

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 1 of 47

**EMISSION POINTS**

(4) Emission Point ID: 001 (5) Emission Point Description: CBEC 1 BOILER STACK

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 001 (8) SCC No: 10100222  
 (9) Description of Process: CBEC 1 BOILER - SUBBITUMINOUS COAL  
 (10) Raw Material: SUBBITUMINOUS COAL  
 (11) Actual Throughput (Yearly Total): 221,048.00  
 (12) Units Raw Material: TONS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>21.4</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>29.3</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>25.6</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>23.7</u>	<u>24</u>	<u>7</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

CE001

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

ME001A                      ME001B                      ME001C                      ME001D  
ME001E

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	4.69E-02	POUNDS PER MILLION BTU	OTHER - COMPLIANCE TEST PM			87.28
PARTICULATE MATTER	7.00E-02	POUNDS PER MILLION BTU	OTHER - COMPLIANCE TEST PM			130.27
SULFUR DIOXIDE			CEM			1,227.80
NITROGEN OXIDES			CEM			874.85
VOLATILE ORGANIC COMPOUNDS	6.00E-02	POUNDS PER TON	FIRE			6.63
CARBON MONOXIDE	5.00E-01	POUNDS PER TON	FIRE			55.26
LEAD						
PROPIONALDEHYDE	3.80E-04	POUNDS PER TON	FIRE			0.04
HYDROCHLORIC ACID	7.51E-02	POUNDS PER TON	OTHER - COAL ANALYSIS			8.30
HEXANE	6.70E-05	POUNDS PER TON	FIRE			0.01
HYDROGEN FLUORIDE	7.90E-02	POUNDS PER TON	OTHER - COAL ANALYSIS			8.73
DI(2-ETHYLHEXYL) PHTHALATE	7.30E-05	POUNDS PER TON	FIRE			0.01
METHYL ETHYL KETONE	3.90E-04	POUNDS PER TON	FIRE			0.04
FORMALDEHYDE	2.40E-04	POUNDS PER TON	FIRE			0.03
TOLUENE	2.40E-04	POUNDS PER TON	FIRE			0.03
METHYL CHLORIDE	5.30E-04	POUNDS PER TON	FIRE			0.06
ACROLEIN	2.90E-04	POUNDS PER TON	FIRE			0.03
BROMOMETHANE	1.60E-04	POUNDS PER TON	FIRE			0.02
BENZENE	1.30E-03	POUNDS PER TON	FIRE			0.14
ACETALDEHYDE	5.70E-04	POUNDS PER TON	FIRE			0.06
DICHLOROMETHANE	2.90E-04	POUNDS PER TON	FIRE			0.03
CARBON DISULFIDE	1.30E-04	POUNDS PER TON	FIRE			0.01

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
BENZYL CHLORIDE	7.00E-04	POUNDS PER TON	FIRE			0.08
CHLOROFORM	5.90E-05	POUNDS PER TON	FIRE			0.01
DIMETHYL SULFATE	4.80E-05	POUNDS PER TON	FIRE			0.01
ISOPHORONE	5.80E-04	POUNDS PER TON	FIRE			0.06
CYANIDE COMPOUNDS	2.50E-03	POUNDS PER TON	FIRE			0.28
ARSENIC COMPOUNDS	4.10E-04	POUNDS PER TON	FIRE			0.05
CADMIUM COMPOUNDS	5.10E-05	POUNDS PER TON	FIRE			0.01
COBALT COMPOUNDS	1.00E-04	POUNDS PER TON	FIRE			0.01
CHROMIUM COMPOUNDS	3.39E-04	POUNDS PER TON	FIRE			0.04
METHYL HYDRAZINE	1.70E-04	POUNDS PER TON	FIRE			0.02
MERCURY COMPOUNDS	9.01E-05	POUNDS PER TON	OTHER - COAL ANALYSIS			0.01
MANGANESE COMPOUNDS	4.90E-04	POUNDS PER TON	FIRE			0.05
NICKEL COMPOUNDS	2.80E-04	POUNDS PER TON	FIRE			0.03
LEAD COMPOUNDS	4.20E-04	POUNDS PER TON	FIRE			0.05
RADIONUCLIDES (INCLUDING RADON)	9.50E-02	POUNDS PER TON	OTHER - EPA-450			0.01
SELENIUM COMPOUNDS	1.30E-03	POUNDS PER TON	FIRE			0.14
ETHYLBENZENE	9.40E-05	POUNDS PER TON	FIRE			0.01

**SUPPORTING DOCUMENTS**

Supporting Documents:

Description:

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 3 of 47

**EMISSION POINTS**

(4) Emission Point ID: 001 (5) Emission Point Description: CBEC 1 BOILER STACK

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 001 (8) SCC No: 10100601  
 (9) Description of Process: CBEC 1 BOILER - NATURAL GAS  
 (10) Raw Material: NATURAL GAS  
 (11) Actual Throughput (Yearly Total): 15.19  
 (12) Units Raw Material: MILLION CUBIC FEET

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>21.4</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>29.3</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>25.6</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>23.7</u>	<u>24</u>	<u>7</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

CE001

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

ME001A                      ME001B                      ME001C                      ME001D  
ME001E

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	7.60E+00	POUNDS PER MILLION CUBIC FEET	FIRE			0.06
PARTICULATE MATTER	7.60E+00	POUNDS PER MILLION CUBIC FEET	FIRE			0.06
SULFUR DIOXIDE						
NITROGEN OXIDES						
VOLATILE ORGANIC COMPOUNDS	5.50E+01	POUNDS PER MILLION CUBIC FEET	FIRE			0.04
CARBON MONOXIDE	8.40E+01	POUNDS PER MILLION CUBIC FEET	FIRE			0.64
LEAD						
HEXANE	1.80E+00	POUNDS PER MILLION CUBIC FEET	FIRE			0.01

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 4 of 47

**EMISSION POINTS**

(4) Emission Point ID: 001 (5) Emission Point Description: CBEC 1 BOILER STACK

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 001 (8) SCC No: 10100501  
 (9) Description of Process: CBEC 1 BOILER - #2 FUEL OIL  
 (10) Raw Material: FUEL OIL #2  
 (11) Actual Throughput (Yearly Total): 0.00  
 (12) Units Raw Material: 1000 GALLONS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>APR</u>	<u>JUN</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>JUL</u>	<u>SEP</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>OCT</u>	<u>DEC</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

CE001

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

ME001A                      ME001B                      ME001C                      ME001D  
ME001E

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	1.00E+00	POUNDS PER 1000 GALLONS	FIRE			0.00
PARTICULATE MATTER	2.00E+00	POUNDS PER 1000 GALLONS	FIRE			0.00
SULFUR DIOXIDE						
NITROGEN OXIDES						
VOLATILE ORGANIC COMPOUNDS	2.00E-01	POUNDS PER 1000 GALLONS	FIRE			0.00
CARBON MONOXIDE	5.00E+00	POUNDS PER 1000 GALLONS	FIRE			0.00
LEAD						
LEAD COMPOUNDS	1.24E-03	POUNDS PER 1000 GALLONS	FIRE			0.00

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 5 of 47

**EMISSION POINTS**

(4) Emission Point ID: 002 (5) Emission Point Description: CBEC 2 BOILER STACK

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 002 (8) SCC No: 10100226  
 (9) Description of Process: CBEC 2 BOILER - SUBBITUMINOUS COAL  
 (10) Raw Material: SUBBITUMINOUS COAL  
 (11) Actual Throughput (Yearly Total): 341,946.00  
 (12) Units Raw Material: TONS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>27.4</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>19.3</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>26.8</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>26.5</u>	<u>24</u>	<u>7</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

CE002

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

ME002A                      ME002B                      ME002C                      ME002D  
ME002E

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	2.95E-02	POUNDS PER MILLION BTU	OTHER - COMPLIANCE TEST PM			84.97
PARTICULATE MATTER	4.40E-02	POUNDS PER MILLION CUBIC FEET	OTHER - COMPLIANCE TEST PM			126.73
SULFUR DIOXIDE			CEM			1,885.90
NITROGEN OXIDES			CEM			1,075.61
VOLATILE ORGANIC COMPOUNDS	6.00E-02	POUNDS PER TON	FIRE			10.26
CARBON MONOXIDE	5.00E-01	POUNDS PER TON	FIRE			85.49
LEAD						
DI(2-ETHYLHEXYL) PHTHALATE	7.30E-05	POUNDS PER TON	FIRE			0.01
METHYL CHLORIDE	5.30E-04	POUNDS PER TON	FIRE			0.09
TOLUENE	2.40E-04	POUNDS PER TON	FIRE			0.04
CHLOROETHANE	4.20E-05	POUNDS PER TON	FIRE			0.01
HEXANE	6.70E-05	POUNDS PER TON	FIRE			0.01
CARBON DISULFIDE	1.30E-04	POUNDS PER TON	FIRE			0.02
PROPIONALDEHYDE	3.80E-04	POUNDS PER TON	FIRE			0.06
1,2-DICHLOROETHANE	4.00E-05	POUNDS PER TON	FIRE			0.01
METHYL HYDRAZINE	1.70E-04	POUNDS PER TON	FIRE			0.03
ACROLEIN	2.90E-04	POUNDS PER TON	FIRE			0.05
FORMALDEHYDE	2.40E-04	POUNDS PER TON	FIRE			0.04
MERCURY COMPOUNDS	9.02E-05	POUNDS PER TON	OTHER - COAL ANALYSIS			0.02
CHLOROFORM	5.90E-05	POUNDS PER TON	FIRE			0.01
BENZENE	1.30E-03	POUNDS PER TON	FIRE			0.22
BROMOMETHANE	1.60E-04	POUNDS PER TON	FIRE			0.03

## FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
METHYL TERT BUTYL ETHER	3.50E-05	POUNDS PER TON	FIRE			0.01
BENZYL CHLORIDE	7.00E-04	POUNDS PER TON	FIRE			0.12
ACETALDEHYDE	5.70E-04	POUNDS PER TON	FIRE			0.10
DICHLOROMETHANE	2.90E-04	POUNDS PER TON	FIRE			0.05
METHYL ETHYL KETONE	3.90E-04	POUNDS PER TON	FIRE			0.07
BROMOFORM	3.90E-05	POUNDS PER TON	FIRE			0.01
HYDROCHLORIC ACID	7.52E-02	POUNDS PER TON	OTHER - COAL ANALYSIS			12.86
HYDROGEN FLUORIDE	7.91E-02	POUNDS PER TON	OTHER - COAL ANALYSIS			13.52
XYLENE (MIXED ISOMERS)	3.70E-05	POUNDS PER TON	FIRE			0.01
ISOPHORONE	5.80E-04	POUNDS PER TON	FIRE			0.10
DIMETHYL SULFATE	4.80E-05	POUNDS PER TON	FIRE			0.01
ARSENIC COMPOUNDS	4.10E-04	POUNDS PER TON	FIRE			0.07
CADMIUM COMPOUNDS	5.10E-05	POUNDS PER TON	FIRE			0.01
COBALT COMPOUNDS	1.00E-04	POUNDS PER TON	FIRE			0.02
CHROMIUM COMPOUNDS	3.39E-04	POUNDS PER TON	FIRE			0.06
CYANIDE COMPOUNDS	2.50E-03	POUNDS PER TON	FIRE			0.43
TETRACHLOROETHYLENE	4.30E-05	POUNDS PER TON	FIRE			0.01
MANGANESE COMPOUNDS	4.90E-04	POUNDS PER TON	FIRE			0.08
NICKEL COMPOUNDS	2.80E-04	POUNDS PER TON	FIRE			0.05
LEAD COMPOUNDS	4.20E-04	POUNDS PER TON	FIRE			0.07
POLYCYCLIC ORGANIC MATTER	2.40E-06	POUNDS PER MILLION BTU	FIRE			0.01
RADIONUCLIDES (INCLUDING RADON)	9.50E-02	POUNDS PER TON	OTHER - EPA-450			0.01
SELENIUM COMPOUNDS	1.30E-03	POUNDS PER TON	FIRE			0.22
ETHYLBENZENE	9.40E-05	POUNDS PER TON	FIRE			0.02

## SUPPORTING DOCUMENTS

Supporting Documents:

Description:

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 7 of 47

**EMISSION POINTS**

(4) Emission Point ID: 002 (5) Emission Point Description: CBEC 2 BOILER STACK

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 002 (8) SCC No: 10100604  
 (9) Description of Process: CBEC 2 BOILER - NATURAL GAS  
 (10) Raw Material: NATURAL GAS  
 (11) Actual Throughput (Yearly Total): 26.22  
 (12) Units Raw Material: MILLION CUBIC FEET

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>23</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>21.1</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>27.6</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>28.3</u>	<u>24</u>	<u>7</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

CE002

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

ME002A                      ME002B                      ME002C                      ME002D  
ME002E

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	7.60E+00	POUNDS PER MILLION CUBIC FEET	FIRE			0.10
PARTICULATE MATTER	7.60E+00	POUNDS PER MILLION CUBIC FEET	FIRE			0.10
SULFUR DIOXIDE			CEM			
NITROGEN OXIDES			CEM			
VOLATILE ORGANIC COMPOUNDS	5.50E+00	POUNDS PER MILLION CUBIC FEET	FIRE			0.07
CARBON MONOXIDE	2.40E+01	POUNDS PER MILLION CUBIC FEET	FIRE			0.31
LEAD						
HEXANE	1.80E+00	POUNDS PER MILLION CUBIC FEET	FIRE			0.02

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 8 of 47

**EMISSION POINTS**

(4) Emission Point ID: 002 (5) Emission Point Description: CBEC 2 BOILER STACK

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 002 (8) SCC No: 10100501  
 (9) Description of Process: CBEC 2 BOILER - #2 FUEL OIL  
 (10) Raw Material: FUEL OIL #2  
 (11) Actual Throughput (Yearly Total): 0.00  
 (12) Units Raw Material: 1000 GALLONS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>APR</u>	<u>JUN</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>JUL</u>	<u>SEP</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>OCT</u>	<u>DEC</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

CE002

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

ME002A                      ME002B                      ME002C                      ME002D  
ME002E

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	1.00E+00	POUNDS PER 1000 GALLONS	FIRE			0.00
PARTICULATE MATTER	2.00E+00	POUNDS PER 1000 GALLONS	FIRE			0.00
SULFUR DIOXIDE						
NITROGEN OXIDES						
VOLATILE ORGANIC COMPOUNDS	2.00E+00	POUNDS PER 1000 GALLONS	FIRE			0.00
CARBON MONOXIDE	5.00E+00	POUNDS PER 1000 GALLONS	FIRE			0.00
LEAD						
LEAD COMPOUNDS	1.24E-03	POUNDS PER 1000 GALLONS	FIRE			0.00

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 9 of 47

**EMISSION POINTS**

(4) Emission Point ID: 003 (5) Emission Point Description: CBEC 3 BOILER STACK

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 003 (8) SCC No: 10100222  
 (9) Description of Process: CBEC 3 BOILER - SUBBITUMINOUS COAL  
 (10) Raw Material: SUBBITUMINOUS COAL  
 (11) Actual Throughput (Yearly Total): 2,967,058.00  
 (12) Units Raw Material: TONS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>26.5</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>17.5</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>28.8</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>27.2</u>	<u>24</u>	<u>7</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

CE003 CE004

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

ME003A ME003B ME003C ME003D  
ME003E

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	1.72E-02	POUNDS PER MILLION BTU	OTHER - COMPLIANCE TEST PM			432.35
PARTICULATE MATTER	2.57E-02	POUNDS PER MILLION BTU	OTHER - COMPLIANCE TEST PM			646.02
SULFUR DIOXIDE			CEM			17,142.70
NITROGEN OXIDES			CEM			11,254.45
VOLATILE ORGANIC COMPOUNDS	6.00E-02	POUNDS PER TON	FIRE			89.01
CARBON MONOXIDE	5.00E-01	POUNDS PER TON	FIRE			741.76
LEAD						
TOLUENE	2.40E-05	POUNDS PER TON	FIRE			0.04
2-CHLOROACETOPHENONE	7.00E-06	POUNDS PER TON	FIRE			0.01
1,2-DICHLOROETHANE	4.00E-05	POUNDS PER TON	FIRE			0.06
CHROMIUM COMPOUNDS	3.39E-04	POUNDS PER TON	FIRE			0.50
VINYL ACETATE	7.00E-06	POUNDS PER TON	FIRE			0.01
1,1,1-TRICHLOROETHANE	2.00E-05	POUNDS PER TON	FIRE			0.03
CHLOROENZENE	2.20E-05	POUNDS PER TON	FIRE			0.03
ACROLEIN	2.90E-04	POUNDS PER TON	FIRE			0.43
TETRACHLOROETHYLENE	4.30E-05	POUNDS PER TON	FIRE			0.06
BENZYL CHLORIDE	7.00E-04	POUNDS PER TON	FIRE			1.04
PROPIONALDEHYDE	3.80E-04	POUNDS PER TON	FIRE			0.56
METHYL ETHYL KETONE	3.90E-04	POUNDS PER TON	FIRE			0.58
XYLENE (MIXED ISOMERS)	3.70E-05	POUNDS PER TON	FIRE			0.05
METHYL TERT BUTYL ETHER	3.50E-05	POUNDS PER TON	FIRE			0.05
FORMALDEHYDE	2.40E-04	POUNDS PER TON	FIRE			0.36

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
CYANIDE COMPOUNDS	2.50E-03	POUNDS PER TON	FIRE			3.71
METHYL HYDRAZINE	1.70E-04	POUNDS PER TON	FIRE			0.25
CHLOROFORM	5.90E-05	POUNDS PER TON	FIRE			0.09
BENZENE	1.30E-03	POUNDS PER TON	FIRE			1.93
ANTIMONY COMPOUNDS	1.80E-05	POUNDS PER TON	FIRE			0.03
BROMOMETHANE	1.60E-04	POUNDS PER TON	FIRE			0.24
METHYL CHLORIDE	5.30E-04	POUNDS PER TON	FIRE			0.79
CHLOROETHANE	4.20E-05	POUNDS PER TON	FIRE			0.06
DI(2-ETHYLHEXYL) PHTHALATE	7.30E-05	POUNDS PER TON	FIRE			0.11
STYRENE	2.50E-05	POUNDS PER TON	FIRE			0.04
BROMOFORM	3.90E-05	POUNDS PER TON	FIRE			0.06
CARBON DISULFIDE	1.30E-04	POUNDS PER TON	FIRE			0.19
HYDROCHLORIC ACID	7.53E-02	POUNDS PER TON	OTHER - COAL ANALYSIS			111.70
HYDROGEN FLUORIDE	7.92E-02	POUNDS PER TON	OTHER - COAL ANALYSIS			117.47
DIMETHYL SULFATE	4.80E-05	POUNDS PER TON	FIRE			0.07
ISOPHORONE	5.80E-04	POUNDS PER TON	FIRE			0.86
HEXANE	6.70E-05	POUNDS PER TON	FIRE			0.10
METHYL METHACRYLATE	2.00E-05	POUNDS PER TON	FIRE			0.03
CUMENE	5.30E-06	POUNDS PER TON	FIRE			0.01
ACETOPHENONE	1.50E-05	POUNDS PER TON	FIRE			0.02
ARSENIC COMPOUNDS	4.10E-04	POUNDS PER TON	FIRE			0.61
BERYLLIUM COMPOUNDS	2.10E-05	POUNDS PER TON	FIRE			0.03
CADMIUM COMPOUNDS	5.10E-05	POUNDS PER TON	FIRE			0.08
COBALT COMPOUNDS	1.00E-04	POUNDS PER TON	FIRE			0.15
DICHLOROMETHANE	2.90E-04	POUNDS PER TON	FIRE			0.43
ACETALDEHYDE	5.70E-04	POUNDS PER TON	FIRE			0.85
MERCURY COMPOUNDS	9.03E-05	POUNDS PER TON	OTHER - COAL ANALYSIS			0.13
MANGANESE COMPOUNDS	4.90E-04	POUNDS PER TON	FIRE			0.73
NICKEL COMPOUNDS	2.80E-04	POUNDS PER TON	FIRE			0.42
LEAD COMPOUNDS	4.20E-04	POUNDS PER TON	FIRE			0.62
POLYCYCLIC ORGANIC MATTER	2.08E-06	POUNDS PER MILLION BTU	FIRE			0.05
RADIONUCLIDES (INCLUDING RADON)	9.50E-02	POUNDS PER TON	OTHER - EPA-450			0.03
PHENOL	1.60E-05	POUNDS PER TON	FIRE			0.02
SELENIUM COMPOUNDS	1.30E-03	POUNDS PER TON	FIRE			1.93
ETHYLBENZENE	9.40E-05	POUNDS PER TON	FIRE			0.14

**SUPPORTING DOCUMENTS**

Supporting Documents:

Description:

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 11 of 47

**EMISSION POINTS**

(4) Emission Point ID: 003 (5) Emission Point Description: CBEC 3 BOILER STACK

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 003 (8) SCC No: 10101302  
 (9) Description of Process: CBEC 3 BOILER - WASTE OIL  
 (10) Raw Material: WASTE OIL  
 (11) Actual Throughput (Yearly Total): 0.10  
 (12) Units Raw Material: 1000 GALLONS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>20</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>40</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>40</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

CE003 CE004

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

ME003A ME003B ME003C ME003D  
ME003E

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	5.10E+01	POUNDS PER 1000 GALLONS	AP42	3.00	95	0.00
PARTICULATE MATTER	6.10E+01	POUNDS PER 1000 GALLONS	AP42	3.00	95	0.00
SULFUR DIOXIDE			CEM			
NITROGEN OXIDES			CEM			
VOLATILE ORGANIC COMPOUNDS	1.00E+00	POUNDS PER 1000 GALLONS	AP42			0.00
CARBON MONOXIDE	5.00E+00	POUNDS PER 1000 GALLONS	AP42			0.00
LEAD						

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 12 of 47

**EMISSION POINTS**

(4) Emission Point ID: 003 (5) Emission Point Description: CBEC 3 BOILER STACK

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 003 (8) SCC No: 10100501  
 (9) Description of Process: CBEC 3 BOILER - #2 FUEL OIL  
 (10) Raw Material: FUEL OIL #2  
 (11) Actual Throughput (Yearly Total): 350.03  
 (12) Units Raw Material: 1000 GALLONS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>27.6</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>41.3</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>16.6</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>14.5</u>	<u>24</u>	<u>7</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

CE003 CE004

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

ME003A ME003B ME003C ME003D  
ME003E

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	1.00E+00	POUNDS PER 1000 GALLONS	FIRE			0.18
PARTICULATE MATTER	2.00E+00	POUNDS PER 1000 GALLONS	FIRE			0.35
SULFUR DIOXIDE			CEM			
NITROGEN OXIDES			CEM			
VOLATILE ORGANIC COMPOUNDS	2.00E-01	POUNDS PER 1000 GALLONS	FIRE			0.04
CARBON MONOXIDE	5.00E+00	POUNDS PER 1000 GALLONS	FIRE			0.88
LEAD						
LEAD COMPOUNDS	1.24E-03	POUNDS PER 1000 GALLONS	FIRE			0.00

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 13 of 47

**EMISSION POINTS**

(4) Emission Point ID: 004 (5) Emission Point Description: UNIT 3 AUXILLARY BOILER STACK

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 004 (8) SCC No: 10200501  
 (9) Description of Process: CBEC UNIT 3 AUXILLARY BOILER - #2 FUEL OIL  
 (10) Raw Material: FUEL OIL #2  
 (11) Actual Throughput (Yearly Total): 1.37  
 (12) Units Raw Material: 1000 GALLONS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>100</u>	<u>24</u>	<u>7</u>	<u>1</u>
<u>APR</u>	<u>JUN</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>JUL</u>	<u>SEP</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>OCT</u>	<u>DEC</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	1.00E+00	POUNDS PER 1000 GALLONS	FIRE			0.00
PARTICULATE MATTER	2.00E+00	POUNDS PER 1000 GALLONS	FIRE			0.00
SULFUR DIOXIDE	1.42E+02	POUNDS PER 1000 GALLONS	FIRE	.50		0.05
NITROGEN OXIDES	2.40E+01	POUNDS PER 1000 GALLONS	FIRE			0.02
VOLATILE ORGANIC COMPOUNDS	2.00E+00	POUNDS PER 1000 GALLONS	FIRE			0.00
CARBON MONOXIDE	5.00E+00	POUNDS PER 1000 GALLONS	FIRE			0.00
LEAD						

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 14 of 47

**EMISSION POINTS**

(4) Emission Point ID: 005 (5) Emission Point Description: COAL STORAGE PILE

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 005A (8) SCC No: 30501046  
 (9) Description of Process: COAL PILE - BULLDOZING  
 (10) Raw Material: COAL  
 (11) Actual Throughput (Yearly Total): 9,923.00  
 (12) Units Raw Material: HOURS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>21.4</u>	<u>18</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>29.8</u>	<u>18</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>22.2</u>	<u>18</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>26.6</u>	<u>18</u>	<u>7</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	1.33E+01	POUNDS PER HOUR	FIRE			65.78
PARTICULATE MATTER	4.94E+01	POUNDS PER HOUR	FIRE			245.10
SULFUR DIOXIDE						
NITROGEN OXIDES						
VOLATILE ORGANIC COMPOUNDS						
CARBON MONOXIDE						
LEAD						

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 15 of 47

**EMISSION POINTS**

(4) Emission Point ID: 005 (5) Emission Point Description: COAL STORAGE PILE

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 005B (8) SCC No: 30501043  
 (9) Description of Process: COAL PILE - OPEN STORAGE  
 (10) Raw Material: COAL  
 (11) Actual Throughput (Yearly Total): 18.73  
 (12) Units Raw Material: ACRE

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>25</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>25</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>25</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>25</u>	<u>24</u>	<u>7</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	1.71E-04	POUNDS PER ACRE	AP42		31.25	109.84
PARTICULATE MATTER	3.41E-04	POUNDS PER ACRE	AP42		31.25	219.68
SULFUR DIOXIDE						
NITROGEN OXIDES						
VOLATILE ORGANIC COMPOUNDS						
CARBON MONOXIDE						
LEAD						

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_













**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 22 of 47

**EMISSION POINTS**

(4) Emission Point ID: 013 (5) Emission Point Description: TRANSFER HOUSE #4 (CRUSHER) VENT

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 013 (8) SCC No: 30510103  
 (9) Description of Process: TRANSFER HOUSE #4 - COAL CONVEYING  
 (10) Raw Material: COAL  
 (11) Actual Throughput (Yearly Total): 2,967,058.00  
 (12) Units Raw Material: TONS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>26.5</u>	<u>18</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>17.5</u>	<u>18</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>28.8</u>	<u>18</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>27.2</u>	<u>18</u>	<u>7</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

CE014

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	1.49E-03	POUNDS PER TON	OTHER - COMPLIANCE TEST PM			2.22
PARTICULATE MATTER	1.49E-03	POUNDS PER TON	OTHER - COMPLIANCE TEST PM			2.22
SULFUR DIOXIDE						
NITROGEN OXIDES						
VOLATILE ORGANIC COMPOUNDS						
CARBON MONOXIDE						
LEAD						

**SUPPORTING DOCUMENTS**

Supporting Documents:

Description:

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 23 of 47

**EMISSION POINTS**

(4) Emission Point ID: 014 (5) Emission Point Description: EAST COAL SILOS #3 VENT

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 014 (8) SCC No: 30510103  
 (9) Description of Process: EAST COAL SILOS #3 - COAL CONVEYING  
 (10) Raw Material: COAL  
 (11) Actual Throughput (Yearly Total): 1,483,529.00  
 (12) Units Raw Material: TONS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>26.5</u>	<u>18</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>17.5</u>	<u>18</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>28.8</u>	<u>18</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>27.2</u>	<u>18</u>	<u>7</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

CE015

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	6.91E-03	POUNDS PER TON	OTHER - COMPLIANCE TEST PM			5.13
PARTICULATE MATTER	6.91E-03	POUNDS PER TON	OTHER - COMPLIANCE TEST PM			5.13
SULFUR DIOXIDE						
NITROGEN OXIDES						
VOLATILE ORGANIC COMPOUNDS						
CARBON MONOXIDE						
LEAD						

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_









**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 28 of 47

**EMISSION POINTS**

(4) Emission Point ID: 019A (5) Emission Point Description: ASH POND GRADING

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 019A (8) SCC No: 30510499  
 (9) Description of Process: ASH POND DUMPING  
 (10) Raw Material: ASH  
 (11) Actual Throughput (Yearly Total): 102,209.00  
 (12) Units Raw Material: TONS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>30.6</u>	<u>12</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>6.9</u>	<u>12</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>28.4</u>	<u>12</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>34.1</u>	<u>12</u>	<u>7</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	<u>1.00E-01</u>	<u>POUNDS PER TON</u>	<u>FIRE</u>			<u>5.11</u>
PARTICULATE MATTER	<u>2.00E-01</u>	<u>POUNDS PER TON</u>	<u>OTHER - ENG.EST.</u>			<u>10.22</u>
SULFUR DIOXIDE						
NITROGEN OXIDES						
VOLATILE ORGANIC COMPOUNDS						
CARBON MONOXIDE						
LEAD						

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 29 of 47

**EMISSION POINTS**

(4) Emission Point ID: 019B (5) Emission Point Description: ASH POND WIND EROSION

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 019B (8) SCC No: 30510499  
 (9) Description of Process: ASH POND GRADING  
 (10) Raw Material: ASH  
 (11) Actual Throughput (Yearly Total): 500.00  
 (12) Units Raw Material: MILES

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>30.6</u>	<u>12</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>6.9</u>	<u>12</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>28.4</u>	<u>12</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>34.1</u>	<u>12</u>	<u>7</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	3.30E+00	POUNDS PER TON	FIRE		50	0.41
PARTICULATE MATTER	5.37E+00	POUNDS PER TON	FIRE		50	0.67
SULFUR DIOXIDE						
NITROGEN OXIDES						
VOLATILE ORGANIC COMPOUNDS						
CARBON MONOXIDE						
LEAD						

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_





**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 32 of 47

**EMISSION POINTS**

(4) Emission Point ID: 024 (5) Emission Point Description: UNLEADED GASOLINE UST VENT

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 024 (8) SCC No: 40400402  
 (9) Description of Process: UNLEADED GASOLINE UST; WORKING LOSS  
 (10) Raw Material: OTHER  
 (11) Actual Throughput (Yearly Total): 7.00  
 (12) Units Raw Material: 1000 GALLONS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>25</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>25</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>25</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>25</u>	<u>24</u>	<u>7</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10						
PARTICULATE MATTER						
SULFUR DIOXIDE						
NITROGEN OXIDES						
VOLATILE ORGANIC COMPOUNDS	<u>1.49E+01</u>	<u>POUNDS PER 1000 GALLONS</u>	<u>FIRE</u>			<u>0.05</u>
CARBON MONOXIDE						
LEAD						
METHYL TERT BUTYL ETHER	<u>2.38E+00</u>	<u>POUNDS PER 1000 GALLONS</u>	<u>OTHER - ENG.EST.</u>			<u>0.01</u>
XYLENE (MIXED ISOMERS)	<u>1.49E+00</u>	<u>POUNDS PER 1000 GALLONS</u>	<u>OTHER - ENG.EST.</u>			<u>0.01</u>
TOLUENE	<u>2.98E+00</u>	<u>POUNDS PER 1000 GALLONS</u>	<u>OTHER - ENG.EST.</u>			<u>0.01</u>

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 33 of 47

**EMISSION POINTS**

(4) Emission Point ID: 025 (5) Emission Point Description: GLYCOL SYSTEM EXPANSION TANK STACK

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 025 (8) SCC No: 40705604  
 (9) Description of Process: GLYCOL SYSTEM EXPANSION TANK  
 (10) Raw Material: ETHYLENE GLYCOL  
 (11) Actual Throughput (Yearly Total): 0.66000003  
 (12) Units Raw Material: 1000 GALLONS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>25</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>25</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>25</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>25</u>	<u>24</u>	<u>7</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

\_\_\_\_\_

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

\_\_\_\_\_

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10						
PARTICULATE MATTER						
SULFUR DIOXIDE						
NITROGEN OXIDES						
VOLATILE ORGANIC COMPOUNDS	<u>9.16E+03</u>	<u>POUNDS PER 1000 GALLONS</u>	<u>MASS BALANCE</u>			<u>3.02</u>
CARBON MONOXIDE						
LEAD						
ETHYLENE GLYCOL	<u>9.16E+03</u>	<u>POUNDS PER 1000 GALLONS</u>	<u>MASS BALANCE</u>			<u>3.02</u>

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 34 of 47

**EMISSION POINTS**

(4) Emission Point ID: 026 (5) Emission Point Description: SOLVENT CLEANING VENTING

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 026 (8) SCC No: 40100251  
 (9) Description of Process: SOLVENT PARTS CLEANER  
 (10) Raw Material: OTHER  
 (11) Actual Throughput (Yearly Total): 894.00  
 (12) Units Raw Material: GALLONS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>24.9</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>24.8</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>25.2</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>25.1</u>	<u>24</u>	<u>7</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10						
PARTICULATE MATTER						
SULFUR DIOXIDE						
NITROGEN OXIDES						
VOLATILE ORGANIC COMPOUNDS	<u>1.67E+00</u>	<u>POUNDS PER 1000 GALLONS</u>	<u>MASS BALANCE</u>			<u>0.74</u>
CARBON MONOXIDE						
LEAD						
XYLENE (MIXED ISOMERS)	<u>1.67E-02</u>	<u>POUNDS PER 1000 GALLONS</u>	<u>MASS BALANCE</u>			<u>0.01</u>

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 35 of 47

**EMISSION POINTS**

(4) Emission Point ID: 027 (5) Emission Point Description: DIESEL ENGINE STACK

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 027 (8) SCC No: 20200102  
 (9) Description of Process: DIESEL ENGINE FOR FIRE PUMP  
 (10) Raw Material: FUEL OIL #2  
 (11) Actual Throughput (Yearly Total): 0.20  
 (12) Units Raw Material: 1000 GALLONS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>25</u>	<u>1</u>	<u>1</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>25</u>	<u>1</u>	<u>1</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>25</u>	<u>1</u>	<u>1</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>25</u>	<u>1</u>	<u>1</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	4.25E+01	POUNDS PER 1000 GALLONS	FIRE			0.00
PARTICULATE MATTER	4.25E+01	POUNDS PER 1000 GALLONS	FIRE			0.00
SULFUR DIOXIDE	3.97E+01	POUNDS PER 1000 GALLONS	FIRE			0.00
NITROGEN OXIDES	6.04E+02	POUNDS PER 1000 GALLONS	FIRE			0.06
VOLATILE ORGANIC COMPOUNDS	4.93E+01	POUNDS PER 1000 GALLONS	FIRE			0.00
CARBON MONOXIDE	1.30E+02	POUNDS PER 1000 GALLONS	FIRE			0.01
LEAD						

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 36 of 47

**EMISSION POINTS**

(4) Emission Point ID: 030 (5) Emission Point Description: STOCKOUT CONVEYOR 7

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 030 (8) SCC No: 30510103  
 (9) Description of Process: STOCKOUT CONVEYOR 7 COAL CONVEYING  
 (10) Raw Material: COAL  
 (11) Actual Throughput (Yearly Total): 968,690.00  
 (12) Units Raw Material: TONS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>24.1</u>	<u>4</u>	<u>5</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>18.9</u>	<u>4</u>	<u>5</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>28.2</u>	<u>4</u>	<u>5</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>28.8</u>	<u>4</u>	<u>5</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	<u>9.40E-04</u>	<u>POUNDS PER TON</u>	<u>AP42</u>		<u>56.25</u>	<u>0.20</u>
PARTICULATE MATTER	<u>2.00E-03</u>	<u>POUNDS PER TON</u>	<u>AP42</u>		<u>56.25</u>	<u>0.42</u>
SULFUR DIOXIDE						
NITROGEN OXIDES						
VOLATILE ORGANIC COMPOUNDS						
CARBON MONOXIDE						
LEAD						

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 37 of 47

**EMISSION POINTS**

(4) Emission Point ID: 031 (5) Emission Point Description: STACKER/RECLAIMER

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 031A (8) SCC No: 30510103  
 (9) Description of Process: CONVEYER 3 IN COAL CONVEYING  
 (10) Raw Material: COAL  
 (11) Actual Throughput (Yearly Total): 2,571,052.00  
 (12) Units Raw Material: TONS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>24.1</u>	<u>18</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>18.9</u>	<u>18</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>28.2</u>	<u>18</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>28.8</u>	<u>18</u>	<u>7</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	<u>9.40E-04</u>	<u>POUNDS PER TON</u>	<u>AP42</u>		<u>56.25</u>	<u>0.53</u>
PARTICULATE MATTER	<u>2.00E-03</u>	<u>POUNDS PER TON</u>	<u>AP42</u>		<u>56.25</u>	<u>1.12</u>
SULFUR DIOXIDE						
NITROGEN OXIDES						
VOLATILE ORGANIC COMPOUNDS						
CARBON MONOXIDE						
LEAD						

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 38 of 47

**EMISSION POINTS**

(4) Emission Point ID: 031 (5) Emission Point Description: STACKER/RECLAIMER

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 031B (8) SCC No: 30510103  
 (9) Description of Process: STACKOUT COAL CONVEYING  
 (10) Raw Material: COAL  
 (11) Actual Throughput (Yearly Total): 2,435,342.50  
 (12) Units Raw Material: TONS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>24.1</u>	<u>18</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>18.9</u>	<u>18</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>28.2</u>	<u>18</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>28.8</u>	<u>18</u>	<u>7</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	<u>9.40E-04</u>	<u>POUNDS PER TON</u>	<u>AP42</u>		<u>56.25</u>	<u>0.50</u>
PARTICULATE MATTER	<u>2.00E-03</u>	<u>POUNDS PER TON</u>	<u>AP42</u>		<u>56.25</u>	<u>1.07</u>
SULFUR DIOXIDE						
NITROGEN OXIDES						
VOLATILE ORGANIC COMPOUNDS						
CARBON MONOXIDE						
LEAD						

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 39 of 47

**EMISSION POINTS**

(4) Emission Point ID: 031 (5) Emission Point Description: STACKER/RECLAIMER

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 031C (8) SCC No: 30510103  
 (9) Description of Process: RECLAIM IN COAL CONVEYING  
 (10) Raw Material: COAL  
 (11) Actual Throughput (Yearly Total): 2,435,342.50  
 (12) Units Raw Material: TONS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>24.1</u>	<u>18</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>18.9</u>	<u>18</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>28.2</u>	<u>18</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>28.8</u>	<u>18</u>	<u>7</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	<u>9.40E-04</u>	<u>POUNDS PER TON</u>	<u>AP42</u>		<u>56.25</u>	<u>0.50</u>
PARTICULATE MATTER	<u>2.00E-03</u>	<u>POUNDS PER TON</u>	<u>AP42</u>		<u>56.25</u>	<u>1.07</u>
SULFUR DIOXIDE						
NITROGEN OXIDES						
VOLATILE ORGANIC COMPOUNDS						
CARBON MONOXIDE						
LEAD						

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 40 of 47

**EMISSION POINTS**

(4) Emission Point ID: 031 (5) Emission Point Description: STACKER/RECLAIMER

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 031D (8) SCC No: 30510103  
 (9) Description of Process: RECLAIM WHEEL COAL CONVEYING  
 (10) Raw Material: COAL  
 (11) Actual Throughput (Yearly Total): 2,435,342.50  
 (12) Units Raw Material: TONS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>24.1</u>	<u>18</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>18.9</u>	<u>18</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>28.2</u>	<u>18</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>28.8</u>	<u>18</u>	<u>7</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	<u>9.40E-04</u>	<u>POUNDS PER TON</u>	<u>AP42</u>		<u>56.25</u>	<u>0.50</u>
PARTICULATE MATTER	<u>2.00E-03</u>	<u>POUNDS PER TON</u>	<u>AP42</u>		<u>56.25</u>	<u>1.07</u>
SULFUR DIOXIDE						
NITROGEN OXIDES						
VOLATILE ORGANIC COMPOUNDS						
CARBON MONOXIDE						
LEAD						

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 41 of 47

**EMISSION POINTS**

(4) Emission Point ID: 112 (5) Emission Point Description: UNITS 1 & 2 AUXILLIARY BOILER STACK

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 112 (8) SCC No: 10200602  
 (9) Description of Process: UNITS 1 & 2 AUXILIARY BOILER-NATURAL GAS  
 (10) Raw Material: NATURAL GAS  
 (11) Actual Throughput (Yearly Total): 0.00  
 (12) Units Raw Material: MILLION CUBIC FEET

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>APR</u>	<u>JUN</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>JUL</u>	<u>SEP</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>OCT</u>	<u>DEC</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	7.60E+00	POUNDS PER MILLION CUBIC FEET	FIRE			0.00
PARTICULATE MATTER	7.60E+00	POUNDS PER MILLION CUBIC FEET	FIRE			0.00
SULFUR DIOXIDE	6.00E-01	POUNDS PER MILLION CUBIC FEET	FIRE			0.00
NITROGEN OXIDES	1.40E+02	POUNDS PER MILLION CUBIC FEET	FIRE			0.00
VOLATILE ORGANIC COMPOUNDS	5.50E+00	POUNDS PER MILLION CUBIC FEET	FIRE			0.00
CARBON MONOXIDE	8.40E+01	POUNDS PER MILLION CUBIC FEET	FIRE			0.00
LEAD						

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 42 of 47

**EMISSION POINTS**

(4) Emission Point ID: 113 (5) Emission Point Description: UNITS 1 & 2 EMERGENCY GENERATOR VENT

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 113 (8) SCC No: 20100102  
 (9) Description of Process: UNITS 1 & 2 EMERG. GENERATOR - #2 FUEL OIL  
 (10) Raw Material: FUEL OIL #2  
 (11) Actual Throughput (Yearly Total): 0.07  
 (12) Units Raw Material: 1000 GALLONS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>25</u>	<u>0.3</u>	<u>1</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>25</u>	<u>0.3</u>	<u>1</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>25</u>	<u>0.3</u>	<u>1</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>25</u>	<u>0.3</u>	<u>1</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

\_\_\_\_\_

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

\_\_\_\_\_

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	4.25E+01	POUNDS PER 1000 GALLONS	FIRE			0.00
PARTICULATE MATTER	4.25E+01	POUNDS PER 1000 GALLONS	FIRE			0.00
SULFUR DIOXIDE	3.97E+01	POUNDS PER 1000 GALLONS	FIRE			0.00
NITROGEN OXIDES	6.04E+02	POUNDS PER 1000 GALLONS	FIRE			0.00
VOLATILE ORGANIC COMPOUNDS	4.93E+01	POUNDS PER 1000 GALLONS	FIRE			0.00
CARBON MONOXIDE	1.30E+02	POUNDS PER 1000 GALLONS	FIRE			0.00
LEAD						

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 43 of 47

**EMISSION POINTS**

(4) Emission Point ID: 114 (5) Emission Point Description: #3 EMERGENCY GENERATOR VENT

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 114 (8) SCC No: 20100101  
 (9) Description of Process: UNIT 3 EMERG. GENERATOR - #2 FUEL OIL  
 (10) Raw Material: FUEL OIL #2  
 (11) Actual Throughput (Yearly Total): 0.56  
 (12) Units Raw Material: 1000 GALLONS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>25</u>	<u>0.1</u>	<u>1</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>25</u>	<u>0.1</u>	<u>1</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>25</u>	<u>0.1</u>	<u>1</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>25</u>	<u>0.1</u>	<u>1</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	8.54E+00	POUNDS PER 1000 GALLONS	FIRE			0.00
PARTICULATE MATTER	8.54E+00	POUNDS PER 1000 GALLONS	FIRE			0.00
SULFUR DIOXIDE	1.41E+02	POUNDS PER 1000 GALLONS	FIRE			0.02
NITROGEN OXIDES	9.77E+01	POUNDS PER 1000 GALLONS	FIRE			0.03
VOLATILE ORGANIC COMPOUNDS	2.38E+00	POUNDS PER 1000 GALLONS	FIRE			0.00
CARBON MONOXIDE	6.72E+00	POUNDS PER 1000 GALLONS	FIRE			0.00
LEAD						

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 44 of 47

**EMISSION POINTS**

(4) Emission Point ID: 117 (5) Emission Point Description: EMERGENCY RECLAIM HOPPER VENT

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 117 (8) SCC No: 30510103  
 (9) Description of Process: EMERG. RECLAIM HOPPER - COAL CONVEYOR  
 (10) Raw Material: COAL  
 (11) Actual Throughput (Yearly Total): 959,000.00  
 (12) Units Raw Material: TONS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>7.8</u>	<u>6</u>	<u>1.4</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>79.9</u>	<u>6</u>	<u>1.4</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>10.6</u>	<u>6</u>	<u>1.4</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>1.7</u>	<u>6</u>	<u>1.4</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

CE011

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	8.40E-04	POUNDS PER TON	OTHER - COMPLIANCE TEST PM			0.40
PARTICULATE MATTER	8.40E-04	POUNDS PER TON	OTHER - COMPLIANCE TEST PM			0.40
SULFUR DIOXIDE						
NITROGEN OXIDES						
VOLATILE ORGANIC COMPOUNDS						
CARBON MONOXIDE						
LEAD						

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 45 of 47

**EMISSION POINTS**

(4) Emission Point ID: 117B (5) Emission Point Description: EMERGENCY RECLAIM HOPPER-COAL CONVEY

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 117B (8) SCC No: 30510103  
 (9) Description of Process: EMER. RECLAIM HOPPER-COAL DUMPING  
 (10) Raw Material: COAL  
 (11) Actual Throughput (Yearly Total): 959,000.00  
 (12) Units Raw Material: TONS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>7.8</u>	<u>6</u>	<u>1.4</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>79.9</u>	<u>6</u>	<u>1.4</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>10.6</u>	<u>6</u>	<u>1.4</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>1.7</u>	<u>6</u>	<u>1.4</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	<u>9.40E-04</u>	<u>POUNDS PER TON</u>	<u>AP42</u>			<u>0.45</u>
PARTICULATE MATTER	<u>2.00E-03</u>	<u>POUNDS PER TON</u>	<u>AP42</u>			<u>0.96</u>
SULFUR DIOXIDE						
NITROGEN OXIDES						
VOLATILE ORGANIC COMPOUNDS						
CARBON MONOXIDE						
LEAD						

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 46 of 47

**EMISSION POINTS**

(4) Emission Point ID	(5) Emission Point Description
<u>119A</u>	<u>1 &amp; 2 FLYASH SILO BAG FILTER VENT</u>
<u>119B</u>	<u>1 &amp; 2 FLYASH SILO BIN FILTER VENT</u>

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 119 (8) SCC No: 10200101  
 (9) Description of Process: 1 & 2 FLYASH SILO STORAGE (119B)  
 (10) Raw Material: ASH  
 (11) Actual Throughput (Yearly Total): 24,592.00  
 (12) Units Raw Material: TONS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>26.7</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>21.8</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>26.5</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>25</u>	<u>24</u>	<u>7</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

CE119A CE119B

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	3.40E-04	POUNDS PER TON	AP42			0.00
PARTICULATE MATTER	9.90E-04	POUNDS PER TON	AP42			0.01
SULFUR DIOXIDE						
NITROGEN OXIDES						
VOLATILE ORGANIC COMPOUNDS						
CARBON MONOXIDE						
LEAD						

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_

**FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS**

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - COUNCIL BL (2) EIQ No: 92-3600 (3) Page 47 of 47

**EMISSION POINTS**

(4) Emission Point ID	(5) Emission Point Description
<u>119A</u>	<u>1 &amp; 2 FLYASH SILO BAG FILTER VENT</u>
<u>119B</u>	<u>1 &amp; 2 FLYASH SILO BIN FILTER VENT</u>

**PROCESS INFORMATION**

(6) Emission Year: 2002 (7) Emission Unit No: 119 (8) SCC No: 10200101  
 (9) Description of Process: 1 & 2 FLYASH SILO STORAGE (119A)  
 (10) Raw Material: ASH  
 (11) Actual Throughput (Yearly Total): 24,592.00  
 (12) Units Raw Material: TONS

**ACTUAL OPERATING RATES/SCHEDULE**

Begin Month	End Month	(13) Percent of Total Operating Time	(14) Hours/Day	(15) Days/Week	(16) Weeks/Quarter
<u>JAN</u>	<u>MAR</u>	<u>26.7</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>21.8</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>26.5</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>25</u>	<u>24</u>	<u>7</u>	<u>13</u>

**(17) ASSOCIATED CONTROL EQUIPMENT ID'S**

CE119A CE119B

**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**

**ACTUAL EMISSIONS**

(19) Pollutant	(20) Emission Factor	(21) Emission Factor Units	(22) Source of Emission Factor	(23) Ash or Sulfur %	(24) Combined Control Effic. %	(25) Actual Emissions (tons/year)
PM-10	<u>3.40E-04</u>	<u>POUNDS PER TON</u>	<u>AP42</u>			<u>0.00</u>
PARTICULATE MATTER	<u>9.90E-04</u>	<u>POUNDS PER TON</u>	<u>AP42</u>			<u>0.01</u>
SULFUR DIOXIDE						
NITROGEN OXIDES						
VOLATILE ORGANIC COMPOUNDS						
CARBON MONOXIDE						
LEAD						

**SUPPORTING DOCUMENTS**

Supporting Documents: \_\_\_\_\_ Description: \_\_\_\_\_