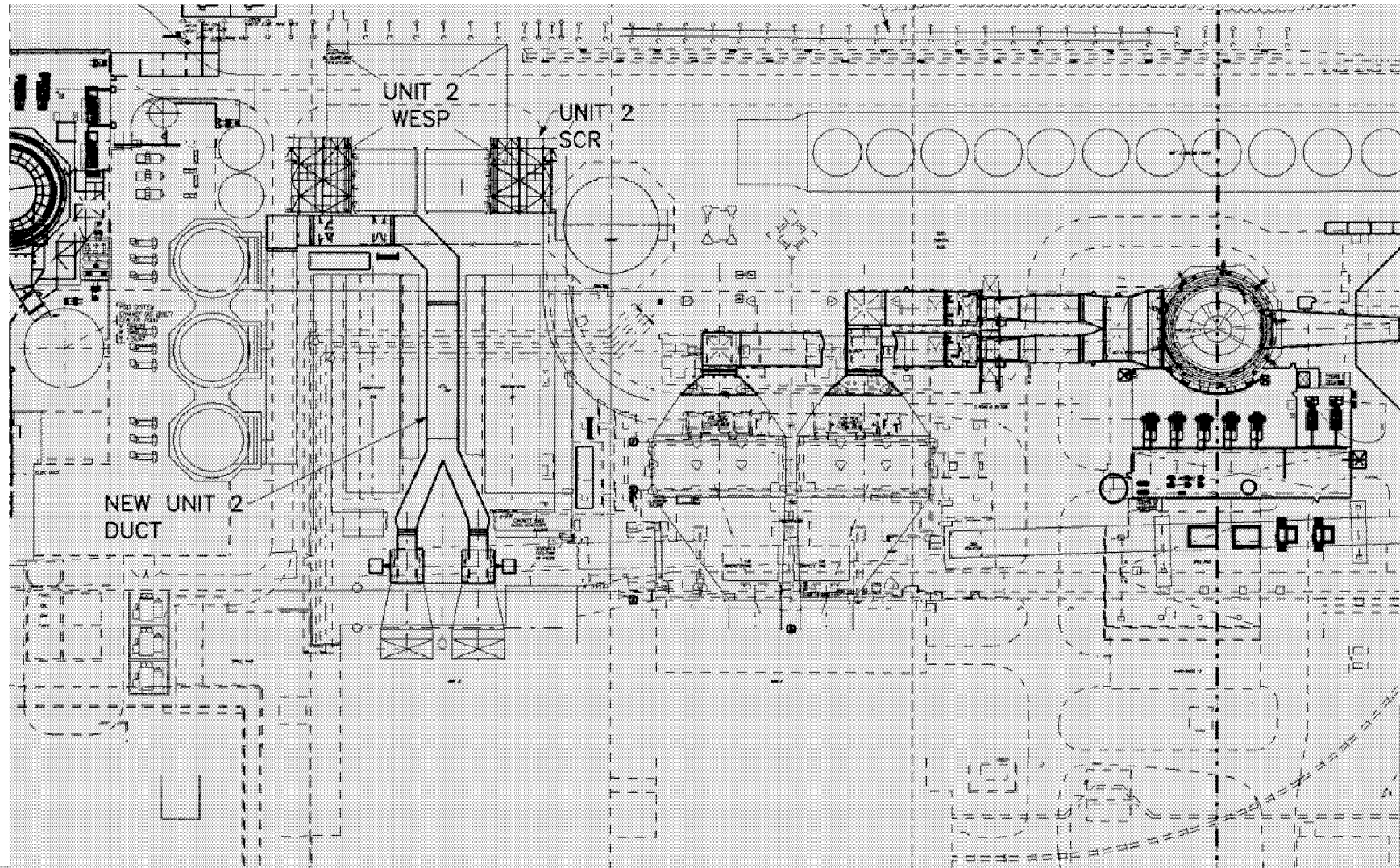
Phase I AQCS results for Ghent Station

- Ghent Unit 1
 - Pulse Jet Fabric Filter (PJFF)
 - Powdered Activated Carbon (PAC) Injection
- Ghent Unit 2
 - Selective Catalytic Reduction (SCR) System
 - Pulse Jet Fabric Filter (PJFF)
 - Lime / Trona Injection
 - Powdered Activated Carbon (PAC) Injection
- Ghent Unit 3
 - Pulse Jet Fabric Filter (PJFF)
 - Powdered Activated Carbon (PAC) Injection
- Ghent Unit 4
 - Pulse Jet Fabric Filter (PJFF)
 - Powdered Activated Carbon (PAC) Injection

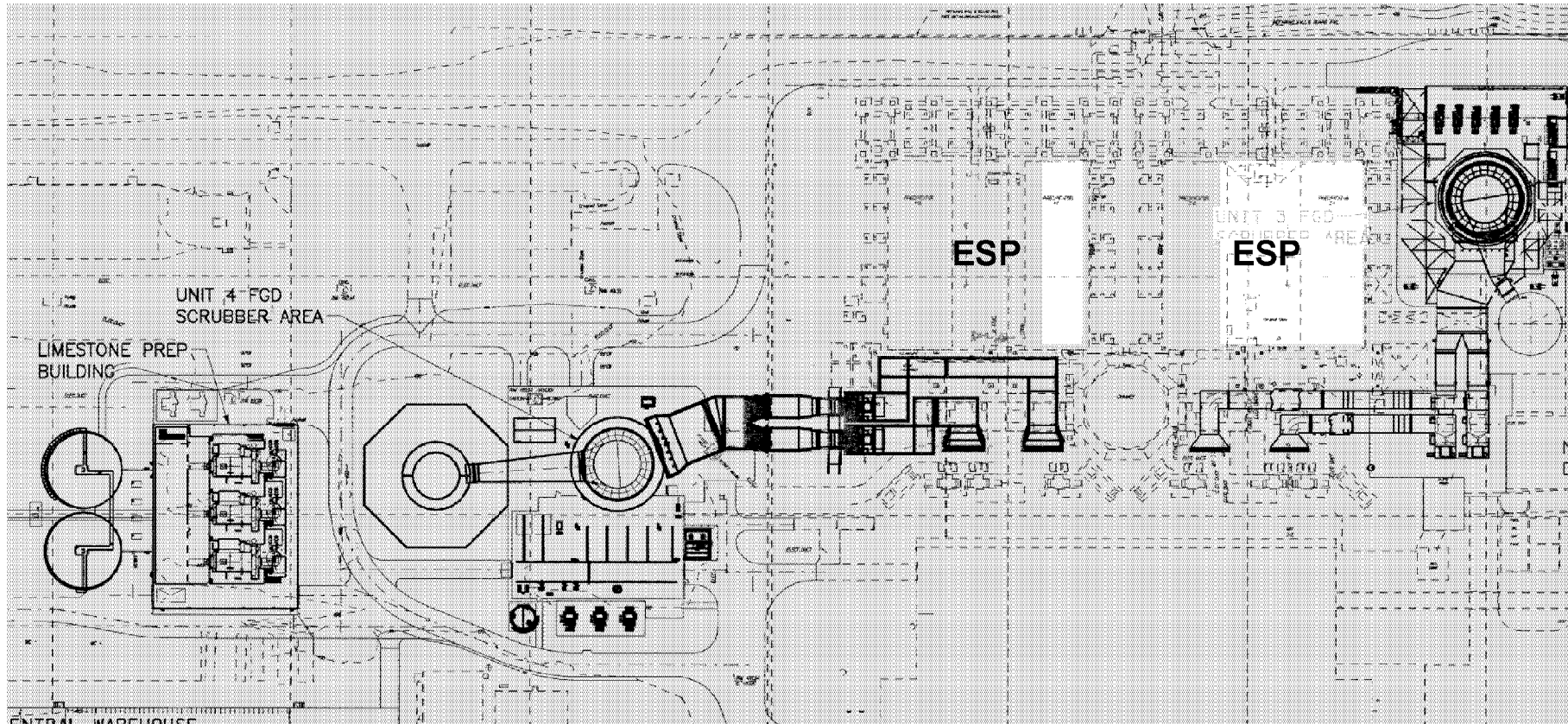
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Ghent Unit 1 and Unit 2 space constraints



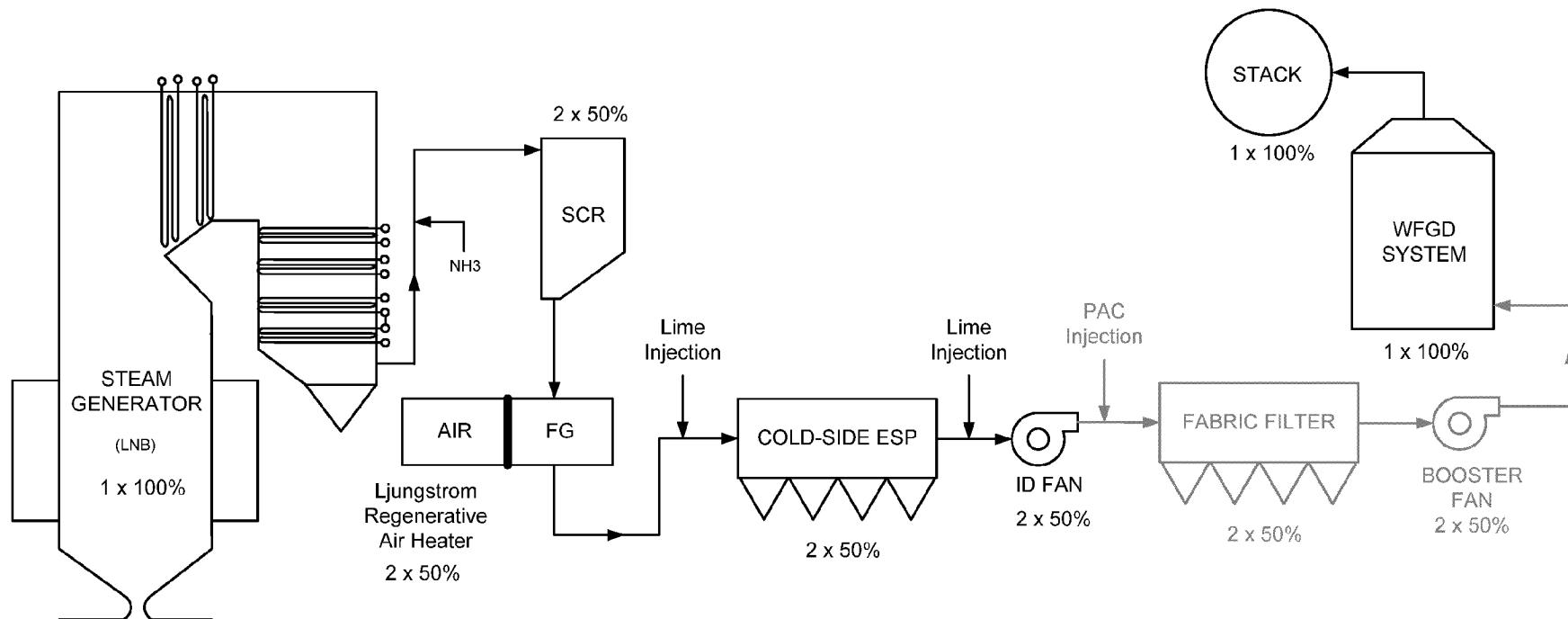
Ghent Unit 3 and Unit 4 space constraints



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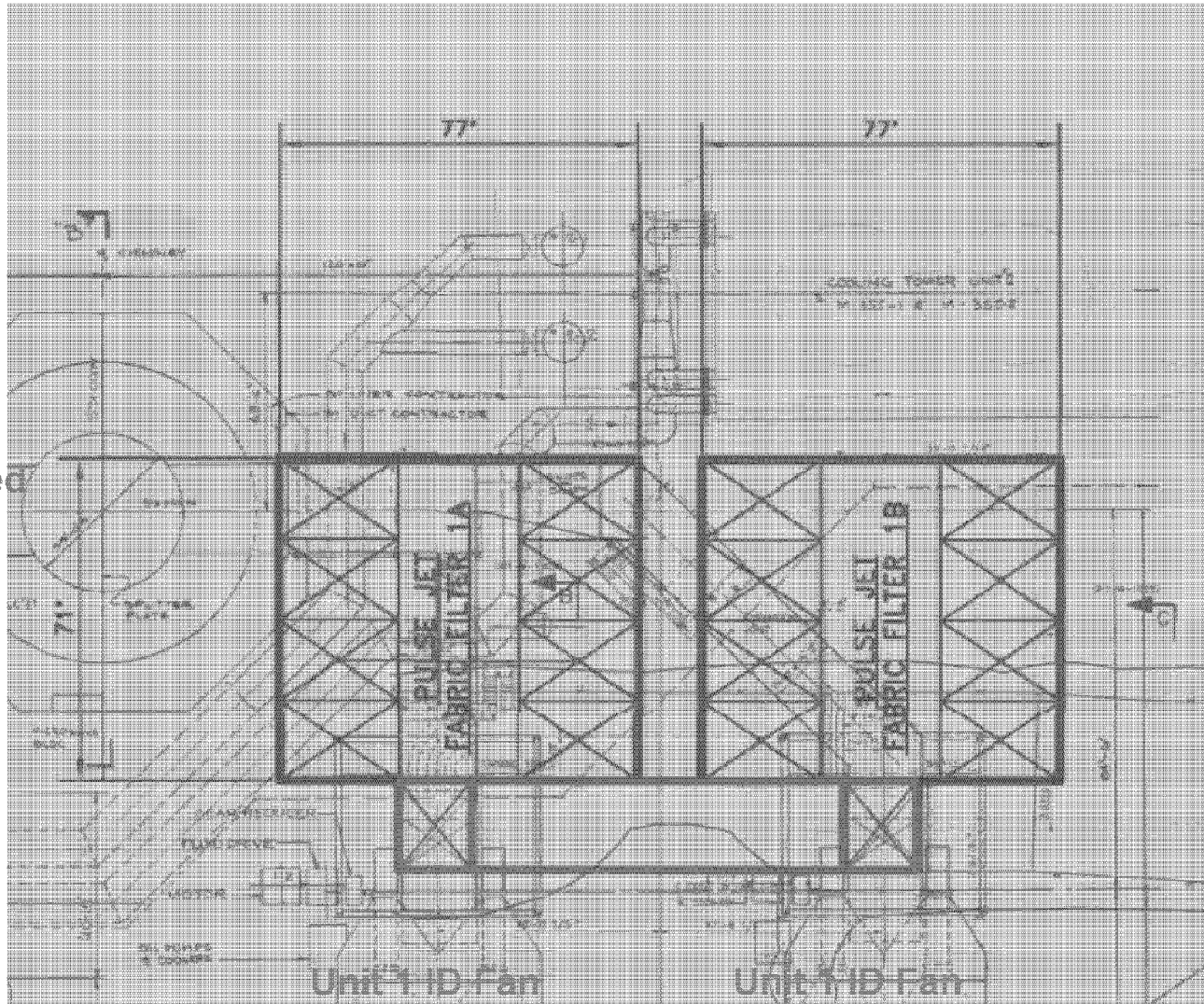


Ghent Unit 1 layout



Ghent Unit 1 PJFF layout

Unit 2
Abandoned
Stack

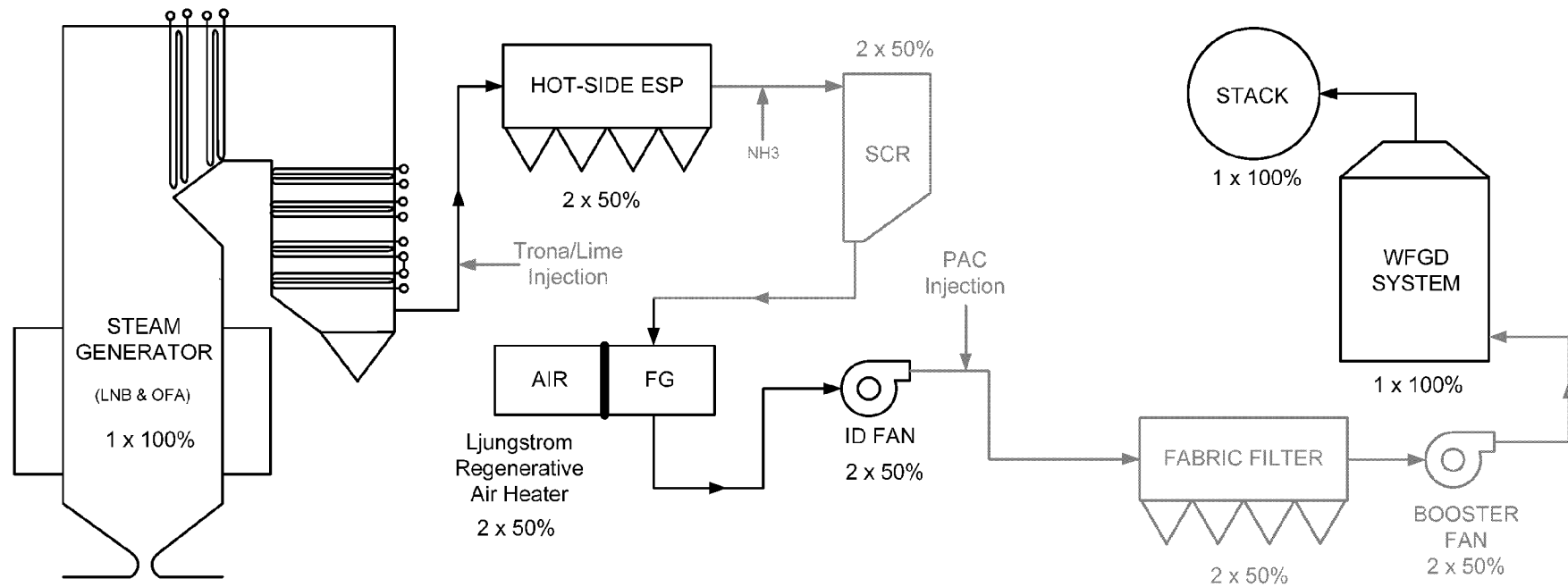


Ghent Unit 1 PJFF challenges

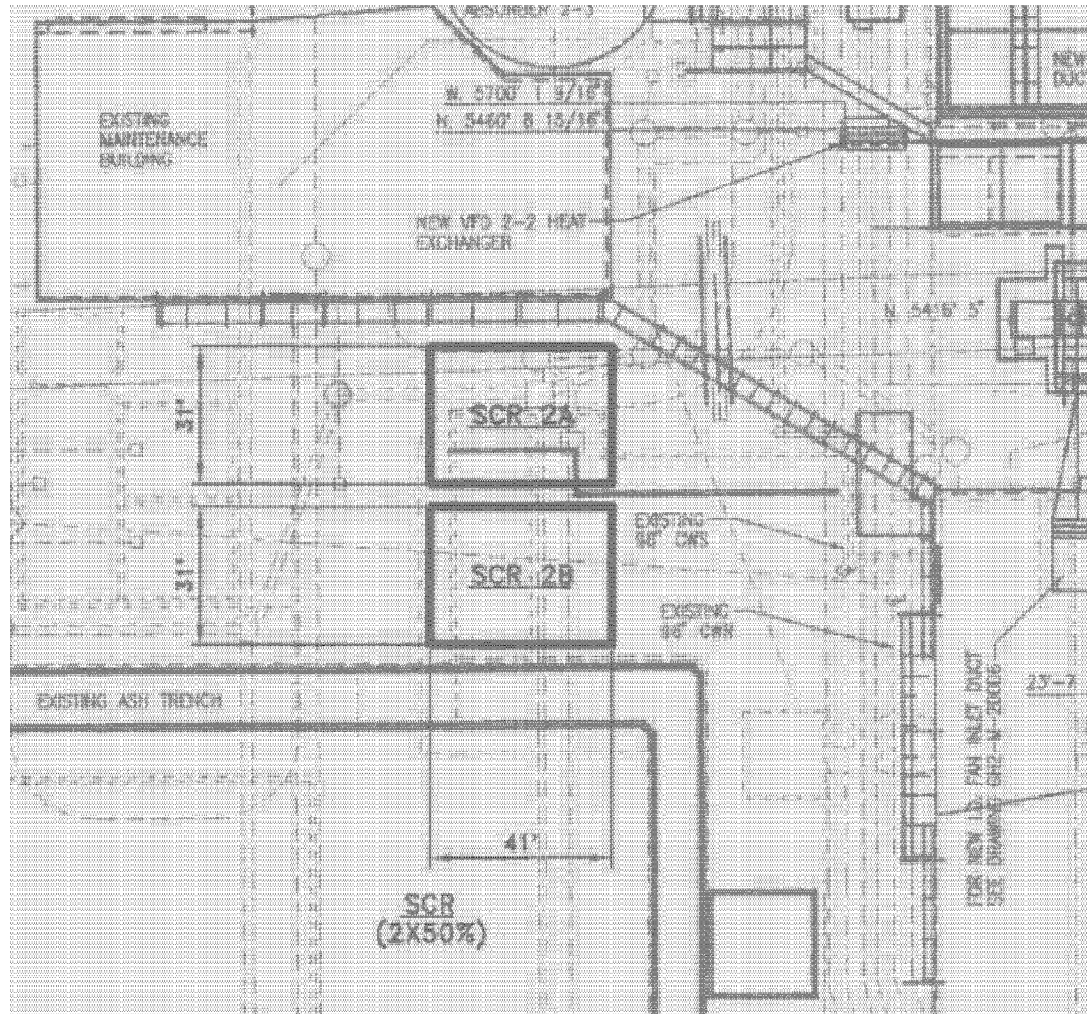
- Elevated PJFF
- Real estate constraints
- Demolition and relocation of pipe racks
- Difficult crane access
- Restricted cooling tower access during project execution
- Lattice boom / crawler crane booms for final assembly

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Ghent Unit 2 layout



Ghent Unit 2 SCR layout

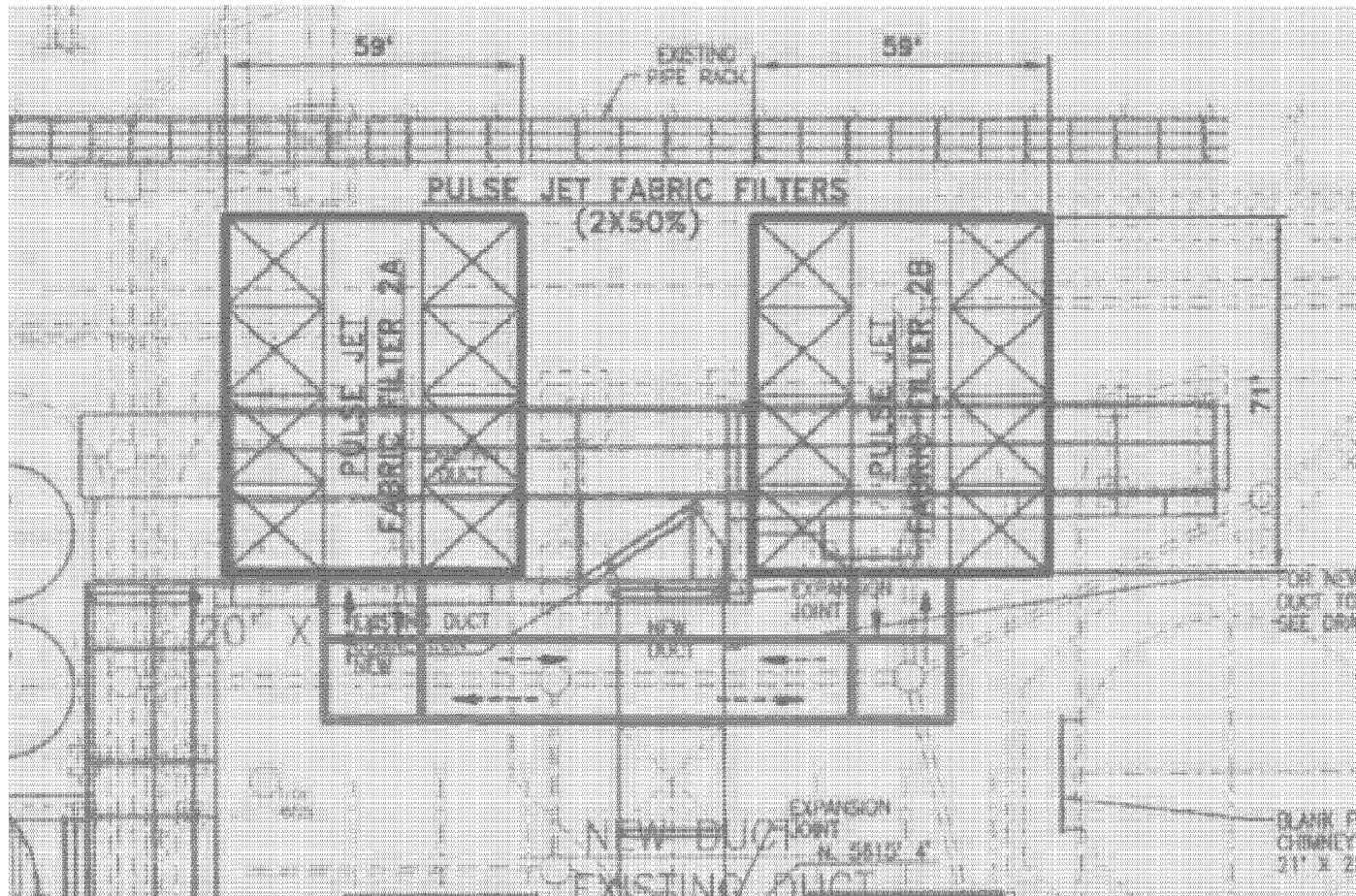


Unit 2
Boiler
Building

Ghent Unit 2 SCR challenges

- Equipment lifting required over areas of high personnel traffic
- Demolition of overhead walkway between Unit 2 & Unit 3 boiler building
- Demolition and relocation of overhead power lines
- Tower crane for heavy equipment and final assembly of SCR
- Demolition and relocation of pipe-racks

Ghent Unit 2 PJFF layout



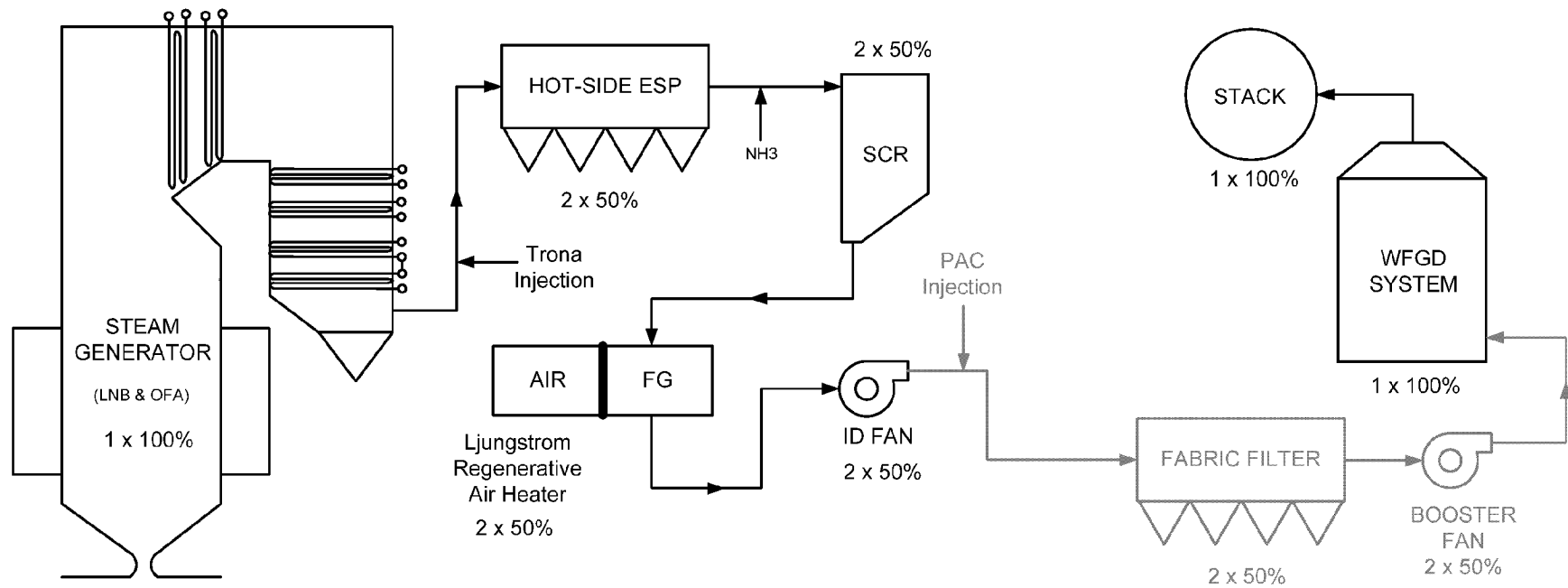
Unit 2 ID Fan
Outlet Ductwork

Ghent Unit 2 PJFF challenges

- Elevated PJFF
- Real estate constraints
- Difficult crane access
- Demolition and relocation of pipe racks
- Restricted cooling tower access during project execution
- Lattice boom / crawler crane booms for final assembly
- Bypass duct required



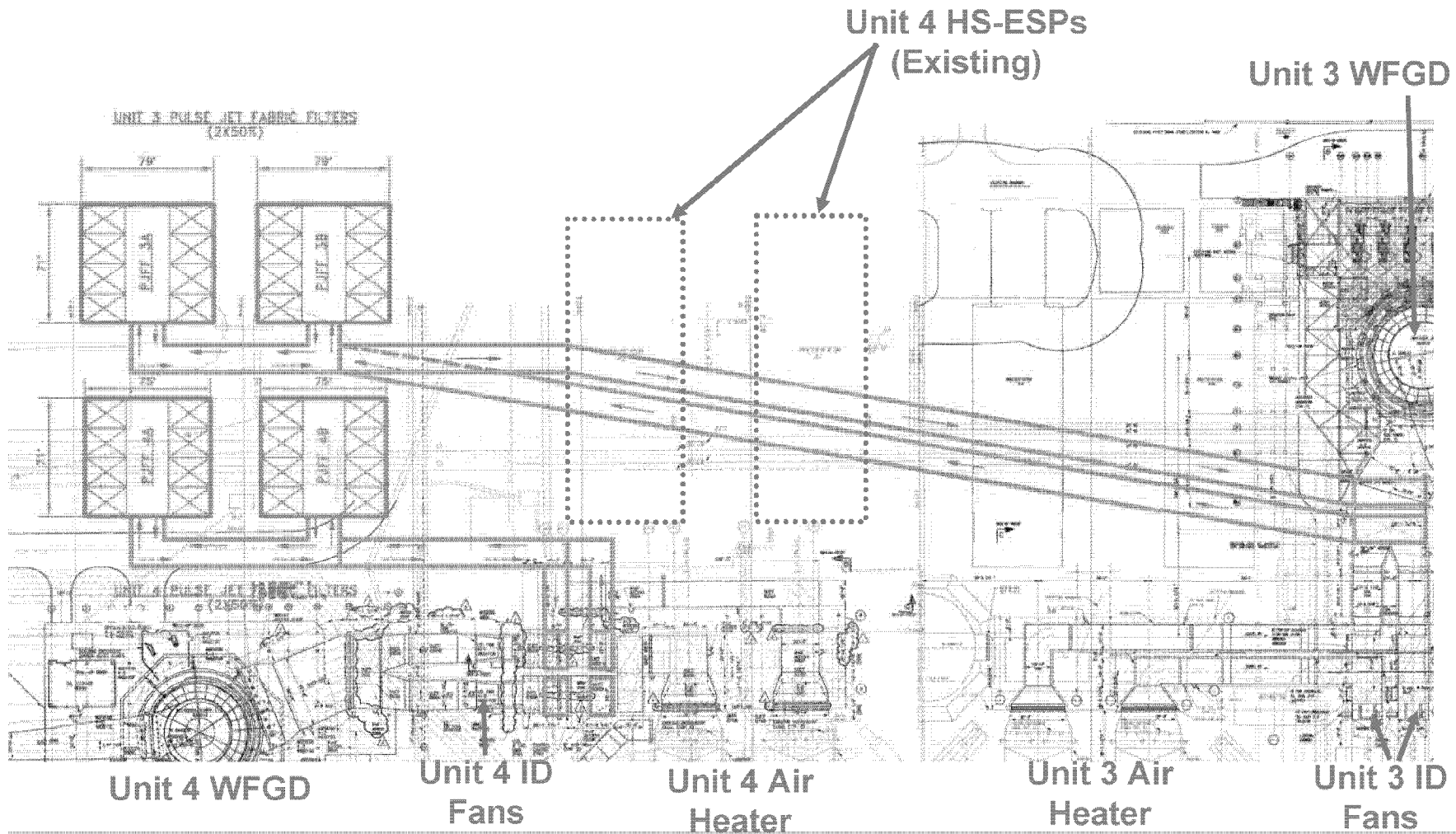
Ghent Unit 3 / Unit 4 layout



BUILDING A WORLD OF DIFFERENCE®



Ghent Unit 3 and Unit 4 PJFF layout



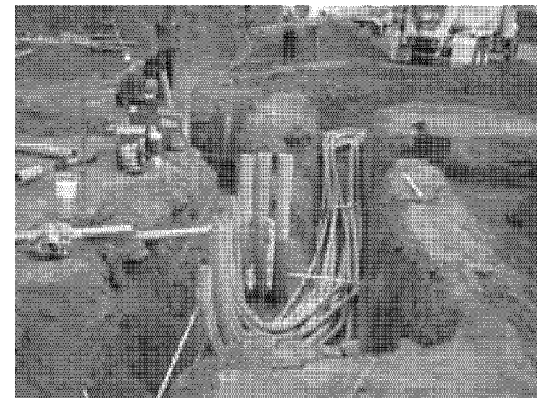
Ghent Unit 3 PJFF challenges

- Site constraints
- Long ductwork for Unit 3
- Restricted access around the footprint of Unit 3
ESP – tight space
- Difficult crane access for tie in of Unit 3 fabric filter
inlet/outlet ductwork



Ghent Unit 4 PJFF challenges

- Demolish and relocate underground utilities
 - Electrical manholes
 - Water wells
 - Storm sewer boxes and piping
 - Circulating cooling water piping

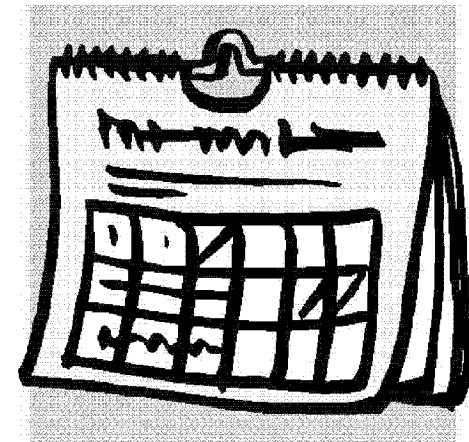


Typical PJFF schedule

- 32 to 36 months
 - Engineering & procurement – 16 months
 - Erect PJFF foundations – 6 months
 - Erect PJFF – 12 months
 - Tie-in outage – 1 month
 - Start-up – 1 month

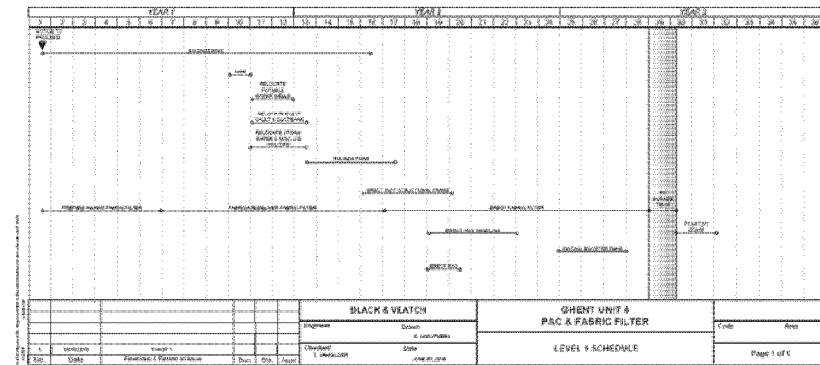
Typical SCR schedule

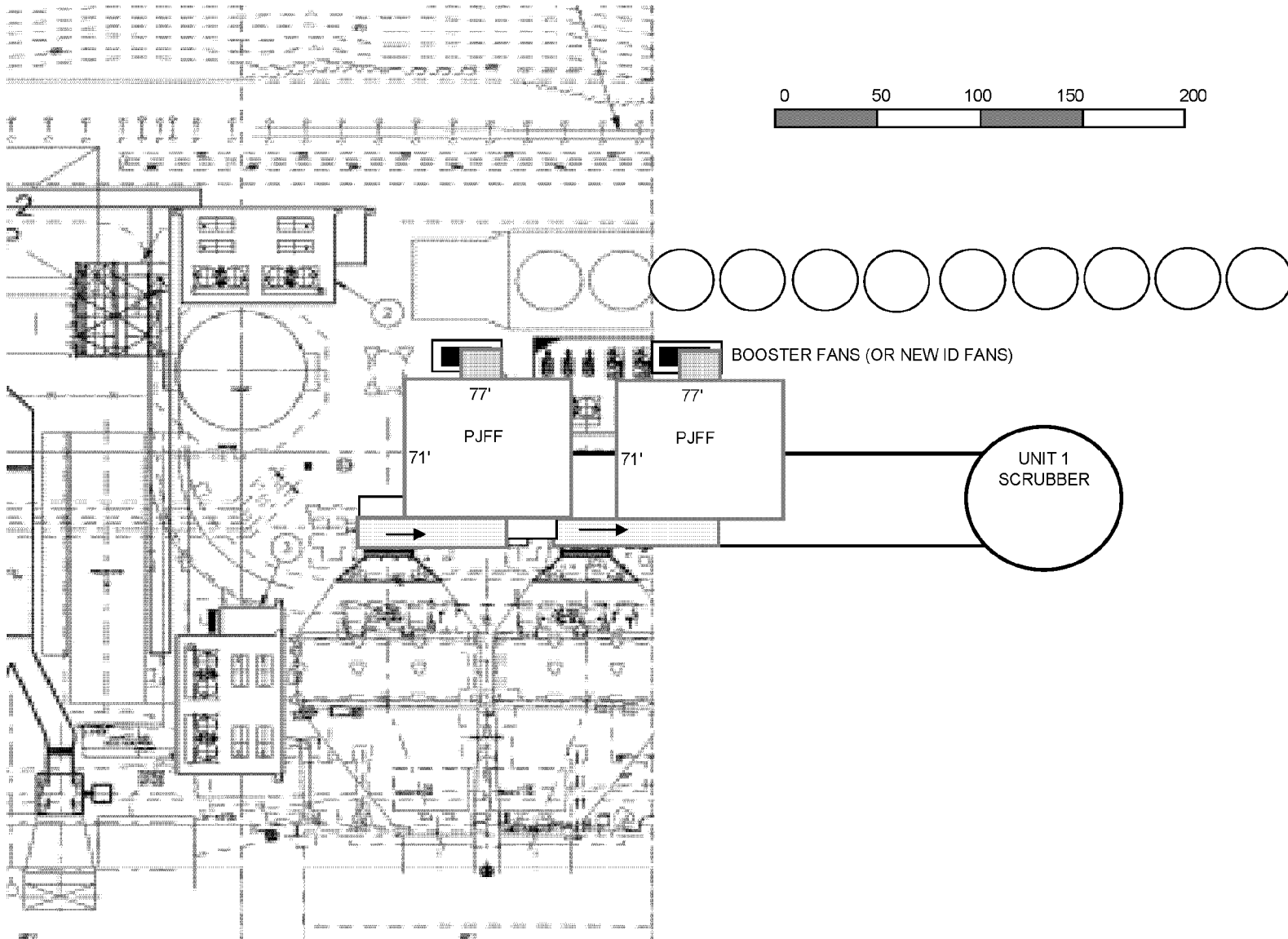
- 32 to 36 months
 - Engineering & procurement – 16 months
 - Erect SCR foundations – 4 months
 - Erect SCR support steel – 4 months
 - Erect SCR & ductwork – 8 months
 - Tie-in outage – 1 month
 - Start-up – 1 month

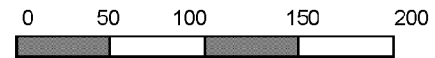
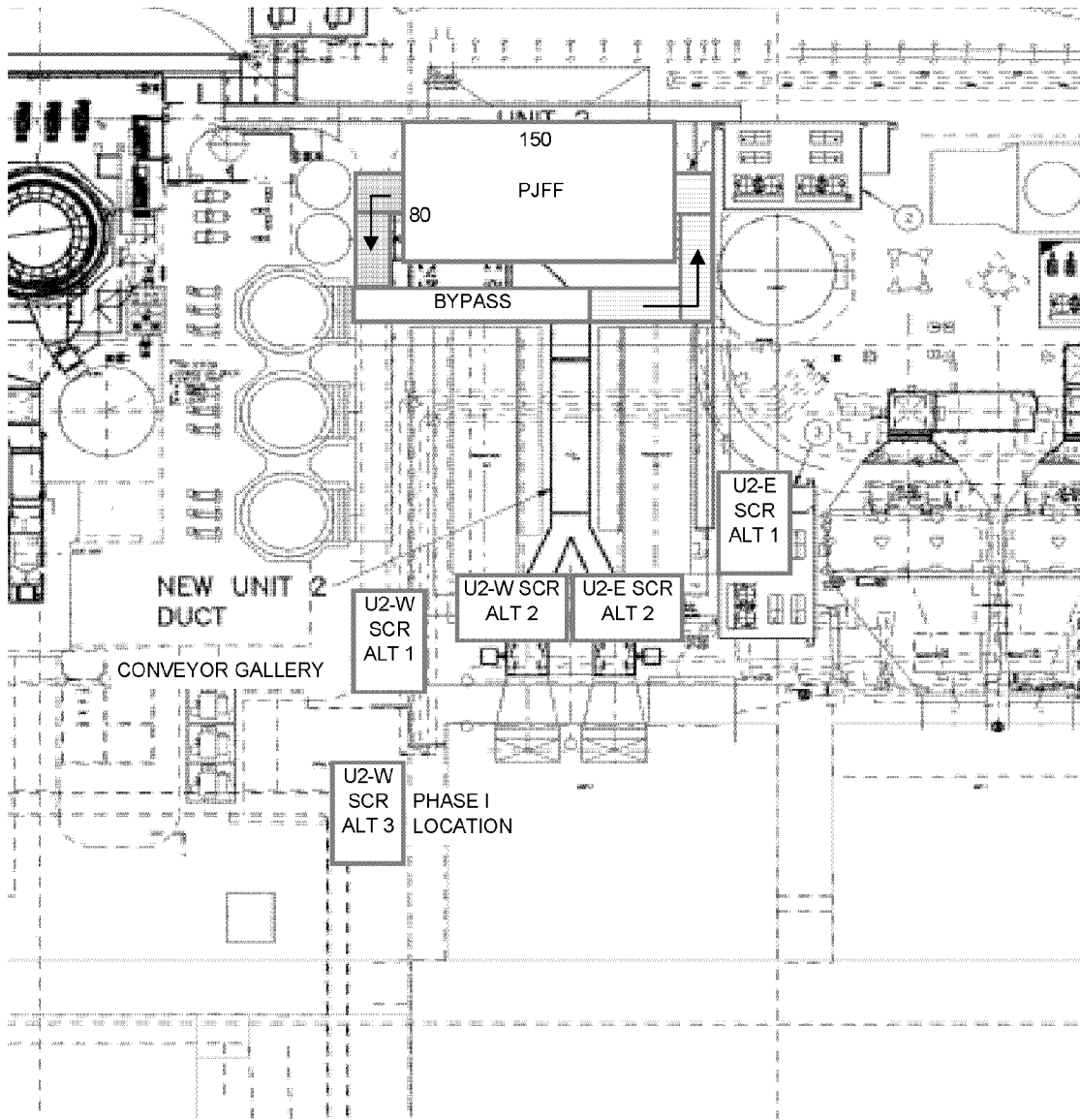


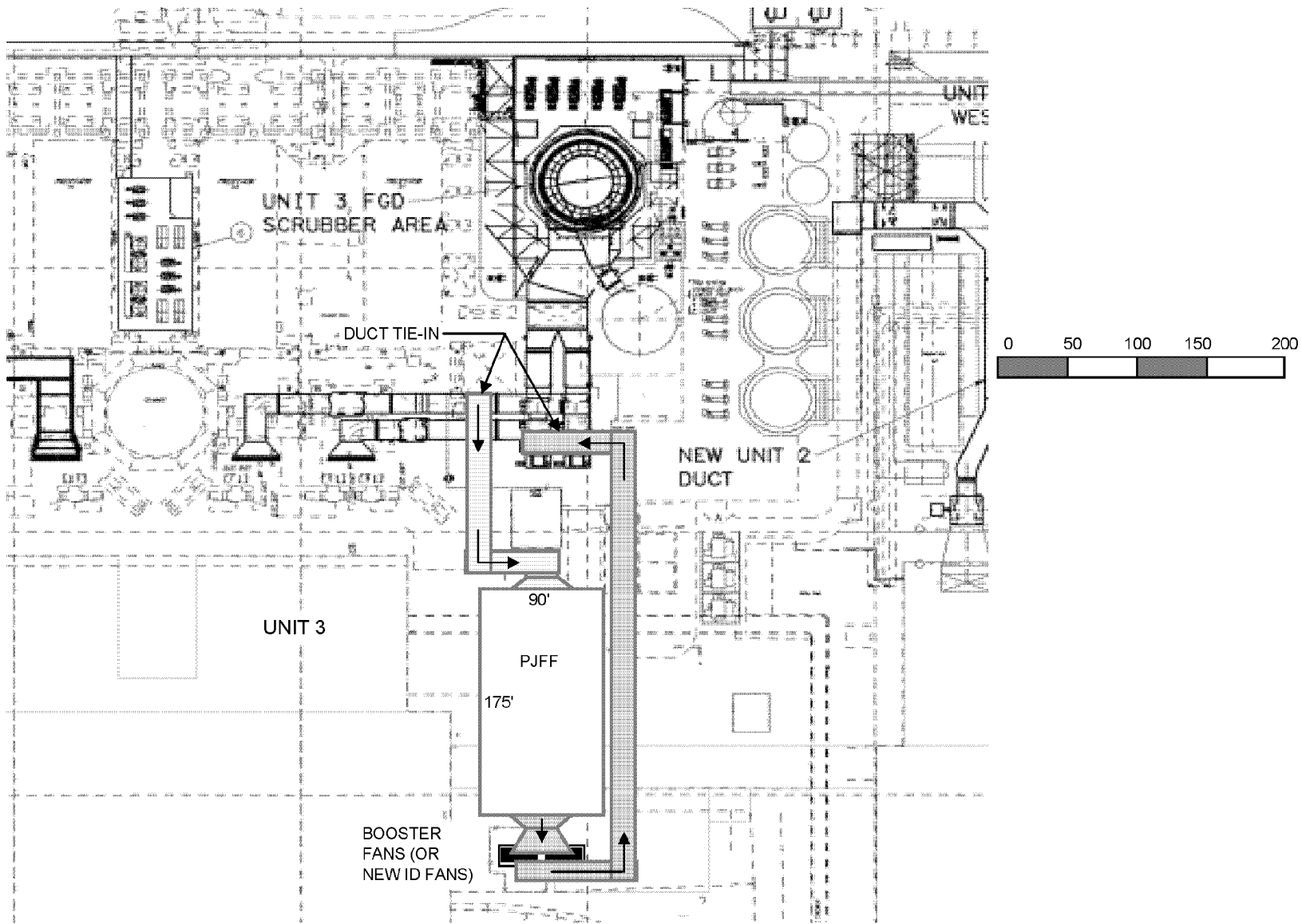
Phase I implementation schedule

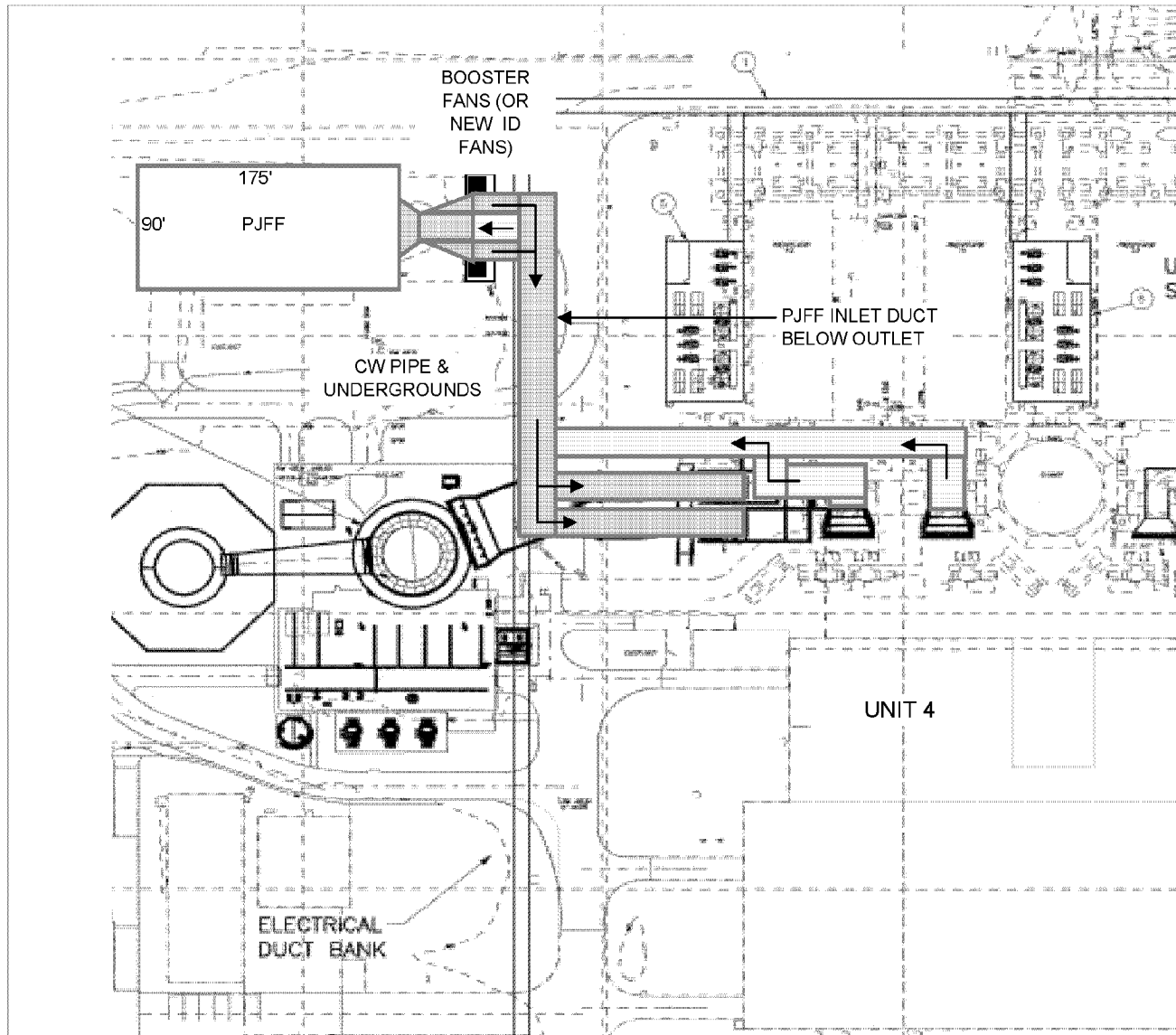
- Ghent Unit 1 PJFF – 36 months
- Ghent Unit 2 SCR & PJFF – 44 months
- Ghent Unit 3 PJFF – 32 months
- Ghent Unit 4 PJFF – 32 months

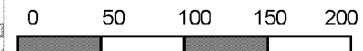
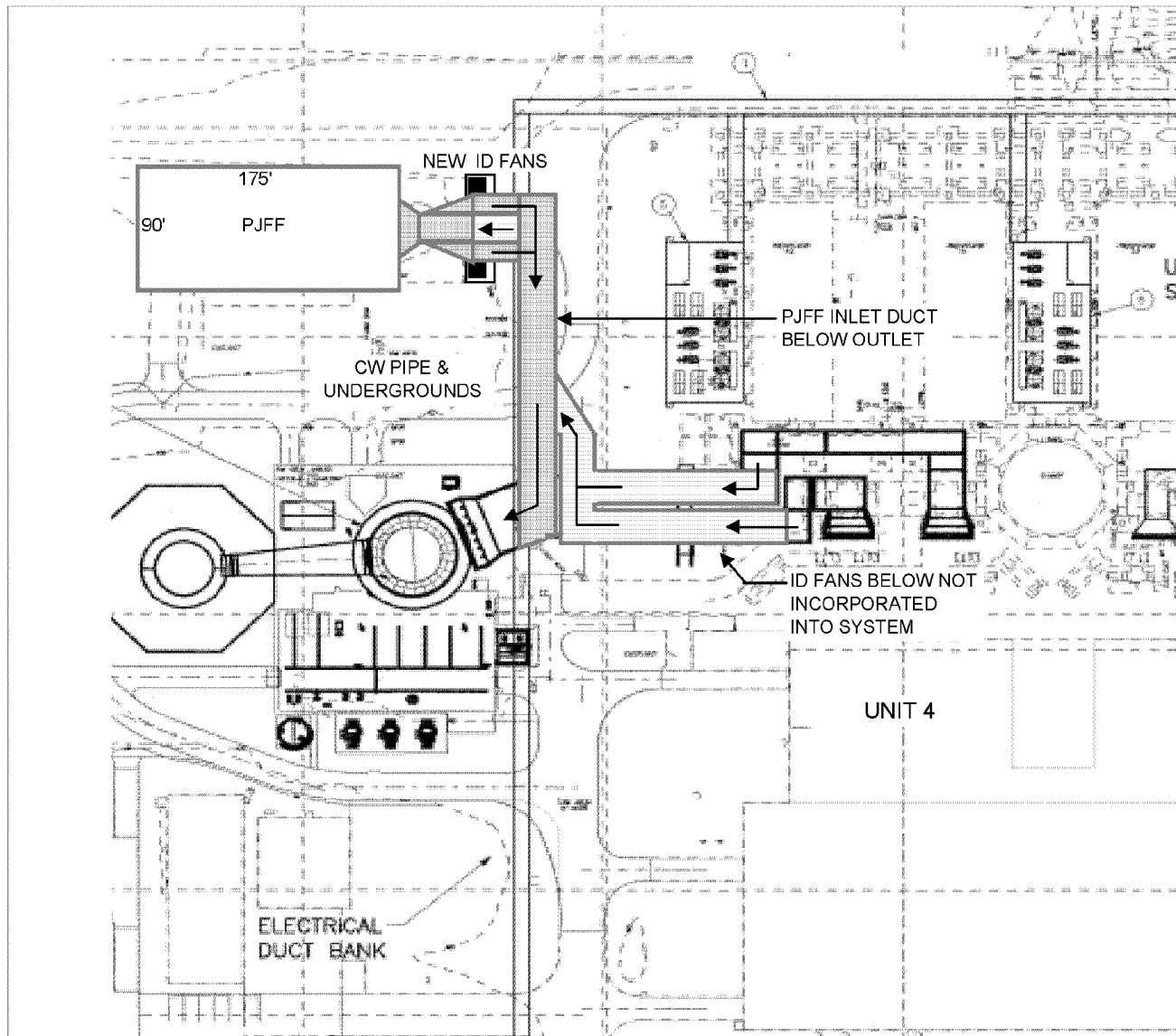












From: Schram, Chuck
To: Voyles, John
Sent: 10/19/2010 3:52:49 PM
Subject: Calendar
Attachments: Environmental Summay alternate scenario Rev4 - Pras (4) 10-13-10.xlsx

John,
I received your vmail. I'm at Cane Run, but should be available via phone sometime between 4 - 4:30pm. I will call you.
I have some calendar info from Proj Eng (see attached), but we may want to include some of the CCCT and IRP dates instead.

Chuck

| | A | C | D | E | F | G | H | I | J |
|----|--|---------------------|-------------------|----------------------------|-------------------------------|-----------------|-----------------|------------------|------------------|
| 1 | Environmental Air - CATR by January 2015, NAAQS by January 2016, HAPs by January 2017 | | | | DRAFT | | | | |
| 2 | \$ in thousands | | | | | | | | |
| 3 | | Capital Cost | ECR Filing | Reportable Document | Start Major Commitment | 2011 | 2012 | 2013 | 2014 |
| 4 | Alternate Plan | | | | | | | | |
| 5 | Brown | | | | | | | | |
| 6 | Brown 1 - SCR | \$59,000 | Dec-10 | | See BR- Unit 2 | \$2,950 | \$17,700 | \$23,600 | \$14,750 |
| 7 | Brown 1 - Baghouse | \$34,000 | Dec-10 | | See BR- Unit 2 | \$1,700 | \$11,900 | \$13,600 | \$6,800 |
| 8 | Brown 1 - PAC Injection | \$1,599 | Apr-12 | | See BR- Unit 2 | | | \$800 | \$800 |
| 10 | Brown 1 - SAM Mitigation | \$4,000 | Dec-10 | | | \$200 | \$1,200 | \$1,600 | \$1,000 |
| 12 | Brown 1 - Escalation | \$15,476 | | | | \$371 | \$3,679 | \$6,504 | \$4,922 |
| 13 | Total Brown 1 | \$114,075 | | | | \$5,221 | \$34,479 | \$46,103 | \$28,272 |
| 14 | | | | | | | | | |
| 15 | Brown 2 - SCR | \$92,000 | Dec-10 | | May, 2011 | \$9,200.0 | \$34,500 | \$43,700 | \$4,600 |
| 16 | Brown 2 - Baghouse | \$34,000 | Jul-11 | | May, 2011 | | \$1,360 | \$10,200 | \$10,880 |
| 17 | Brown 2 - PAC Injection | \$2,476 | Apr-13 | | May, 2011 | | | | \$1,238 |
| 20 | Brown 2 - SAM Mitigation | \$4,000 | Dec-10 | | | \$200 | \$1,600 | \$2,200 | |
| 22 | Brown 2 - Escalation | \$21,300 | | | | \$718 | \$4,475 | \$9,214 | \$3,524 |
| 23 | Total Brown 2 | \$153,776 | | | | \$10,118 | \$41,935 | \$65,314 | \$20,242 |
| 24 | | | | | | | | | |
| 27 | Brown 3 - Baghouse | \$61,000 | Apr-12 | | See BR- Unit 2 | | | \$1,830 | \$21,350 |
| 28 | Brown 3 - PAC Injection | \$5,426 | Apr-13 | | See BR- Unit 2 | | | | \$1,000 |
| 31 | Brown 3 - Escalation | \$16,475 | | | See BR- Unit 2 | \$0 | \$0 | \$301 | \$4,711 |
| 32 | Total Brown 3 | \$82,901 | | | | \$0 | \$0 | \$2,131 | \$27,061 |
| 33 | | | | | | | | | |
| 34 | Total Brown | \$350,751 | | | | \$15,339 | \$76,414 | \$113,547 | \$75,575 |
| 35 | | | | | | | | | |
| 36 | Ghent | | | | | | | | |
| 37 | Ghent 1 - Baghouse | \$131,000 | Apr-12 | | See GH-Unit 2 | | | \$3,930 | \$45,850 |
| 38 | Ghent 1 - PAC Injection | \$6,380 | Apr-13 | | See GH-Unit 2 | | | | \$1,000 |
| 42 | Ghent 1 - Escalation | \$34,012 | | | | \$0 | \$0 | \$645 | \$9,876 |
| 43 | Total Ghent 1 | \$171,392 | | | | \$0 | \$0 | \$4,575 | \$56,726 |
| 44 | | | | | | | | | |
| 45 | Ghent 2 - SCR | \$227,000 | Dec-10 | | June, 2011 | \$11,350 | \$68,100 | \$90,800 | \$56,750 |
| 46 | Ghent 2 - Baghouse | \$120,000 | Apr-12 | | June, 2011 | | | \$4,800 | \$42,000 |
| 47 | Ghent 2 - PAC Injection | \$6,109 | Apr-13 | | June, 2011 | | | | \$1,000 |
| 52 | Ghent 2 - Escalation | \$66,928 | | | | \$867 | \$8,135 | \$15,701 | \$21,028 |
| 53 | Total Ghent 2 | \$420,037 | | | | \$12,217 | \$76,235 | \$111,301 | \$120,778 |
| 54 | | | | | | | | | |
| 55 | Ghent 3 - Baghouse | \$138,000 | Apr-12 | | See GH-Unit 2 | | | \$16,560 | \$48,300 |
| 56 | Ghent 3 - PAC Injection | \$6,173 | Apr-13 | | See GH-Unit 2 | | | | \$3,087 |
| 60 | Ghent 3 - Escalation | \$33,660 | | | See GH-Unit 2 | \$0 | \$0 | \$2,720 | \$10,832 |
| 61 | Total Ghent 3 | \$177,833 | | | | \$0 | \$0 | \$19,280 | \$62,219 |
| 62 | | | | | | | | | |
| 63 | Ghent 4 - Baghouse | \$117,000 | Apr-12 | | See GH-Unit 2 | | | \$11,700 | \$40,950 |
| 64 | Ghent 4 - PAC Injection | \$6,210 | Apr-13 | | See GH-Unit 2 | | | | \$3,105 |
| 68 | Ghent 4 - Escalation | \$28,990 | | | | \$0 | \$0 | \$1,922 | \$9,287 |
| 69 | Total Ghent 4 | \$152,200 | | | | \$0 | \$0 | \$13,622 | \$53,342 |
| 70 | | | | | | | | | |
| 71 | Total Ghent | \$921,461 | | | | \$12,217 | \$76,235 | \$148,777 | \$293,065 |
| 72 | | | | | | | | | |

| | K | L | M | N | O | P |
|----|-----------|----------|------|------|-----------|-----|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | 2015 | 2016 | 2017 | 2018 | Total | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | \$59,000 | \$0 |
| 7 | | | | | \$34,000 | \$0 |
| 8 | | | | | \$1,599 | \$0 |
| 10 | | | | | \$4,000 | \$0 |
| 12 | | | | | \$15,476 | \$0 |
| 13 | \$0 | \$0 | \$0 | \$0 | \$114,075 | \$0 |
| 14 | | | | | | |
| 15 | | | | | \$92,000 | \$0 |
| 16 | \$10,540 | \$1,020 | | | \$34,000 | \$0 |
| 17 | \$1,238 | | | | \$2,476 | \$0 |
| 20 | | | | | \$4,000 | \$0 |
| 22 | \$3,053 | \$316 | | | \$21,300 | \$0 |
| 23 | \$14,831 | \$1,336 | \$0 | \$0 | \$153,776 | \$0 |
| 24 | | | | | | |
| 27 | \$28,670 | \$9,150 | | | \$61,000 | \$0 |
| 28 | \$3,426 | \$1,000 | | | \$5,426 | \$0 |
| 31 | \$8,320 | \$3,142 | | | \$16,475 | \$0 |
| 32 | \$40,416 | \$13,292 | \$0 | \$0 | \$82,901 | \$0 |
| 33 | | | | | | |
| 34 | \$55,248 | \$14,628 | \$0 | \$0 | \$350,751 | \$0 |
| 35 | | | | | | |
| 36 | | | | | | |
| 37 | \$61,570 | \$19,650 | | | \$131,000 | \$0 |
| 38 | \$4,380 | \$1,000 | | | \$6,380 | \$0 |
| 42 | \$17,097 | \$6,393 | | | \$34,012 | \$0 |
| 43 | \$83,047 | \$27,043 | \$0 | \$0 | \$171,392 | \$0 |
| 44 | | | | | | |
| 45 | | | | | \$227,000 | \$0 |
| 46 | \$56,400 | \$16,800 | | | \$120,000 | \$0 |
| 47 | \$4,109 | \$1,000 | | | \$6,109 | \$0 |
| 52 | \$15,686 | \$5,511 | | | \$66,928 | \$0 |
| 53 | \$76,195 | \$23,311 | \$0 | \$0 | \$420,037 | \$0 |
| 54 | | | | | | |
| 55 | \$66,240 | \$6,900 | | | \$138,000 | \$0 |
| 56 | \$3,087 | | | | \$6,173 | \$0 |
| 60 | \$17,972 | \$2,136 | | | \$33,660 | \$0 |
| 61 | \$87,298 | \$9,036 | \$0 | \$0 | \$177,833 | \$0 |
| 62 | | | | | | |
| 63 | \$58,500 | \$5,850 | | | \$117,000 | \$0 |
| 64 | \$3,105 | | | | \$6,210 | \$0 |
| 68 | \$15,970 | \$1,811 | \$0 | \$0 | \$28,990 | \$0 |
| 69 | \$77,575 | \$7,661 | \$0 | \$0 | \$152,200 | \$0 |
| 70 | | | | | | |
| 71 | \$324,115 | \$67,052 | \$0 | \$0 | \$921,461 | \$0 |
| 72 | | | | | | |

| | A | C | D | E | F | G | H | I | J |
|-----|--|--------------------|--------|---|----------------|-----------------|------------------|------------------|------------------|
| 73 | Mill Creek | | | | | | | | |
| 74 | Mill Creek 1 - FGD Upgrade | \$41,250 | Apr-12 | | June, 2011 | | | \$10,313 | \$28,875 |
| 75 | Mill Creek 1 - SCR | \$97,020 | Apr-12 | | December, 2011 | | | \$2,911 | \$27,166 |
| 76 | Mill Creek 1 - Baghouse | \$80,850 | Jul-11 | | See MC-Unit 4 | | \$8,085 | \$28,298 | \$40,425 |
| 77 | Mill Creek 1 - Electrostatic Precipitator | \$0 | | | See MC-Unit 4 | | \$0 | \$0 | \$0 |
| 78 | Mill Creek 1 - PAC Injection | \$4,290 | Jul-11 | | See MC-Unit 4 | | \$429 | \$1,502 | \$2,360 |
| 81 | Mill Creek 1 - SAM Mitigation | \$7,920 | Apr-12 | | | | | \$396 | \$792 |
| 83 | Mill Creek 1 - Escalation | \$52,077 | | | | \$0 | \$1,017 | \$7,131 | \$21,000 |
| 84 | Total Mill Creek 1 | \$283,407 | | | | \$0 | \$9,531 | \$50,549 | \$120,617 |
| 85 | | | | | | | | | |
| 86 | Mill Creek 2 - FGD Upgrade | \$41,250 | Jul-11 | | June, 2011 | | \$10,313 | \$28,875 | \$2,063 |
| 87 | Mill Creek 2 - SCR | \$97,020 | Jul-11 | | December, 2011 | | \$2,911 | \$27,166 | \$29,106 |
| 88 | Mill Creek 2 - Baghouse | \$80,850 | Dec-10 | | See MC-Unit 4 | \$8,085 | \$28,298 | \$40,425 | \$4,043 |
| 89 | Mill Creek 2 - Electrostatic Precipitator | \$33,000 | Dec-10 | | See MC-Unit 4 | \$3,300 | \$11,550 | \$16,500 | \$1,650 |
| 90 | Mill Creek 2 - PAC Injection | \$4,290 | Dec-10 | | See MC-Unit 4 | \$429 | \$1,502 | \$2,360 | |
| 91 | Mill Creek 2 - SAM Mitigation | \$7,920 | Jul-11 | | | | \$396 | \$792 | \$2,376 |
| 92 | Mill Creek 2 - Escalation | \$45,866 | | | | \$903 | \$6,566 | \$19,070 | \$8,271 |
| 93 | Total Mill Creek 2 | \$310,196 | | | | \$12,717 | \$61,534 | \$135,188 | \$47,508 |
| 94 | | | | | | | | | |
| 97 | Mill Creek 3 - FGD (U4 update and tie in) | \$63,750 | Apr-13 | | June, 2011 | | | | \$47,813 |
| 98 | Mill Creek 3 - FGD (Unit 3 Removal) | \$25,500 | Apr-13 | | See MC-Unit 4 | | | | \$6,375 |
| 99 | Mill Creek 3 - Baghouse | \$104,125 | Jul-11 | | See MC-Unit 4 | | \$2,083 | \$31,238 | \$39,568 |
| 100 | Mill Creek 3 - PAC Injection | \$5,525 | Jul-11 | | See MC-Unit 4 | | \$111 | \$1,658 | \$2,100 |
| 101 | Mill Creek 3 - Escalation | \$43,488 | | | | \$0 | \$262 | \$5,402 | \$20,206 |
| 102 | Total Mill Creek 3 | \$242,388 | | | | \$0 | \$2,455 | \$38,297 | \$116,061 |
| 103 | | | | | | | | | |
| 104 | Mill Creek 4 - FGD | \$236,250 | Dec-10 | | March, 2011 | \$18,900 | \$80,325 | \$89,775 | \$47,250 |
| 105 | Mill Creek 4 - SCR Upgrade | \$5,250 | Dec-10 | | June, 2011 | \$4,200 | \$1,050 | | |
| 106 | Mill Creek 4 - Baghouse | \$131,250 | Dec-10 | | March, 2011 | \$5,250 | \$45,938 | \$52,500 | \$27,563 |
| 107 | Mill Creek 4 - PAC Injection | \$6,825 | Dec-10 | | March, 2011 | \$273 | \$2,389 | \$2,730 | \$1,433 |
| 108 | Mill Creek 4 - Ammonia | \$10,500 | Dec-10 | | June, 2011 | \$5,250 | \$5,250 | | |
| 109 | Mill Creek 4 - Escalation | \$58,596 | | | | \$2,588 | \$16,121 | \$23,815 | \$16,073 |
| 110 | Total Mill Creek 4 | \$448,671 | | | | \$36,461 | \$151,072 | \$168,820 | \$92,319 |
| 111 | | | | | | | | | |
| 112 | Total Mill Creek | \$1,284,663 | | | | \$49,177 | \$224,592 | \$392,854 | \$376,505 |
| 113 | | | | | | | | | |
| 114 | Trimble | | | | | | | | |
| 115 | Trimble 1 - Baghouse | \$128,000 | Apr-12 | | December, 2012 | | | \$12,800 | \$44,800 |
| 116 | Trimble 1 - PAC Injection | \$6,451 | Apr-13 | | December, 2012 | | | | \$3,226 |
| 117 | Trimble 1 - Escalation | \$31,635 | | | | \$0 | \$0 | \$2,102 | \$10,124 |
| 118 | Total Trimble 1 | \$166,086 | | | | \$0 | \$0 | \$14,902 | \$58,149 |
| 119 | | | | | | | | | |
| 120 | Total Trimble | \$166,086 | | | | \$0 | \$0 | \$14,902 | \$58,149 |
| 121 | | | | | | | | | |
| 122 | Total Environmental Compliance Air - Alternate Plan | \$2,722,961 | | | | \$76,733 | \$377,241 | \$670,080 | \$803,294 |
| 123 | | | | | | | | | |
| 124 | | | | | | | | | |
| 125 | Scope | \$2,274,459 | | | | | | | |
| 126 | Escalation | \$448,502 | | | | | | | |
| 127 | | \$2,722,961 | | | | | | | |

| | K | L | M | N | O | P |
|-----|------------------|------------------|----------------|------------|--------------------|------------|
| 73 | | | | | | |
| 74 | \$2,063 | | | | \$41,250 | \$0 |
| 75 | \$29,106 | \$35,897 | \$1,940 | | \$97,020 | \$0 |
| 76 | \$4,043 | | | | \$80,850 | \$0 |
| 77 | \$0 | | | | \$0 | \$0 |
| 78 | | | | | \$4,290 | \$0 |
| 81 | \$2,376 | \$3,960 | \$396 | | \$7,920 | \$0 |
| 83 | \$9,744 | \$12,340 | \$846 | | \$52,077 | \$0 |
| 84 | \$47,331 | \$52,197 | \$3,182 | \$0 | \$283,407 | \$0 |
| 85 | | | | | | |
| 86 | | | | | \$41,250 | \$0 |
| 87 | \$35,897 | \$1,940 | | | \$97,020 | \$0 |
| 88 | | | | | \$80,850 | \$0 |
| 89 | | | | | \$33,000 | \$0 |
| 90 | | | | | \$4,290 | \$0 |
| 91 | \$3,960 | \$396 | | | \$7,920 | \$0 |
| 92 | \$10,332 | \$723 | \$0 | | \$45,866 | \$0 |
| 93 | \$50,190 | \$3,060 | \$0 | \$0 | \$310,196 | \$0 |
| 94 | | | | | | |
| 97 | \$15,938 | | | | \$63,750 | \$0 |
| 98 | \$19,125 | | | | \$25,500 | \$0 |
| 99 | \$31,238 | | | | \$104,125 | \$0 |
| 100 | \$1,658 | | | | \$5,525 | \$0 |
| 101 | \$17,617 | \$0 | | | \$43,488 | \$0 |
| 102 | \$85,575 | \$0 | \$0 | \$0 | \$242,388 | \$0 |
| 103 | | | | | | |
| 104 | | | | | \$236,250 | \$0 |
| 105 | | | | | \$5,250 | \$0 |
| 106 | | | | | \$131,250 | \$0 |
| 107 | | | | | \$6,825 | \$0 |
| 108 | | | | | \$10,500 | \$0 |
| 109 | \$0 | | | | \$58,596 | \$0 |
| 110 | \$0 | \$0 | \$0 | \$0 | \$448,671 | \$0 |
| 111 | | | | | | |
| 112 | \$183,095 | \$55,257 | \$3,182 | \$0 | \$1,284,663 | \$0 |
| 113 | | | | | | |
| 114 | | | | | | |
| 115 | \$64,000 | \$6,400 | | | \$128,000 | \$0 |
| 116 | \$3,226 | | | | \$6,451 | \$0 |
| 117 | \$17,427 | \$1,981 | | | \$31,635 | \$0 |
| 118 | \$84,653 | \$8,381 | \$0 | \$0 | \$166,086 | \$0 |
| 119 | | | | | | |
| 120 | \$84,653 | \$8,381 | \$0 | \$0 | \$166,086 | \$0 |
| 121 | | | | | | |
| 122 | \$647,111 | \$145,319 | \$3,182 | \$0 | \$2,722,961 | \$0 |
| 123 | | | | | | |
| 124 | | | | | | |
| 125 | | | | | | |
| 126 | | | | | | |
| 127 | | | | | | |

| | A | C | D | E | F | G | H | I | J |
|-----|---|---|---|---|---|---|------|------|------|
| 128 | | | | | | | | | |
| 129 | | | | | | | | | |
| 130 | | | | | | | | | |
| 131 | | | | | | | | | |
| 132 | | | | | | | | | |
| 133 | | | | | | | | | |
| 134 | | | | | | | 3.5% | 3.5% | 3.5% |
| 135 | | | | | | | 1 | 2 | 3 |

| | K | L | M | N | O | P |
|-----|------|------|------|------|------|---|
| 128 | | | | | | |
| 129 | | | | | | |
| 130 | | | | | | |
| 131 | | | | | | |
| 132 | | | | | | |
| 133 | | | | | | |
| 134 | 3.5% | 3.5% | 3.5% | 3.5% | 3.5% | |
| 135 | 4 | 5 | 6 | 7 | 8 | |

| | A | B | D | E | F | G | H | I | J | K | L | M | N |
|----|---|--|-----------|---|----------|----------|----------|----------|----------|----------|---------|------|-----------|
| 1 | | Environmental Air - CATR by January 2015, NAAQS by January 2016, HAPs by January 2017 | | | | | | | | | | | |
| 2 | | \$ in thousands | | | | | | | | | | | |
| 3 | | Capital Cost | | | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | Total |
| 4 | | Alternate Plan | | | | | | | | | | | |
| 5 | 1 | Brown 1 - SCR | \$59,000 | | \$2,950 | \$17,700 | \$23,600 | \$14,750 | | | | | \$59,000 |
| 6 | 1 | Brown 1 - Baghouse | \$34,000 | | \$1,700 | \$11,900 | \$13,600 | \$6,800 | | | | | \$34,000 |
| 7 | 1 | Brown 1 - SAM Mitigation | \$4,000 | | \$200 | \$1,200 | \$1,600 | \$1,000 | | | | | \$4,000 |
| 10 | 1 | Brown 2 - SCR | \$92,000 | | \$9,200 | \$34,500 | \$43,700 | \$4,600 | | | | | \$92,000 |
| 11 | 1 | Brown 2 - SAM Mitigation | \$4,000 | | \$200 | \$1,600 | \$2,200 | | | | | | \$4,000 |
| 12 | 1 | Ghent 2 - SCR | \$227,000 | | \$11,350 | \$68,100 | \$90,800 | \$56,750 | | | | | \$227,000 |
| 16 | 1 | Mill Creek 2 - Baghouse | \$80,850 | | \$8,085 | \$28,298 | \$40,425 | \$4,043 | | | | | \$80,850 |
| 19 | 1 | Mill Creek 2 - Electrostatic Precipitator | \$33,000 | | \$3,300 | \$11,550 | \$16,500 | \$1,650 | | | | | \$33,000 |
| 20 | 1 | Mill Creek 2 - PAC Injection | \$4,290 | | \$429 | \$1,502 | \$2,360 | | | | | | \$4,290 |
| 23 | 1 | Mill Creek 4 - FGD | \$236,250 | | \$18,900 | \$80,325 | \$89,775 | \$47,250 | | | | | \$236,250 |
| 24 | 1 | Mill Creek 4 - SCR Upgrade | \$5,250 | | \$4,200 | \$1,050 | | | | | | | \$5,250 |
| 28 | 1 | Mill Creek 4 - Baghouse | \$131,250 | | \$5,250 | \$45,938 | \$52,500 | \$27,563 | | | | | \$131,250 |
| 29 | 1 | Mill Creek 4 - PAC Injection | \$6,825 | | \$273 | \$2,389 | \$2,730 | \$1,433 | | | | | \$6,825 |
| 30 | 1 | Mill Creek 4 - Ammonia | \$10,500 | | \$5,250 | \$5,250 | | | | | | | \$10,500 |
| 35 | 2 | Brown 2 - Baghouse | \$34,000 | | | \$1,360 | \$10,200 | \$10,880 | \$10,540 | \$1,020 | | | \$34,000 |
| 36 | 2 | Mill Creek 1 - Baghouse | \$80,850 | | | \$8,085 | \$28,298 | \$40,425 | \$4,043 | | | | \$80,850 |
| 37 | 2 | Mill Creek 1 - PAC Injection | \$4,290 | | | \$429 | \$1,502 | \$2,360 | | | | | \$4,290 |
| 41 | 2 | Mill Creek 2 - FGD Upgrade | \$41,250 | | | \$10,313 | \$28,875 | \$2,063 | | | | | \$41,250 |
| 42 | 2 | Mill Creek 2 - SCR | \$97,020 | | | \$2,911 | \$27,166 | \$29,106 | \$35,897 | \$1,940 | | | \$97,020 |
| 46 | 2 | Mill Creek 2 - SAM Mitigation | \$7,920 | | | \$396 | \$792 | \$2,376 | \$3,960 | \$396 | | | \$7,920 |
| 47 | 2 | Mill Creek 3 - Baghouse | \$104,125 | | | \$2,083 | \$31,238 | \$39,568 | \$31,238 | | | | \$104,125 |
| 48 | 2 | Mill Creek 3 - PAC Injection | \$5,525 | | | \$111 | \$1,658 | \$2,100 | \$1,658 | | | | \$5,525 |
| 49 | 3 | Brown 1 - PAC Injection | \$1,599 | | | | \$800 | \$800 | | | | | \$1,599 |
| 50 | 3 | Brown 3 - Baghouse | \$61,000 | | | | \$1,830 | \$21,350 | \$28,670 | \$9,150 | | | \$61,000 |
| 53 | 3 | Ghent 1 - Baghouse | \$131,000 | | | | \$3,930 | \$45,850 | \$61,570 | \$19,650 | | | \$131,000 |
| 55 | 3 | Ghent 2 - Baghouse | \$120,000 | | | | \$4,800 | \$42,000 | \$56,400 | \$16,800 | | | \$120,000 |
| 56 | 3 | Ghent 3 - Baghouse | \$138,000 | | | | \$16,560 | \$48,300 | \$66,240 | \$6,900 | | | \$138,000 |
| 57 | 3 | Ghent 4 - Baghouse | \$117,000 | | | | \$11,700 | \$40,950 | \$58,500 | \$5,850 | | | \$117,000 |
| 58 | 3 | Mill Creek 1 - FGD Upgrade | \$41,250 | | | | \$10,313 | \$28,875 | \$2,063 | | | | \$41,250 |
| 59 | 3 | Mill Creek 1 - SCR | \$97,020 | | | | \$2,911 | \$27,166 | \$29,106 | \$35,897 | \$1,940 | | \$97,020 |
| 60 | 3 | Mill Creek 1 - SAM Mitigation | \$7,920 | | | | \$396 | \$792 | \$2,376 | \$3,960 | \$396 | | \$7,920 |
| 63 | 3 | Trimble 1 - Baghouse | \$128,000 | | | | \$12,800 | \$44,800 | \$64,000 | \$6,400 | | | \$128,000 |
| 64 | 4 | Brown 2 - PAC Injection | \$2,476 | | | | | \$1,238 | \$1,238 | | | | \$2,476 |
| 65 | 4 | Brown 3 - PAC Injection | \$5,426 | | | | | \$1,000 | \$3,426 | \$1,000 | | | \$5,426 |
| 66 | 4 | Ghent 1 - PAC Injection | \$6,380 | | | | | \$1,000 | \$4,380 | \$1,000 | | | \$6,380 |
| 67 | 4 | Ghent 2 - PAC Injection | \$6,109 | | | | | \$1,000 | \$4,109 | \$1,000 | | | \$6,109 |
| 68 | 4 | Ghent 3 - PAC Injection | \$6,173 | | | | | \$3,087 | \$3,087 | | | | \$6,173 |
| 69 | 4 | Ghent 4 - PAC Injection | \$6,210 | | | | | \$3,105 | \$3,105 | | | | \$6,210 |
| 70 | 4 | Mill Creek 3 - FGD (U4 update and tie in) | \$63,750 | | | | | \$47,813 | \$15,938 | | | | \$63,750 |
| 71 | 4 | Mill Creek 3 - FGD (Unit 3 Removal) | \$25,500 | | | | | \$6,375 | \$19,125 | | | | \$25,500 |
| 72 | 4 | Trimble 1 - PAC Injection | \$6,451 | | | | | \$3,226 | \$3,226 | | | | \$6,451 |
| 73 | | | | | | | | | | | | | |
| 74 | | | | | | | | | | | | | |
| 75 | | | | | | | | | | | | | |

| | O |
|----|-----|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | \$0 |
| 6 | \$0 |
| 7 | \$0 |
| 10 | \$0 |
| 11 | \$0 |
| 12 | \$0 |
| 16 | \$0 |
| 19 | \$0 |
| 20 | \$0 |
| 23 | \$0 |
| 24 | \$0 |
| 28 | \$0 |
| 29 | \$0 |
| 30 | \$0 |
| 35 | \$0 |
| 36 | \$0 |
| 37 | \$0 |
| 41 | \$0 |
| 42 | \$0 |
| 46 | \$0 |
| 47 | \$0 |
| 48 | \$0 |
| 49 | \$0 |
| 50 | \$0 |
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| 55 | \$0 |
| 56 | \$0 |
| 57 | \$0 |
| 58 | \$0 |
| 59 | \$0 |
| 60 | \$0 |
| 63 | \$0 |
| 64 | \$0 |
| 65 | \$0 |
| 66 | \$0 |
| 67 | \$0 |
| 68 | \$0 |
| 69 | \$0 |
| 70 | \$0 |
| 71 | \$0 |
| 72 | \$0 |
| 73 | |
| 74 | |
| 75 | |

| | A | B | D | E | F | G | H | I | J | K | L | M | N |
|----|---|---|---|---|------|------|------|------|------|------|------|------|---|
| 76 | | | | | | | | | | | | | |
| 77 | | | | | | | | | | | | | |
| 78 | | | | | | | | | | | | | |
| 79 | | | | | 3.5% | 3.5% | 3.5% | 3.5% | 3.5% | 3.5% | 3.5% | 3.5% | |
| 80 | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |

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: Environmental Summay alternate scenario Rev4 - Pras (3) 10-13-10.xlsx

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

| | A | C | D | E | F | G | H | I | J |
|----|--|---------------------|-------------------|------------------------|------------------------------|--------------------------|-----------------|-----------------|------------------|
| 1 | Environmental Air - CATR by January 2015, NAAQS by January 2016, HAPs by January 2017 | | | | | | | | |
| 2 | \$ in thousands | | | | | | | | |
| 3 | | Capital Cost | ECR Filing | portable Docume | start of Construction | Notice to Proceed | 2011 | 2012 | 2013 |
| 4 | Alternate Plan | | | | | | | | |
| 5 | Brown | | | | | | | | |
| 6 | Brown 1 - SCR | \$59,000 | Dec-10 | | February, 2011 | May, 2011 | \$2,950 | \$17,700 | \$23,600 |
| 7 | Brown 1 - Baghouse | \$34,000 | Dec-10 | | February, 2011 | May, 2011 | \$1,700 | \$11,900 | \$13,600 |
| 8 | Brown 1 - PAC Injection | \$1,599 | Apr-12 | | February, 2011 | May, 2011 | | | \$800 |
| 10 | Brown 1 - SAM Mitigation | \$4,000 | Dec-10 | | | | \$200 | \$1,200 | \$1,600 |
| 12 | Brown 1 - Escalation | \$15,476 | | | | | \$371 | \$3,679 | \$6,504 |
| 13 | Total Brown 1 | \$114,075 | | | | | \$5,221 | \$34,479 | \$46,103 |
| 14 | | | | | | | | | |
| 15 | Brown 2 - SCR | \$92,000 | Dec-10 | | February, 2011 | May, 2011 | \$9,200.0 | \$34,500 | \$43,700 |
| 16 | Brown 2 - Baghouse | \$34,000 | Jul-11 | | February, 2011 | May, 2011 | | \$1,360 | \$10,200 |
| 17 | Brown 2 - PAC Injection | \$2,476 | Apr-13 | | February, 2011 | May, 2011 | | | |
| 20 | Brown 2 - SAM Mitigation | \$4,000 | Dec-10 | | | | \$200 | \$1,600 | \$2,200 |
| 22 | Brown 2 - Escalation | \$21,300 | | | | | \$718 | \$4,475 | \$9,214 |
| 23 | Total Brown 2 | \$153,776 | | | | | \$10,118 | \$41,935 | \$65,314 |
| 24 | | | | | | | | | |
| 27 | Brown 3 - Baghouse | \$61,000 | Apr-12 | | February, 2011 | May, 2011 | | | \$1,830 |
| 28 | Brown 3 - PAC Injection | \$5,426 | Apr-13 | | February, 2011 | May, 2011 | | | |
| 31 | Brown 3 - Escalation | \$16,475 | | | February, 2011 | May, 2011 | \$0 | \$0 | \$301 |
| 32 | Total Brown 3 | \$82,901 | | | | | \$0 | \$0 | \$2,131 |
| 33 | | | | | | | | | |
| 34 | Total Brown | \$350,751 | | | | | \$15,339 | \$76,414 | \$113,547 |
| 35 | | | | | | | | | |
| 36 | Ghent | | | | | | | | |
| 37 | Ghent 1 - Baghouse | \$131,000 | Apr-12 | | June, 2011 | September, 2011 | | | \$3,930 |
| 38 | Ghent 1 - PAC Injection | \$6,380 | Apr-13 | | June, 2011 | September, 2011 | | | |
| 42 | Ghent 1 - Escalation | \$34,012 | | | | September, 2011 | \$0 | \$0 | \$645 |
| 43 | Total Ghent 1 | \$171,392 | | | | | \$0 | \$0 | \$4,575 |
| 44 | | | | | | | | | |
| 45 | Ghent 2 - SCR | \$227,000 | Dec-10 | | June, 2011 | September, 2011 | \$11,350 | \$68,100 | \$90,800 |
| 46 | Ghent 2 - Baghouse | \$120,000 | Apr-12 | | June, 2011 | September, 2011 | | | \$4,800 |
| 47 | Ghent 2 - PAC Injection | \$6,109 | Apr-13 | | June, 2011 | September, 2011 | | | |
| 52 | Ghent 2 - Escalation | \$66,928 | | | | | \$867 | \$8,135 | \$15,701 |
| 53 | Total Ghent 2 | \$420,037 | | | | | \$12,217 | \$76,235 | \$111,301 |
| 54 | | | | | | | | | |
| 55 | Ghent 3 - Baghouse | \$138,000 | Apr-12 | | June, 2011 | September, 2011 | | | \$16,560 |
| 56 | Ghent 3 - PAC Injection | \$6,173 | Apr-13 | | June, 2011 | September, 2011 | | | |
| 60 | Ghent 3 - Escalation | \$33,660 | | | | | \$0 | \$0 | \$2,720 |
| 61 | Total Ghent 3 | \$177,833 | | | | | \$0 | \$0 | \$19,280 |
| 62 | | | | | | | | | |
| 63 | Ghent 4 - Baghouse | \$117,000 | Apr-12 | | June, 2011 | September, 2011 | | | \$11,700 |
| 64 | Ghent 4 - PAC Injection | \$6,210 | Apr-13 | | June, 2011 | September, 2011 | | | |
| 68 | Ghent 4 - Escalation | \$28,990 | | | | | \$0 | \$0 | \$1,922 |
| 69 | Total Ghent 4 | \$152,200 | | | | | \$0 | \$0 | \$13,622 |
| 70 | | | | | | | | | |
| 71 | Total Ghent | \$921,461 | | | | | \$12,217 | \$76,235 | \$148,777 |
| 72 | | | | | | | | | |

| | K | L | M | N | O | P | Q |
|----|------------------|------------------|-----------------|------------|------------|------------------|------------|
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | 2014 | 2015 | 2016 | 2017 | 2018 | Total | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | \$14,750 | | | | | \$59,000 | \$0 |
| 7 | \$6,800 | | | | | \$34,000 | \$0 |
| 8 | \$800 | | | | | \$1,599 | \$0 |
| 10 | \$1,000 | | | | | \$4,000 | \$0 |
| 12 | \$4,922 | | | | | \$15,476 | \$0 |
| 13 | \$28,272 | \$0 | \$0 | \$0 | \$0 | \$114,075 | \$0 |
| 14 | | | | | | | |
| 15 | \$4,600 | | | | | \$92,000 | \$0 |
| 16 | \$10,880 | \$10,540 | \$1,020 | | | \$34,000 | \$0 |
| 17 | \$1,238 | \$1,238 | | | | \$2,476 | \$0 |
| 20 | | | | | | \$4,000 | \$0 |
| 22 | \$3,524 | \$3,053 | \$316 | | | \$21,300 | \$0 |
| 23 | \$20,242 | \$14,831 | \$1,336 | \$0 | \$0 | \$153,776 | \$0 |
| 24 | | | | | | | |
| 27 | \$21,350 | \$28,670 | \$9,150 | | | \$61,000 | \$0 |
| 28 | \$1,000 | \$3,426 | \$1,000 | | | \$5,426 | \$0 |
| 31 | \$4,711 | \$8,320 | \$3,142 | | | \$16,475 | \$0 |
| 32 | \$27,061 | \$40,416 | \$13,292 | \$0 | \$0 | \$82,901 | \$0 |
| 33 | | | | | | | |
| 34 | \$75,575 | \$55,248 | \$14,628 | \$0 | \$0 | \$350,751 | \$0 |
| 35 | | | | | | | |
| 36 | | | | | | | |
| 37 | \$45,850 | \$61,570 | \$19,650 | | | \$131,000 | \$0 |
| 38 | \$1,000 | \$4,380 | \$1,000 | | | \$6,380 | \$0 |
| 42 | \$9,876 | \$17,097 | \$6,393 | | | \$34,012 | \$0 |
| 43 | \$56,726 | \$83,047 | \$27,043 | \$0 | \$0 | \$171,392 | \$0 |
| 44 | | | | | | | |
| 45 | \$56,750 | | | | | \$227,000 | \$0 |
| 46 | \$42,000 | \$56,400 | \$16,800 | | | \$120,000 | \$0 |
| 47 | \$1,000 | \$4,109 | \$1,000 | | | \$6,109 | \$0 |
| 52 | \$21,028 | \$15,686 | \$5,511 | | | \$66,928 | \$0 |
| 53 | \$120,778 | \$76,195 | \$23,311 | \$0 | \$0 | \$420,037 | \$0 |
| 54 | | | | | | | |
| 55 | \$48,300 | \$66,240 | \$6,900 | | | \$138,000 | \$0 |
| 56 | \$3,087 | \$3,087 | | | | \$6,173 | \$0 |
| 60 | \$10,832 | \$17,972 | \$2,136 | | | \$33,660 | \$0 |
| 61 | \$62,219 | \$87,298 | \$9,036 | \$0 | \$0 | \$177,833 | \$0 |
| 62 | | | | | | | |
| 63 | \$40,950 | \$58,500 | \$5,850 | | | \$117,000 | \$0 |
| 64 | \$3,105 | \$3,105 | | | | \$6,210 | \$0 |
| 68 | \$9,287 | \$15,970 | \$1,811 | \$0 | \$0 | \$28,990 | \$0 |
| 69 | \$53,342 | \$77,575 | \$7,661 | \$0 | \$0 | \$152,200 | \$0 |
| 70 | | | | | | | |
| 71 | \$293,065 | \$324,115 | \$67,052 | \$0 | \$0 | \$921,461 | \$0 |
| 72 | | | | | | | |

| | A | C | D | E | F | G | H | I | J |
|-----|--|--------------------|--------|---|----------------|-------------|-----------------|------------------|------------------|
| 73 | Mill Creek | | | | | | | | |
| 74 | Mill Creek 1 - FGD Upgrade | \$41,250 | Apr-12 | | January, 2011 | March, 2011 | | | \$10,313 |
| 75 | Mill Creek 1 - SCR | \$97,020 | Apr-12 | | January, 2011 | March, 2011 | | | \$2,911 |
| 76 | Mill Creek 1 - Baghouse | \$80,850 | Jul-11 | | January, 2011 | March, 2011 | | \$8,085 | \$28,298 |
| 77 | Mill Creek 1 - Electrostatic Precipitator | \$0 | | | January, 2011 | March, 2011 | | \$0 | \$0 |
| 78 | Mill Creek 1 - PAC Injection | \$4,290 | Jul-11 | | January, 2011 | March, 2011 | | \$429 | \$1,502 |
| 81 | Mill Creek 1 - SAM Mitigation | \$7,920 | Apr-12 | | | | | | \$396 |
| 83 | Mill Creek 1 - Escalation | \$52,077 | | | | | \$0 | \$1,017 | \$7,131 |
| 84 | Total Mill Creek 1 | \$283,407 | | | | | \$0 | \$9,531 | \$50,549 |
| 85 | | | | | | | | | |
| 86 | Mill Creek 2 - FGD Upgrade | \$41,250 | Jul-11 | | January, 2011 | March, 2011 | | \$10,313 | \$28,875 |
| 87 | Mill Creek 2 - SCR | \$97,020 | Jul-11 | | January, 2011 | March, 2011 | | \$2,911 | \$27,166 |
| 88 | Mill Creek 2 - Baghouse | \$80,850 | Dec-10 | | January, 2011 | March, 2011 | \$8,085 | \$28,298 | \$40,425 |
| 89 | Mill Creek 2 - Electrostatic Precipitator | \$33,000 | Dec-10 | | January, 2011 | March, 2011 | \$3,300 | \$11,550 | \$16,500 |
| 90 | Mill Creek 2 - PAC Injection | \$4,290 | Dec-10 | | January, 2011 | March, 2011 | \$429 | \$1,502 | \$2,360 |
| 91 | Mill Creek 2 - SAM Mitigation | \$7,920 | Jul-11 | | | | | \$396 | \$792 |
| 92 | Mill Creek 2 - Escalation | \$45,866 | | | | | \$903 | \$6,566 | \$19,070 |
| 93 | Total Mill Creek 2 | \$310,196 | | | | | \$12,717 | \$61,534 | \$135,188 |
| 94 | | | | | | | | | |
| 97 | Mill Creek 3 - FGD (U4 update and tie in) | \$63,750 | Apr-13 | | January, 2011 | March, 2011 | | | |
| 98 | Mill Creek 3 - FGD (Unit 3 Removal) | \$25,500 | Apr-13 | | January, 2011 | March, 2011 | | | |
| 99 | Mill Creek 3 - Baghouse | \$104,125 | Jul-11 | | January, 2011 | March, 2011 | | \$2,083 | \$31,238 |
| 100 | Mill Creek 3 - PAC Injection | \$5,525 | Jul-11 | | January, 2011 | March, 2011 | | \$111 | \$1,658 |
| 101 | Mill Creek 3 - Escalation | \$43,488 | | | | | \$0 | \$262 | \$5,402 |
| 102 | Total Mill Creek 3 | \$242,388 | | | | | \$0 | \$2,455 | \$38,297 |
| 103 | | | | | | | | | |
| 104 | Mill Creek 4 - FGD | \$236,250 | Dec-10 | | January, 2011 | March, 2011 | \$18,900 | \$80,325 | \$89,775 |
| 105 | Mill Creek 4 - SCR Upgrade | \$5,250 | Dec-10 | | January, 2011 | March, 2011 | \$4,200 | \$1,050 | |
| 106 | Mill Creek 4 - Baghouse | \$131,250 | Dec-10 | | January, 2011 | March, 2011 | \$5,250 | \$45,938 | \$52,500 |
| 107 | Mill Creek 4 - PAC Injection | \$6,825 | Dec-10 | | January, 2011 | March, 2011 | \$273 | \$2,389 | \$2,730 |
| 108 | Mill Creek 4 - Ammonia | \$10,500 | Dec-10 | | January, 2011 | March, 2011 | \$5,250 | \$5,250 | |
| 109 | Mill Creek 4 - Escalation | \$58,596 | | | | | \$2,588 | \$16,121 | \$23,815 |
| 110 | Total Mill Creek 4 | \$448,671 | | | | | \$36,461 | \$151,072 | \$168,820 |
| 111 | | | | | | | | | |
| 112 | Total Mill Creek | \$1,284,663 | | | | | \$49,177 | \$224,592 | \$392,854 |
| 113 | | | | | | | | | |
| 114 | Trimble | | | | | | | | |
| 115 | Trimble 1 - Baghouse | \$128,000 | Apr-12 | | December, 2012 | April, 2013 | | | \$12,800 |
| 116 | Trimble 1 - PAC Injection | \$6,451 | Apr-13 | | December, 2012 | April, 2013 | | | |
| 117 | Trimble 1 - Escalation | \$31,635 | | | | | \$0 | \$0 | \$2,102 |
| 118 | Total Trimble 1 | \$166,086 | | | | | \$0 | \$0 | \$14,902 |
| 119 | | | | | | | | | |
| 120 | Total Trimble | \$166,086 | | | | | \$0 | \$0 | \$14,902 |
| 121 | | | | | | | | | |
| 122 | Total Environmental Compliance Air - Alternate Plan | \$2,722,961 | | | | | \$76,733 | \$377,241 | \$670,080 |
| 123 | | | | | | | | | |
| 124 | | | | | | | | | |
| 125 | Scope | \$2,274,459 | | | | | | | |
| 126 | Escalation | \$448,502 | | | | | | | |
| 127 | | \$2,722,961 | | | | | | | |

| | K | L | M | N | O | P | Q |
|-----|------------------|------------------|------------------|----------------|------------|--------------------|------------|
| 73 | | | | | | | |
| 74 | \$28,875 | \$2,063 | | | | \$41,250 | \$0 |
| 75 | \$27,166 | \$29,106 | \$35,897 | \$1,940 | | \$97,020 | \$0 |
| 76 | \$40,425 | \$4,043 | | | | \$80,850 | \$0 |
| 77 | \$0 | \$0 | | | | \$0 | \$0 |
| 78 | \$2,360 | | | | | \$4,290 | \$0 |
| 81 | \$792 | \$2,376 | \$3,960 | \$396 | | \$7,920 | \$0 |
| 83 | \$21,000 | \$9,744 | \$12,340 | \$846 | | \$52,077 | \$0 |
| 84 | \$120,617 | \$47,331 | \$52,197 | \$3,182 | \$0 | \$283,407 | \$0 |
| 85 | | | | | | | |
| 86 | \$2,063 | | | | | \$41,250 | \$0 |
| 87 | \$29,106 | \$35,897 | \$1,940 | | | \$97,020 | \$0 |
| 88 | \$4,043 | | | | | \$80,850 | \$0 |
| 89 | \$1,650 | | | | | \$33,000 | \$0 |
| 90 | | | | | | \$4,290 | \$0 |
| 91 | \$2,376 | \$3,960 | \$396 | | | \$7,920 | \$0 |
| 92 | \$8,271 | \$10,332 | \$723 | \$0 | | \$45,866 | \$0 |
| 93 | \$47,508 | \$50,190 | \$3,060 | \$0 | \$0 | \$310,196 | \$0 |
| 94 | | | | | | | |
| 97 | \$47,813 | \$15,938 | | | | \$63,750 | \$0 |
| 98 | \$6,375 | \$19,125 | | | | \$25,500 | \$0 |
| 99 | \$39,568 | \$31,238 | | | | \$104,125 | \$0 |
| 100 | \$2,100 | \$1,658 | | | | \$5,525 | \$0 |
| 101 | \$20,206 | \$17,617 | \$0 | | | \$43,488 | \$0 |
| 102 | \$116,061 | \$85,575 | \$0 | \$0 | \$0 | \$242,388 | \$0 |
| 103 | | | | | | | |
| 104 | \$47,250 | | | | | \$236,250 | \$0 |
| 105 | | | | | | \$5,250 | \$0 |
| 106 | \$27,563 | | | | | \$131,250 | \$0 |
| 107 | \$1,433 | | | | | \$6,825 | \$0 |
| 108 | | | | | | \$10,500 | \$0 |
| 109 | \$16,073 | \$0 | | | | \$58,596 | \$0 |
| 110 | \$92,319 | \$0 | \$0 | \$0 | \$0 | \$448,671 | \$0 |
| 111 | | | | | | | |
| 112 | \$376,505 | \$183,095 | \$55,257 | \$3,182 | \$0 | \$1,284,663 | \$0 |
| 113 | | | | | | | |
| 114 | | | | | | | |
| 115 | \$44,800 | \$64,000 | \$6,400 | | | \$128,000 | \$0 |
| 116 | \$3,226 | \$3,226 | | | | \$6,451 | \$0 |
| 117 | \$10,124 | \$17,427 | \$1,981 | | | \$31,635 | \$0 |
| 118 | \$58,149 | \$84,653 | \$8,381 | \$0 | \$0 | \$166,086 | \$0 |
| 119 | | | | | | | |
| 120 | \$58,149 | \$84,653 | \$8,381 | \$0 | \$0 | \$166,086 | \$0 |
| 121 | | | | | | | |
| 122 | \$803,294 | \$647,111 | \$145,319 | \$3,182 | \$0 | \$2,722,961 | \$0 |
| 123 | | | | | | | |
| 124 | | | | | | | |
| 125 | | | | | | | |
| 126 | | | | | | | |
| 127 | | | | | | | |

| | A | C | D | E | F | G | H | I | J |
|-----|---|---|---|---|---|---|------|------|------|
| 128 | | | | | | | | | |
| 129 | | | | | | | | | |
| 130 | | | | | | | | | |
| 131 | | | | | | | | | |
| 132 | | | | | | | | | |
| 133 | | | | | | | | | |
| 134 | | | | | | | 3.5% | 3.5% | 3.5% |
| 135 | | | | | | | 1 | 2 | 3 |

| | K | L | M | N | O | P | Q |
|-----|------|------|------|------|------|---|---|
| 128 | | | | | | | |
| 129 | | | | | | | |
| 130 | | | | | | | |
| 131 | | | | | | | |
| 132 | | | | | | | |
| 133 | | | | | | | |
| 134 | 3.5% | 3.5% | 3.5% | 3.5% | 3.5% | | |
| 135 | 4 | 5 | 6 | 7 | 8 | | |

| | A | B | D | E | F | G | H | I | J | K | L | M | N |
|----|---|--|-----------|---|----------|----------|----------|----------|----------|----------|---------|------|-----------|
| 1 | | Environmental Air - CATR by January 2015, NAAQS by January 2016, HAPs by January 2017 | | | | | | | | | | | |
| 2 | | \$ in thousands | | | | | | | | | | | |
| 3 | | Capital Cost | | | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | Total |
| 4 | | Alternate Plan | | | | | | | | | | | |
| 5 | 1 | Brown 1 - SCR | \$59,000 | | \$2,950 | \$17,700 | \$23,600 | \$14,750 | | | | | \$59,000 |
| 6 | 1 | Brown 1 - Baghouse | \$34,000 | | \$1,700 | \$11,900 | \$13,600 | \$6,800 | | | | | \$34,000 |
| 7 | 1 | Brown 1 - SAM Mitigation | \$4,000 | | \$200 | \$1,200 | \$1,600 | \$1,000 | | | | | \$4,000 |
| 10 | 1 | Brown 2 - SCR | \$92,000 | | \$9,200 | \$34,500 | \$43,700 | \$4,600 | | | | | \$92,000 |
| 11 | 1 | Brown 2 - SAM Mitigation | \$4,000 | | \$200 | \$1,600 | \$2,200 | | | | | | \$4,000 |
| 12 | 1 | Ghent 2 - SCR | \$227,000 | | \$11,350 | \$68,100 | \$90,800 | \$56,750 | | | | | \$227,000 |
| 16 | 1 | Mill Creek 2 - Baghouse | \$80,850 | | \$8,085 | \$28,298 | \$40,425 | \$4,043 | | | | | \$80,850 |
| 19 | 1 | Mill Creek 2 - Electrostatic Precipitator | \$33,000 | | \$3,300 | \$11,550 | \$16,500 | \$1,650 | | | | | \$33,000 |
| 20 | 1 | Mill Creek 2 - PAC Injection | \$4,290 | | \$429 | \$1,502 | \$2,360 | | | | | | \$4,290 |
| 23 | 1 | Mill Creek 4 - FGD | \$236,250 | | \$18,900 | \$80,325 | \$89,775 | \$47,250 | | | | | \$236,250 |
| 24 | 1 | Mill Creek 4 - SCR Upgrade | \$5,250 | | \$4,200 | \$1,050 | | | | | | | \$5,250 |
| 28 | 1 | Mill Creek 4 - Baghouse | \$131,250 | | \$5,250 | \$45,938 | \$52,500 | \$27,563 | | | | | \$131,250 |
| 29 | 1 | Mill Creek 4 - PAC Injection | \$6,825 | | \$273 | \$2,389 | \$2,730 | \$1,433 | | | | | \$6,825 |
| 30 | 1 | Mill Creek 4 - Ammonia | \$10,500 | | \$5,250 | \$5,250 | | | | | | | \$10,500 |
| 35 | 2 | Brown 2 - Baghouse | \$34,000 | | | \$1,360 | \$10,200 | \$10,880 | \$10,540 | \$1,020 | | | \$34,000 |
| 36 | 2 | Mill Creek 1 - Baghouse | \$80,850 | | | \$8,085 | \$28,298 | \$40,425 | \$4,043 | | | | \$80,850 |
| 37 | 2 | Mill Creek 1 - PAC Injection | \$4,290 | | | \$429 | \$1,502 | \$2,360 | | | | | \$4,290 |
| 41 | 2 | Mill Creek 2 - FGD Upgrade | \$41,250 | | | \$10,313 | \$28,875 | \$2,063 | | | | | \$41,250 |
| 42 | 2 | Mill Creek 2 - SCR | \$97,020 | | | \$2,911 | \$27,166 | \$29,106 | \$35,897 | \$1,940 | | | \$97,020 |
| 46 | 2 | Mill Creek 2 - SAM Mitigation | \$7,920 | | | \$396 | \$792 | \$2,376 | \$3,960 | \$396 | | | \$7,920 |
| 47 | 2 | Mill Creek 3 - Baghouse | \$104,125 | | | \$2,083 | \$31,238 | \$39,568 | \$31,238 | | | | \$104,125 |
| 48 | 2 | Mill Creek 3 - PAC Injection | \$5,525 | | | \$111 | \$1,658 | \$2,100 | \$1,658 | | | | \$5,525 |
| 49 | 3 | Brown 1 - PAC Injection | \$1,599 | | | | \$800 | \$800 | | | | | \$1,599 |
| 50 | 3 | Brown 3 - Baghouse | \$61,000 | | | | \$1,830 | \$21,350 | \$28,670 | \$9,150 | | | \$61,000 |
| 53 | 3 | Ghent 1 - Baghouse | \$131,000 | | | | \$3,930 | \$45,850 | \$61,570 | \$19,650 | | | \$131,000 |
| 55 | 3 | Ghent 2 - Baghouse | \$120,000 | | | | \$4,800 | \$42,000 | \$56,400 | \$16,800 | | | \$120,000 |
| 56 | 3 | Ghent 3 - Baghouse | \$138,000 | | | | \$16,560 | \$48,300 | \$66,240 | \$6,900 | | | \$138,000 |
| 57 | 3 | Ghent 4 - Baghouse | \$117,000 | | | | \$11,700 | \$40,950 | \$58,500 | \$5,850 | | | \$117,000 |
| 58 | 3 | Mill Creek 1 - FGD Upgrade | \$41,250 | | | | \$10,313 | \$28,875 | \$2,063 | | | | \$41,250 |
| 59 | 3 | Mill Creek 1 - SCR | \$97,020 | | | | \$2,911 | \$27,166 | \$29,106 | \$35,897 | \$1,940 | | \$97,020 |
| 60 | 3 | Mill Creek 1 - SAM Mitigation | \$7,920 | | | | \$396 | \$792 | \$2,376 | \$3,960 | \$396 | | \$7,920 |
| 63 | 3 | Trimble 1 - Baghouse | \$128,000 | | | | \$12,800 | \$44,800 | \$64,000 | \$6,400 | | | \$128,000 |
| 64 | 4 | Brown 2 - PAC Injection | \$2,476 | | | | | \$1,238 | \$1,238 | | | | \$2,476 |
| 65 | 4 | Brown 3 - PAC Injection | \$5,426 | | | | | \$1,000 | \$3,426 | \$1,000 | | | \$5,426 |
| 66 | 4 | Ghent 1 - PAC Injection | \$6,380 | | | | | \$1,000 | \$4,380 | \$1,000 | | | \$6,380 |
| 67 | 4 | Ghent 2 - PAC Injection | \$6,109 | | | | | \$1,000 | \$4,109 | \$1,000 | | | \$6,109 |
| 68 | 4 | Ghent 3 - PAC Injection | \$6,173 | | | | | \$3,087 | \$3,087 | | | | \$6,173 |
| 69 | 4 | Ghent 4 - PAC Injection | \$6,210 | | | | | \$3,105 | \$3,105 | | | | \$6,210 |
| 70 | 4 | Mill Creek 3 - FGD (U4 update and tie in) | \$63,750 | | | | | \$47,813 | \$15,938 | | | | \$63,750 |
| 71 | 4 | Mill Creek 3 - FGD (Unit 3 Removal) | \$25,500 | | | | | \$6,375 | \$19,125 | | | | \$25,500 |
| 72 | 4 | Trimble 1 - PAC Injection | \$6,451 | | | | | \$3,226 | \$3,226 | | | | \$6,451 |
| 73 | | | | | | | | | | | | | |
| 74 | | | | | | | | | | | | | |
| 75 | | | | | | | | | | | | | |

| | 0 |
|----|-----|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | \$0 |
| 6 | \$0 |
| 7 | \$0 |
| 10 | \$0 |
| 11 | \$0 |
| 12 | \$0 |
| 16 | \$0 |
| 19 | \$0 |
| 20 | \$0 |
| 23 | \$0 |
| 24 | \$0 |
| 28 | \$0 |
| 29 | \$0 |
| 30 | \$0 |
| 35 | \$0 |
| 36 | \$0 |
| 37 | \$0 |
| 41 | \$0 |
| 42 | \$0 |
| 46 | \$0 |
| 47 | \$0 |
| 48 | \$0 |
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| 67 | \$0 |
| 68 | \$0 |
| 69 | \$0 |
| 70 | \$0 |
| 71 | \$0 |
| 72 | \$0 |
| 73 | |
| 74 | |
| 75 | |

| | A | B | D | E | F | G | H | I | J | K | L | M | N |
|----|---|---|---|---|------|------|------|------|------|------|------|------|---|
| 76 | | | | | | | | | | | | | |
| 77 | | | | | | | | | | | | | |
| 78 | | | | | | | | | | | | | |
| 79 | | | | | 3.5% | 3.5% | 3.5% | 3.5% | 3.5% | 3.5% | 3.5% | 3.5% | |
| 80 | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |

From: Crabtree, Jonathan D.
To: Betz, Alex
CC: Saunders, Eileen; Hillman, Timothy M.; Wehrly, M. R.; 168908 E.ON-AQC
Sent: 10/12/2010 5:33:24 PM
Subject: 168908. 41.0100 101012 Mill Creek Information Request from PDM
Attachments: Table 1_02 Water Analysis.doc; Table 1_04 Limestone Props.doc; Table 1_11 and 1_12 Electrical.doc; Table 1_14 Load Model.doc

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 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

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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Table 1-2
Design Basis Water Analysis
[E.ON TO PROVIDE]

| Constituent | Well Water | City Water | Ohio River Water |
|--|--------------|--------------|------------------|
| | mg/L as such | mg/L as such | mg/L as such |
| Calcium | | | |
| Magnesium | | | |
| Sodium | | | |
| Potassium | | | |
| Total Cations, mg/L as CaCO ₃ | | | |
| M-alkalinity, mg/L as CaCO ₃ | | | |
| Sulfate | | | |
| Chloride | | | |
| Nitrate | | | |
| Silica | | | |
| Total Anions, mg/L as CaCO ₃ | | | |
| pH (range) | | | |
| Specific Conductance, μ S/cm | | | |
| Temperature (range), °F | | | |
| Total Suspended Solids | | | |
| Total Dissolved Solids | | | |
| Turbidity, NTU | | | |
| Color, PCU | | | |
| Total Phosphate, mg/l as PO ₄ | | | |
| Aluminum | | | |
| Barium | | | |
| Boron | | | |
| Cadmium | | | |
| Chromium | | | |
| Copper | | | |
| Iron | | | |
| Manganese | | | |
| Nickel | | | |
| Strontium | | | |
| Zinc | | | |
| References: | | | |
| • | | | |

| Table 1-4 Limestone Properties [E.ON TO CONFIRM] | | |
|--|----------------|------------------------------------|
| <u>Dry Basis, Percent (%) by Weight</u> | <u>Nominal</u> | <u>% Guaranteed</u> |
| Calcium Carbonate, CaCO ₃ | 94% | 90% minimum |
| Magnesium Carbonate, MgCO ₃ | 3% | 6% maximum (1.5% max insoluble) |
| Silica Dioxide, SiO ₂ | - | 3.5% maximum |
| Ferric Oxide, Fe ₂ O ₃ | - | 1.5% maximum |
| Aluminum Oxide, Al ₂ O ₃ | - | 4.3% maximum |
| Total Inerts (non CaCO ₃) | 6% | 7% maximum |
| Moisture | 5% | 12% maximum |
| Bond Work Index (kWh/t) | 12 | 12 maximum 4 minimum |
| Surface Moisture | 12% | 7% maximum |
| Fluorides | 500 | ppm |
| Chlorides | 550 | ppm |
| <u>Bulk Density Design Basis</u> | | |
| Volumetric Sizing | 55 | pcf |
| Structural Loading | 115 | pcf |
| Angle of Repose | 30 | degree |
| Surcharge Angle | 25 | degree |
| Maximum lump size | ¾ | inch |
| Data from Environmental Compliance Project Quality Data spreadsheet. | | |

Table 1-11
Electrical Design Data
[TO BE PROVIDED (TBP) BY E.ON]

| Design Parameter | Value | Units |
|--|-------|-------|
| Available system fault current at electrical system interface point. | | |
| • 345 KV System–Maximum: | TBP | amps |
| • 345 KV System–Minimum: | TBP | amps |
| • 22 KV System–Maximum: | TBP | amps |
| • 22 KV System–Minimum: | TBP | amps |
| • 13.8 KV System–Maximum: | TBP | amps |
| • 13.8 KV System– Minimum: | TBP | amps |
| • 4.16 KV System–Maximum: | TBP | amps |
| • 4.16 KV System–Minimum: | TBP | amps |
| • 480 V System–Maximum: | TBP | amps |
| • 480 V System–Minimum: | TBP | amps |

Table 1-12
Electrical Equipment and System Voltages
[TO BE PROVIDED (TBP) BY E.ON]

| | Continuo us Voltage (Volts) | Momentary Voltage Dip | Frequency (Hz) | | System Neutral Grounding | Transfer to Alternate Source | Max Sym Short-Circuit at Max Voltage (Amps) |
|---|--|----------------------------------|---------------------------|--------------------------------------|---|---|--|
| Power Supply Code | Nom | % of Nominal | Nominal | Configuration | Type | Method | 3-Phase Phase –Ground |
| GEN-1 Generator (Existing) | 22,000 | TBP | 60 | 3-phase, 3-wire, Wye | High Resistance | N/A | (Later) |
| MV-1 Medium Voltage (Existing) | 4,160 | TBP | 60 | 3-phase, 3-wire, Wye | Low Resistance | TBP | (Later) |
| MV-2 Medium Voltage (Existing) | 13,800 | TBP | 60 | 3-phase, 3-wire, Wye | TBP | TBP | (Later) |
| LV-1 Low Voltage (Power) | 480 | 80 | 60 | 3-phase, 3-wire, Delta - Delta | High Resistance | TBP | (Later) |
| LV-2 Low Voltage (Lighting) | 480Y/277 | 80 | 60 | 3-phase, 4-wire, Wye | Solidly Grounded | N/A | (Later) |
| LV-3 Low Voltage (Power) | 208Y/120 | 80 | 60 | 3-phase, 4-wire, Wye | Solidly Grounded | N/A | (Later) |
| UPS-1 UPS Power | 120 | 80 | 60 | Single phase, 2-wire | Solidly Grounded | Static ½ Cycle | (Later) |
| DC-1 DC Power | 125 | 70 | 0 | Two-Pole | Ungrounded | N/A | (Later) |
| CP-1 Control Power (AC) | 120 | 80 | 60 | Single-Phase, 2-Wire | Solidly Grounded | N/A | (Later) |

**Table 1-14
Load Model
[E.ON TO PROVIDE]**

| <u>Unit #</u> | <u>Unit Load Percent (%) MCR</u> | <u>Unit Gross Output/MW</u> | <u>Unit Net Output/MW</u> | <u>Operating Hours-Hours/year</u> | <u>Net MW Hours/year</u> |
|---------------|---|-----------------------------|---------------------------|-----------------------------------|--------------------------|
| Unit 1 | 100 90 80 75 Offline Total | | | | |
| Unit 2 | 100 90 80 75 Offline Total | | | | |
| Unit 3 | 100 90 80 75 Offline Total | | | | |
| Unit 4 | 100 90 80 75 Offline Total | | | | |

From: Hurst, Brian
To: Wilson, Stuart
Sent: 9/8/2010 2:57:22 PM
Subject: RE: Brown Ash Pond/Landfill Analysis

Stuart,
Just talked to Jeff Heun in Project Engineering who was the lead on the Brown Ash Pond project up until early this year. He said that the document they based their onsite ash-pond/onsite landfill decision on was an FMSM (engineering consulting firm) report from September 2006, that we referenced several times in our testimony and appendices for the 2009 ECR Filing. In this document FMSM evaluated 3 different ash pond options and 2 different on-site landfill options. The limiting factor was that Brown needed byproduct capacity very soon and landfill permitting was estimated to take at least 3 years because of the coarse features underneath the property at Brown (cave-like features). For the landfill options, once the ponds filled up, off-site trucking would be needed until permitting and initial construction could be completed which significantly increased the revenue requirements.

He said that the PSC has several of these documents in their possession and can reference them.

However, I will still look at this report (he said Generation Engineering has a copy) and diagnose the major points we can use if the PSC comes back with questions on this issue.

Let me know if you have any questions or issues.

Brian Hurst
Planning Engineer, Generation Planning
(502) 627-3416 phone
(502) 217-4898 fax

From: Wilson, Stuart
Sent: Tuesday, September 07, 2010 5:56 PM
To: Hurst, Brian
Subject: Brown Ash Pond/Landfill Analysis

Brian,

Based on your experience from the 2009 ECR filing (as it relates to Brown), I'd like your thoughts on how best to communicate the 'stop the pond and go with a landfill' decision to the commission. What did we say before? What should we say now? So far, PE's paper contains total revenue requirements. Is this all the commission needs to see? I understand that our 2009 filing contained two options (ash pond and off-site landfill). How do we bridge the gap from that 'story' to our story now?

Thanks.

Stuart

From: Hurst, Brian
To: Wilson, Stuart
Sent: 9/8/2010 3:31:44 PM
Subject: RE: Brown Ash Pond/Landfill Analysis

Yep, makes sense. I'll continue working on these bullet points.

Brian Hurst

Planning Engineer, Generation Planning

(502) 627-3416 phone

(502) 217-4898 fax

From: Wilson, Stuart
Sent: Wednesday, September 08, 2010 3:26 PM
To: Hurst, Brian
Subject: Re: Brown Ash Pond/Landfill Analysis

Sounds good. We can reference this report to bridge the gap between the options considered in 2009 and the options we're considering now. As we discussed, we need a series of bullet points summarizing our story. I'd envision this to be part of a bullet point. Make sense?

Stuart

From: Hurst, Brian
To: Wilson, Stuart
Sent: Wed Sep 08 14:57:21 2010
Subject: RE: Brown Ash Pond/Landfill Analysis

Stuart,

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Sent: Tuesday, September 07, 2010 5:56 PM

To: Hurst, Brian

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Thanks.

Stuart

From: Wilson, Stuart
To: Hurst, Brian
Sent: 9/8/2010 3:26:06 PM
Subject: Re: Brown Ash Pond/Landfill Analysis

Sounds good. We can reference this report to bridge the gap between the options considered in 2009 and the options we're considering now. As we discussed, we need a series of bullet points summarizing our story. I'd envision this to be part of a bullet point. Make sense?

Stuart

From: Hurst, Brian
To: Wilson, Stuart
Sent: Wed Sep 08 14:57:21 2010
Subject: RE: Brown Ash Pond/Landfill Analysis

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Brian Hurst

Planning Engineer, Generation Planning

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(502) 217-4898 fax

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To: Hurst, Brian
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the gap from that 'story' to our story now?

Thanks.

Stuart

From: Saunders, Eileen
To: Conroy, Robert
CC: Straight, Scott; Ritchey, Stacy
Sent: 10/13/2010 11:43:49 AM
Subject: Environmental Compliance-DRAFT
Attachments: Environmental Summay alternate scenario Rev4 - Pras (4) 10-13-10.xlsx

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

| | A | C | D | E | F | G | H | I | J |
|----|--|---------------------|-------------------|------------------------|--------------------------|-----------------|-----------------|------------------|------------------|
| 1 | Environmental Air - CATR by January 2015, NAAQS by January 2016, HAPs by January 2017 | | | | DRAFT | | | | |
| 2 | \$ in thousands | | | | | | | | |
| 3 | | Capital Cost | ECR Filing | portable Docume | st Major Commitme | 2011 | 2012 | 2013 | 2014 |
| 4 | Alternate Plan | | | | | | | | |
| 5 | Brown | | | | | | | | |
| 6 | Brown 1 - SCR | \$59,000 | Dec-10 | | See BR- Unit 2 | \$2,950 | \$17,700 | \$23,600 | \$14,750 |
| 7 | Brown 1 - Baghouse | \$34,000 | Dec-10 | | See BR- Unit 2 | \$1,700 | \$11,900 | \$13,600 | \$6,800 |
| 8 | Brown 1 - PAC Injection | \$1,599 | Apr-12 | | See BR- Unit 2 | | | \$800 | \$800 |
| 10 | Brown 1 - SAM Mitigation | \$4,000 | Dec-10 | | | \$200 | \$1,200 | \$1,600 | \$1,000 |
| 12 | Brown 1 - Escalation | \$15,476 | | | | \$371 | \$3,679 | \$6,504 | \$4,922 |
| 13 | Total Brown 1 | \$114,075 | | | | \$5,221 | \$34,479 | \$46,103 | \$28,272 |
| 14 | | | | | | | | | |
| 15 | Brown 2 - SCR | \$92,000 | Dec-10 | | May, 2011 | \$9,200.0 | \$34,500 | \$43,700 | \$4,600 |
| 16 | Brown 2 - Baghouse | \$34,000 | Jul-11 | | May, 2011 | | \$1,360 | \$10,200 | \$10,880 |
| 17 | Brown 2 - PAC Injection | \$2,476 | Apr-13 | | May, 2011 | | | | \$1,238 |
| 20 | Brown 2 - SAM Mitigation | \$4,000 | Dec-10 | | | \$200 | \$1,600 | \$2,200 | |
| 22 | Brown 2 - Escalation | \$21,300 | | | | \$718 | \$4,475 | \$9,214 | \$3,524 |
| 23 | Total Brown 2 | \$153,776 | | | | \$10,118 | \$41,935 | \$65,314 | \$20,242 |
| 24 | | | | | | | | | |
| 27 | Brown 3 - Baghouse | \$61,000 | Apr-12 | | See BR- Unit 2 | | | \$1,830 | \$21,350 |
| 28 | Brown 3 - PAC Injection | \$5,426 | Apr-13 | | See BR- Unit 2 | | | | \$1,000 |
| 31 | Brown 3 - Escalation | \$16,475 | | | See BR- Unit 2 | \$0 | \$0 | \$301 | \$4,711 |
| 32 | Total Brown 3 | \$82,901 | | | | \$0 | \$0 | \$2,131 | \$27,061 |
| 33 | | | | | | | | | |
| 34 | Total Brown | \$350,751 | | | | \$15,339 | \$76,414 | \$113,547 | \$75,575 |
| 35 | | | | | | | | | |
| 36 | Ghent | | | | | | | | |
| 37 | Ghent 1 - Baghouse | \$131,000 | Apr-12 | | See GH-Unit 2 | | | \$3,930 | \$45,850 |
| 38 | Ghent 1 - PAC Injection | \$6,380 | Apr-13 | | See GH-Unit 2 | | | | \$1,000 |
| 42 | Ghent 1 - Escalation | \$34,012 | | | | \$0 | \$0 | \$645 | \$9,876 |
| 43 | Total Ghent 1 | \$171,392 | | | | \$0 | \$0 | \$4,575 | \$56,726 |
| 44 | | | | | | | | | |
| 45 | Ghent 2 - SCR | \$227,000 | Dec-10 | | June, 2011 | \$11,350 | \$68,100 | \$90,800 | \$56,750 |
| 46 | Ghent 2 - Baghouse | \$120,000 | Apr-12 | | June, 2011 | | | \$4,800 | \$42,000 |
| 47 | Ghent 2 - PAC Injection | \$6,109 | Apr-13 | | June, 2011 | | | | \$1,000 |
| 52 | Ghent 2 - Escalation | \$66,928 | | | | \$867 | \$8,135 | \$15,701 | \$21,028 |
| 53 | Total Ghent 2 | \$420,037 | | | | \$12,217 | \$76,235 | \$111,301 | \$120,778 |
| 54 | | | | | | | | | |
| 55 | Ghent 3 - Baghouse | \$138,000 | Apr-12 | | See GH-Unit 2 | | | \$16,560 | \$48,300 |
| 56 | Ghent 3 - PAC Injection | \$6,173 | Apr-13 | | See GH-Unit 2 | | | | \$3,087 |
| 60 | Ghent 3 - Escalation | \$33,660 | | | See GH-Unit 2 | \$0 | \$0 | \$2,720 | \$10,832 |
| 61 | Total Ghent 3 | \$177,833 | | | | \$0 | \$0 | \$19,280 | \$62,219 |
| 62 | | | | | | | | | |
| 63 | Ghent 4 - Baghouse | \$117,000 | Apr-12 | | See GH-Unit 2 | | | \$11,700 | \$40,950 |
| 64 | Ghent 4 - PAC Injection | \$6,210 | Apr-13 | | See GH-Unit 2 | | | | \$3,105 |
| 68 | Ghent 4 - Escalation | \$28,990 | | | | \$0 | \$0 | \$1,922 | \$9,287 |
| 69 | Total Ghent 4 | \$152,200 | | | | \$0 | \$0 | \$13,622 | \$53,342 |
| 70 | | | | | | | | | |
| 71 | Total Ghent | \$921,461 | | | | \$12,217 | \$76,235 | \$148,777 | \$293,065 |
| 72 | | | | | | | | | |

| | K | L | M | N | O | P |
|----|-----------|----------|------|------|-----------|-----|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | 2015 | 2016 | 2017 | 2018 | Total | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | \$59,000 | \$0 |
| 7 | | | | | \$34,000 | \$0 |
| 8 | | | | | \$1,599 | \$0 |
| 10 | | | | | \$4,000 | \$0 |
| 12 | | | | | \$15,476 | \$0 |
| 13 | \$0 | \$0 | \$0 | \$0 | \$114,075 | \$0 |
| 14 | | | | | | |
| 15 | | | | | \$92,000 | \$0 |
| 16 | \$10,540 | \$1,020 | | | \$34,000 | \$0 |
| 17 | \$1,238 | | | | \$2,476 | \$0 |
| 20 | | | | | \$4,000 | \$0 |
| 22 | \$3,053 | \$316 | | | \$21,300 | \$0 |
| 23 | \$14,831 | \$1,336 | \$0 | \$0 | \$153,776 | \$0 |
| 24 | | | | | | |
| 27 | \$28,670 | \$9,150 | | | \$61,000 | \$0 |
| 28 | \$3,426 | \$1,000 | | | \$5,426 | \$0 |
| 31 | \$8,320 | \$3,142 | | | \$16,475 | \$0 |
| 32 | \$40,416 | \$13,292 | \$0 | \$0 | \$82,901 | \$0 |
| 33 | | | | | | |
| 34 | \$55,248 | \$14,628 | \$0 | \$0 | \$350,751 | \$0 |
| 35 | | | | | | |
| 36 | | | | | | |
| 37 | \$61,570 | \$19,650 | | | \$131,000 | \$0 |
| 38 | \$4,380 | \$1,000 | | | \$6,380 | \$0 |
| 42 | \$17,097 | \$6,393 | | | \$34,012 | \$0 |
| 43 | \$83,047 | \$27,043 | \$0 | \$0 | \$171,392 | \$0 |
| 44 | | | | | | |
| 45 | | | | | \$227,000 | \$0 |
| 46 | \$56,400 | \$16,800 | | | \$120,000 | \$0 |
| 47 | \$4,109 | \$1,000 | | | \$6,109 | \$0 |
| 52 | \$15,686 | \$5,511 | | | \$66,928 | \$0 |
| 53 | \$76,195 | \$23,311 | \$0 | \$0 | \$420,037 | \$0 |
| 54 | | | | | | |
| 55 | \$66,240 | \$6,900 | | | \$138,000 | \$0 |
| 56 | \$3,087 | | | | \$6,173 | \$0 |
| 60 | \$17,972 | \$2,136 | | | \$33,660 | \$0 |
| 61 | \$87,298 | \$9,036 | \$0 | \$0 | \$177,833 | \$0 |
| 62 | | | | | | |
| 63 | \$58,500 | \$5,850 | | | \$117,000 | \$0 |
| 64 | \$3,105 | | | | \$6,210 | \$0 |
| 68 | \$15,970 | \$1,811 | \$0 | \$0 | \$28,990 | \$0 |
| 69 | \$77,575 | \$7,661 | \$0 | \$0 | \$152,200 | \$0 |
| 70 | | | | | | |
| 71 | \$324,115 | \$67,052 | \$0 | \$0 | \$921,461 | \$0 |
| 72 | | | | | | |

| | A | C | D | E | F | G | H | I | J |
|-----|--|--------------------|--------|---|----------------|-----------------|------------------|------------------|------------------|
| 73 | Mill Creek | | | | | | | | |
| 74 | Mill Creek 1 - FGD Upgrade | \$41,250 | Apr-12 | | June, 2011 | | | \$10,313 | \$28,875 |
| 75 | Mill Creek 1 - SCR | \$97,020 | Apr-12 | | December, 2011 | | | \$2,911 | \$27,166 |
| 76 | Mill Creek 1 - Baghouse | \$80,850 | Jul-11 | | See MC-Unit 4 | | \$8,085 | \$28,298 | \$40,425 |
| 77 | Mill Creek 1 - Electrostatic Precipitator | \$0 | | | See MC-Unit 4 | | \$0 | \$0 | \$0 |
| 78 | Mill Creek 1 - PAC Injection | \$4,290 | Jul-11 | | See MC-Unit 4 | | \$429 | \$1,502 | \$2,360 |
| 81 | Mill Creek 1 - SAM Mitigation | \$7,920 | Apr-12 | | | | | \$396 | \$792 |
| 83 | Mill Creek 1 - Escalation | \$52,077 | | | | \$0 | \$1,017 | \$7,131 | \$21,000 |
| 84 | Total Mill Creek 1 | \$283,407 | | | | \$0 | \$9,531 | \$50,549 | \$120,617 |
| 85 | | | | | | | | | |
| 86 | Mill Creek 2 - FGD Upgrade | \$41,250 | Jul-11 | | June, 2011 | | \$10,313 | \$28,875 | \$2,063 |
| 87 | Mill Creek 2 - SCR | \$97,020 | Jul-11 | | December, 2011 | | \$2,911 | \$27,166 | \$29,106 |
| 88 | Mill Creek 2 - Baghouse | \$80,850 | Dec-10 | | See MC-Unit 4 | \$8,085 | \$28,298 | \$40,425 | \$4,043 |
| 89 | Mill Creek 2 - Electrostatic Precipitator | \$33,000 | Dec-10 | | See MC-Unit 4 | \$3,300 | \$11,550 | \$16,500 | \$1,650 |
| 90 | Mill Creek 2 - PAC Injection | \$4,290 | Dec-10 | | See MC-Unit 4 | \$429 | \$1,502 | \$2,360 | |
| 91 | Mill Creek 2 - SAM Mitigation | \$7,920 | Jul-11 | | | | \$396 | \$792 | \$2,376 |
| 92 | Mill Creek 2 - Escalation | \$45,866 | | | | \$903 | \$6,566 | \$19,070 | \$8,271 |
| 93 | Total Mill Creek 2 | \$310,196 | | | | \$12,717 | \$61,534 | \$135,188 | \$47,508 |
| 94 | | | | | | | | | |
| 97 | Mill Creek 3 - FGD (U4 update and tie in) | \$63,750 | Apr-13 | | June, 2011 | | | | \$47,813 |
| 98 | Mill Creek 3 - FGD (Unit 3 Removal) | \$25,500 | Apr-13 | | See MC-Unit 4 | | | | \$6,375 |
| 99 | Mill Creek 3 - Baghouse | \$104,125 | Jul-11 | | See MC-Unit 4 | | \$2,083 | \$31,238 | \$39,568 |
| 100 | Mill Creek 3 - PAC Injection | \$5,525 | Jul-11 | | See MC-Unit 4 | | \$111 | \$1,658 | \$2,100 |
| 101 | Mill Creek 3 - Escalation | \$43,488 | | | | \$0 | \$262 | \$5,402 | \$20,206 |
| 102 | Total Mill Creek 3 | \$242,388 | | | | \$0 | \$2,455 | \$38,297 | \$116,061 |
| 103 | | | | | | | | | |
| 104 | Mill Creek 4 - FGD | \$236,250 | Dec-10 | | March, 2011 | \$18,900 | \$80,325 | \$89,775 | \$47,250 |
| 105 | Mill Creek 4 - SCR Upgrade | \$5,250 | Dec-10 | | June, 2011 | \$4,200 | \$1,050 | | |
| 106 | Mill Creek 4 - Baghouse | \$131,250 | Dec-10 | | March, 2011 | \$5,250 | \$45,938 | \$52,500 | \$27,563 |
| 107 | Mill Creek 4 - PAC Injection | \$6,825 | Dec-10 | | March, 2011 | \$273 | \$2,389 | \$2,730 | \$1,433 |
| 108 | Mill Creek 4 - Ammonia | \$10,500 | Dec-10 | | June, 2011 | \$5,250 | \$5,250 | | |
| 109 | Mill Creek 4 - Escalation | \$58,596 | | | | \$2,588 | \$16,121 | \$23,815 | \$16,073 |
| 110 | Total Mill Creek 4 | \$448,671 | | | | \$36,461 | \$151,072 | \$168,820 | \$92,319 |
| 111 | | | | | | | | | |
| 112 | Total Mill Creek | \$1,284,663 | | | | \$49,177 | \$224,592 | \$392,854 | \$376,505 |
| 113 | | | | | | | | | |
| 114 | Trimble | | | | | | | | |
| 115 | Trimble 1 - Baghouse | \$128,000 | Apr-12 | | December, 2012 | | | \$12,800 | \$44,800 |
| 116 | Trimble 1 - PAC Injection | \$6,451 | Apr-13 | | December, 2012 | | | | \$3,226 |
| 117 | Trimble 1 - Escalation | \$31,635 | | | | \$0 | \$0 | \$2,102 | \$10,124 |
| 118 | Total Trimble 1 | \$166,086 | | | | \$0 | \$0 | \$14,902 | \$58,149 |
| 119 | | | | | | | | | |
| 120 | Total Trimble | \$166,086 | | | | \$0 | \$0 | \$14,902 | \$58,149 |
| 121 | | | | | | | | | |
| 122 | Total Environmental Compliance Air - Alternate Plan | \$2,722,961 | | | | \$76,733 | \$377,241 | \$670,080 | \$803,294 |
| 123 | | | | | | | | | |
| 124 | | | | | | | | | |
| 125 | Scope | \$2,274,459 | | | | | | | |
| 126 | Escalation | \$448,502 | | | | | | | |
| 127 | | \$2,722,961 | | | | | | | |

| | K | L | M | N | O | P |
|-----|------------------|------------------|----------------|------------|--------------------|------------|
| 73 | | | | | | |
| 74 | \$2,063 | | | | \$41,250 | \$0 |
| 75 | \$29,106 | \$35,897 | \$1,940 | | \$97,020 | \$0 |
| 76 | \$4,043 | | | | \$80,850 | \$0 |
| 77 | \$0 | | | | \$0 | \$0 |
| 78 | | | | | \$4,290 | \$0 |
| 81 | \$2,376 | \$3,960 | \$396 | | \$7,920 | \$0 |
| 83 | \$9,744 | \$12,340 | \$846 | | \$52,077 | \$0 |
| 84 | \$47,331 | \$52,197 | \$3,182 | \$0 | \$283,407 | \$0 |
| 85 | | | | | | |
| 86 | | | | | \$41,250 | \$0 |
| 87 | \$35,897 | \$1,940 | | | \$97,020 | \$0 |
| 88 | | | | | \$80,850 | \$0 |
| 89 | | | | | \$33,000 | \$0 |
| 90 | | | | | \$4,290 | \$0 |
| 91 | \$3,960 | \$396 | | | \$7,920 | \$0 |
| 92 | \$10,332 | \$723 | \$0 | | \$45,866 | \$0 |
| 93 | \$50,190 | \$3,060 | \$0 | \$0 | \$310,196 | \$0 |
| 94 | | | | | | |
| 97 | \$15,938 | | | | \$63,750 | \$0 |
| 98 | \$19,125 | | | | \$25,500 | \$0 |
| 99 | \$31,238 | | | | \$104,125 | \$0 |
| 100 | \$1,658 | | | | \$5,525 | \$0 |
| 101 | \$17,617 | \$0 | | | \$43,488 | \$0 |
| 102 | \$85,575 | \$0 | \$0 | \$0 | \$242,388 | \$0 |
| 103 | | | | | | |
| 104 | | | | | \$236,250 | \$0 |
| 105 | | | | | \$5,250 | \$0 |
| 106 | | | | | \$131,250 | \$0 |
| 107 | | | | | \$6,825 | \$0 |
| 108 | | | | | \$10,500 | \$0 |
| 109 | \$0 | | | | \$58,596 | \$0 |
| 110 | \$0 | \$0 | \$0 | \$0 | \$448,671 | \$0 |
| 111 | | | | | | |
| 112 | \$183,095 | \$55,257 | \$3,182 | \$0 | \$1,284,663 | \$0 |
| 113 | | | | | | |
| 114 | | | | | | |
| 115 | \$64,000 | \$6,400 | | | \$128,000 | \$0 |
| 116 | \$3,226 | | | | \$6,451 | \$0 |
| 117 | \$17,427 | \$1,981 | | | \$31,635 | \$0 |
| 118 | \$84,653 | \$8,381 | \$0 | \$0 | \$166,086 | \$0 |
| 119 | | | | | | |
| 120 | \$84,653 | \$8,381 | \$0 | \$0 | \$166,086 | \$0 |
| 121 | | | | | | |
| 122 | \$647,111 | \$145,319 | \$3,182 | \$0 | \$2,722,961 | \$0 |
| 123 | | | | | | |
| 124 | | | | | | |
| 125 | | | | | | |
| 126 | | | | | | |
| 127 | | | | | | |

| | A | C | D | E | F | G | H | I | J |
|-----|---|---|---|---|---|---|------|------|------|
| 128 | | | | | | | | | |
| 129 | | | | | | | | | |
| 130 | | | | | | | | | |
| 131 | | | | | | | | | |
| 132 | | | | | | | | | |
| 133 | | | | | | | | | |
| 134 | | | | | | | 3.5% | 3.5% | 3.5% |
| 135 | | | | | | | 1 | 2 | 3 |

| | K | L | M | N | O | P |
|-----|------|------|------|------|------|---|
| 128 | | | | | | |
| 129 | | | | | | |
| 130 | | | | | | |
| 131 | | | | | | |
| 132 | | | | | | |
| 133 | | | | | | |
| 134 | 3.5% | 3.5% | 3.5% | 3.5% | 3.5% | |
| 135 | 4 | 5 | 6 | 7 | 8 | |

| | A | B | D | E | F | G | H | I | J | K | L | M | N |
|----|---|--|-----------|---|----------|----------|----------|----------|----------|----------|---------|------|-----------|
| 1 | | Environmental Air - CATR by January 2015, NAAQS by January 2016, HAPs by January 2017 | | | | | | | | | | | |
| 2 | | \$ in thousands | | | | | | | | | | | |
| 3 | | Capital Cost | | | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | Total |
| 4 | | Alternate Plan | | | | | | | | | | | |
| 5 | 1 | Brown 1 - SCR | \$59,000 | | \$2,950 | \$17,700 | \$23,600 | \$14,750 | | | | | \$59,000 |
| 6 | 1 | Brown 1 - Baghouse | \$34,000 | | \$1,700 | \$11,900 | \$13,600 | \$6,800 | | | | | \$34,000 |
| 7 | 1 | Brown 1 - SAM Mitigation | \$4,000 | | \$200 | \$1,200 | \$1,600 | \$1,000 | | | | | \$4,000 |
| 10 | 1 | Brown 2 - SCR | \$92,000 | | \$9,200 | \$34,500 | \$43,700 | \$4,600 | | | | | \$92,000 |
| 11 | 1 | Brown 2 - SAM Mitigation | \$4,000 | | \$200 | \$1,600 | \$2,200 | | | | | | \$4,000 |
| 12 | 1 | Ghent 2 - SCR | \$227,000 | | \$11,350 | \$68,100 | \$90,800 | \$56,750 | | | | | \$227,000 |
| 16 | 1 | Mill Creek 2 - Baghouse | \$80,850 | | \$8,085 | \$28,298 | \$40,425 | \$4,043 | | | | | \$80,850 |
| 19 | 1 | Mill Creek 2 - Electrostatic Precipitator | \$33,000 | | \$3,300 | \$11,550 | \$16,500 | \$1,650 | | | | | \$33,000 |
| 20 | 1 | Mill Creek 2 - PAC Injection | \$4,290 | | \$429 | \$1,502 | \$2,360 | | | | | | \$4,290 |
| 23 | 1 | Mill Creek 4 - FGD | \$236,250 | | \$18,900 | \$80,325 | \$89,775 | \$47,250 | | | | | \$236,250 |
| 24 | 1 | Mill Creek 4 - SCR Upgrade | \$5,250 | | \$4,200 | \$1,050 | | | | | | | \$5,250 |
| 28 | 1 | Mill Creek 4 - Baghouse | \$131,250 | | \$5,250 | \$45,938 | \$52,500 | \$27,563 | | | | | \$131,250 |
| 29 | 1 | Mill Creek 4 - PAC Injection | \$6,825 | | \$273 | \$2,389 | \$2,730 | \$1,433 | | | | | \$6,825 |
| 30 | 1 | Mill Creek 4 - Ammonia | \$10,500 | | \$5,250 | \$5,250 | | | | | | | \$10,500 |
| 35 | 2 | Brown 2 - Baghouse | \$34,000 | | | \$1,360 | \$10,200 | \$10,880 | \$10,540 | \$1,020 | | | \$34,000 |
| 36 | 2 | Mill Creek 1 - Baghouse | \$80,850 | | | \$8,085 | \$28,298 | \$40,425 | \$4,043 | | | | \$80,850 |
| 37 | 2 | Mill Creek 1 - PAC Injection | \$4,290 | | | \$429 | \$1,502 | \$2,360 | | | | | \$4,290 |
| 41 | 2 | Mill Creek 2 - FGD Upgrade | \$41,250 | | | \$10,313 | \$28,875 | \$2,063 | | | | | \$41,250 |
| 42 | 2 | Mill Creek 2 - SCR | \$97,020 | | | \$2,911 | \$27,166 | \$29,106 | \$35,897 | \$1,940 | | | \$97,020 |
| 46 | 2 | Mill Creek 2 - SAM Mitigation | \$7,920 | | | \$396 | \$792 | \$2,376 | \$3,960 | \$396 | | | \$7,920 |
| 47 | 2 | Mill Creek 3 - Baghouse | \$104,125 | | | \$2,083 | \$31,238 | \$39,568 | \$31,238 | | | | \$104,125 |
| 48 | 2 | Mill Creek 3 - PAC Injection | \$5,525 | | | \$111 | \$1,658 | \$2,100 | \$1,658 | | | | \$5,525 |
| 49 | 3 | Brown 1 - PAC Injection | \$1,599 | | | | \$800 | \$800 | | | | | \$1,599 |
| 50 | 3 | Brown 3 - Baghouse | \$61,000 | | | | \$1,830 | \$21,350 | \$28,670 | \$9,150 | | | \$61,000 |
| 53 | 3 | Ghent 1 - Baghouse | \$131,000 | | | | \$3,930 | \$45,850 | \$61,570 | \$19,650 | | | \$131,000 |
| 55 | 3 | Ghent 2 - Baghouse | \$120,000 | | | | \$4,800 | \$42,000 | \$56,400 | \$16,800 | | | \$120,000 |
| 56 | 3 | Ghent 3 - Baghouse | \$138,000 | | | | \$16,560 | \$48,300 | \$66,240 | \$6,900 | | | \$138,000 |
| 57 | 3 | Ghent 4 - Baghouse | \$117,000 | | | | \$11,700 | \$40,950 | \$58,500 | \$5,850 | | | \$117,000 |
| 58 | 3 | Mill Creek 1 - FGD Upgrade | \$41,250 | | | | \$10,313 | \$28,875 | \$2,063 | | | | \$41,250 |
| 59 | 3 | Mill Creek 1 - SCR | \$97,020 | | | | \$2,911 | \$27,166 | \$29,106 | \$35,897 | \$1,940 | | \$97,020 |
| 60 | 3 | Mill Creek 1 - SAM Mitigation | \$7,920 | | | | \$396 | \$792 | \$2,376 | \$3,960 | \$396 | | \$7,920 |
| 63 | 3 | Trimble 1 - Baghouse | \$128,000 | | | | \$12,800 | \$44,800 | \$64,000 | \$6,400 | | | \$128,000 |
| 64 | 4 | Brown 2 - PAC Injection | \$2,476 | | | | | \$1,238 | \$1,238 | | | | \$2,476 |
| 65 | 4 | Brown 3 - PAC Injection | \$5,426 | | | | | \$1,000 | \$3,426 | \$1,000 | | | \$5,426 |
| 66 | 4 | Ghent 1 - PAC Injection | \$6,380 | | | | | \$1,000 | \$4,380 | \$1,000 | | | \$6,380 |
| 67 | 4 | Ghent 2 - PAC Injection | \$6,109 | | | | | \$1,000 | \$4,109 | \$1,000 | | | \$6,109 |
| 68 | 4 | Ghent 3 - PAC Injection | \$6,173 | | | | | \$3,087 | \$3,087 | | | | \$6,173 |
| 69 | 4 | Ghent 4 - PAC Injection | \$6,210 | | | | | \$3,105 | \$3,105 | | | | \$6,210 |
| 70 | 4 | Mill Creek 3 - FGD (U4 update and tie in) | \$63,750 | | | | | \$47,813 | \$15,938 | | | | \$63,750 |
| 71 | 4 | Mill Creek 3 - FGD (Unit 3 Removal) | \$25,500 | | | | | \$6,375 | \$19,125 | | | | \$25,500 |
| 72 | 4 | Trimble 1 - PAC Injection | \$6,451 | | | | | \$3,226 | \$3,226 | | | | \$6,451 |
| 73 | | | | | | | | | | | | | |
| 74 | | | | | | | | | | | | | |
| 75 | | | | | | | | | | | | | |

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| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | \$0 |
| 6 | \$0 |
| 7 | \$0 |
| 10 | \$0 |
| 11 | \$0 |
| 12 | \$0 |
| 16 | \$0 |
| 19 | \$0 |
| 20 | \$0 |
| 23 | \$0 |
| 24 | \$0 |
| 28 | \$0 |
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| 69 | \$0 |
| 70 | \$0 |
| 71 | \$0 |
| 72 | \$0 |
| 73 | |
| 74 | |
| 75 | |

| | A | B | D | E | F | G | H | I | J | K | L | M | N |
|----|---|---|---|---|------|------|------|------|------|------|------|------|---|
| 76 | | | | | | | | | | | | | |
| 77 | | | | | | | | | | | | | |
| 78 | | | | | | | | | | | | | |
| 79 | | | | | 3.5% | 3.5% | 3.5% | 3.5% | 3.5% | 3.5% | 3.5% | 3.5% | |
| 80 | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |

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: 9/29/2010 10:26:00 AM
Subject: 168908.41.0100 100929 Mill Creek Engineering Data Request
Attachments: Mill Creek Data Index 092910.pdf; Mill Creek Data Index 092910.xls; Mill Creek Information Request 092910.doc; Mill Creek Information Request 092910.pdf

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

**Black & Veatch Information Request Checklist
for E.ON Phase II AQC Study – Mill Creek**

| <u>Request</u> | <u>Document Description</u> | <u>File name</u> |
|-----------------------|--|--|
| 1. Drawings: | | |
| a. Site arrangements | | |
| | Overall Site Plot Plan | MCC-S201_PLOT PLAN.pdf |
| | Overall Site Plot Plan - including parking lots and outlying buildings - REV V. | MCC-S202_PLOT PLAN PLANT & YARD STRUCTURES.pdf |
| | Overall Site Plot Plan - including parking lots and outlying buildings - REV U | MC401891.pdf |
| | Overall Site Plot Plan - including parking lots and outlying buildings - CAD REV U | MC401891.dwg |
| | Property Boundary Layout | MC003666.pdf |
| | Site Layout - North Side of Plant | MC003784.pdf |
| | Site Layout - South Side of Plant | MC003797.pdf |
| | Aerial view of site - Plan View | MillCreek10-00.jpg |
| | Aerial view of site - Isometric | IMGF1573.jpg |
| | General Site Plan - Mill Creek Station | E9-411.0 4-3.pdf |
| b. Plant arrangements | | |
| | Cross Section A-A Unit 1 | MC104054.pdf |
| | General Arrangement - Front & Side Unit 1 (POOR QUALITY) | F-663-253-16.pdf |
| | General Arrangement - Front & Side Unit 1 (POOR QUALITY) | F-663-253-16_A.pdf |
| | General Arrangement - Front & Side Unit 1 (POOR QUALITY) | F-663-253-16_B.pdf |
| | General Arrangement - Front & Side Unit 1 (POOR QUALITY) | F-663-254-12.pdf |
| | General Arrangement - Front & Side Unit 1 (POOR QUALITY) | F-663-254-12_A.pdf |
| | General Arrangement - Front & Side Unit 1 (POOR QUALITY) | F-663-254-12_B.pdf |
| | Cross Section A-A Unit 2 | MC203205.pdf |
| | General Arrangement - Front & Side Unit 2 (POOR QUALITY) | F-663-254-12.pdf |
| | General Arrangement - Front & Side Unit 2 (POOR QUALITY) | F-663-254-12_B.pdf |
| | General Arrangement - Front & Side Unit 2 (POOR QUALITY) | F-663-254-12_C.pdf |
| | General Arrangement - Front & Side Unit 2 (POOR QUALITY) | F-663-254-12_C.pdf |
| | General Arrangement - Front & Side Unit 2 (POOR QUALITY) | F-663-253-14.pdf |
| | General Arrangement - Front & Side Unit 2 (POOR QUALITY) | F-663-253-14_A.pdf |
| | Cross Section A-A Unit 3 | MC303261.pdf |
| | General Arrangement - Cross Section D-D Boiler Room Looking East | MC3-M203.pdf |
| | General Arrangement Plan - DA Room & Boiler Room Roof | MC3-M232.pdf |
| | General Arrangement - Front & Side Unit 3 (POOR QUALITY) | 34236F-7.pdf |
| | General Arrangement - Front & Side Unit 3 (POOR QUALITY) | 34236F-7A.pdf |
| | General Arrangement - Front & Side Unit 3 (POOR QUALITY) | 34236F-7B.pdf |
| | General Arrangement - Front & Side Unit 3 (POOR QUALITY) | 34236F-7C.pdf |
| | General Arrangement - Front & Side Unit 3 (POOR QUALITY) | 34240F-7.pdf |
| | General Arrgt. Cross Sect A-A Turbine Conveyour - unit 4 | MC403391.pdf |
| | General Arrgt. Cross Sect A-A Turbine Conveyour - unit 4 | M200.pdf |
| | General Arrangement - Cross Section E-E Boiler Room Looking West | MC4-M204.pdf |
| | General Arrangement - Operating Level FL. EL. 460' - 0" | MC4-M210.pdf |
| | General Arrangement - Front & Side Unit 4 (POOR QUALITY) | 37180F-bottom left.pdf |
| | General Arrangement - Front & Side Unit 4 (POOR QUALITY) | 37180F-Left Right.pdf |
| | General Arrangement - Front & Side Unit 4 (POOR QUALITY) | 37180F-Upper Left.pdf |
| | General Arrangement - Front & Side Unit 4 (POOR QUALITY) | 37180F-Upper Right.pdf |
| | General Arrangement - Front & Side Unit 4 (POOR QUALITY) | 37184F-Lower Left.pdf |
| | General Arrangement - Front & Side Unit 4 (POOR QUALITY) | 37184F-Lower Right.pdf |
| | General Arrangement - Front & Side Unit 4 (POOR QUALITY) | 37184F-Upper Left.pdf |
| | General Arrangement - Front & Side Unit 4 (POOR QUALITY) | 37184F-Upper Right.pdf |
| | Water Treatment Building Location / Power Block | MC0-C-00001.pdf |
| | Yard Composite Piping Plan | MC1-E-101886.pdf |
| | Mill Creek Elevation View - Picture | MillCreek Elevation pic.jpg |
| c. Related P&ID's | | |
| | Unit 1 - Master Diagram of Major Systems | M216.pdf |
| | Unit 1 - Main Steam Hot & Cold Reheat - Flow Diagram | M218.pdf |
| | Unit 1 - Turbine Extraction Steam & Heater Vents - Flow Diagram | M219.pdf |
| | Unit 1 - Boiler Circulating Pumps - Flow Diagram | M220.pdf |
| | Unit 1 - Boiler Feed Suction, Discharge, Warm up, Recirc. & Attemperator Spray Diagram | M221.pdf |
| | Unit 1 - Condensate & Gland Seal - Flow Diagram | M222.pdf |
| | Unit 1 - Heater Drains & Air Preheater Water Coils Supply & Return Flow Diag | M223.pdf |
| | Unit 1 - Condenser Air Removal - Flow Diagram | M224.pdf |
| | Unit 1 - Turbine Oil Purification, City Water & Well Water - Flow Diag | M225.pdf |
| | Unit 1 - Station Compressor Air - Flow Diagram | M226.pdf |
| | Unit 1 - Make-Up, Treated Water & Deaerator Drain - Flow Diagram | M227.pdf |
| | Unit 1 - Service Water System - Flow Diagram | M228.pdf |
| | Unit 1 - Cooling Water System - Flow Diagram | M229.pdf |
| | Unit 1 - Boiler Ignition & Warm-Up Gas - Flow Diagram | M230.pdf |
| | Unit 1 - Instrument Air & Chemical Injection - Flow Diagram | M231.pdf |

**Black & Veatch Information Request Checklist
for E.ON Phase II AQC Study – Mill Creek**

| <u>Request</u> | <u>Document Description</u> | <u>File name</u> |
|----------------|---|------------------|
| | Unit 1 - Bottom Ash & Fly Ash System - Flow Diagram | M232.pdf |
| | Unit 1 - Combustion Air - Flow Diagram | M233.pdf |
| | Unit 1 - Flue Gas - Flow Diagram | M234.pdf |
| | Unit 1 - Boiler Blow-Off & Acid Cleaning - Flow Diagram | M235.pdf |
| | Unit 1 - Turbine Rooms Traps & Drains - Flow Diagram | M236.pdf |
| | Unit 1 - Sampling System - Flow Diagram | M237.pdf |
| | Unit 1 - Preboiler and Boiler Chemical Cleaning Flow Diagram | M238.pdf |
| | Unit 2 - Master Diagram of Major Systems | M216.pdf |
| | Unit 2 - Circulating Water, Cooling Tower Drains & Sump Pump Discharge Flow Diagram | M217.pdf |
| | Unit 2 - Main Steam, Hot & Cold Reheat - Flow Diagram | M218.pdf |
| | Unit 2 - Turbine Extraction Steam & Heater Vents - Flow Diagram | M219.pdf |
| | Unit 2 - Boiler Circulating Pumps - Flow Diagram | M220.pdf |
| | Unit 2 - Boiler Feed Suction, Discharge, Warm up, Recirc. & Attemperator Spray Flow Diagram | M221.pdf |
| | Unit 2 - Condensate & Gland Seal - Flow Diagram | M222.pdf |
| | Unit 2 - Heater Drains & Air Preheater Water Coils Supply & Return - Flow Diagram | M223.pdf |
| | Unit 2 - Condenser Air Removal - Flow Diagram | M224.pdf |
| | Unit 2 - Turbine Oil Purification & City Water - Flow Diagram | M225.pdf |
| | Unit 2 - Station Compressed Air - Flow Diagram | M226.pdf |
| | Unit 2 - Make-Up, Treated Water & Deaerator Drain - Flow Diagram | M227.pdf |
| | Unit 2 - Service Water System - Flow Diagram | M228.pdf |
| | Unit 2 - Cooling Water System - Flow Diagram | M229.pdf |
| | Unit 2 - Boiler Ignition & Warm-Up Gas - Flow Diagram | M230.pdf |
| | Unit 2 - Instrument Air - Flow Diagram | M231.pdf |
| | Unit 2 - Bottom Ash & Fly Ash System - Flow Diagram | M232.pdf |
| | Unit 2 - Combustion Air - Flow Diagram | M233.pdf |
| | Unit 2 - Flue Gas - Flow Diagram | M234.pdf |
| | Unit 2 - Boiler Blow-Off - Flow Diagram | M235.pdf |
| | Unit 2 - Turbine Room Traps & Drains - Flow Diagram | M236.pdf |
| | Unit 2 - Sampling System - Flow Diagram | M237.pdf |
| | Unit 2 - Preboiler and Boiler Chemical Cleaning Flow Diagram | M238.pdf |
| | Unit 3 - Flow Diagram Symbols, Legend, System Descriptions & Drawing List INCOMPLETE | m240.pdf |
| | Unit 3 - Main Steam, Hot & Cold Reheat ad Attemperator Spray - Flow Diagram | m242.pdf |
| | Unit 3 - Condensate Turbine Extraction Steam, Heater Drains, & Vents - Flow Diagram | m244.pdf |
| | Unit 3 - Turbine Extraction Steam, Heater Vents and Drains, and Feedwater - Flow Diagram | m245.pdf |
| | Unit 3 - Turbine Steam Seal Flow Diagram | m246.pdf |
| | Unit 3 - Circulating Water, Cooling Tower Water Treatment System Flow Diagram | m247.pdf |
| | Unit 3 - Combustion Air - Flow Diagram | m248.pdf |
| | Unit 3 - Flue Gas - Flow Diagram | m249.pdf |
| | Unit 3 - Ash Handling System - Flow Diagram | m250.pdf |
| | Unit 3 - Service Water - Flow Diagram | m251.pdf |
| | Unit 3 - Ash Water - Flow Diagram | m252.pdf |
| | Unit 3 - Closed Cooling System - Flow Diagram | m253.pdf |
| | Unit 3 - Instrument Air - Flow Diagram | m254.pdf |
| | Unit 3 - Station Compressed Air - Flow Diagram | m255.pdf |
| | Unit 3 - Sampling System - Flow Diagram | m256.pdf |
| | Unit 3 & 4 - Chemical Injection Flow Diagram | m257.pdf |
| | Unit 3 - Preboiler and Boiler Chemical Cleaning Flow Diagram | m258.pdf |
| | Unit 3 - Boiler Fill and Drain - Flow Diagram | m259.pdf |
| | Unit 3 - Blow-Out Procedure and Reheater Hydrostatic Test - Flow Diagram | m260.pdf |
| | Unit 3 - Gland Seal - Flow Diagram | m261.pdf |
| | Unit 3 - Condenser Air Removal - Flow Diagram | m262.pdf |
| | Unit 3 - Turbine Oil Purification - Flow Diagram | m263.pdf |
| | Unit 3 - Boiler Ignition Oil - Flow Diagram | m264.pdf |
| | Unit 3 - Misc. Gas Unit - Flow Diagram | m265.pdf |
| | Unit 3 - Miscellaneous Lube Oil Systems - Flow Diagram | m266.pdf |
| | Unit 3 - Stack Plume Reheat Flow Diagram | m267.pdf |
| | Unit 3-Station Service Water Flow Diagram | MC3-M271.pdf |
| | Unit 3-Station Flow Diagram City Water Fire Prot. & Plumbing | MC3-M274.pdf |
| | Unit 3 - City Water Piping for Fire Protection System | MC3-M418.pdf |
| | Unit 4 - Flow Diagram Symbols, Legend, System Descriptions & Drawing List | M240.pdf |
| | Unit 4 - Main Steam, Hot & Cold Reheat ad Attemperator Spray - Flow Diagram | M243.pdf |
| | Unit 4 - Condensate Turbine Extraction Steam, Heater Drains, & Vents - Flow Diagram | M244.pdf |
| | Unit 4 - Turbine Extraction Steam, Heater Vents and Drains, and Feedwater - Flow Diagram | M245.pdf |
| | Unit 4 - Turbine Steam Seal Flow Diagram | M246.pdf |
| | Unit 4 - Circulating Water System Flow Diagram | M247.pdf |
| | Unit 4 - Combustion Air - Flow Diagram | M248.pdf |

**Black & Veatch Information Request Checklist
for E.ON Phase II AQC Study – Mill Creek**

| <u>Request</u> | <u>Document Description</u> | <u>File name</u> |
|--|--|---|
| | Unit 4 - Flue Gas - Flow Diagram | M249.pdf |
| | Unit 4 - Ash Handling System - Flow Diagram | M250.pdf |
| | Unit 4 - Service Water - Flow Diagram | M251.pdf |
| | Unit 4 - Ash Water - Flow Diagram | M252.pdf |
| | Unit 4 - Closed Cooling System - Flow Diagram | M253.pdf |
| | Unit 4 - Instrument Air - Flow Diagram | M254.pdf |
| | Unit 4 - Station Compressed Air - Flow Diagram | M255.pdf |
| | Unit 4 - Sampling System - Flow Diagram | M256.pdf |
| | Unit 4 - Preboiler and Boiler Chemical Cleaning Flow Diagram | M258.pdf |
| | Unit 4 - Boiler Fill and Drain - Flow Diagram | M259.pdf |
| | Unit 4 - Blow-Out Procedure and Reheater Hydrostatic Test - Flow Diagram | M260.pdf |
| | Unit 4 - Gland Seal - Flow Diagram | M261.pdf |
| | Unit 4 - Condenser Air Removal - Flow Diagram | M262.pdf |
| | Unit 4 - Turbine Oil Purification - Flow Diagram | M263.pdf |
| | Unit 4 - Boiler Ignition Oil - Flow Diagram | M264.pdf |
| | Unit 4 - Misc. Gas Unit - Flow Diagram | M265.pdf |
| | Unit 4 - Miscellaneous Lube Oil Systems - Flow Diagram | M266.pdf |
| | Unit 4 - Stack Plume Reheat Flow Diagram | M267.pdf |
| | Unit 4 - S.D.R.S. Flow Diagram Common Recycle System for 4A1, 4A2, 4B1 & 4B2 | M290.pdf |
| | Unit 4 - S.D.R.S. Flow Diagram System 4A1 & 4A2 | M291.pdf |
| | Unit 4 - S.D.R.S. Flow Diagram System 4B1 & 4B2 | M292.pdf |
| | Unit 4 - S.D.R.S. Flow Diagram Reheat and Seal Air System for 4A1, 4A2, 4B1 & 4B2 | M293.pdf |
| | Unit 4 - Condensate Dump Tank for Dwg M77 (Not a P&ID) | M277.pdf |
| | Unit 3 & 4 - Station Feedwater Flow Diagram | M283.pdf |
| | Unit 1, 2, 3, & 4 - Station Ash Flow Diagram | M270.pdf |
| | Unit 1, 2, 3, & 4 - Station Service Water Flow Diagram | M271.pdf |
| | Unit 1, 2, 3, & 4 - Station Ash Water Flow Diagram | M272.pdf |
| | Unit 1, 2, 3, & 4 - Station Closed Cooling Water Flow Diagram | M273.pdf |
| | Unit 1, 2, 3, & 4 - Station Instrument Air Flow Diagram | M275.pdf |
| | Unit 1, 2, 3, & 4 - Station Coal Handling Flow Diagram | M281.pdf |
| | Unit 1, 2, 3, & 4 - Station Start-Up Soot Blower Steam Supply - Flow Diagram | M285.pdf |
| | Unit 1, 2, 3, & 4 - Station Make-Up Treated Water & Deaerator Drain - Flow Diagram | M287.pdf |
| | Limestone Handling Flow Diagram-Scheme 2 - VOID | 173. CA-10942.pdf |
| | Limestone Handling Flow Diagram-Scheme 1 - VOID | 178. CA-10936.pdf |
| | Limestone Handling Flow Diagram-Schem 2 - VOID | 179. CA-10942.pdf |
| d. Boiler and AQC equipment plan and elevation drawings | | |
| | Boiler General Arrangement - with elevations - Unit 1 | MC1-F-634-888-21_BOILER G.A. SIDE VIEW.pdf |
| | Boiler General Arrangement - with elevations - Unit 2 | MC2-F-653-253-19_BOILER G.A. SIDE VIEW.pdf |
| | Boiler General Arrangement - with elevations - Unit 3 | MC3-34240F-11_BOILER G.A. SIDE VIEW.pdf |
| | Boiler General Arrangement - with elevations - Unit 4 | MC4-37184F-12_BOILER G.A. SIDE VIEW.pdf |
| | Precipitator Arrangement Drawings - Unit 1 | MC1-11-3-6_PRECIP G.A. .pdf |
| | Precipitator Arrangement Drawings - Unit 2 | MC2-11-3-8_PRECIP G.A. .pdf |
| | Precipitator Arrangement Drawings - Unit 3 | MC3-81-1393-102_PRECIP G.A. PLAN.pdf |
| | Precipitator Arrangement Drawings - Unit 3 | MC3-81-1393-103_PRECIP G.A. ELEVATION .pdf |
| | Precipitator Arrangement Drawings - Unit 4 | MC4-82-1343-101_PRECIP G.A. 3 VIEWS.pdf |
| | SDRS Arrangement Drawings - Unit 1 | MC1-08478-4E-0001-07-1_GENERAL ARR'GT. SIDE S.D.R.S.(A.Q.C.S.) .pdf |
| | SDRS Arrangement Drawings - Unit 1 | MC1-08478-4E-0002-09-2_GENERAL ARR'GT. PLAN S.D.R.S.(A.Q.C.S.) .pdf |
| | SDRS Arrangement Drawings - Unit 2 | MC2-08578-4E-0001-08_GENERAL ARR'GT. SIDE S.D.R.S.(A.Q.C.S.) .pdf |
| | SDRS Arrangement Drawings - Unit 2 | MC2-08578-4E-0002-11_GENERAL ARR'GT. PLAN S.D.R.S.(A.Q.C.S.) .pdf |
| | SDRS Arrangement Drawings - Unit 3 | MC3-E233_PLAN OF UNDERGROUND DUCT TO PRECIPITATOR.pdf |
| | SDRS Arrangement Drawings - Unit 3 | MC3-81-1392-101-A_SDRS G.A. pdf |
| | SDRS Arrangement Drawings - Unit 3 | MC3-81-1392-102-1_SDRS G.A. SOUTH.pdf |
| | SDRS Arrangement Drawings - Unit 3 | MC3-81-1392-108_SDRS G.A. EAST ELEVATION.pdf |
| | SDRS Arrangement Drawings - Unit 3 | MC3-81-1392-103_SDRS G.A. EL554.pdf |
| | SDRS Arrangement Drawings - Unit 3 | MC3-81-1392-104_SDRS G.A. EL502.pdf |
| | SDRS Arrangement Drawings - Unit 3 | MC3-81-1392-105_SDRS G.A. EL491.pdf |
| | SDRS Arrangement Drawings - Unit 3 | DOES NOT EXIST (Drawing number 81-1392-106) |
| | SDRS Arrangement Drawings - Unit 3 | DOES NOT EXIST (Drawing number 81-1392-107) |
| | SDRS Arrangement Drawings - Unit 4 | MC4-82-1349-0101_SDRS G.A. PLOT PLAN.pdf |
| | SDRS Arrangement Drawings - Unit 4 | MC4-82-1349-0102_SDRS G.A. PLAN.pdf |
| | SDRS Arrangement Drawings - Unit 4 | MC4-82-1349-0103_SDRS G.A. SOUTH ELEVATION.pdf |
| | SDRS Arrangement Drawings - Unit 4 | MC4-82-1349-0104_SDRS G.A. WEST ELEVATION.pdf |
| | SDRS Arrangement Drawings - Unit 4 | MC4-82-1349-0105_SDRS G.A. SECTION 1-1.pdf |
| | SDRS Arrangement Drawings - Unit 4 | MC4-82-1349-0106_SDRS G.A. PLAN BELOW 480 .pdf |
| | SDRS Arrangement Drawings - Unit 4 | MC4-82-1349-0107_SDRS G.A. PLAN TOP STEEL ELEV 498.pdf |
| | SDRS Arrangement Drawings - Unit 4 | MC4-82-1349-0108_SDRS G.A. PLAN TOP OF STEEL ELEV 507.pdf |

**Black & Veatch Information Request Checklist
for E.ON Phase II AQC Study – Mill Creek**

| <u>Request</u> | <u>Document Description</u> | <u>File name</u> |
|----------------|---|--|
| | SDRS Arrangement Drawings - Unit 4 | MC4-82-1349-0109_SDRS G.A. TOP OF STEEL ELEV 519.pdf |
| | SCR General Arrangement Drawings - Unit 3 | MC3-100122-9267513-05_MC3 SCR PLAN AND SIDE VIEW.pdf |
| | SCR General Arrangement Drawings - Unit 4 | MC4-100121-9267513-02_MC4 SCR PLAN AND SIDE VIEW.pdf |
| | Boiler Elevation Looking East | MC1-E271.pdf |
| | Boiler Elevation Looking West | MC1-E272.pdf |
| | Boiler Elevation Looking North | MC1-E273.pdf |
| | Boiler Elevation Looking South | MC1-E274.pdf |
| | Boiler 1 Elevation View | MC1-COLOR-18x24.pdf |
| | Boiler Elevation Looking East | MC2-E271.pdf |
| | Boiler Elevation Looking West | MC2-E272.pdf |
| | Boiler Elevation Lookin North | MC2-E273.pdf |
| | Boiler Elevation Lookin South | MC2-E274.pdf |
| | Boiler 2 Elevation View | MC2-COLOR-18x24.pdf |
| | Boiler 3 Elevation View | MC3-COLOR-18x24.pdf |
| | Boiler 3 Section AA | MC3-Boiler Sect AA-7000-33-4.pdf |
| | Boiler 3 Section AA | MC3-Boiler Sect AA-7000-33-1.pdf |
| | Boiler 3 Section AA | MC3-Boiler Sect AA-7000-33-2.pdf |
| | Boiler 3 Section AA | MC3-Boiler Sect AA-7000-33-3.pdf |
| | Boiler 3 Section BB | MC3-Boiler Sect BB-7000-34-1.pdf |
| | Boiler 3 Section BB | MC3-Boiler Sect BB-7000-34-2.pdf |
| | Boiler 3 Section BB | MC3-Boiler Sect BB-7000-34-3.pdf |
| | Boiler 3 Section BB | MC3-Boiler Sect BB-7000-34-4.pdf |
| | Boiler 3 Outside | MC3-Boiler Outside-7000-32-1.pdf |
| | Boiler 3 Outside | MC3-Boiler Outside-7000-32-2.pdf |
| | Boiler 3 Outside | MC3-Boiler Outside-7000-32-3.pdf |
| | Boiler 3 Outside | MC3-Boiler Outside-7000-32-4.pdf |
| | Boiler 3 Section CC | MC3-Boiler Sect CC-7000-35-1.pdf |
| | Boiler 3 Section CC | MC3-Boiler Sect CC-7000-35-4.pdf |
| | Boiler 3 Section DD-EE | MC3-Boiler Sect DD-EE-7000-37-1.pdf |
| | Boiler 3 Section DD-EE | MC3-Boiler Sect DD-EE-7000-37-2.pdf |
| | Boiler 3 Section DD-EE | MC3-Boiler Sect DD-EE-7000-37-3.pdf |
| | Boiler 3 Section DD-EE | MC3-Boiler Sect DD-EE-7000-37-4.pdf |
| | Boiler 3 Section FF-GG | MC3-Boiler Sect FF-GG-7000-39-1.pdf |
| | Boiler 3 Section FF-GG | MC3-Boiler Sect FF-GG-7000-39-2.pdf |
| | Boiler 3 Section FF-GG | MC3-Boiler Sect FF-GG-7000-39-3.pdf |
| | Boiler 3 Section FF-GG | MC3-Boiler Sect FF-GG-7000-39-4.pdf |
| | Boiler 3 Section HH | MC3-Boiler Sect HH-7000-39-1.pdf |
| | Boiler 3 Section HH | MC3-Boiler Sect HH-7000-39-2.pdf |
| | Boiler 3 Section HH | MC3-Boiler Sect HH-7000-39-3.pdf |
| | Boiler 3 Section HH | MC3-Boiler Sect HH-7000-39-4.pdf |
| | Boiler 3 Section GG-JJ | MC3-Boiler Sect GG-JJ-7000-78-1.pdf |
| | Boiler 3 Section GG-JJ | MC3-Boiler Sect GG-JJ-7000-78-3.pdf |
| | Boiler 4 Elevation View | MC4-COLOR-18x24.pdf |
| | MC4 Boiler Outside View Sect AA | MC4 Boiler Outside View Sect AA-8000-1-1.pdf |
| | MC4 Boiler Outside View Sect AA | MC4 Boiler Outside View Sect AA-8000-1-2.pdf |
| | MC4 Blr Radiant Outside View | MC4 Blr Radiant Outside View-8000-90-1.pdf |
| | MC4 Blr Radiant Outside View | MC4 Blr Radiant Outside View-8000-90-2.pdf |
| | MC4 Blr Radiant Outside View | MC4 Blr Radiant Outside View-8000-90-3.pdf |
| | MC4 Blr Radiant Outside View | MC4 Blr Radiant Outside View-8000-90-4.pdf |
| | Boiler 4 Section View | MC4-8000-113-1.pdf |
| | Boiler 4 Section View | MC4-8000-113-2.pdf |
| | Boiler 4 Section View | MC4-8000-113-3.pdf |
| | Boiler 4 Section View | MC4-8000-113-4.pdf |
| | Boiler 4 Section View | MC4-8000-91-1.pdf |
| | Boiler 4 Section View | MC4-8000-91-2.pdf |
| | Boiler 4 Section View | MC4-8000-91-3.pdf |
| | Boiler 4 Section View | MC4-8000-91-4.pdf |
| | Boiler 4 Section View | MC4-8000-96-1.pdf |
| | Boiler 4 Section View | MC4-8000-96-2.pdf |
| | Boiler 4 Section View | MC4-8000-96-3.pdf |
| | Boiler 4 Section View | MC4-8000-96-4.pdf |
| | Boiler 4 Section View | MC4-8000-5-1.pdf |
| | Boiler 4 Section View | MC4-8000-5-2.pdf |
| | Boiler 4 Section View | MC4-8000-5-3.pdf |
| | Boiler 4 Section View | MC4-8000-5-4.pdf |
| | Boiler 4 Section View | MC4-8000-707-1.pdf |

**Black & Veatch Information Request Checklist
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| <u>Request</u> | <u>Document Description</u> | <u>File name</u> |
|---|--|--|
| | Boiler 4 Section View | MC4-8000-707-2.pdf |
| | Boiler 4 Section View | MC4-8000-707-3.pdf |
| | Boiler 4 Section View | MC4-8000-707-4.pdf |
| | Boiler 4 Section View | MC4-8000-95-1.pdf |
| | Boiler 4 Section View | MC4-8000-95-2.pdf |
| | Boiler 4 Section View | MC4-8000-95-3.pdf |
| | Boiler 4 Section View | MC4-8000-95-4.pdf |
| | Boiler 4 Section View | MC4-8000-708-1.pdf |
| | Boiler 4 Section View | MC4-8000-708-2.pdf |
| | Boiler 4 Section View | MC4-8000-708-3.pdf |
| | Boiler 4 Section View | MC4-8000-708-4.pdf |
| | Boiler 4 Section View | MC4-8000-8-1.pdf |
| | Boiler 4 Section View | MC4-8000-8-2.pdf |
| | Boiler 4 Section View | MC4-8000-8-3.pdf |
| | Boiler 4 Section View | MC4-8000-8-4.pdf |
| | Boiler 4 Section View | MC4-8000-92-1.pdf |
| | Boiler 4 Section View | MC4-8000-92-2.pdf |
| | Boiler 4 Section View | MC4-8000-92-3.pdf |
| | Boiler 4 Section View | MC4-8000-92-4.pdf |
| | Boiler 4 Section View | MC4-8000-8-1.pdf |
| | Boiler 4 Section View | MC4-8000-8-2.pdf |
| | Boiler 4 Section View | MC4-8000-8-3.pdf |
| | Boiler 4 Section View | MC4-8000-8-4.pdf |
| | Boiler 4 Section View | MC4-8000-93-1.pdf |
| | Boiler 4 Section View | MC4-8000-93-2.pdf |
| | Boiler 4 Section View | MC4-8000-93-3.pdf |
| | Boiler 4 Section View | MC4-8000-93-4.pdf |
| | Boiler 4 Section View | MC4-8000-(1).pdf |
| | Boiler 4 Section View | MC4-8000-(2).pdf |
| | Boiler 4 Section View | MC4-8000-(3).pdf |
| | Boiler 4 Section View | MC4-8000-(4).pdf |
| e. Draft fan drawings and performance curves | | |
| | ID Fan Information at Full Load | EON Power Plant AQCS Information Data Request May 6 2010.xls |
| | FD Fan Data & Curve - Unit 1 | MC1 FD FAN CURVE (2-1).PDF |
| | FD Fan Data & Curve - Unit 1 | MC1 FD FAN CURVE (2-2).PDF |
| | U1 FD Fan Curve- American Standard Performance Data | FD fan Unit 1.pdf |
| | U1 & U2 ID Fan Curves | U1 and U2 ID Fan Curves.pdf |
| | ID Fan Data & Curve - Unit 1 | MC1 ID Fan Curve (2).pdf |
| | ID Fan Data & Curve - Unit 1 | MC1 ID Fan Curves (1).pdf |
| | ID Fan Motor Nameplate - Unit 1 | MC1 ID Fan - Motor Nameplate.pdf |
| | Booster Fan Data - Unit 1 | MC1-BOOSTER FAN DATA.PDF |
| | Booster Fan Data - Unit 2 | MC2-BOOSTER FAN DATA.PDF |
| | FD Fan Data & Curve - Unit 3 | MC3 FD FAN CURVE.PDF |
| | ID Fan Data & Curve - Unit 3 | MC3 ID FAN CURVE.PDF |
| | U3 ID Fan Curve | U3 ID Fan Curves.pdf |
| | FD Fan Data & Curve - Unit 4 | MC4 FD FAN ARRANGEMENT WITH PERFORMANCE DATA.PDF |
| | FD Fan Data & Curve - Unit 4 | MC4 FD FAN CURVE (1).PDF |
| | FD Fan Data & Curve - Unit 4 | MC4 FD FAN CURVE (2).PDF |
| | ID Fan Data & Curve - Unit 4 | MC4 ID FAN CURVE.pdf |
| | ID Fan Curve Unit 4 | Mill Creek 4 Fan Curve.pdf |
| | ID Fan Unit 4 Speed Torque | Mill Creek 4 Speed-Torque - PDF.pdf |
| f. One-line diagram(s) | | |
| | Single Line Electrical Diagrams Generator - Unit 1 | MC1-E501_1 LINE GEN #1_DWG.pdf |
| | Single Line Electrical Diagrams 4kV - Unit 1 | MC1-E502_1 LINE 4KV AUX_DWG.pdf |
| | Single Line Electrical Diagrams 480 V - Unit 1 | MC1-E503_1 LINE 480V_DWG.pdf |
| | Plan, F/V & Single Line 4kv Cubicles Control House #2 - Unit 1 | MC104528.pdf |
| | Single Line M/R for Generator #1 & Aux - Unit 1 CAD | MC104528.dwg |
| | Single Line Electrical Diagrams Generator - Unit 2 | MC2-E501_1 LINE GEN #2_DWG.pdf |
| | Single Line Electrical Diagrams 4kV - Unit 2 | MC2-E502_1 LINE 4KV AUX_DWG.pdf |
| | Single Line Electrical Diagrams 480 V - Unit 2 | MC2-E503_1 LINE 480V_DWG.pdf |
| | Single Line M/R Diagram Generator #2- Unit 2 | MC203513.pdf |
| | Single Line M/R Diagram Generator #2 CAD | MC203513.dwg |
| | Single Line M/R Diagram 4KV Auxiliaries - Unit 2 CAD | MC203514.dwg |
| | Single Line M/R Diagram 4KV Auxiliaries - Unit 2 | MC203514.pdf |
| | Single Line Diagram (U2 Cooling TWR & Sect's_ 480v. SWGR (NO TITLE BLOCK) | MC203512.pdf |
| | Single Line Diagram (U2 Cooling TWR & Sect's_ 480v. SWGR (TITLE BLOCK FOR PDF) | MC203512.dwg |

**Black & Veatch Information Request Checklist
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| <u>Request</u> | <u>Document Description</u> | <u>File name</u> |
|---|---|--|
| | Single Line Electrical Diagrams Generator - Unit 3 | MC3-E501_1 LINE GEN #3 DWG.pdf |
| | Single Line Electrical Diagrams 4KV - Unit 3 | MC3-E502_1 LINE 4KV AUX_DWG.pdf |
| | Single Line Electrical Diagrams 480 V - Unit 3 | MC3-E503_1 LINE 4KV 480V_DWG.pdf |
| | Single Line Electrical Diagrams 4kv SDRS - Unit 3 | MC3-E504_1 LINE 4KV SDRS_DWG.pdf |
| | Single Line M/R Diagram Generator #3 CAD | MC305193.dwg |
| | Single Line M/R Diagram Generator #3 | MC305193.pdf |
| | Single Line Diagram & Sections Cooling Tower 480V SWGR | MC305191.pdf |
| | Single Line Diagram @ Sections 480V SDRS SWGR | MC305192.pdf |
| | SCR Structure Misc Power Plans & Sigle Lines - Unit 3 | SCR-MC3-E736.pdf |
| | SCR Structure Misc Power Plans & Sigle Lines - Unit 4 (CORRUPTED) | SCR-MC4-E734.pdf |
| | Single Line Electrical Diagrams Generator - Unit 4 | MC4-E501_1 LINE GEN#4 DWG.pdf |
| | Single Line Electrical Diagrams 4kV - Unit 4 | MC4-E502_1 LINE 4KV AUX_DWG.pdf |
| | Single Line Electrical Diagrams 480 V - Unit 4 | MC4-E503_1 LINE 480V_DWG.pdf |
| | Single Line Electrical Diagrams 4kv SDRS - Unit 4 | MC4-E504_1 LINE 4KV SDRS_DWG.pdf |
| | General Arrangement 3000/4000kVa Double ended substation - Unit 4 | mc104529.pdf |
| | Single Line M/R Dia Gen#4 | MC405083.pdf |
| | Single Line M/R Dia Gen#4 CAD | MC405083.dwg |
| | Single Line M/R Diagram 480V Cooling Tower Switchgear | MC4-E505.pdf |
| | MCC No. 7 & 8 Single Line Diagram | MC0-EA-13312.pdf |
| | Gen Arrgt & Single Line Diagram - Switchgear | MC0-EA-694.1.pdf |
| | Single Line Diagram - 13.8 Substation | MCS-EA-06180.pdf |
| | GPP MCC#1 Single Line Diagram | MC0-EA-05399.pdf |
| | GPP MCC#2 Single Line Diagram | MC0-EA-05400.pdf |
| | GPP MCC#3 Single Line Diagram | MC0-EA-05401.pdf |
| | GPP MCC#4 Single Line Diagram | MC0-EA-05402.pdf |
| | GPP MCC#5 Single Line Diagram | MC0-EA-05403.pdf |
| | GPP MCC#6 Single Line Diagram | MC0-EA-05542.pdf |
| g. Water mass balance diagrams | | |
| | D-1 Wastewater treatment Block DiagraAugust 2010 rev 5 | wastewater/treatment/blockdiagram.pdf |
| | Plant water mass balance (attachment at the end of the document) | Mill Creek KPDES.pdf |
| h. Shop drawings of the existing chimney | | |
| | Basic Chimney Information | EON Power Plant AQCS Information Data Request May 6 2010.xls |
| | Stack Velocity Calculations | Data for BV2.xls |
| i. Ductwork Drawings | | |
| | Gas Duct to Precipitator To ID Fan - Unit 1 | MC104051.pdf |
| | Unit 1 Ductwork Arrangement Plant & Elevation | MC104187.pdf |
| | Gas Duct from Air Preheater to Precipitator - Unit 2 | MC202354.pdf |
| | Gas Duct- Precipitator to ID Fan | MC202355.pdf |
| | Unit 2 Ductwork Arrangement Plan & Elevation | MC203276.pdf |
| | Gas Duct from Air Preheater to Precipitator - Unit 3 | MC303200.pdf |
| | Unit 3 Ductwork Arrangement Plan & Elevation | MC304564.pdf |
| | Gas Duct From Air Preheater to Precipitator | MC401912.pdf |
| | Gas Duct From Air Preheater to Precipitator - Unit 4 - (BAD COPY) | MC405022.pdf |
| j. Logic Diagrams | | |
| | Limestone System Logic Diagram | 160. E-112069.pdf |
| | Limestone Mills and Feeders Logic Diagram | 161. E-112068.pdf |
| | Limestone Conveyor Feeder and Tripper Logic Diagram | 162. E-112067.pdf |
| | Limestone Conveyor, Feeder Tripperbin,.... Logic Diagram | 163. E-112066.pdf |
| | Limestone Conveyor, Transferbin, Fiop Gate, Logic Diagram | 164. E-112065.pdf |
| k. Bulk Material Handling(Coal, Ash, Etc.) | | |
| | GA Coal Handling | MC1-4941.pdf |
| | Coal Handling Sections | MC1-5462-1.pdf |
| | Coal Handling Sections | MC1-5462-2.pdf |
| | Coal Handling Plan | MC1-5462-3.pdf |
| | Coal Handling Flow Diagram | MC1-5462-4.pdf |
| | Fly Ash Discharge - Unit 1 | MC1-M284.pdf |
| | General Arrangement Coal Handling - Conveyor Room Floor | MC2-5743-2.pdf |
| | General Arrangement Coal Handling - Bunker Slot Seals | MC2-4941-70.pdf |
| | General Arrangement Coal Handling - Transfer House | MC2-4941-11.pdf |
| | General Arrangement Coal Handling - Crusher House | MC2-4941-12.pdf |
| | General Arrangement Coal Handling - Surge Hopper Feeder & Tripper | MC2-4941-5.pdf |
| | General Arrangement - Coal Handling - Conveyor B | MC2-4941-6.pdf |
| | General Arrangement - Coal Handling - Conveyor C | MC2-4941-13.pdf |
| | General Arrangement - Coal Handling - Conveyor R | MC2-4941-38.pdf |
| | General Arrangement - Coal Handling - Conveyor C | MC2-4941-45.pdf |
| | General Arrangement Coal Handling - Surge Hopper | MC2-4941-51.pdf |

**Black & Veatch Information Request Checklist
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| <u>Request</u> | <u>Document Description</u> | <u>File name</u> |
|---|---|--|
| | General Arrangement - Coal Handling - Conveyor D-1 | MC2-4941-73.pdf |
| | General Arrangement - Coal Handling - Conveyor F-1 | MC2-4941-68.pdf |
| | General Arrangement - Coal Handling - Conveyor B | MC2-4941-29.pdf |
| | Boiler Fly Ash Discharge Piping | MC2-M284.pdf |
| | Boiler Fly Ash Discharge Piping | MC2-M285.pdf |
| | Plot Plan & Flow Diagram | MC4-8023-2.pdf |
| | Systems Arrangement Plan & Sections | MC4-8023-3.pdf |
| | Systems Arrangement Elevations | MC4-8023-4.pdf |
| I. Boiler composite piping | | |
| | Composite Piping - Boiler Unit 1 | MC1-M240.pdf |
| | Composite Piping - Boiler Unit 1 | MC1-M242.pdf |
| | Composite Piping Boiler Room - Below Mezz Floor | MC2-M240.pdf |
| | Composite Piping Boiler Room - Above Mezz Floor | MC2-M242.pdf |
| | Composite Piping North Boiler Room Below Mezzanine | MC3-M302.pdf |
| | Composite Piping South Boiler Room Below Mezzanine | MC3-M303.pdf |
| | Composite Piping North Boiler Room Above Mezzanine | MC3-M306.pdf |
| | Composite Piping South Boiler Above Below Mezzanine | MC3-M307.pdf |
| | Composite Piping North Boiler Room Below Mezz. Fl. | MC4-M302.pdf |
| | Composite Piping South Boiler Room Below Mezz. Fl. | MC4-M303.pdf |
| | Composite Piping - North Boiler Room Above Mezz. Fl. | MC4-M306.pdf |
| | Composite Piping-South Boiler Room Above Mezz FL. | MC4-M307.pdf |
| 2. Schedule Information: | | |
| a. Planned outage schedule | | |
| | Outage Schedule for all 6 facilities through 2019 | Maint.Sched.xls |
| | MC-OutageSchedule.xls | MC-OutageSchedule.xls |
| b. Target schedule for having any planned AQC retrofit systems on-line | | |
| 3. Plant Data | | |
| a. Steam generator design information | | |
| | Basic Plant Size and Operation Data | EON Power Plant AQCS Information Data Request May 6 2010.xls |
| | Steam Gen. Spec 1 | Steam Gen. Specifications-p1.pdf |
| | Steam Gen. Spec 1 | Steam Gen. Specifications-p2.pdf |
| | Steam Gen. Spec 1 | Steam Gen. Specifications-p3.pdf |
| | Steam Gen Unit 2 | Performance -p1.pdf |
| | Steam Gen Unit 2 | Performance -p2.pdf |
| b. Coal and other fuel specifications and analyses | | |
| | Typical Fuel Analysis | EON Power Plant AQCS Information Data Request May 6 2010.xls |
| | Annual Boiler Fuel Usage Survey 3/27/09 | MC 2008 Inventory_Part 1.pdf |
| | Mill Creek Coal Analysis-B&V 2009-2010 | Mill Creek Coal Analysis-B&V.pdf |
| c. Flue gas properties | | |
| | Operating Conditions | EON Power Plant AQCS Information Data Request May 6 2010.xls |
| d. Existing permitted air emissions limits (tabulated list) or copy of air permit | | |
| | Basic Emission Limits and Current Emissions | EON Power Plant AQCS Information Data Request May 6 2010.xls |
| | Title V Operating Permit 145-97-TV | Title V-MillCreek.pdf |
| e. Recent responses to EPA Information Collection Requests (ICR) and, if applicable, supporting air emissions test reports | | |
| | Response of LG & E and KU to Request for Information under Section 104(e) of the CERCLA | EPA ReqForInfo FINAL LTR cc 032509.pdf |
| | Visual Site Assessment Report Ash Pond Dams | ATC Visual Site Assessment Report High and Moderate Hazard- February 20,2009.pdf |
| | EPCRA section 313 TRI | MC TRI 313 doc 07.pdf |
| | EPCRA section 313 TRI | MC TRI 313 doc 08.pdf |
| | Enforcement & Compliance History Online (ECHO) | Mill Creek EPA ECHO 081909.pdf |
| | Enforcement & Compliance History Online (ECHO) | Mill creek.htm |
| | Mill Creek Environmental Review 2008 | Mill.creek.Env.final.doc |
| f. Historical air emissions information. | | |
| | Unit 1 Particulate Emission Test Report | MC1 2006 PM Report.pdf |
| | Unit 2 Particulate Emission Test Report | MC2 2006 PM Report.pdf |
| | Unit 3 Particulate Emission Test Report | MC3 2006 PM Report.pdf |
| | Unit 4 Particulate Emission Test Report | MC4 2006 PM Report.pdf |
| | Unit 3 SO ₂ Measurements before and after ESP & at Stack | pd14d016 summary 082207.pdf |
| | All Plant Emissions Report | MC 2008 Inventory_Part 2. pdf |
| | BART-LG&E Study Data Request(v3).xls | BART-LG&E Study Data Request(v3).xls |
| | Stack Info, Emissions, Coal Properties, and Operating hours | Data for BV2.xls |
| | SO ₂ Emission Analysis for Dec 2008 | SO2 Emission Analysis For DECEMBER-2008.xls |
| | SO ₂ Emission Analysis for July 2009 | SO2 Emission Analysis For JULY-2009.xls |
| g. Water analyses and supply information | | |
| | Water Analysis Report (By GE Infrastructure - July 2009) | Deep Well Water Analysis.rtf |
| h. Other water and wastewater information | | |
| | Groundwater Sample Analysis - Mill Creek Special Waste Landfill 2008 | GWQ1-2008.doc |

**Black & Veatch Information Request Checklist
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| <u>Request</u> | <u>Document Description</u> | <u>File name</u> |
|--|---|---|
| | Groundwater Sample Analysis - Mill Creek Special Waste Landfill 2008 | GWQ2-2008.doc |
| | Groundwater Sample Analysis - Mill Creek Special Waste Landfill 2009 | GWQ1-2009.doc |
| | Groundwater and Surface Water Monitoring sample data Reporting Form | MCCVR1-2008.doc |
| | Groundwater and Surface Water Monitoring sample data Reporting Form | MCCVR1-2009.doc |
| | Groundwater and Surface Water Monitoring sample data Reporting Form | MCCVR2-2008.doc |
| | Mill Creek Monitoring Well Data | MCANOVA01-2008 |
| | Mill Creek Monitoring Well Data | MCANOVA01-2009 |
| | Mill Creek Monitoring Well Data | MCANOVA02-2008 |
| | LGE April Discharge Monitoring Report | LGE April DMR.xls |
| | LGE Aug Discharge Monitoring Report | LGE Aug DMR.xls |
| | LGE Dec Discharge Monitoring Report | LGE Dec DMR (3).xls |
| | LGE Dec Discharge Monitoring Report - Amended | LGE Dec AMENDED MC-005 Y (2).xls |
| | LGE Feb Discharge Monitoring Report | LGE Feb DMR.xls |
| | LGE Jan Discharge Monitoring Report | LGE Jan DMR.xls |
| | LGE July Discharge Monitoring Report | LGE July DMR.xls |
| | LGE June Discharge Monitoring Report | LGE June2nd QTR DMR.xls |
| | LGE March Discharge Monitoring Report | LGE March DMR.xls |
| | LGE May Discharge Monitoring Report | LGE May DMR.xls |
| | LGE Nov Discharge Monitoring Report | LGE Nov DMR.xls |
| | LGE Oct Discharge Monitoring Report | LGE Oct DMR.xls |
| | LGE Sep Discharge Monitoring Report | LGE Sep Oct3 DMR.xls |
| i. Current NPDES discharge permit | | |
| | KPDES Permit from May 2002 and July 2004 | Mill Creek KPDES.pdf |
| | Generalized Site Diagram - Landfill, Ash impoundment, and Runoff | Mill Creek 2006AppB-1.JPG |
| | Mill Creek All Zones | MILL CREEK ALL ZONES with Fuel Oil lines 92 (3).doc |
| j. Plant performance data including current draft system operating pressures | | |
| | Mill Creek Unit 4 Baseline Test 12/2/09 | MC4-11 1209-BLReport.pdf |
| k. Existing general geotechnical information as available (general information to anticipate foundation types and requirements) | | |
| | Soil Test Borings.pdf | Soil Test Borings.pdf |
| | Precipitator Structure Foundation Sections and Details.TIF | Precipitator Structure Foundation Sections and Details.TIF |
| | Precipitator Structure Foundation Plan.pdf | Precipitator Structure Foundation Plan.pdf |
| | Maps.pdf | Maps.pdf |
| | Geotechnical Engineering Investigation (By ATC - March 2001) | Soil Study.pdf |
| l. Underground utility information | | |
| | Underground Utilities - for entire plant | MCC-E393_LAYOUT-UNDERGROUND DUCT AND GROUNDING-COAL HANDLING SYSTEM.pdf |
| | Underground Utilities - for entire plant | MCC-E-233_PLAN OF UNDERGROUND DUCT TO PRECIPITATOR & SDRS PWR .pdf |
| | Underground Utilities - for entire plant | MCC-E-1209_UNDERGROUND DUCT LAYOUT TO SDRS, ID FANS & CHIMNEY AREAS.pdf |
| | SCR Structure Underground Investigation Plan | MC304307.pdf |
| | Underground Piping | MC0-C-00006.pdf |
| | Plan & El of Underground Duct From Station to SW YDS - Unit 1 | MCC-E375_PLAN & EL OF UNDERGROUND DUCT FROM STATION TO SW YDS.pdf |
| | Plan & EL of Underground Duct From Station to 14kV SWYD - Unit 1 | MC1-E376.pdf |
| | Layout - Underground Duct to Coal Handling System | MC1-E393.pdf |
| | Underground Duct Layout & Sections fro SDRS Thickener Area | MC1-E-101825.pdf |
| | Underground Ducts Details SDRS Area | MC1-E-101826.pdf |
| | Underground Ducts Details SDRS Area | MC1-E-101827.pdf |
| | Underground Duct Layout & Sections for SDRS Thick Area | MC2-E-102068.pdf |
| | Underground Duct Run to SWYDS & Coal Handling | MC2-E393.pdf |
| | Sections & Details Underground Duct in Thickner Tank Area | MC3-E1288.pdf |
| | Plant Underground Duct System CA Routing Sch. | MC3-E1295.pdf |
| | Plant Underground Duct System CA Routing Sch. | MC3-E1296.pdf |
| | Underground System Sections & Details | MC3-E1306.pdf |
| | Plan of Underground Duct to Precip & SDRS Pwr. | MC3-E233.pdf |
| | Underground Duct Layout to SDRS I.D. Fans & Chimney Areas | MC4-E1209.pdf |
| | Underground Duct Layout to SDRS I.D. Fans & Chimney Areas | MC4-E1210.pdf |
| | Elevations Sections & Details of Underground Duct SDRS Area | MC4-E1213.pdf |
| | Manhole Details & Sections Underground Duct - SDRS Thickner Area | MC4-E1214.pdf |
| | Elevations Sections & Details of Underground Ducts SDRS Thickner Area | MC4-E1215.pdf |
| m. Historical plant equipment availability and forced outage rates | | |
| | Annual Operating Hours by Unit | Data for BV2.xls |
| | SO2 Emission Analysis for Dec 2008 - Net Capacity Factor | SO2 Emission Analysis For DECEMBER-2008.xls |
| | SO2 Emission Analysis for July 2009 - Net Capacity Factor | SO2 Emission Analysis For JULY-2009.xls |
| n. Economic evaluation criteria | | |
| | Economic Criteria from Phase 1 Report | MC Economic Criteria.xls |
| o. Potential reagent supply sources and quality | | |
| p. Study of ash landfill issues (when available) | | |
| q. Past AQC studies | | |

**Black & Veatch Information Request Checklist
for E.ON Phase II AQC Study – Mill Creek**

| <u>Request</u> | <u>Document Description</u> | <u>File name</u> |
|--|--|--|
| | SO3 mitigation Cost Estimates | MillCreek_CostEstimatesCombined 081707.pdf |
| | SO3 Mitigation Study Final Report Units 3 & 4 - 2006 | S03MitigationStudyFinalReport_R2_032906 081707.pdf |
| | EON Due Diligence Report 2008 | EON Due Diligence Report - 100708 FINAL DRAFT .pdf |
| | EON Due Diligence Report 2008 Appendices | EON Due Diligence Report Appendices - 100708 FINAL DRAFT.pdf |
| 4. Air Regulations and Compliance Matrix | | |
| a. E.ON developed unit specific future regulations and compliance matrix with existing AQC technologies. | | |

| A | B | C | D |
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| 1 | Black & Veatch Information Request Ch | | |
| 2 | <u>Request</u> | <u>Document Description</u> | |
| 3 | 1. Drawings: | | |
| 4 | a. Site arrangements | | |
| 5 | | Overall Site Plot Plan | |
| 6 | | Overall Site Plot Plan - including parking lots and outlying buildings - REV V. | |
| 7 | | Overall Site Plot Plan - including parking lots and outlying buildings - REV U | |
| 8 | | Overall Site Plot Plan - including parking lots and outlying buildings - CAD REV U | |
| 9 | | Property Boundary Layout | |
| 10 | | Site Layout - North Side of Plant | |
| 11 | | Site Layout - South Side of Plant | |
| 12 | | Aerial view of site - Plan View | |
| 13 | | Aerial view of site - Isometric | |
| 14 | | General Site Plan - Mill Creek Station | |
| 15 | b. Plant arrangements | | |
| 16 | | Cross Section A-A Unit 1 | |
| 17 | | General Arrangement - Front & Side Unit 1 (POOR QUALITY) | |
| 18 | | General Arrangement - Front & Side Unit 1 (POOR QUALITY) | |
| 19 | | General Arrangement - Front & Side Unit 1 (POOR QUALITY) | |
| 20 | | General Arrangement - Front & Side Unit 1 (POOR QUALITY) | |
| 21 | | General Arrangement - Front & Side Unit 1 (POOR QUALITY) | |
| 22 | | General Arrangement - Front & Side Unit 1 (POOR QUALITY) | |
| 23 | | Cross Section A-A Unit 2 | |
| 24 | | General Arrangement - Front & Side Unit 2 (POOR QUALITY) | |
| 25 | | General Arrangement - Front & Side Unit 2 (POOR QUALITY) | |
| 26 | | General Arrangement - Front & Side Unit 2 (POOR QUALITY) | |
| 27 | | General Arrangement - Front & Side Unit 2 (POOR QUALITY) | |
| 28 | | General Arrangement - Front & Side Unit 2 (POOR QUALITY) | |
| 29 | | General Arrangement - Front & Side Unit 2 (POOR QUALITY) | |
| 30 | | Cross Section A-A Unit 3 | |
| 31 | | General Arrangement - Cross Section D-D Boiler Room Looking East | |
| 32 | | General Arrangement Plan - DA Room & Boiler Room Roof | |
| 33 | | General Arrangement - Front & Side Unit 3 (POOR QUALITY) | |
| 34 | | General Arrangement - Front & Side Unit 3 (POOR QUALITY) | |
| 35 | | General Arrangement - Front & Side Unit 3 (POOR QUALITY) | |
| 36 | | General Arrangement - Front & Side Unit 3 (POOR QUALITY) | |
| 37 | | General Arrangement - Front & Side Unit 3 (POOR QUALITY) | |
| 38 | | General Arrgt. Cross Sect A-A Turbine Conveyour - unit 4 | |
| 39 | | General Arrgt. Cross Sect A-A Turbine Conveyour - unit 4 | |
| 40 | | General Arrangement - Cross Section E-E Boiler Room Looking West | |
| 41 | | General Arrangement - Operating Level FL. EL 460' - 0" | |
| 42 | | General Arrangement - Front & Side Unit 4 (POOR QUALITY) | |
| 43 | | General Arrangement - Front & Side Unit 4 (POOR QUALITY) | |
| 44 | | General Arrangement - Front & Side Unit 4 (POOR QUALITY) | |
| 45 | | General Arrangement - Front & Side Unit 4 (POOR QUALITY) | |

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| 1 | Checklist for E.ON Phase II AQC Study – Mill Creek | |
| 2 | File name | |
| 3 | | |
| 4 | | |
| 5 | MCC-S201_PLOT PLAN.pdf | |
| 6 | MCC-S202_PLOT PLAN PLANT & YARD STRUCTURES.pdf | |
| 7 | MC401891.pdf | |
| 8 | MC401891.dwg | |
| 9 | MC003666.pdf | |
| 10 | MC003784.pdf | |
| 11 | MC003797.pdf | |
| 12 | MillCreek10-00.jpg | |
| 13 | IMG1573.jpg | |
| 14 | E9-411.0 4-3.pdf | |
| 15 | | |
| 16 | MC104054.pdf | |
| 17 | F-663-253-16.pdf | |
| 18 | F-663-253-16_A.pdf | |
| 19 | F-663-253-16_B.pdf | |
| 20 | F-663-254-12.pdf | |
| 21 | F-663-254-12_A.pdf | |
| 22 | F-663-254-12_B.pdf | |
| 23 | MC203205.pdf | |
| 24 | F-663-254-12.pdf | |
| 25 | F-663-254-12_B.pdf | |
| 26 | F-663-254-12_B.pdf | |
| 27 | F-663-254-12_C.pdf | |
| 28 | F-663-253-14.pdf | |
| 29 | F-663-253-14_A.pdf | |
| 30 | MC303261.pdf | |
| 31 | MC3-M203.pdf | |
| 32 | MC3-M232.pdf | |
| 33 | 34236F-7.pdf | |
| 34 | 34236F-7A.pdf | |
| 35 | 34236F-7B.pdf | |
| 36 | 34236F-7C.pdf | |
| 37 | 34240F-7.pdf | |
| 38 | MC403391.pdf | |
| 39 | M200.pdf | |
| 40 | MC4-M204.pdf | |
| 41 | MC4-M210.pdf | |
| 42 | 37180F-bottom leftt.pdf | |
| 43 | 37180F-Left Right.pdf | |
| 44 | 37180F-Upper Left.pdf | |
| 45 | 37180F-Upper Right.pdf | |

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| 46 | | | General Arrangement - Front & Side Unit 4 (POOR QUALITY) |
| 47 | | | General Arrangement - Front & Side Unit 4 (POOR QUALITY) |
| 48 | | | General Arrangement - Front & Side Unit 4 (POOR QUALITY) |
| 49 | | | General Arrangement - Front & Side Unit 4 (POOR QUALITY) |
| 50 | | | Water Treatment Building Location / Power Block |
| 51 | | | Yard Composite Piping Plan |
| 52 | | | Mill Creek Elevation View - Picture |
| 53 | | c. Related P&ID's | |
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| 55 | | | Unit 1 - Main Steam Hot & Cold Reheat - Flow Diagram |
| 56 | | | Unit 1 - Turbine Extraction Steam & Heater Vents - Flow Diagram |
| 57 | | | Unit 1 - Boiler Circulating Pumps - Flow Diagram |
| 58 | | | Unit 1 - Boiler Feed Suction, Discharge, Warm up, Recirc. & Attemperator Spray Diagram |
| 59 | | | Unit 1 - Condensate & Gland Seal - Flow Diagram |
| 60 | | | Unit 1 - Heater Drains & Air Preheater Water Coils Supply & Return Flow Diag |
| 61 | | | Unit 1 - Condenser Air Removal - Flow Diagram |
| 62 | | | Unit 1 - Turbine Oil Purification, City Water & Well Water - Flow Diag |
| 63 | | | Unit 1 - Station Compressor Air - Flow Diagram |
| 64 | | | Unit 1 - Make-Up, Treated Water & Deaerator Drain - Flow Diagram |
| 65 | | | Unit 1 - Service Water System - Flow Diagram |
| 66 | | | Unit 1 - Cooling Water System - Flow Diagram |
| 67 | | | Unit 1 - Boiler Ignition & Warm-Up Gas - Flow Diagram |
| 68 | | | Unit 1 - Instrument Air & Chemical Injection - Flow Diagram |
| 69 | | | Unit 1 - Bottom Ash & Fly Ash System - Flow Diagram |
| 70 | | | Unit 1 - Combustion Air - Flow Diagram |
| 71 | | | Unit 1 - Flue Gas - Flow Diagram |
| 72 | | | Unit 1 - Boiler Blow-Off & Acid Cleaning - Flow Diagram |
| 73 | | | Unit 1 - Turbine Rooms Traps & Drains - Flow Diagram |
| 74 | | | Unit 1 - Sampling System - Flow Diagram |
| 75 | | | Unit 1 - Preboiler and Boiler Chemical Cleaning Flow Diagram |
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| 78 | | | Unit 2 - Main Steam, Hot & Cold Reheat - Flow Diagram |
| 79 | | | Unit 2 - Turbine Extraction Steam & Heater Vents - Flow Diagram |
| 80 | | | Unit 2 - Boiler Circulating Pumps - Flow Diagram |
| 81 | | | Unit 2 - Boiler Feed Suction, Discharge, Warm up, Recirc. & Attemperator Spray Flow Diagram |
| 82 | | | Unit 2 - Condensate & Gland Seal - Flow Diagram |
| 83 | | | Unit 2 - Heater Drains & Air Preheater Water Coils Supply & Return - Flow Diagram |
| 84 | | | Unit 2 - Condenser Air Removal - Flow Diagram |
| 85 | | | Unit 2 - Turbine Oil Purification & City Water - Flow Diagram |
| 86 | | | Unit 2 - Station Compressed Air - Flow Diagram |
| 87 | | | Unit 2 - Make-Up, Treated Water & Deaerator Drain - Flow Diagram |
| 88 | | | Unit 2 - Service Water System - Flow Diagram |
| 89 | | | Unit 2 - Cooling Water System - Flow Diagram |
| 90 | | | Unit 2 - Boiler Ignition & Warm-Up Gas - Flow Diagram |
| 91 | | | Unit 2 - Instrument Air - Flow Diagram |
| 92 | | | Unit 2 - Bottom Ash & Fly Ash System - Flow Diagram |

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| 46 | 37184F-Lower Left.pdf | |
| 47 | 37184F-Lower Right.pdf | |
| 48 | 37184F-Upper Left.pdf | |
| 49 | 37184F-Upper Right.pdf | |
| 50 | MC0-C-00001.pdf | |
| 51 | MC1-E-101886.pdf | |
| 52 | MillCreek Elevation pic.jpg | |
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| 93 | | | Unit 2 - Combustion Air - Flow Diagram |
| 94 | | | Unit 2 - Flue Gas - Flow Diagram |
| 95 | | | Unit 2 - Boiler Blow-Off- Flow Diagram |
| 96 | | | Unit 2 - Turbine Room Traps & Drains - Flow Diagram |
| 97 | | | Unit 2 - Sampling System - Flow Diagram |
| 98 | | | Unit 2 - Preboiler and Boiler Chemical Cleaning Flow Diagram |
| 99 | | | Unit 3 - Flow Diagram Symbols, Legend, System Descriptions & Drawing List INCOMPLETE |
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| 113 | | | Unit 3 - Sampling System - Flow Diagram |
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| 118 | | | Unit 3 - Gland Seal - Flow Diagram |
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| 126 | | | Unit 3-Station Flow Diagram City Water Fire Prot. & Plumbing |
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| 129 | | | Unit 4 - Main Steam, Hot & Cold Reheat ad Attemperator Spray - Flow Diagram |
| 130 | | | Unit 4 - Condensate Turbine Extraction Steam, Heater Drains, & Vents - Flow Diagram |
| 131 | | | Unit 4 - Turbine Extraction Steam, Heater Vents and Drains, and Feedwater - Flow Diagram |
| 132 | | | Unit 4 - Turbine Steam Seal Flow Diagram |
| 133 | | | Unit 4 - Circulating Water System Flow Diagram |
| 134 | | | Unit 4 - Combustion Air - Flow Diagram |
| 135 | | | Unit 4 - Flue Gas - Flow Diagram |
| 136 | | | Unit 4 - Ash Handling System - Flow Diagram |
| 137 | | | Unit 4 - Service Water - Flow Diagram |
| 138 | | | Unit 4 - Ash Water - Flow Diagram |
| 139 | | | Unit 4 - Closed Cooling System - Flow Diagram |

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| 140 | | | | Unit 4 - Instrument Air - Flow Diagram |
| 141 | | | | Unit 4 - Station Compressed Air - Flow Diagram |
| 142 | | | | Unit 4 - Sampling System - Flow Diagram |
| 143 | | | | Unit 4 - Preboiler and Boiler Chemical Cleaning Flow Diagram |
| 144 | | | | Unit 4 - Boiler Fill and Drain - Flow Diagram |
| 145 | | | | Unit 4 - Blow-Out Procedure and Reheater Hydrostatic Test - Flow Diagram |
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| 147 | | | | Unit 4 - Condenser Air Removal - Flow Diagram |
| 148 | | | | Unit 4 - Turbine Oil Purification - Flow Diagram |
| 149 | | | | Unit 4 - Boiler Ignition Oil - Flow Diagram |
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| 153 | | | | Unit 4 - S.D.R.S. Flow Diagram Common Recycle System for 4A1, 4A2, 4B1 & 4B2 |
| 154 | | | | Unit 4 - S.D.R.S. Flow Diagram System 4A1 & 4A2 |
| 155 | | | | Unit 4 - S.D.R.S. Flow Diagram System 4B1 & 4B2 |
| 156 | | | | Unit 4 - S.D.R.S. Flow Diagram Reheat and Seal Air System for 4A1, 4A2, 4B1 & 4B2 |
| 157 | | | | Unit 4 - Condensate Dump Tank for Dwg M77 (Not a P&ID) |
| 158 | | | | Unit 3 & 4 - Station Feedwater Flow Diagram |
| 159 | | | | Unit 1, 2, 3, & 4 - Station Ash Flow Diagram |
| 160 | | | | Unit 1, 2, 3, & 4 - Station Service Water Flow Diagram |
| 161 | | | | Unit 1, 2, 3, & 4 - Station Ash Water Flow Diagram |
| 162 | | | | Unit 1, 2, 3, & 4 - Station Closed Cooling Water Flow Diagram |
| 163 | | | | Unit 1, 2, 3, & 4 - Station Instrument Air Flow Diagram |
| 164 | | | | Unit 1, 2, 3, & 4 - Station Coal Handling Flow Diagram |
| 165 | | | | Unit 1, 2, 3, & 4 - Station Start-Up Soot Blower Steam Supply - Flow Diagram |
| 166 | | | | Unit 1, 2, 3, & 4 - Station Make-Up Treated Water & Deaerator Drain - Flow Diagram |
| 167 | | | | Limestone Handling Flow Diagram-Scheme 2 - VOID |
| 168 | | | | Limestone Handling Flow Diagram-Scheme 1 - VOID |
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| 173 | | | | Boiler General Arrangement - with elevations - Unit 3 |
| 174 | | | | Boiler General Arrangement - with elevations - Unit 4 |
| 175 | | | | Precipitator Arrangement Drawings - Unit 1 |
| 176 | | | | Precipitator Arrangement Drawings - Unit 2 |
| 177 | | | | Precipitator Arrangement Drawings - Unit 3 |
| 178 | | | | Precipitator Arrangement Drawings - Unit 3 |
| 179 | | | | Precipitator Arrangement Drawings - Unit 4 |
| 180 | | | | SDRS Arrangement Drawings - Unit 1 |
| 181 | | | | SDRS Arrangement Drawings - Unit 1 |
| 182 | | | | SDRS Arrangement Drawings - Unit 2 |
| 183 | | | | SDRS Arrangement Drawings - Unit 2 |
| 184 | | | | SDRS Arrangement Drawings - Unit 3 |
| 185 | | | | SDRS Arrangement Drawings - Unit 3 |
| 186 | | | | SDRS Arrangement Drawings - Unit 3 |

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| 168 | 178. CA-10936.pdf | |
| 169 | 179. CA-10942.pdf | |
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| 171 | MC1-F-634-888-21_BOILER G.A. SIDE VIEW.pdf | |
| 172 | MC2-F-663-253-19_BOILER G.A. SIDE VIEW.pdf | |
| 173 | MC3-34240f-11_BOILER G.A. SIDE VIEW.pdf | |
| 174 | MC4-37184f-12_BOILER G.A. SIDE VIEW.pdf | |
| 175 | MC1-11-3-6_PRECIP G.A. .pdf | |
| 176 | MC2-11-3-8_PRECIP G.A. .pdf | |
| 177 | MC3-81-1393-102_PRECIP G.A. PLAN.pdf | |
| 178 | MC3-81-1393-103_PRECIP G.A. ELEVATION .pdf | |
| 179 | MC4-82-1343-101_PRECIP G.A. 3 VIEWS.pdf | |
| 180 | MC1-08478-4E-0001-07-1_GENERAL ARR'G'T. SIDE S.D.R.S.(A.Q.C.S.).pdf | |
| 181 | MC1-08478-4E-0002-09-2_GENERAL ARR'G'T. PLAN S.D.R.S.(A.Q.C.S.).pdf | |
| 182 | MC2-08578-4E-0001-06_GENERAL ARR'G'T. SIDE S.D.R.S.(A.Q.C.S.).pdf | |
| 183 | MC2-08578-4E-0002-11_GENERAL ARR'G'T. PLAN S.D.R.S.(A.Q.C.S.).pdf | |
| 184 | MC3-E233_PLAN OF UNDERGROUND DUCT TO PRECIPITATOR.pdf | |
| 185 | MC3-81-1392-101-A_SDRS G.A..pdf | |
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| 187 | MC3-81-1392-108_SDRS G.A. EAST ELEVATION.pdf | |
| 188 | MC3-81-1392-103_SDRS G.A. EL554.pdf | |
| 189 | MC3-81-1392-104_SDRS G.A. EL502.pdf | |
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| 191 | DOES NOT EXIST (Drawing number 81-1392-106) | |
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| 193 | MC4-82-1349-0101_SDRS G.A. PLOT PLAN.pdf | |
| 194 | MC4-82-1349-0102_SDRS G.A. PLAN.pdf | |
| 195 | MC4-82-1349-0103_SDRS G.A. SOUTH ELEVATION.pdf | |
| 196 | MC4-82-1349-0104_SDRS G.A. WEST ELEVATION.pdf | |
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| 198 | MC4-82-1349-0106_SDRS G.A. PLAN BELOW 480.pdf | |
| 199 | MC4-82-1349-0107_SDRS G.A. PLAN TOP STEEL ELEV 498.pdf | |
| 200 | MC4-82-1349-0108_SDRS G.A. PLAN TOP OF STEEL ELEV 507.pdf | |
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| 202 | MC3-100122-9267513-05_MC3 SCR PLAN AND SIDE VIEW.pdf | |
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| 223 | MC3-Boiler Outside-7000-32-1.pdf | |
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| 227 | MC3-Boiler Sect CC-7000-35-1.pdf | |
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| 236 | MC3-Boiler Sect FF-GG-7000-38-4.pdf | |
| 237 | MC3-Boiler Sect HH-7000-39-1.pdf | |
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| 239 | MC3-Boiler Sect HH-7000-39-3.pdf | |
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| 241 | MC3-Boiler Sect GG-JJ-7000-78-1.pdf | |
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| 243 | MC4-COLOR-18x24.pdf | |
| 244 | MC4 Boiler Outside View Sect AA-8000-1-1.pdf | |
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| 246 | MC4 Blr Radiant Outside View-8000-90-1.pdf | |
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| 250 | MC4-8000-113-1.pdf | |
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| 252 | MC4-8000-113-3.pdf | |
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| 262 | MC4-8000-5-1.pdf | |
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| 306 | MC1 ID Fan - Motor Nameplate.pdf | |
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| 309 | MC3 FD FAN CURVE.PDF | |
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| 312 | MC4 FD FAN ARRANGEMENT WITH PERFORMANCE DATA.PDF | |
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| 408 | | | Composite Piping - Boiler Unit 1 |
| 409 | | | Composite Piping - Boiler Unit 1 |
| 410 | | | Composite Piping Boiler Room - Below Mezz Floor |
| 411 | | | Composite Piping Boiler Room - Above Mezz Floor |
| 412 | | | Composite Piping North Boiler Room Below Mezzanine |
| 413 | | | Composite Piping South Boiler Room Below Mezzanine |
| 414 | | | Composite Piping North Boiler Room Above Mezzanine |
| 415 | | | Composite Piping South Boiler Above Below Mezzanine |
| 416 | | | Composite Piping North Boiler Room Below Mezz. Fl. |
| 417 | | | Composite Piping South Boiler Room Below Mezz. Fl. |
| 418 | | | Composite Piping - North Boiler Room Above Mezz. Fl. |
| 419 | | | Composite Piping-South Boiler Room Above Mezz FL. |
| 420 | | 2. Schedule Information: | |
| 421 | | a. Planned outage schedule | |

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| 375 | MC405022.pdf | |
| 376 | | |
| 377 | 160. E-112069.pdf | |
| 378 | 161. E-112068.pdf | |
| 379 | 162. E-112067.pdf | |
| 380 | 163. E-112066.pdf | |
| 381 | 164. E-112065.pdf | |
| 382 | | |
| 383 | MC1-4941.pdf | |
| 384 | MC1-5462-1.pdf | |
| 385 | MC1-5462-2.pdf | |
| 386 | MC1-5462-3.pdf | |
| 387 | MC1-5462-4.pdf | |
| 388 | MC1-M284.pdf | |
| 389 | MC2-5743-2.pdf | |
| 390 | MC2-4941-70.pdf | |
| 391 | MC2-4941-11.pdf | |
| 392 | MC2-4941-12.pdf | |
| 393 | MC2-4941-5.pdf | |
| 394 | MC2-4941-6.pdf | |
| 395 | MC2-4941-13.pdf | |
| 396 | MC2-4941-38.pdf | |
| 397 | MC2-4941-45.pdf | |
| 398 | MC2-4941-51.pdf | |
| 399 | MC2-4941-73.pdf | |
| 400 | MC2-4941-68.pdf | |
| 401 | MC2-4941-29.pdf | |
| 402 | MC2-M284.pdf | |
| 403 | MC2-M285.pdf | |
| 404 | MC4-8023-2.pdf | |
| 405 | MC4-8023-3.pdf | |
| 406 | MC4-8023-4.pdf | |
| 407 | | |
| 408 | MC1-M240.pdf | |
| 409 | MC1-M242.pdf | |
| 410 | MC2-M240.pdf | |
| 411 | MC2-M242.pdf | |
| 412 | MC3-M302.pdf | |
| 413 | MC3-M303.pdf | |
| 414 | MC3-M306.pdf | |
| 415 | MC3-M307.pdf | |
| 416 | MC4-M302.pdf | |
| 417 | MC4-M303.pdf | |
| 418 | MC4-M306.pdf | |
| 419 | MC4-M307.pdf | |
| 420 | | |
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| 422 | | | | Outage Schedule for all 6 facilities through 2019 |
| 423 | | | | MC-OutageSchedule.xls |
| 424 | | | | b. Target schedule for having any planned AQC retrofit systems on-line |
| 425 | | | | 3. Plant Data: |
| 426 | | | | a. Steam generator design information |
| 427 | | | | Basic Plant Size and Operation Data |
| 428 | | | | Steam Gen. Spec 1 |
| 429 | | | | Steam Gen. Spec 1 |
| 430 | | | | Steam Gen. Spec 1 |
| 431 | | | | Steam Gen Unit 2 |
| 432 | | | | Steam Gen Unit 2 |
| 433 | | | | b. Coal and other fuel specifications and analyses |
| 434 | | | | Typical Fuel Analysis |
| 435 | | | | Annual Boiler Fuel Usage Survey 3/27/09 |
| 436 | | | | Mill Creek Coal Analysis-B&V 2009-2010 |
| 437 | | | | c. Flue gas properties |
| 438 | | | | Operating Conditions |
| 439 | | | | d. Existing permitted air emissions limits (tabulated list) or copy of air permit |
| 440 | | | | Basic Emission Limits and Current Emissions |
| 441 | | | | Title V Operating Permit 145-97-TV |
| 442 | | | | e. Recent responses to EPA Information Collection Requests (ICR) and, if applicable, supporting air emissions test results |
| 443 | | | | Response of LG & E and KU to Request for Information under Section 104(e) of the CERCLA |
| 444 | | | | Visual Site Assessment Report Ash Pond Dams |
| 445 | | | | EPCRA section 313 TRI |
| 446 | | | | EPCRA section 313 TRI |
| 447 | | | | Enforcement & Compliance History Online (ECHO) |
| 448 | | | | Enforcement & Compliance History Online (ECHO) |
| 449 | | | | Mill Creek Environmental Review 2008 |
| 450 | | | | f. Historical air emissions information. |
| 451 | | | | Unit 1 Particulate Emission Test Report |
| 452 | | | | Unit 2 Particulate Emission Test Report |
| 453 | | | | Unit 3 Particulate Emission Test Report |
| 454 | | | | Unit 4 Particulate Emission Test Report |
| 455 | | | | Unit 3 SO3 Measurements before and after ESP & at Stack |
| 456 | | | | All Plant Emissions Report |
| 457 | | | | BART-LG&E Study Data Request(v3).xls |
| 458 | | | | Stack Info, Emissions, Coal Properties, and Operating hours |
| 459 | | | | SO2 Emission Analysis for Dec 2008 |
| 460 | | | | SO2 Emission Analysis for July 2009 |
| 461 | | | | g. Water analyses and supply information |
| 462 | | | | Water Analysis Report (By GE Infrastructure - July 2009) |
| 463 | | | | h. Other water and wastewater information |
| 464 | | | | Groundwater Sample Analysis - Mill Creek Special Waste Landfill 2008 |
| 465 | | | | Groundwater Sample Analysis - Mill Creek Special Waste Landfill 2008 |
| 466 | | | | Groundwater Sample Analysis - Mill Creek Special Waste Landfill 2009 |
| 467 | | | | Groundwater and Surface Water Monitoring sample data Reporting Form |
| 468 | | | | Groundwater and Surface Water Monitoring sample data Reporting Form |

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| 422 | Maint.Sched.xls | |
| 423 | MC-OutageSchedule.xls | |
| 424 | | |
| 425 | | |
| 426 | | |
| 427 | EON Power Plant AQCS Information Data Request May 6 2010.xls | |
| 428 | Steam Gen. Specifications-p1.pdf | |
| 429 | Steam Gen. Specifications-p2.pdf | |
| 430 | Steam Gen. Specifications-p3.pdf | |
| 431 | Performance -p1.pdf | |
| 432 | Performance -p2.pdf | |
| 433 | | |
| 434 | EON Power Plant AQCS Information Data Request May 6 2010.xls | |
| 435 | MC 2008 Inventory_Part 1.pdf | |
| 436 | Mill Creek Coal Analysis-B&V.pdf | |
| 437 | | |
| 438 | EON Power Plant AQCS Information Data Request May 6 2010.xls | |
| 439 | | |
| 440 | EON Power Plant AQCS Information Data Request May 6 2010.xls | |
| 441 | Title V-MillCreek.pdf | |
| 442 | st reports | |
| 443 | EPA ReqForInfo FINAL LTR cc 032509.pdf | |
| 444 | ATC Visual Site Assessment Report High and Moderate Hazard- February 20,2009.pdf | |
| 445 | MC TRI 313 doc 07.pdf | |
| 446 | MC TRI 313 doc 08.pdf | |
| 447 | Mill Creek EPA ECHO 081909.pdf | |
| 448 | Mill creek.htm | |
| 449 | Mill.creek.Env.final.doc | |
| 450 | | |
| 451 | MC1 2006 PM Report.pdf | |
| 452 | MC2 2006 PM Report.pdf | |
| 453 | MC3 2006 PM Report.pdf | |
| 454 | MC4 2006 PM Report.pdf | |
| 455 | pdf4d0f6 summary 082207.pdf | |
| 456 | MC 2008 Inventory_Part 2. pdf | |
| 457 | BART-LG&E Study Data Request(v3).xls | |
| 458 | Data for BV2.xls | |
| 459 | SO2 Emission Analysis For DECEMBER-2008.xls | |
| 460 | SO2 Emission Analysis For JULY-2009.xls | |
| 461 | | |
| 462 | Deep Well Water Analysis.rtf | |
| 463 | | |
| 464 | GWQ1-2008.doc | |
| 465 | GWQ2-2008.doc | |
| 466 | GWQ1-2009.doc | |
| 467 | MCCVR1-2008.doc | |
| 468 | MCCVR1-2009.doc | |

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| 469 | | | | Groundwater and Surface Water Monitoring sample data Reporting Form |
| 470 | | | | Mill Creek Monitoring Well Data |
| 471 | | | | Mill Creek Monitoring Well Data |
| 472 | | | | Mill Creek Monitoring Well Data |
| 473 | | | | LGE April Discharge Monitoring Report |
| 474 | | | | LGE Aug Discharge Monitoring Report |
| 475 | | | | LGE Dec Discharge Monitoring Report |
| 476 | | | | LGE Dec Discharge Monitoring Report - Amended |
| 477 | | | | LGE Feb Discharge Monitoring Report |
| 478 | | | | LGE Jan Discharge Monitoring Report |
| 479 | | | | LGE July Discharge Monitoring Report |
| 480 | | | | LGE June Discharge Monitoring Report |
| 481 | | | | LGE March Discharge Monitoring Report |
| 482 | | | | LGE May Discharge Monitoring Report |
| 483 | | | | LGE Nov Discharge Monitoring Report |
| 484 | | | | LGE Oct Discharge Monitoring Report |
| 485 | | | | LGE Sep Discharge Monitoring Report |
| 486 | | | | i. Current NPDES discharge permit |
| 487 | | | | KPDES Permit from May 2002 and July 2004 |
| 488 | | | | Generalized Site Diagram - Landfill, Ash impoundment, and Runoff |
| 489 | | | | Mill Creek All Zones |
| 490 | | | | j. Plant performance data including current draft system operating pressures |
| 491 | | | | Mill Creek Unit 4 Baseline Test 12/2/09 |
| 492 | | | | k. Existing general geotechnical information as available (general information to anticipate foundation types and |
| 493 | | | | Soil Test Borings.pdf |
| 494 | | | | Precipitator Structure Foundation Sections and Details.TIF |
| 495 | | | | Precipitator Structure Foundation Plan.pdf |
| 496 | | | | Maps.pdf |
| 497 | | | | Geotechnical Engineering Investigation (By ATC - March 2001) |
| 498 | | | | l. Underground utility information |
| 499 | | | | Underground Utilities - for entire plant |
| 500 | | | | Underground Utilities - for entire plant |
| 501 | | | | Underground Utilities - for entire plant |
| 502 | | | | SCR Structure Underground Investigation Plan |
| 503 | | | | Underground Piping |
| 504 | | | | Plan & El of Underground Duct From Station to SW YDS - Unit 1 |
| 505 | | | | Plan & EL of Underground Duct From Station to 14kV SWYD - Unit 1 |
| 506 | | | | Layout - Underground Duct to Coal Handling System |
| 507 | | | | Underground Duct Layout & Sections fro SDRS Thickener Area |
| 508 | | | | Underground Ducts Details SDRS Area |
| 509 | | | | Underground Ducts Details SDRS Area |
| 510 | | | | Underground Duct Layout & Sections for SDRS Thick Area |
| 511 | | | | Underground Duct Run to SWYDS & Coal Handling |
| 512 | | | | Sections & Details Underground Duct in Thickner Tank Area |
| 513 | | | | Plant Underground Duct System CA Routing Sch. |
| 514 | | | | Plant Underground Duct System CA Routing Sch. |
| 515 | | | | Undergournd System Sections & Details |

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| 469 | MCCVR2-2008.doc | |
| 470 | MCANOVA01-2008 | |
| 471 | MCANOVA01-2009 | |
| 472 | MCANOVA02-2008 | |
| 473 | LGE April DMR.xls | |
| 474 | LGE Aug DMR.xls | |
| 475 | LGE Dec DMR (3).xls | |
| 476 | LGE Dec AMENDED MC-005 Y (2).xls | |
| 477 | LGE Feb DMR.xls | |
| 478 | LGE Jan DMR.xls | |
| 479 | LGE July DMR.xls | |
| 480 | LGE June2nd QTR DMR.xls | |
| 481 | LGE March DMR.xls | |
| 482 | LGE May DMR.xls | |
| 483 | LGE Nov DMR.xls | |
| 484 | LGE Oct DMR.xls | |
| 485 | LGE Sep Otr3 DMR.xls | |
| 486 | | |
| 487 | Mill Creek KPDES.pdf | |
| 488 | Mill Creek 2006AppB-1.JPG | |
| 489 | MILL CREEK ALL ZONES with Fuel Oil lines 92 (3).doc | |
| 490 | | |
| 491 | MC4-111209-BLReport.pdf | |
| 492 | requirements) | |
| 493 | Soil Test Borings.pdf | |
| 494 | Precipitator Structure Foundation Sections and Details.TIF | |
| 495 | Precipitator Structure Foundation Plan.pdf | |
| 496 | Maps.pdf | |
| 497 | Soil Study.pdf | |
| 498 | | |
| 499 | MCC-E393_LAYOUT-UNDERGROUND DUCT AND GROUNDING-COAL HANDLING SYSTEM.pdf | |
| 500 | MCC-E-233_PLAN OF UNDERGROUND DUCT TO PRECIPITATOR & SDRS PWR..pdf | |
| 501 | MCC-E-1209_UNDERGROUND DUCT LAYOUT TO SDRS, ID FANS & CHIMENY AREAS.pdf | |
| 502 | MC304307.pdf | |
| 503 | MC0-C-00006.pdf | |
| 504 | MCC-E375_PLAN & EL OF UNDERGROUND DUCT FROM STATION TO SW YDS.pdf | |
| 505 | MC1-E376.pdf | |
| 506 | MC1-E393.pdf | |
| 507 | MC1-E-101825.pdf | |
| 508 | MC1-E-101826.pdf | |
| 509 | MC1-E-101827.pdf | |
| 510 | MC2-E-102068.pdf | |
| 511 | MC2-E393.pdf | |
| 512 | MC3-E1288.pdf | |
| 513 | MC3-E1295.pdf | |
| 514 | MC3-E1296.pdf | |
| 515 | MC3-E1306.pdf | |

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| 516 | | | | Plan of Underground Duct to Precip & SDRS Pwr. |
| 517 | | | | Underground Duct Layout to SDRS I.D. Fans & Chimney Areas |
| 518 | | | | Underground Duct Layout to SDRS I.D. Fans & Chimney Areas |
| 519 | | | | Elevations Sections & Details of Underground Duct SDRS Area |
| 520 | | | | Manhole Details & Sections Underground Duct - SDRS Thickner Area |
| 521 | | | | Elevations Sections & Details of Underground Ducts SDRS Thickner Area |
| 522 | | | m. Historical | plant equipment availability and forced outage rates |
| 523 | | | | Annual Operating Hours by Unit |
| 524 | | | | SO2 Emission Analysis for Dec 2008 - Net Capacity Factor |
| 525 | | | | SO2 Emission Analysis for July 2009 - Net Capacity Factor |
| 526 | | | n. Economic | evaluation criteria |
| 527 | | | | Economic Criteria from Phase 1 Report |
| 528 | | | o. Potential | reagent supply sources and quality |
| 529 | | | p. Study of | ash landfill issues (when available) |
| 530 | | | q. Past | AQC studies |
| 531 | | | | SO3 mitigation Cost Estimates |
| 532 | | | | SO3 Mitigation Study Final Report Units 3 & 4 - 2006 |
| 533 | | | | EON Due Diligence Report 2008 |
| 534 | | | | EON Due Diligence Report 2008 Appendices |
| 535 | | | 4. Air | Regulations and Compliance Matrix |
| 536 | | | a. E.ON | developed unit specific future regulations and compliance matrix with existing AQC technologies. |

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| 516 | MC3-E233.pdf | |
| 517 | MC4-E1209.pdf | |
| 518 | MC4-E1210.pdf | |
| 519 | MC4-E1213.pdf | |
| 520 | MC4-E1214.pdf | |
| 521 | MC4-E1215.pdf | |
| 522 | | |
| 523 | Data for BV2.xls | |
| 524 | SO2 Emission Analysis For DECEMBER-2008.xls | |
| 525 | SO2 Emission Analysis For JULY-2009.xls | |
| 526 | | |
| 527 | MC Economic Criteria.xls | |
| 528 | | |
| 529 | | |
| 530 | | |
| 531 | MillCreek_CostEstimatesCombined 081707.pdf | |
| 532 | S03MitigationStudyFinalReport_R2_032906 081707.pdf | |
| 533 | EON Due Diligence Report - 100708 FINAL DRAFT .pdf | |
| 534 | EON Due Diligence Report Appendices - 100708 FINAL DRAFT.pdf | |
| 535 | | |
| 536 | | |

Black & Veatch Information Requests for E.ON Phase II AQC Study – Mill Creek

As stated in task 1 of our Phase II proposal, “obtain or identify key site specific drawings, plant performance data, and existing equipment information not previously collected.” Please provide the following remaining information requests listed below for each of the units, unless stated otherwise.

1. Drawings:
 - a. ~~Site arrangements~~
 - b. Plant arrangements – Unit 1 only – The set of unit 1 plant arrangement drawings we have is unreadable.
 - c. ~~Related P&ID's~~
 - d. ~~Boiler and AQC equipment plan and elevation drawings~~
 - e. ~~Draft fan drawings and performance curves~~
 - f. ~~One-line diagram(s)~~
 - g. ~~Water and wastewater mass balance diagrams~~
 - h. Shop Drawings of the existing chimney – Unit 1/2, 3, 4
2. ~~Schedule Information:~~
 - a. ~~Planned outage schedule~~
 - b. ~~Target schedule for having any planned AQC retrofit systems on-line~~
3. Plant Data:
 - a. ~~Steam generator design information (Need design pressure for Boiler, SCR (U3&U4), Air Heater, ESP, Ductwork, & Scrubber for each unit.)~~
 - b. ~~Coal and other fuel specifications and analyses~~
 - c. ~~Flue gas properties~~
 - d. ~~Existing permitted air emissions limits (tabulated list) or copy of air permit~~
 - e. Recent responses to EPA Information Collection Requests (ICR) and, if applicable, supporting air emissions test reports. *(Also, include current mercury stack testing results, if available. Note: B&V has a copy of the Burns & McDonnell Mercury Removal Program Study Summary Report of March 2010.)*
 - f. ~~Historical air emissions information.~~
 - g. Water analyses and supply information for Ohio River, City Water and Well Water
 - h. ~~Other water and wastewater information~~
 - i. ~~Current NPDES discharge permit~~
 - j. ~~Plant performance data including current draft system operating pressures~~
 - k. ~~Existing general geotechnical information as available (general information to anticipate foundation types and requirements)~~
 - l. ~~All Current underground utility information/drawings. (Include underground piping and composite drawings, specifically underground pipe routing and plan views of the area under construction. B&V located sufficient duct layout information/drawings.)~~
 - m. ~~Historical plant equipment availability and forced outage rates~~
 - n. ~~Economic evaluation criteria~~
 - o. Need current limestone quality analysis, specifically purity/reactive CaCO₃ and inerts.
 - p. ~~Study of ash landfill issues (when available)~~
4. ~~Air Regulations and Compliance Matrix~~
 - a. ~~E.ON developed unit specific future regulations and compliance matrix with existing AQC technologies.~~

Additional requests developed from Mill Creek site meeting on September 15 & 16.

1. Provide structural and ductwork integrity studies for ~~each unit~~-Unit 3.(Previously requested)
2. Provide plant access standards (minimum height and width) for roadways. (Previously requested)
3. Provide draft fan hydraulic coupling design info.
4. Provide B&V short circuit and load flow analysis (from the 1990's). (Note: B&V searched our stored files and could not locate this study)

Additionally, please provide information and responses for the following discipline specific requests and questions.

Civil/Structural

1. Steel superstructure drawings for Units 1 and 2, particularly in economizer and ESP support area, including elevation view of Column Line J and floor plans at or below ESP level
2. Foundation plan drawings in Unit 1 and 2 area for east end of Boiler Building, ID fans, RATs, SCR, and ductwork
3. Foundation plan drawings for Unit 3 and 4 for SCRs and reaction tanks, ID fans, and ductwork
4. Foundation plan (outline) drawings for each chimney, Units 1 – 4
5. Building envelope drawings (foundation floor plan and building elevations) for Unit 4 AQCS Switchgear Building south of Unit 4
6. Building envelope drawings (foundation floor plan and building elevations) for new RO (Water Treatment) Building north of Unit 1
7. Foundation plan drawings for main Coal Conveyor F between Units 2 and 3

Electrical and Control

1. Provide DCS network or architecture drawings for each unit.
2. Confirm all four units are planned to be Experion DCS systems.
3. General arrangement and layout drawings of the entire existing substation/HV switchyard.
4. For all units, current auxiliary power bus loads for major switchgear.
5. Pictures or drawings of transformer name plates including: RATs, Scrubber Transformers, Substation Auto Transformers, all unit MATs and all unit Main Transformers.
6. General arrangement and layout drawings of the Unit 3 and unit 4 transformers on the river side of the plant.
7. Specific Electrical Drawings
 - 345 kV Electrical drawings:
 - 317261-E402
 - 317292-E401
 - 317292-E402

Electrical drawing List and MV 3 lines

- 317255-E500
- 317261-E308
- 317261-E405
- 317261-E408
- 317264-E500
- 317264-E504
- 317264-E594
- 317264-E552
- 317273-E500
- 317273-E509
- 317273-E510
- 317295-E500
- 317295-E509
- 317295-E510

Steam Generation, Boiler, and Fans, Draft System

1. Fan Data
 - a. FD fan performance curve – Unit 3
 - b. FD fan motor drawing – Unit 1, 2, 3, 4
 - c. FD fan motor data sheet, nameplate – Unit 1, 2, 3, 4
 - d. ID fan arrangement drawing – Unit 1, 2, 3, 4
 - e. ID fan motor drawing – Unit 1, 2, 3, 4
 - f. ID fan motor data sheet, nameplate – Unit 2, 3, 4

- g. ID fan fluid coupling drawing – Unit 1, 2, 3, 4
 - h. ID fan fluid coupling data sheet and/or the following – Unit 1, 2, 3, 4
 - Manufacturer
 - Model name/number and/or drive size
 - Heat exchanger drawing and data sheet
 - Arrangement drawing showing fan and motor coupled
 - i. Booster fan performance curve – Unit 1 & 2
 - j. Booster fan arrangement drawing – Unit 1 & 2
 - k. Booster fan motor drawing – Unit 1 & 2
 - l. Booster fan motor data sheet, nameplate – Unit 1 & 2
 - m. Booster fan fluid coupling data sheet and/or the following – Unit 1 & 2
 - Manufacturer
 - Model name/number and/or drive size
 - Heat exchanger drawing and data sheet
 - Arrangement drawing showing fan and motor coupled
 - n. List of any major modifications or major repairs made to any existing FD, ID or Booster fans – All units, if any.
2. Duct Drawings
- a. Precipitator to ID fan ductwork transient design pressures in units of inches of water gauge – Unit 1, 2, 3, 4
 - b. ID fan to booster fan ductwork transient design pressures in units of inches of water gauge – Unit 1, 2, 3, 4
 - c. Ductwork drawing: ESP to ID fans – Unit 3 & 4
 - d. Ductwork drawing: ID fans to FGD Scrubbers – Unit 4
 - e. Ductwork drawing: FGD Scrubbers to Stack – Unit 4
3. Air Heaters – unit 1, 2, 3, 4
- a. Air heater transient design pressures in units of inches of water gauge
 - b. Air heater leakage percentage and/or the following
 - Air heater gas outlet oxygen percentage, wet basis
 - Air heater gas outlet oxygen percentage, dry basis
 - c. General arrangement drawings
 - d. Original / Operating performance data (data sheets)
 - e. List of any major modifications or major repairs made to the existing air heater – All units, if any.
4. Steam Coil Air Heaters - Units 1, 2, 3, 4
- a. Original data sheets
 - b. General arrangement drawings
5. SCR System
- a. SCR transient design pressures in units of inches of water gauge – Unit 3 & 4
6. Boiler
- a. Boiler steam cycle heat balance – Unit 3 & 4
 - b. Boiler loss on ignition (LOI) percentage – Unit 1, 2, 3, 4
 - c. Boiler transient design pressures in units of inches of water gauge – Unit 1, 2, 3, 4
 - d. Excess air percentage at economizer outlet and/or the following – Unit 1, 2, 3, 4
 - Economizer outlet oxygen percentage, wet basis
 - Economizer outlet oxygen percentage, dry basis
7. Precipitators (ESP's)
- a. Precipitator transient design pressures in units of inches of water gauge – Unit 1, 2, 3, 4
 - b. Precipitator leakage percentage and/or the following – Unit 1, 2, 3, 4
 - Precipitator gas outlet oxygen percentage, wet basis
 - Precipitator gas outlet oxygen percentage, dry basis
8. Stack
- a. Stack gas outlet oxygen percentage, wet basis or stack gas outlet oxygen percentage, dry basis – Unit 1, 2, 3, 4.
9. FGD Scrubbers
- a. Scrubber transient design pressures in units of inches of water gauge – Unit 1, 2, 3, 4

Black & Veatch Information Requests for E.ON Phase II AQC Study – Mill Creek

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- b. Plant arrangements – Unit 1 only – The set of unit 1 plant arrangement drawings we have is unreadable.
- c. ~~Related P&ID's~~
- d. ~~Boiler and AQC equipment plan and elevation drawings~~
- e. ~~Draft fan drawings and performance curves~~
- f. ~~One-line diagram(s)~~
- g. ~~Water and wastewater mass balance diagrams~~
- h. ~~Shop Drawings of the existing chimney – Unit 1/2, 3, 4~~

2. ~~Schedule Information:~~

- a. ~~Planned outage schedule~~
- b. ~~Target schedule for having any planned AQC retrofit systems on-line~~

3. Plant Data:

- a. ~~Steam generator design information (Need design pressure for Boiler, SCR (U3&U4), Air Heater, ESP, Ductwork, & Scrubber for each unit.)~~
- b. ~~Coal and other fuel specifications and analyses~~
- c. ~~Flue gas properties~~
- d. ~~Existing permitted air emissions limits (tabulated list) or copy of air permit~~
- e. Recent responses to EPA Information Collection Requests (ICR) and, if applicable, supporting air emissions test reports. (Also, include current mercury stack testing results, if available. Note: B&V has a copy of the Burns & McDonnell Mercury Removal Program Study Summary Report of March 2010.)
- f. ~~Historical air emissions information~~
- g. Water analyses and supply information for Ohio River, City Water and Well Water
- h. ~~Other water and wastewater information~~
- i. ~~Current NPDES discharge permit~~
- j. ~~Plant performance data including current draft system operating pressures~~
- k. ~~Existing general geotechnical information as available (general information to anticipate foundation types and requirements)~~
- l. ~~All~~ Current underground utility information/drawings. (Include underground piping and composite drawings, specifically underground pipe routing and plan views of the area under construction. B&V located sufficient duct layout information/drawings.)
- m. ~~Historical plant equipment availability and forced outage rates~~
- n. ~~Economic evaluation criteria~~
- o. Need current limestone quality analysis, specifically purity/reactive CaCO₃ and inerts.
- p. ~~Study of ash landfill issues (when available)~~

4. ~~Air Regulations and Compliance Matrix~~

- a. ~~E.ON developed unit specific future regulations and compliance matrix with existing AQC technologies.~~

Additional requests developed from Mill Creek site meeting on September 15 & 16.

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- 4. Provide B&V short circuit and load flow analysis (from the 1990's). (Note: B&V searched our stored files and could not locate this study)

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Civil/Structural

1. Steel superstructure drawings for Units 1 and 2, particularly in economizer and ESP support area, including elevation view of Column Line J and floor plans at or below ESP level
2. Foundation plan drawings in Unit 1 and 2 area for east end of Boiler Building, ID fans, RATs, SCR, and ductwork
3. Foundation plan drawings for Unit 3 and 4 for SCR's and reaction tanks, ID fans, and ductwork
4. Foundation plan (outline) drawings for each chimney, Units 1 – 4
5. Building envelope drawings (foundation floor plan and building elevations) for Unit 4 AQCS Switchgear Building south of Unit 4
6. Building envelope drawings (foundation floor plan and building elevations) for new RO (Water Treatment) Building north of Unit 1
7. Foundation plan drawings for main Coal Conveyor F between Units 2 and 3

Electrical and Control

1. Provide DCS network or architecture drawings for each unit.
2. Confirm all four units are planned to be Experion DCS systems.
3. General arrangement and layout drawings of the entire existing substation/HV switchyard.
4. For all units, current auxiliary power bus loads for major switchgear.
5. Pictures or drawings of transformer name plates including: RATs, Scrubber Transformers, Substation Auto Transformers, all unit MATs and all unit Main Transformers.
6. General arrangement and layout drawings of the Unit 3 and unit 4 transformers on the river side of the plant.
7. Specific Electrical Drawings
 - 345 kV Electrical drawings:
 - 317261-E402
 - 317292-E401
 - 317292-E402

Electrical drawing List and MV 3 lines

- 317255-E500
- 317261-E308
- 317261-E405
- 317261-E408
- 317264-E500
- 317264-E504
- 317264-E594
- 317264-E552
- 317273-E500
- 317273-E509
- 317273-E510
- 317295-E500
- 317295-E509
- 317295-E510

Steam Generation, Boiler, and Fans, Draft System

1. Fan Data
 - a. FD fan performance curve – Unit 3
 - b. FD fan motor drawing – Unit 1, 2, 3, 4
 - c. FD fan motor data sheet, nameplate – Unit 1, 2, 3, 4
 - d. ID fan arrangement drawing – Unit 1, 2, 3, 4
 - e. ID fan motor drawing – Unit 1, 2, 3, 4
 - f. ID fan motor data sheet, nameplate – Unit 2, 3, 4

- g. ID fan fluid coupling drawing – Unit 1, 2, 3, 4
 - h. ID fan fluid coupling data sheet and/or the following – Unit 1, 2, 3, 4
 - Manufacturer
 - Model name/number and/or drive size
 - Heat exchanger drawing and data sheet
 - Arrangement drawing showing fan and motor coupled
 - i. Booster fan performance curve – Unit 1 & 2
 - j. Booster fan arrangement drawing – Unit 1 & 2
 - k. Booster fan motor drawing – Unit 1 & 2
 - l. Booster fan motor data sheet, nameplate – Unit 1 & 2
 - m. Booster fan fluid coupling data sheet and/or the following – Unit 1 & 2
 - Manufacturer
 - Model name/number and/or drive size
 - Heat exchanger drawing and data sheet
 - Arrangement drawing showing fan and motor coupled
 - n. List of any major modifications or major repairs made to any existing FD, ID or Booster fans – All units, if any.
2. Duct Drawings
- a. Precipitator to ID fan ductwork transient design pressures in units of inches of water gauge – Unit 1, 2, 3, 4
 - b. ID fan to booster fan ductwork transient design pressures in units of inches of water gauge – Unit 1, 2, 3, 4
 - c. Ductwork drawing: ESP to ID fans – Unit 3 & 4
 - d. Ductwork drawing: ID fans to FGD Scrubbers – Unit 4
 - e. Ductwork drawing: FGD Scrubbers to Stack – Unit 4
3. Air Heaters – unit 1, 2, 3, 4
- a. Air heater transient design pressures in units of inches of water gauge
 - b. Air heater leakage percentage and/or the following
 - Air heater gas outlet oxygen percentage, wet basis
 - Air heater gas outlet oxygen percentage, dry basis
 - c. General arrangement drawings
 - d. Original / Operating performance data (data sheets)
 - e. List of any major modifications or major repairs made to the existing air heater – All units, if any.
4. Steam Coil Air Heaters - Units 1, 2, 3, 4
- a. Original data sheets
 - b. General arrangement drawings
5. SCR System
- a. SCR transient design pressures in units of inches of water gauge – Unit 3 & 4
6. Boiler
- a. Boiler steam cycle heat balance – Unit 3 & 4
 - b. Boiler loss on ignition (LOI) percentage – Unit 1, 2, 3, 4
 - c. Boiler transient design pressures in units of inches of water gauge – Unit 1, 2, 3, 4
 - d. Excess air percentage at economizer outlet and/or the following – Unit 1, 2, 3, 4
 - Economizer outlet oxygen percentage, wet basis
 - Economizer outlet oxygen percentage, dry basis
7. Precipitators (ESP's)
- a. Precipitator transient design pressures in units of inches of water gauge – Unit 1, 2, 3, 4
 - b. Precipitator leakage percentage and/or the following – Unit 1, 2, 3, 4
 - Precipitator gas outlet oxygen percentage, wet basis
 - Precipitator gas outlet oxygen percentage, dry basis
8. Stack
- a. Stack gas outlet oxygen percentage, wet basis or stack gas outlet oxygen percentage, dry basis – Unit 1, 2, 3, 4.
9. FGD Scrubbers
- a. Scrubber transient design pressures in units of inches of water gauge – Unit 1, 2, 3, 4

From: Straight, Scott
To: Voyles, John
CC: Bowling, Ralph
Sent: 10/13/2010 3:22:02 PM
Subject: FW: Environmental Compliance-DRAFT
Attachments: Environmental Summay alternate scenario Rev4 - Pras (4) 10-13-10.xlsx

John,

Keeping you in the loop on execution information provided to Rates for the air compliance projects. The initial major commitment dates for many of the projects are sooner than the CCN's will be obtained.

Please have Janice schedule a meeting if you want me to run through this with you.

Scott

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

| | A | C | D | E | F | G | H | I | J |
|----|--|---------------------|-------------------|------------------------|--------------------------|-----------------|-----------------|------------------|------------------|
| 1 | Environmental Air - CATR by January 2015, NAAQS by January 2016, HAPs by January 2017 | | | | DRAFT | | | | |
| 2 | \$ in thousands | | | | | | | | |
| 3 | | Capital Cost | ECR Filing | portable Docume | st Major Commitme | 2011 | 2012 | 2013 | 2014 |
| 4 | Alternate Plan | | | | | | | | |
| 5 | Brown | | | | | | | | |
| 6 | Brown 1 - SCR | \$59,000 | Dec-10 | | See BR- Unit 2 | \$2,950 | \$17,700 | \$23,600 | \$14,750 |
| 7 | Brown 1 - Baghouse | \$34,000 | Dec-10 | | See BR- Unit 2 | \$1,700 | \$11,900 | \$13,600 | \$6,800 |
| 8 | Brown 1 - PAC Injection | \$1,599 | Apr-12 | | See BR- Unit 2 | | | \$800 | \$800 |
| 10 | Brown 1 - SAM Mitigation | \$4,000 | Dec-10 | | | \$200 | \$1,200 | \$1,600 | \$1,000 |
| 12 | Brown 1 - Escalation | \$15,476 | | | | \$371 | \$3,679 | \$6,504 | \$4,922 |
| 13 | Total Brown 1 | \$114,075 | | | | \$5,221 | \$34,479 | \$46,103 | \$28,272 |
| 14 | | | | | | | | | |
| 15 | Brown 2 - SCR | \$92,000 | Dec-10 | | May, 2011 | \$9,200.0 | \$34,500 | \$43,700 | \$4,600 |
| 16 | Brown 2 - Baghouse | \$34,000 | Jul-11 | | May, 2011 | | \$1,360 | \$10,200 | \$10,880 |
| 17 | Brown 2 - PAC Injection | \$2,476 | Apr-13 | | May, 2011 | | | | \$1,238 |
| 20 | Brown 2 - SAM Mitigation | \$4,000 | Dec-10 | | | \$200 | \$1,600 | \$2,200 | |
| 22 | Brown 2 - Escalation | \$21,300 | | | | \$718 | \$4,475 | \$9,214 | \$3,524 |
| 23 | Total Brown 2 | \$153,776 | | | | \$10,118 | \$41,935 | \$65,314 | \$20,242 |
| 24 | | | | | | | | | |
| 27 | Brown 3 - Baghouse | \$61,000 | Apr-12 | | See BR- Unit 2 | | | \$1,830 | \$21,350 |
| 28 | Brown 3 - PAC Injection | \$5,426 | Apr-13 | | See BR- Unit 2 | | | | \$1,000 |
| 31 | Brown 3 - Escalation | \$16,475 | | | See BR- Unit 2 | \$0 | \$0 | \$301 | \$4,711 |
| 32 | Total Brown 3 | \$82,901 | | | | \$0 | \$0 | \$2,131 | \$27,061 |
| 33 | | | | | | | | | |
| 34 | Total Brown | \$350,751 | | | | \$15,339 | \$76,414 | \$113,547 | \$75,575 |
| 35 | | | | | | | | | |
| 36 | Ghent | | | | | | | | |
| 37 | Ghent 1 - Baghouse | \$131,000 | Apr-12 | | See GH-Unit 2 | | | \$3,930 | \$45,850 |
| 38 | Ghent 1 - PAC Injection | \$6,380 | Apr-13 | | See GH-Unit 2 | | | | \$1,000 |
| 42 | Ghent 1 - Escalation | \$34,012 | | | | \$0 | \$0 | \$645 | \$9,876 |
| 43 | Total Ghent 1 | \$171,392 | | | | \$0 | \$0 | \$4,575 | \$56,726 |
| 44 | | | | | | | | | |
| 45 | Ghent 2 - SCR | \$227,000 | Dec-10 | | June, 2011 | \$11,350 | \$68,100 | \$90,800 | \$56,750 |
| 46 | Ghent 2 - Baghouse | \$120,000 | Apr-12 | | June, 2011 | | | \$4,800 | \$42,000 |
| 47 | Ghent 2 - PAC Injection | \$6,109 | Apr-13 | | June, 2011 | | | | \$1,000 |
| 52 | Ghent 2 - Escalation | \$66,928 | | | | \$867 | \$8,135 | \$15,701 | \$21,028 |
| 53 | Total Ghent 2 | \$420,037 | | | | \$12,217 | \$76,235 | \$111,301 | \$120,778 |
| 54 | | | | | | | | | |
| 55 | Ghent 3 - Baghouse | \$138,000 | Apr-12 | | See GH-Unit 2 | | | \$16,560 | \$48,300 |
| 56 | Ghent 3 - PAC Injection | \$6,173 | Apr-13 | | See GH-Unit 2 | | | | \$3,087 |
| 60 | Ghent 3 - Escalation | \$33,660 | | | See GH-Unit 2 | \$0 | \$0 | \$2,720 | \$10,832 |
| 61 | Total Ghent 3 | \$177,833 | | | | \$0 | \$0 | \$19,280 | \$62,219 |
| 62 | | | | | | | | | |
| 63 | Ghent 4 - Baghouse | \$117,000 | Apr-12 | | See GH-Unit 2 | | | \$11,700 | \$40,950 |
| 64 | Ghent 4 - PAC Injection | \$6,210 | Apr-13 | | See GH-Unit 2 | | | | \$3,105 |
| 68 | Ghent 4 - Escalation | \$28,990 | | | | \$0 | \$0 | \$1,922 | \$9,287 |
| 69 | Total Ghent 4 | \$152,200 | | | | \$0 | \$0 | \$13,622 | \$53,342 |
| 70 | | | | | | | | | |
| 71 | Total Ghent | \$921,461 | | | | \$12,217 | \$76,235 | \$148,777 | \$293,065 |
| 72 | | | | | | | | | |

| | K | L | M | N | O | P |
|----|-----------|----------|------|------|-----------|-----|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | 2015 | 2016 | 2017 | 2018 | Total | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | \$59,000 | \$0 |
| 7 | | | | | \$34,000 | \$0 |
| 8 | | | | | \$1,599 | \$0 |
| 10 | | | | | \$4,000 | \$0 |
| 12 | | | | | \$15,476 | \$0 |
| 13 | \$0 | \$0 | \$0 | \$0 | \$114,075 | \$0 |
| 14 | | | | | | |
| 15 | | | | | \$92,000 | \$0 |
| 16 | \$10,540 | \$1,020 | | | \$34,000 | \$0 |
| 17 | \$1,238 | | | | \$2,476 | \$0 |
| 20 | | | | | \$4,000 | \$0 |
| 22 | \$3,053 | \$316 | | | \$21,300 | \$0 |
| 23 | \$14,831 | \$1,336 | \$0 | \$0 | \$153,776 | \$0 |
| 24 | | | | | | |
| 27 | \$28,670 | \$9,150 | | | \$61,000 | \$0 |
| 28 | \$3,426 | \$1,000 | | | \$5,426 | \$0 |
| 31 | \$8,320 | \$3,142 | | | \$16,475 | \$0 |
| 32 | \$40,416 | \$13,292 | \$0 | \$0 | \$82,901 | \$0 |
| 33 | | | | | | |
| 34 | \$55,248 | \$14,628 | \$0 | \$0 | \$350,751 | \$0 |
| 35 | | | | | | |
| 36 | | | | | | |
| 37 | \$61,570 | \$19,650 | | | \$131,000 | \$0 |
| 38 | \$4,380 | \$1,000 | | | \$6,380 | \$0 |
| 42 | \$17,097 | \$6,393 | | | \$34,012 | \$0 |
| 43 | \$83,047 | \$27,043 | \$0 | \$0 | \$171,392 | \$0 |
| 44 | | | | | | |
| 45 | | | | | \$227,000 | \$0 |
| 46 | \$56,400 | \$16,800 | | | \$120,000 | \$0 |
| 47 | \$4,109 | \$1,000 | | | \$6,109 | \$0 |
| 52 | \$15,686 | \$5,511 | | | \$66,928 | \$0 |
| 53 | \$76,195 | \$23,311 | \$0 | \$0 | \$420,037 | \$0 |
| 54 | | | | | | |
| 55 | \$66,240 | \$6,900 | | | \$138,000 | \$0 |
| 56 | \$3,087 | | | | \$6,173 | \$0 |
| 60 | \$17,972 | \$2,136 | | | \$33,660 | \$0 |
| 61 | \$87,298 | \$9,036 | \$0 | \$0 | \$177,833 | \$0 |
| 62 | | | | | | |
| 63 | \$58,500 | \$5,850 | | | \$117,000 | \$0 |
| 64 | \$3,105 | | | | \$6,210 | \$0 |
| 68 | \$15,970 | \$1,811 | \$0 | \$0 | \$28,990 | \$0 |
| 69 | \$77,575 | \$7,661 | \$0 | \$0 | \$152,200 | \$0 |
| 70 | | | | | | |
| 71 | \$324,115 | \$67,052 | \$0 | \$0 | \$921,461 | \$0 |
| 72 | | | | | | |

| | A | C | D | E | F | G | H | I | J |
|-----|--|--------------------|--------|---|----------------|-----------------|------------------|------------------|------------------|
| 73 | Mill Creek | | | | | | | | |
| 74 | Mill Creek 1 - FGD Upgrade | \$41,250 | Apr-12 | | June, 2011 | | | \$10,313 | \$28,875 |
| 75 | Mill Creek 1 - SCR | \$97,020 | Apr-12 | | December, 2011 | | | \$2,911 | \$27,166 |
| 76 | Mill Creek 1 - Baghouse | \$80,850 | Jul-11 | | See MC-Unit 4 | | \$8,085 | \$28,298 | \$40,425 |
| 77 | Mill Creek 1 - Electrostatic Precipitator | \$0 | | | See MC-Unit 4 | | \$0 | \$0 | \$0 |
| 78 | Mill Creek 1 - PAC Injection | \$4,290 | Jul-11 | | See MC-Unit 4 | | \$429 | \$1,502 | \$2,360 |
| 81 | Mill Creek 1 - SAM Mitigation | \$7,920 | Apr-12 | | | | | \$396 | \$792 |
| 83 | Mill Creek 1 - Escalation | \$52,077 | | | | \$0 | \$1,017 | \$7,131 | \$21,000 |
| 84 | Total Mill Creek 1 | \$283,407 | | | | \$0 | \$9,531 | \$50,549 | \$120,617 |
| 85 | | | | | | | | | |
| 86 | Mill Creek 2 - FGD Upgrade | \$41,250 | Jul-11 | | June, 2011 | | \$10,313 | \$28,875 | \$2,063 |
| 87 | Mill Creek 2 - SCR | \$97,020 | Jul-11 | | December, 2011 | | \$2,911 | \$27,166 | \$29,106 |
| 88 | Mill Creek 2 - Baghouse | \$80,850 | Dec-10 | | See MC-Unit 4 | \$8,085 | \$28,298 | \$40,425 | \$4,043 |
| 89 | Mill Creek 2 - Electrostatic Precipitator | \$33,000 | Dec-10 | | See MC-Unit 4 | \$3,300 | \$11,550 | \$16,500 | \$1,650 |
| 90 | Mill Creek 2 - PAC Injection | \$4,290 | Dec-10 | | See MC-Unit 4 | \$429 | \$1,502 | \$2,360 | |
| 91 | Mill Creek 2 - SAM Mitigation | \$7,920 | Jul-11 | | | | \$396 | \$792 | \$2,376 |
| 92 | Mill Creek 2 - Escalation | \$45,866 | | | | \$903 | \$6,566 | \$19,070 | \$8,271 |
| 93 | Total Mill Creek 2 | \$310,196 | | | | \$12,717 | \$61,534 | \$135,188 | \$47,508 |
| 94 | | | | | | | | | |
| 97 | Mill Creek 3 - FGD (U4 update and tie in) | \$63,750 | Apr-13 | | June, 2011 | | | | \$47,813 |
| 98 | Mill Creek 3 - FGD (Unit 3 Removal) | \$25,500 | Apr-13 | | See MC-Unit 4 | | | | \$6,375 |
| 99 | Mill Creek 3 - Baghouse | \$104,125 | Jul-11 | | See MC-Unit 4 | | \$2,083 | \$31,238 | \$39,568 |
| 100 | Mill Creek 3 - PAC Injection | \$5,525 | Jul-11 | | See MC-Unit 4 | | \$111 | \$1,658 | \$2,100 |
| 101 | Mill Creek 3 - Escalation | \$43,488 | | | | \$0 | \$262 | \$5,402 | \$20,206 |
| 102 | Total Mill Creek 3 | \$242,388 | | | | \$0 | \$2,455 | \$38,297 | \$116,061 |
| 103 | | | | | | | | | |
| 104 | Mill Creek 4 - FGD | \$236,250 | Dec-10 | | March, 2011 | \$18,900 | \$80,325 | \$89,775 | \$47,250 |
| 105 | Mill Creek 4 - SCR Upgrade | \$5,250 | Dec-10 | | June, 2011 | \$4,200 | \$1,050 | | |
| 106 | Mill Creek 4 - Baghouse | \$131,250 | Dec-10 | | March, 2011 | \$5,250 | \$45,938 | \$52,500 | \$27,563 |
| 107 | Mill Creek 4 - PAC Injection | \$6,825 | Dec-10 | | March, 2011 | \$273 | \$2,389 | \$2,730 | \$1,433 |
| 108 | Mill Creek 4 - Ammonia | \$10,500 | Dec-10 | | June, 2011 | \$5,250 | \$5,250 | | |
| 109 | Mill Creek 4 - Escalation | \$58,596 | | | | \$2,588 | \$16,121 | \$23,815 | \$16,073 |
| 110 | Total Mill Creek 4 | \$448,671 | | | | \$36,461 | \$151,072 | \$168,820 | \$92,319 |
| 111 | | | | | | | | | |
| 112 | Total Mill Creek | \$1,284,663 | | | | \$49,177 | \$224,592 | \$392,854 | \$376,505 |
| 113 | | | | | | | | | |
| 114 | Trimble | | | | | | | | |
| 115 | Trimble 1 - Baghouse | \$128,000 | Apr-12 | | December, 2012 | | | \$12,800 | \$44,800 |
| 116 | Trimble 1 - PAC Injection | \$6,451 | Apr-13 | | December, 2012 | | | | \$3,226 |
| 117 | Trimble 1 - Escalation | \$31,635 | | | | \$0 | \$0 | \$2,102 | \$10,124 |
| 118 | Total Trimble 1 | \$166,086 | | | | \$0 | \$0 | \$14,902 | \$58,149 |
| 119 | | | | | | | | | |
| 120 | Total Trimble | \$166,086 | | | | \$0 | \$0 | \$14,902 | \$58,149 |
| 121 | | | | | | | | | |
| 122 | Total Environmental Compliance Air - Alternate Plan | \$2,722,961 | | | | \$76,733 | \$377,241 | \$670,080 | \$803,294 |
| 123 | | | | | | | | | |
| 124 | | | | | | | | | |
| 125 | Scope | \$2,274,459 | | | | | | | |
| 126 | Escalation | \$448,502 | | | | | | | |
| 127 | | \$2,722,961 | | | | | | | |

| | K | L | M | N | O | P |
|-----|------------------|------------------|----------------|------------|--------------------|------------|
| 73 | | | | | | |
| 74 | \$2,063 | | | | \$41,250 | \$0 |
| 75 | \$29,106 | \$35,897 | \$1,940 | | \$97,020 | \$0 |
| 76 | \$4,043 | | | | \$80,850 | \$0 |
| 77 | \$0 | | | | \$0 | \$0 |
| 78 | | | | | \$4,290 | \$0 |
| 81 | \$2,376 | \$3,960 | \$396 | | \$7,920 | \$0 |
| 83 | \$9,744 | \$12,340 | \$846 | | \$52,077 | \$0 |
| 84 | \$47,331 | \$52,197 | \$3,182 | \$0 | \$283,407 | \$0 |
| 85 | | | | | | |
| 86 | | | | | \$41,250 | \$0 |
| 87 | \$35,897 | \$1,940 | | | \$97,020 | \$0 |
| 88 | | | | | \$80,850 | \$0 |
| 89 | | | | | \$33,000 | \$0 |
| 90 | | | | | \$4,290 | \$0 |
| 91 | \$3,960 | \$396 | | | \$7,920 | \$0 |
| 92 | \$10,332 | \$723 | \$0 | | \$45,866 | \$0 |
| 93 | \$50,190 | \$3,060 | \$0 | \$0 | \$310,196 | \$0 |
| 94 | | | | | | |
| 97 | \$15,938 | | | | \$63,750 | \$0 |
| 98 | \$19,125 | | | | \$25,500 | \$0 |
| 99 | \$31,238 | | | | \$104,125 | \$0 |
| 100 | \$1,658 | | | | \$5,525 | \$0 |
| 101 | \$17,617 | \$0 | | | \$43,488 | \$0 |
| 102 | \$85,575 | \$0 | \$0 | \$0 | \$242,388 | \$0 |
| 103 | | | | | | |
| 104 | | | | | \$236,250 | \$0 |
| 105 | | | | | \$5,250 | \$0 |
| 106 | | | | | \$131,250 | \$0 |
| 107 | | | | | \$6,825 | \$0 |
| 108 | | | | | \$10,500 | \$0 |
| 109 | \$0 | | | | \$58,596 | \$0 |
| 110 | \$0 | \$0 | \$0 | \$0 | \$448,671 | \$0 |
| 111 | | | | | | |
| 112 | \$183,095 | \$55,257 | \$3,182 | \$0 | \$1,284,663 | \$0 |
| 113 | | | | | | |
| 114 | | | | | | |
| 115 | \$64,000 | \$6,400 | | | \$128,000 | \$0 |
| 116 | \$3,226 | | | | \$6,451 | \$0 |
| 117 | \$17,427 | \$1,981 | | | \$31,635 | \$0 |
| 118 | \$84,653 | \$8,381 | \$0 | \$0 | \$166,086 | \$0 |
| 119 | | | | | | |
| 120 | \$84,653 | \$8,381 | \$0 | \$0 | \$166,086 | \$0 |
| 121 | | | | | | |
| 122 | \$647,111 | \$145,319 | \$3,182 | \$0 | \$2,722,961 | \$0 |
| 123 | | | | | | |
| 124 | | | | | | |
| 125 | | | | | | |
| 126 | | | | | | |
| 127 | | | | | | |

| | A | C | D | E | F | G | H | I | J |
|-----|---|---|---|---|---|---|------|------|------|
| 128 | | | | | | | | | |
| 129 | | | | | | | | | |
| 130 | | | | | | | | | |
| 131 | | | | | | | | | |
| 132 | | | | | | | | | |
| 133 | | | | | | | | | |
| 134 | | | | | | | 3.5% | 3.5% | 3.5% |
| 135 | | | | | | | 1 | 2 | 3 |

| | K | L | M | N | O | P |
|-----|------|------|------|------|------|---|
| 128 | | | | | | |
| 129 | | | | | | |
| 130 | | | | | | |
| 131 | | | | | | |
| 132 | | | | | | |
| 133 | | | | | | |
| 134 | 3.5% | 3.5% | 3.5% | 3.5% | 3.5% | |
| 135 | 4 | 5 | 6 | 7 | 8 | |

| | A | B | D | E | F | G | H | I | J | K | L | M | N |
|----|---|--|-----------|---|----------|----------|----------|----------|----------|----------|---------|------|-----------|
| 1 | | Environmental Air - CATR by January 2015, NAAQS by January 2016, HAPs by January 2017 | | | | | | | | | | | |
| 2 | | \$ in thousands | | | | | | | | | | | |
| 3 | | Capital Cost | | | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | Total |
| 4 | | Alternate Plan | | | | | | | | | | | |
| 5 | 1 | Brown 1 - SCR | \$59,000 | | \$2,950 | \$17,700 | \$23,600 | \$14,750 | | | | | \$59,000 |
| 6 | 1 | Brown 1 - Baghouse | \$34,000 | | \$1,700 | \$11,900 | \$13,600 | \$6,800 | | | | | \$34,000 |
| 7 | 1 | Brown 1 - SAM Mitigation | \$4,000 | | \$200 | \$1,200 | \$1,600 | \$1,000 | | | | | \$4,000 |
| 10 | 1 | Brown 2 - SCR | \$92,000 | | \$9,200 | \$34,500 | \$43,700 | \$4,600 | | | | | \$92,000 |
| 11 | 1 | Brown 2 - SAM Mitigation | \$4,000 | | \$200 | \$1,600 | \$2,200 | | | | | | \$4,000 |
| 12 | 1 | Ghent 2 - SCR | \$227,000 | | \$11,350 | \$68,100 | \$90,800 | \$56,750 | | | | | \$227,000 |
| 16 | 1 | Mill Creek 2 - Baghouse | \$80,850 | | \$8,085 | \$28,298 | \$40,425 | \$4,043 | | | | | \$80,850 |
| 19 | 1 | Mill Creek 2 - Electrostatic Precipitator | \$33,000 | | \$3,300 | \$11,550 | \$16,500 | \$1,650 | | | | | \$33,000 |
| 20 | 1 | Mill Creek 2 - PAC Injection | \$4,290 | | \$429 | \$1,502 | \$2,360 | | | | | | \$4,290 |
| 23 | 1 | Mill Creek 4 - FGD | \$236,250 | | \$18,900 | \$80,325 | \$89,775 | \$47,250 | | | | | \$236,250 |
| 24 | 1 | Mill Creek 4 - SCR Upgrade | \$5,250 | | \$4,200 | \$1,050 | | | | | | | \$5,250 |
| 28 | 1 | Mill Creek 4 - Baghouse | \$131,250 | | \$5,250 | \$45,938 | \$52,500 | \$27,563 | | | | | \$131,250 |
| 29 | 1 | Mill Creek 4 - PAC Injection | \$6,825 | | \$273 | \$2,389 | \$2,730 | \$1,433 | | | | | \$6,825 |
| 30 | 1 | Mill Creek 4 - Ammonia | \$10,500 | | \$5,250 | \$5,250 | | | | | | | \$10,500 |
| 35 | 2 | Brown 2 - Baghouse | \$34,000 | | | \$1,360 | \$10,200 | \$10,880 | \$10,540 | \$1,020 | | | \$34,000 |
| 36 | 2 | Mill Creek 1 - Baghouse | \$80,850 | | | \$8,085 | \$28,298 | \$40,425 | \$4,043 | | | | \$80,850 |
| 37 | 2 | Mill Creek 1 - PAC Injection | \$4,290 | | | \$429 | \$1,502 | \$2,360 | | | | | \$4,290 |
| 41 | 2 | Mill Creek 2 - FGD Upgrade | \$41,250 | | | \$10,313 | \$28,875 | \$2,063 | | | | | \$41,250 |
| 42 | 2 | Mill Creek 2 - SCR | \$97,020 | | | \$2,911 | \$27,166 | \$29,106 | \$35,897 | \$1,940 | | | \$97,020 |
| 46 | 2 | Mill Creek 2 - SAM Mitigation | \$7,920 | | | \$396 | \$792 | \$2,376 | \$3,960 | \$396 | | | \$7,920 |
| 47 | 2 | Mill Creek 3 - Baghouse | \$104,125 | | | \$2,083 | \$31,238 | \$39,568 | \$31,238 | | | | \$104,125 |
| 48 | 2 | Mill Creek 3 - PAC Injection | \$5,525 | | | \$111 | \$1,658 | \$2,100 | \$1,658 | | | | \$5,525 |
| 49 | 3 | Brown 1 - PAC Injection | \$1,599 | | | | \$800 | \$800 | | | | | \$1,599 |
| 50 | 3 | Brown 3 - Baghouse | \$61,000 | | | | \$1,830 | \$21,350 | \$28,670 | \$9,150 | | | \$61,000 |
| 53 | 3 | Ghent 1 - Baghouse | \$131,000 | | | | \$3,930 | \$45,850 | \$61,570 | \$19,650 | | | \$131,000 |
| 55 | 3 | Ghent 2 - Baghouse | \$120,000 | | | | \$4,800 | \$42,000 | \$56,400 | \$16,800 | | | \$120,000 |
| 56 | 3 | Ghent 3 - Baghouse | \$138,000 | | | | \$16,560 | \$48,300 | \$66,240 | \$6,900 | | | \$138,000 |
| 57 | 3 | Ghent 4 - Baghouse | \$117,000 | | | | \$11,700 | \$40,950 | \$58,500 | \$5,850 | | | \$117,000 |
| 58 | 3 | Mill Creek 1 - FGD Upgrade | \$41,250 | | | | \$10,313 | \$28,875 | \$2,063 | | | | \$41,250 |
| 59 | 3 | Mill Creek 1 - SCR | \$97,020 | | | | \$2,911 | \$27,166 | \$29,106 | \$35,897 | \$1,940 | | \$97,020 |
| 60 | 3 | Mill Creek 1 - SAM Mitigation | \$7,920 | | | | \$396 | \$792 | \$2,376 | \$3,960 | \$396 | | \$7,920 |
| 63 | 3 | Trimble 1 - Baghouse | \$128,000 | | | | \$12,800 | \$44,800 | \$64,000 | \$6,400 | | | \$128,000 |
| 64 | 4 | Brown 2 - PAC Injection | \$2,476 | | | | | \$1,238 | \$1,238 | | | | \$2,476 |
| 65 | 4 | Brown 3 - PAC Injection | \$5,426 | | | | | \$1,000 | \$3,426 | \$1,000 | | | \$5,426 |
| 66 | 4 | Ghent 1 - PAC Injection | \$6,380 | | | | | \$1,000 | \$4,380 | \$1,000 | | | \$6,380 |
| 67 | 4 | Ghent 2 - PAC Injection | \$6,109 | | | | | \$1,000 | \$4,109 | \$1,000 | | | \$6,109 |
| 68 | 4 | Ghent 3 - PAC Injection | \$6,173 | | | | | \$3,087 | \$3,087 | | | | \$6,173 |
| 69 | 4 | Ghent 4 - PAC Injection | \$6,210 | | | | | \$3,105 | \$3,105 | | | | \$6,210 |
| 70 | 4 | Mill Creek 3 - FGD (U4 update and tie in) | \$63,750 | | | | | \$47,813 | \$15,938 | | | | \$63,750 |
| 71 | 4 | Mill Creek 3 - FGD (Unit 3 Removal) | \$25,500 | | | | | \$6,375 | \$19,125 | | | | \$25,500 |
| 72 | 4 | Trimble 1 - PAC Injection | \$6,451 | | | | | \$3,226 | \$3,226 | | | | \$6,451 |
| 73 | | | | | | | | | | | | | |
| 74 | | | | | | | | | | | | | |
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| 76 | | | | | | | | | | | | | |
| 77 | | | | | | | | | | | | | |
| 78 | | | | | | | | | | | | | |
| 79 | | | | | 3.5% | 3.5% | 3.5% | 3.5% | 3.5% | 3.5% | 3.5% | 3.5% | |
| 80 | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |

From: Hillman, Timothy M.
To: Saunders, Eileen
CC: Wehry, M. R.; Hintz, Monty E.; Lucas, Kyle J.; Lausman, Rick L.; Crabtree, Jonathan D.; Mahabaleshwarkar, Anand
Sent: 9/9/2010 9:37:39 AM
Subject: E.ON Mill Creek Kickoff Meeting - Draft Agenda
Attachments: EON Mill Creek Kickoff Meeting Agenda.doc

Eileen,

I drafted and routed the attached agenda for my team's review yesterday, requesting comments by the end of today (9/9). Please review and advise of any E.ON comments or revisions. I will then revise the agenda based on E.ON's and B&V's comments and send a final agenda to you tomorrow (Friday, 9/10) for distribution.

A couple questions:

- On Sep 15th and 16th, would it be possible to have lunch on-site at Mill Creek, or will we need to go off-site?
- Does Mill Creek have a PC projector that we can use?

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 09, 2010 7:53 AM
To: Hillman, Timothy M.
Subject: Re: Draft AQCS Contract - Notice To Proceed

Tim,

Last time we met as a group, you sent me a sample agenda that I modified. Can you send me a draft that I can review? I would like to send something to the plant tomorrow.

Thanks,

Eileen

From: Hillman, Timothy M. <HillmanTM@bv.com>
To: Whitworth, Wayne
Cc: Saunders, Eileen; Clements, Joe; King, Michael L. (Mike) <kingml@bv.com>; Pollins, Kent D. <PollinsKD@bv.com>
Sent: Thu Sep 09 08:48:00 2010
Subject: RE: Draft AQCS Contract - Notice To Proceed

Thanks Wayne.

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: Whitworth, Wayne [mailto:Wayne.Whitworth@eon-us.com]
Sent: Thursday, September 09, 2010 7:42 AM
To: Hillman, Timothy M.
Cc: Saunders, Eileen; Clements, Joe; King, Michael L. (Mike); Pollins, Kent D.
Subject: RE: Draft AQCS Contract - Notice To Proceed
Importance: High

Tim,

Attached is an executed copy of the AQCS Contract. The duplicate original will be sent to you today via UPS Next Day Air. Please note that a number will be assigned to this contract prior to your first billing. The contract number will need to be included on all invoices.

Thanks for all your help. If you have any questions, please don't hesitate to call.

Best regards,

W. Wayne Whitworth

Project Engineering
E-ON U.S. Services Inc.
820 West Broadway
P.O. Box 32020
Louisville, KY 40202

email: wayne.whitworth@eon-us.com

Office: 502.627.2641
Fax: 502.217.2843
Cell: 502.762.6614

From: Hillman, Timothy M. [mailto:HillmanTM@bv.com]
Sent: Wednesday, September 08, 2010 10:04 AM
To: Whitworth, Wayne
Cc: Saunders, Eileen; Clements, Joe; King, Michael L. (Mike); Pollins, Kent D.
Subject: RE: Draft AQCS Contract - Notice To Proceed

Wayne,

I understand that the contract has been signed and that originals were sent to you via FedEx yesterday.

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: Whitworth, Wayne [mailto:Wayne.Whitworth@eon-us.com]
Sent: Tuesday, September 07, 2010 9:01 AM
To: Hillman, Timothy M.
Cc: Saunders, Eileen; Clements, Joe; King, Michael L. (Mike)
Subject: RE: Draft AQCS Contract - Notice To Proceed
Importance: High

Tim,

Please find attached our Contract Notice To Proceed for Phase II Air Quality Control Study incorporating your comments of September 1, 2010. Please print two copies, sign both as originals and return to my attention. A countersigned duplicate original will be returned for your records.

Note that the attached does not include a contract number. Our Contract Number will be assigned when the project is established in our accounting systems, anticipated to be later this week. The Contract Number must be included on all invoices presented for payment.

Eileen Saunders will be contacting you to arrange a project kick-off meeting to be held in Louisville sometime next week.

Should you have any questions, please do not hesitate to call.

Best regards,

W. Wayne Whitworth

Project Engineering
E-ON U.S. Services Inc.
820 West Broadway
P.O. Box 32020
Louisville, KY 40202

email: wayne.whitworth@eon-us.com

Office: 502.627.2641
Fax: 502.217.2843
Cell: 502.762.6614

From: Hillman, Timothy M. [mailto:HillmanTM@bv.com]
Sent: Wednesday, September 01, 2010 1:53 PM
To: Whitworth, Wayne
Cc: Saunders, Eileen; Clements, Joe; Pollins, Kent D.; King, Michael L. (Mike); Hillman, Timothy M.
Subject: RE: Draft AQCS Contract
Importance: High

Wayne,

Please find attached subject contract with a few minors edits/revisions in track-changes. You will find the track-changes on the following pages of the draft contract.

- Pg 2, Section 5.3
- Pg 3, Section 8.1
- Pg 4, Section 9.1.1
- Pg 4, Section 9.3.2
- Pg 17, Exhibit 1, Scope of work, Task 8

- Pg 20, Exhibit 1, Scope of work, Compensation

Don't hesitate to call me 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

From: Whitworth, Wayne [mailto:Wayne.Whitworth@eon-us.com]
Sent: Tuesday, August 31, 2010 11:34 AM
To: Hillman, Timothy M.
Cc: Saunders, Eileen; Clements, Joe
Subject: Draft AQCS Contract
Importance: High

Tim,

<<Contract DRAFT Black Veatch Rev 4 (8-27-2010-els) .docx>>

Attached is a draft for the Phase II Air Quality Control Study. Please let me know if you have any comments as we continue to seek the required approvals to proceed..

Regards

W. Wayne Whitworth

Project Engineering

E-ON U.S. Services Inc.

820 West Broadway

P.O. Box 32020

Louisville, KY 40202

email: wayne.whitworth@eon-us.com

Office: 502.627.2641

Fax: 502.217.2843

Cell: 502.762.6614

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DRAFT AGENDA

Phase II Air Quality Control Study – Kickoff Meeting and Site Visit

E.ON - Mill Creek Station

September 14 - 16, 2010

Location: E.ON Broadway Office Complex and Mill Creek

Day 1, September 14th, Arrive 1 pm (Broadway Office Complex)

- I. Introductions
- II. Review Project Scope
- III. Review Project Schedule
- IV. Review Project Deliverables
- V. Project Administration
 - a. Communication
 - b. File System
 - c. Monthly Reports
 - d. Weekly Conference Calls/Action Item List
 - e. Invoicing
- VI. Project Documentation
- VII. Information Request

Day 1, September 14th, Arrive 1 pm (Mill Creek)

- I. Arrive on Site and Introductions
- II. Begin Initial Escorted Site Walk Down

Day 2, September 15th, Arrive 8 am (Mill Creek)

- I. Introductions
- II. Environmental Drivers Presentation (E.ON – Gary R.)
- III. Aug 5-6th AQC Workshop Results Presentation (B&V – Rick L and Anand M.)
- IV. Lunch
- V. Continue Escorted Site Walk Down and Data Collection

Day 3, September 16th, Arrive 8 am (Mill Creek)

- I. Continue Escorted Site Walk Down and Data Collection
- II. Lunch
- III. Site Debriefing Meeting
- IV. Depart (no later than 4 pm)

From: Betz, Alex
To: Saunders, Eileen
Sent: 10/13/2010 4:22:56 PM
Subject: FW: 168908. 41.0100 101012 Mill Creek Information Request from PDM
Attachments: Table 1_04 Limestone Props.doc

Eileen,

I'm not sure who really takes care of buying the limestone for Mill Creek or if that is just done by one person or group downtown. I am not really sure what the values need to be in Table 1-4: whether or not we should use the % Guaranteed or the actual as measured in the sheets I submitted? Also, under the Bulk Density Design Basis, I don't have that information and am not sure who would. Do you know who handles buying the limestone or who might have that information?

Thanks,

Alex Betz

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

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,