

FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 1 of 34

EMISSION POINTS

(4) Emission Point ID: EP-1 (5) Emission Point Description: BOILER #7-#8-#9 COMMON STACK

PROCESS INFORMATION

(6) Emission Year: 2003 (7) Emission Unit No: EU-1 (8) SCC No: 10100226
 (9) Description of Process: UTILITY BOILER, PULVERIZED COAL, TANGENTIAL
 (10) Raw Material: COAL
 (11) Actual Throughput (Yearly Total): 362,530.69
 (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>28</u>	<u>24</u>	<u>7</u>	<u>12</u>
<u>APR</u>	<u>JUN</u>	<u>28</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>26</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>18</u>	<u>24</u>	<u>7</u>	<u>9</u>

(17) ASSOCIATED CONTROL EQUIPMENT ID'S

CE-1 CE-2

(18) ASSOCIATED MONITORING EQUIPMENT ID'S

ME-1 ME-2 ME-3 ME-4
ME-5

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	3.08E-02	POUNDS PER MILLION BTU	OTHER - COMPLIANCE TEST TSP			96.83
PARTICULATE MATTER	4.60E-02	POUNDS PER MILLION BTU	OTHER - COMPLIANCE TEST TSP			144.62
SULFUR DIOXIDE			CEM			2,202.00
NITROGEN OXIDES			CEM			1,113.36
VOLATILE ORGANIC COMPOUNDS	6.00E-02	POUNDS PER MILLION BTU	OTHER - COMPLIANCE TEST TSP			10.88
CARBON MONOXIDE	5.00E-01	POUNDS PER MILLION BTU	OTHER - COMPLIANCE TEST TSP			90.63
LEAD						0.00
DI(2-ETHYLHEXYL) PHTHALATE	7.30E-05	POUNDS PER TON	FIRE			0.01
METHYL CHLORIDE	5.30E-04	POUNDS PER TON	FIRE			0.10
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			0.07
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	1.07E-04	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			0.24
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			0.13
ACETALDEHYDE	5.70E-04	POUNDS PER TON	AP42			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	1.30E-01	POUNDS PER TON	OTHER - COAL ANALYSIS			23.56
HYDROGEN FLUORIDE	6.91E-02	POUNDS PER TON	OTHER - COAL ANALYSIS			12.53
XYLENE (MIXED ISOMERS)	3.70E-05	POUNDS PER TON	FIRE			0.01
ISOPHORONE	5.80E-04	POUNDS PER TON	FIRE			0.11
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			0.45
TETRACHLOROETHYLENE	4.30E-05	POUNDS PER TON	FIRE			0.01
MANGANESE COMPOUNDS	4.90E-04	POUNDS PER TON	FIRE			0.09
NICKEL COMPOUNDS	2.80E-04	POUNDS PER TON	FIRE			0.05
LEAD COMPOUNDS	4.20E-04	POUNDS PER TON	FIRE			0.08
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	AP42			0.24
ETHYLBENZENE	9.40E-05	POUNDS PER TON	FIRE			0.02

SUPPORTING DOCUMENTS

Supporting Documents:

COAL_SUPPLIER_HCL HF AND HG EF CALC.XLS

Description:

COAL ANALYSIS EF CALCULATIONS HCL, HF, HG

FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 3 of 34

EMISSION POINTS

(4) Emission Point ID: EP-1 (5) Emission Point Description: BOILER #7-#8-#9 COMMON STACK

PROCESS INFORMATION

(6) Emission Year: 2003 (7) Emission Unit No: EU-1 (8) SCC No: 10101302
 (9) Description of Process: UTILITY BOILER: USED OIL CONSUMPTION
 (10) Raw Material: WASTE OIL
 (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

CE-1 CE-2

(18) ASSOCIATED MONITORING EQUIPMENT ID'S

ME-1 ME-2 ME-3 ME-4
ME-5

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		0.00
PARTICULATE MATTER	6.10E+01	POUNDS PER 1000 GALLONS	AP42	3.00		0.00
SULFUR DIOXIDE						0.00
NITROGEN OXIDES						0.00
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	1.68E+00	POUNDS PER 1000 GALLONS	AP42			0.00

SUPPORTING DOCUMENTS

Supporting Documents: _____ Description: _____

FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS(1) Company/Facility Name: MIDAMERICAN ENERGY CO - RIVERSIDE (2) EIQ No: 92-2692

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EMISSION POINTS(4) Emission Point ID
EP-1 (5) Emission Point Description
BOILER #7-#8-#9 COMMON STACK**PROCESS INFORMATION**(6) Emission Year: 2003 (7) Emission Unit No: EU-1 (8) SCC No: 10100604
(9) Description of Process: UTILITY BOILER, NATURAL GAS COMBUSTION, TANGENTIAL
(10) Raw Material: NATURAL GAS
(11) Actual Throughput (Yearly Total): 34.95
(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>28</u>	<u>24</u>	<u>7</u>	<u>12</u>
<u>APR</u>	<u>JUN</u>	<u>28</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>26</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>18</u>	<u>24</u>	<u>7</u>	<u>9</u>

(17) ASSOCIATED CONTROL EQUIPMENT ID'SCE-1 CE-2**(18) ASSOCIATED MONITORING EQUIPMENT ID'S**ME-1 ME-2 ME-3 ME-4
ME-5**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	AP42			0.13
PARTICULATE MATTER	7.60E+00	POUNDS PER MILLION CUBIC FEET	AP42			0.13
SULFUR DIOXIDE						0.00
NITROGEN OXIDES						0.00
VOLATILE ORGANIC COMPOUNDS	5.50E+00	POUNDS PER MILLION CUBIC FEET	AP42			0.10
CARBON MONOXIDE	2.40E+01	POUNDS PER MILLION CUBIC FEET	AP42			0.42
LEAD						0.00
FORMALDEHYDE	7.50E-02	POUNDS PER MILLION CUBIC FEET	FIRE			0.00
HEXANE	1.80E+00	POUNDS PER MILLION CUBIC FEET	FIRE			0.03

SUPPORTING DOCUMENTSSupporting Documents:
RGS T5 CALCS-2003.XLSDescription:
EMISSIONS CALCULATIONS WORKSHEET

FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 5 of 34

EMISSION POINTS

(4) Emission Point ID: EP-9 (5) Emission Point Description: ASH BIN VENT FILTER

PROCESS INFORMATION

(6) Emission Year: 2003 (7) Emission Unit No: EU-10A (8) SCC No: 30510298
 (9) Description of Process: FLY ASH STORAGE SILO BIN VENT
 (10) Raw Material: FLYASH
 (11) Actual Throughput (Yearly Total): 17,945.60
 (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>33</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>21</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>28</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>18</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	<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: _____

FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 6 of 34

EMISSION POINTS

(4) Emission Point ID: EP-10 (5) Emission Point Description: #9 ASH BLOWER EXHAUST

PROCESS INFORMATION

(6) Emission Year: 2003 (7) Emission Unit No: EU-10B (8) SCC No: 30510298
 (9) Description of Process: FLY ASH STORAGE SILO - ASH TRANSPORT
 (10) Raw Material: FLYASH
 (11) Actual Throughput (Yearly Total): 13,602.70
 (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>28</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>21</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>26</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	<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: _____

FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 7 of 34

EMISSION POINTS

(4) Emission Point ID: EP-11 (5) Emission Point Description: 800# ASH BLOWER EXHAUST

PROCESS INFORMATION

(6) Emission Year: 2003 (7) Emission Unit No: EU-10C (8) SCC No: 30510298
 (9) Description of Process: FLY ASH STORAGE SILO - ASH TRANSPORT
 (10) Raw Material: FLYASH
 (11) Actual Throughput (Yearly Total): 4,342.90
 (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>32</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>15</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>14</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>39</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	<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>0.00</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 - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 8 of 34

EMISSION POINTS

(4) Emission Point ID: EP-12 (5) Emission Point Description: ROTARY UNLOADER (PUG MILL)

PROCESS INFORMATION

(6) Emission Year: 2003 (7) Emission Unit No: EU-10D (8) SCC No: 30510298
 (9) Description of Process: FLY ASH STORAGE SILO ROTARY UNLOADER
 (10) Raw Material: FLYASH
 (11) Actual Throughput (Yearly Total): 0.00
 (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>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	1.40E-01	POUNDS PER TON	AP42		98	0.00
PARTICULATE MATTER	2.40E-01	POUNDS PER TON	AP42		98	0.00
SULFUR DIOXIDE			OTHER			
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 - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 9 of 34

EMISSION POINTS

(4) Emission Point ID: EP-14 (5) Emission Point Description: DRY FLY ASH UNLOADING POINT

PROCESS INFORMATION

(6) Emission Year: 2003 (7) Emission Unit No: EU-10E (8) SCC No: 30510499
 (9) Description of Process: FLY ASH SILO - DRY ASH UNLOADING
 (10) Raw Material: FLYASH
 (11) Actual Throughput (Yearly Total): 17,945.60
 (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>33</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>21</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>28</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>18</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	1.40E-01	POUNDS PER TON	AP42		75	0.31
PARTICULATE MATTER	2.40E-01	POUNDS PER TON	AP42		75	0.54
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 - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 10 of 34**EMISSION POINTS**

(4) Emission Point ID	(5) Emission Point Description
EP-13	ACTIVE ASH POND
EP-15	ACTIVE ASH POND

PROCESS INFORMATION

(6) Emission Year: <u>2003</u>	(7) Emission Unit No: <u>EU-14</u>	(8) SCC No: <u>30510499</u>
(9) Description of Process:	<u>ACTIVE BOTTOM ASH POND TRUCK LOADING - EP15</u>	
(10) Raw Material:	<u>ASH</u>	
(11) Actual Throughput (Yearly Total):	<u>6,155.00</u>	
(12) Units Raw Material:	<u>TONS</u>	

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>8</u>	<u>0</u>	<u>3</u>
<u>APR</u>	<u>JUN</u>	<u>18</u>	<u>8</u>	<u>5</u>	<u>1</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>82</u>	<u>8</u>	<u>5</u>	<u>4</u>

(17) ASSOCIATED CONTROL EQUIPMENT ID'SCE-11**(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-01	POUNDS PER TON	AP42		90	0.03
PARTICULATE MATTER	2.00E-01	POUNDS PER TON	OTHER - ENG. EST.		90	0.06
SULFUR DIOXIDE						0.00
NITROGEN OXIDES						0.00
VOLATILE ORGANIC COMPOUNDS						0.00
CARBON MONOXIDE						0.00
LEAD						0.00

FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 11 of 34

EMISSION POINTS

(4) Emission Point ID: EP-13 (5) Emission Point Description: ACTIVE ASH POND
EP-15 ACTIVE ASH POND

PROCESS INFORMATION

(6) Emission Year: 2003 (7) Emission Unit No: EU-14 (8) SCC No: 30502507
 (9) Description of Process: ACTIVE ASH POND - EP13
 (10) Raw Material: ASH
 (11) Actual Throughput (Yearly Total): 21.00
 (12) Units Raw Material: ACRE YEARS

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

CE-11

(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>8.20E+02</u>	<u>POUNDS PER ACRE YEAR</u>	<u>AP42</u>		<u>90</u>	<u>0.86</u>
PARTICULATE MATTER	<u>1.37E+03</u>	<u>POUNDS PER ACRE YEAR</u>	<u>AP42</u>		<u>90</u>	<u>1.44</u>
SULFUR DIOXIDE						<u>0.00</u>
NITROGEN OXIDES						<u>0.00</u>
VOLATILE ORGANIC COMPOUNDS						<u>0.00</u>
CARBON MONOXIDE						<u>0.00</u>
LEAD						<u>0.00</u>

FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 12 of 34

EMISSION POINTS

(4) Emission Point ID	(5) Emission Point Description
EP-16	TEMPORARY ASH STORAGE AREA
EP-17	TEMPORARY ASH STORAGE AREA

PROCESS INFORMATION

(6) Emission Year: <u>2003</u>	(7) Emission Unit No: <u>EU-15</u>	(8) SCC No: <u>30502507</u>
(9) Description of Process:	<u>TEMPORARY ASH STORAGE AREA-EROSION</u>	
(10) Raw Material:	<u>ASH</u>	
(11) Actual Throughput (Yearly Total):	<u>13.00</u>	
(12) Units Raw Material:	<u>ACRE YEARS</u>	

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

CE-11

(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	8.20E+02	POUNDS PER ACRE YEAR	AP42		85	0.80
PARTICULATE MATTER	1.37E+03	POUNDS PER ACRE YEAR	AP42		85	1.33
SULFUR DIOXIDE						0.00
NITROGEN OXIDES						0.00
VOLATILE ORGANIC COMPOUNDS						0.00
CARBON MONOXIDE						0.00
LEAD						0.00

FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 13 of 34

EMISSION POINTS

(4) Emission Point ID	(5) Emission Point Description
EP-16	TEMPORARY ASH STORAGE AREA
EP-17	TEMPORARY ASH STORAGE AREA

PROCESS INFORMATION

(6) Emission Year: <u>2003</u>	(7) Emission Unit No: <u>EU-15</u>	(8) SCC No: <u>30500707</u>
(9) Description of Process:	<u>TEMPORARY ASH STORAGE AREA TRUCK LOADING</u>	
(10) Raw Material:	<u>ASH</u>	
(11) Actual Throughput (Yearly Total):	<u>0.00</u>	
(12) Units Raw Material:	<u>TONS</u>	

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

CE-11

(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-01	POUNDS PER TON	AP42		85	0.00
PARTICULATE MATTER	2.00E-01	POUNDS PER TON	AP42		85	0.00
SULFUR DIOXIDE						0.00
NITROGEN OXIDES						0.00
VOLATILE ORGANIC COMPOUNDS						0.00
CARBON MONOXIDE						0.00
LEAD						0.00

SUPPORTING DOCUMENTS

Supporting Documents: _____ Description: _____

FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 14 of 34

EMISSION POINTS

(4) Emission Point ID: EP-1 (5) Emission Point Description: BOILER #7-#8-#9 COMMON STACK

PROCESS INFORMATION

(6) Emission Year: 2003 (7) Emission Unit No: EU-2 (8) SCC No: 10101302
 (9) Description of Process: UTILITY BOILER, USED OIL COMBUSTION
 (10) Raw Material: WASTE OIL
 (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

CE-3 CE-4

(18) ASSOCIATED MONITORING EQUIPMENT ID'S

ME-4

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	1.47E+02	POUNDS PER 1000 GALLONS	AP42	.50		0.00
NITROGEN OXIDES	2.00E+01	POUNDS PER 1000 GALLONS	AP42			0.00
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 - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 15 of 34

EMISSION POINTS

(4) Emission Point ID: EP-1 (5) Emission Point Description: BOILER #7-#8-#9 COMMON STACK

PROCESS INFORMATION

(6) Emission Year: 2003 (7) Emission Unit No: EU-2 (8) SCC No: 10100601
 (9) Description of Process: UTILITY BOILER NATURAL GAS CONSUMPTION
 (10) Raw Material: NATURAL GAS
 (11) Actual Throughput (Yearly Total): 134.694
 (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>35</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>24</u>	<u>24</u>	<u>7</u>	<u>9</u>
<u>JUL</u>	<u>SEP</u>	<u>13</u>	<u>24</u>	<u>7</u>	<u>5</u>
<u>OCT</u>	<u>DEC</u>	<u>28</u>	<u>24</u>	<u>7</u>	<u>12</u>

(17) ASSOCIATED CONTROL EQUIPMENT ID'S

CE-3 CE-4

(18) ASSOCIATED MONITORING EQUIPMENT ID'S

ME-4

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			0.51
PARTICULATE MATTER	7.60E+00	POUNDS PER MILLION CUBIC FEET	FIRE			0.51
SULFUR DIOXIDE	6.00E-01	POUNDS PER MILLION CUBIC FEET	FIRE			0.04
NITROGEN OXIDES	2.80E+02	POUNDS PER MILLION CUBIC FEET	FIRE			18.86
VOLATILE ORGANIC COMPOUNDS	5.50E+00	POUNDS PER MILLION CUBIC FEET	FIRE			0.37
CARBON MONOXIDE	8.40E+01	POUNDS PER MILLION CUBIC FEET	FIRE			5.66
LEAD						
FORMALDEHYDE	7.50E-02	POUNDS PER MILLION CUBIC FEET	FIRE			0.01
HEXANE	1.80E+00	POUNDS PER MILLION CUBIC FEET	FIRE			0.12

SUPPORTING DOCUMENTS

Supporting Documents: _____ Description: _____

FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 16 of 34

EMISSION POINTS

(4) Emission Point ID: EP-1 (5) Emission Point Description: BOILER #7-#8-#9 COMMON STACK

PROCESS INFORMATION

(6) Emission Year: 2003 (7) Emission Unit No: EU-2 (8) SCC No: 10100222
 (9) Description of Process: UTILITY BOILER, PULVERIZED COAL, DRY BOTTOM
 (10) Raw Material: COAL
 (11) Actual Throughput (Yearly Total): 54,324.762
 (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>35</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>24</u>	<u>24</u>	<u>7</u>	<u>9</u>
<u>JUL</u>	<u>SEP</u>	<u>13</u>	<u>24</u>	<u>7</u>	<u>5</u>
<u>OCT</u>	<u>DEC</u>	<u>28</u>	<u>24</u>	<u>7</u>	<u>12</u>

(17) ASSOCIATED CONTROL EQUIPMENT ID'S

CE-3 CE-4

(18) ASSOCIATED MONITORING EQUIPMENT ID'S

ME-4

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	3.08E-02	POUNDS PER MILLION BTU	OTHER - PM COMPLIANCE TEST			14.51
PARTICULATE MATTER	4.60E-02	POUNDS PER MILLION BTU	OTHER - PM COMPLIANCE TEST			21.67
SULFUR DIOXIDE	3.50E+01	POUNDS PER TON	FIRE	.32		304.22
NITROGEN OXIDES	1.20E+01	POUNDS PER TON	FIRE			325.95
VOLATILE ORGANIC COMPOUNDS	6.00E-02	POUNDS PER TON	FIRE			1.63
CARBON MONOXIDE	5.00E-01	POUNDS PER TON	FIRE			13.58
LEAD						
METHYL CHLORIDE	5.30E-04	POUNDS PER TON	FIRE			0.01
MERCURY COMPOUNDS	1.07E-04	POUNDS PER TON	OTHER - COAL ANALYSIS			0.00
FORMALDEHYDE	2.40E-04	POUNDS PER TON	FIRE			0.01
MANGANESE COMPOUNDS	4.90E-04	POUNDS PER TON	FIRE			0.01
BENZENE	1.30E-03	POUNDS PER TON	FIRE			0.04
SELENIUM COMPOUNDS	1.30E-03	POUNDS PER TON	FIRE			0.04
ACETALDEHYDE	5.70E-04	POUNDS PER TON	FIRE			0.02
PROPIONALDEHYDE	3.80E-04	POUNDS PER TON	FIRE			0.01
METHYL ETHYL KETONE	3.90E-04	POUNDS PER TON	FIRE			0.01
TOLUENE	2.40E-04	POUNDS PER TON	FIRE			0.01
ISOPHORONE	5.80E-04	POUNDS PER TON	FIRE			0.02
HYDROGEN FLUORIDE	6.91E-02	POUNDS PER TON	OTHER - COAL ANALYSIS			1.88
ARSENIC COMPOUNDS	4.10E-04	POUNDS PER TON	FIRE			0.01
CHROMIUM COMPOUNDS	3.39E-04	POUNDS PER TON	FIRE			0.01
CYANIDE COMPOUNDS	2.50E-03	POUNDS PER TON	FIRE			0.07
ACROLEIN	2.90E-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)
HYDROCHLORIC ACID	1.30E-01	POUNDS PER TON	OTHER - COAL ANALYSIS			3.53
NICKEL COMPOUNDS	2.80E-04	POUNDS PER TON	FIRE			0.01
LEAD COMPOUNDS	4.20E-04	POUNDS PER TON	FIRE			0.01
DICHLOROMETHANE	2.90E-04	POUNDS PER TON	FIRE			0.01
BENZYL CHLORIDE	7.00E-04	POUNDS PER TON	FIRE			0.02

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 17 of 34

EMISSION POINTS

(4) Emission Point ID: EP-22 (5) Emission Point Description: SANDBLASTING - OUTSIDE

PROCESS INFORMATION

(6) Emission Year: 2003 (7) Emission Unit No: EU-27 (8) SCC No: 99999999
 (9) Description of Process: SANDBLASTING (OUTSIDE)
 (10) Raw Material: SAND
 (11) Actual Throughput (Yearly Total): 0.00
 (12) Units Raw Material: POUNDS

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>5</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>25</u>	<u>1</u>	<u>5</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>25</u>	<u>1</u>	<u>5</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>25</u>	<u>1</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	1.50E+01	POUNDS PER 100 POUNDS	OTHER - ENG.JUDGEMENT			0.00
PARTICULATE MATTER	3.00E+01	POUNDS PER 100 POUNDS	OTHER - ENG.JUDGEMENT			0.00
SULFUR DIOXIDE						0.00
NITROGEN OXIDES						0.00
VOLATILE ORGANIC COMPOUNDS						0.00
CARBON MONOXIDE						0.00
LEAD						0.00

FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 18 of 34

EMISSION POINTS

(4) Emission Point ID: EP-1 (5) Emission Point Description: BOILER #7-#8-#9 COMMON STACK

PROCESS INFORMATION

(6) Emission Year: 2003 (7) Emission Unit No: EU-3 (8) SCC No: 10100222
 (9) Description of Process: UTILITY BOILER, PULVERIZED COAL, DRY BOTTOM
 (10) Raw Material: COAL
 (11) Actual Throughput (Yearly Total): 53,168.922
 (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>37</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>22</u>	<u>24</u>	<u>7</u>	<u>8</u>
<u>JUL</u>	<u>SEP</u>	<u>11</u>	<u>24</u>	<u>7</u>	<u>5</u>
<u>OCT</u>	<u>DEC</u>	<u>30</u>	<u>24</u>	<u>7</u>	<u>11</u>

(17) ASSOCIATED CONTROL EQUIPMENT ID'S

CE-3 CE-4

(18) ASSOCIATED MONITORING EQUIPMENT ID'S

ME-4

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	3.08E-02	POUNDS PER MILLION BTU	OTHER - PM COMPLIANCE TEST			14.20
PARTICULATE MATTER	4.60E-02	POUNDS PER MILLION BTU	OTHER - PM COMPLIANCE TEST			21.21
SULFUR DIOXIDE	3.50E+01	POUNDS PER TON	FIRE	.32		297.75
NITROGEN OXIDES	1.20E+01	POUNDS PER TON	FIRE			319.01
VOLATILE ORGANIC COMPOUNDS	6.00E-02	POUNDS PER TON	FIRE			1.60
CARBON MONOXIDE	5.00E-01	POUNDS PER TON	FIRE			13.29
LEAD		POUNDS PER TON				
METHYL CHLORIDE	5.30E-04	POUNDS PER TON	FIRE			0.01
MANGANESE COMPOUNDS	4.90E-04	POUNDS PER TON	FIRE			0.01
FORMALDEHYDE	2.40E-04	POUNDS PER TON	FIRE			0.01
NICKEL COMPOUNDS	2.80E-04	POUNDS PER TON	FIRE			0.01
BENZENE	1.30E-03	POUNDS PER TON	FIRE			0.03
PROPIONALDEHYDE	3.80E-04	POUNDS PER TON	FIRE			0.01
ACETALDEHYDE	5.70E-04	POUNDS PER TON	FIRE			0.02
METHYL ETHYL KETONE	3.90E-04	POUNDS PER TON	FIRE			0.01
TOLUENE	2.40E-04	POUNDS PER TON	FIRE			0.01
ISOPHORONE	5.80E-04	POUNDS PER TON	FIRE			0.02
HYDROGEN FLUORIDE	6.91E-02	POUNDS PER TON	OTHER - COAL ANALYSIS			1.84
ACROLEIN	2.90E-04	POUNDS PER TON	FIRE			0.01
ARSENIC COMPOUNDS	4.10E-04	POUNDS PER TON	FIRE			0.01
CHROMIUM COMPOUNDS	3.39E-04	POUNDS PER TON	FIRE			0.01
CYANIDE COMPOUNDS	2.50E-03	POUNDS PER TON	FIRE			0.07
HYDROCHLORIC ACID	1.30E-01	POUNDS PER TON	OTHER - COAL ANALYSIS			3.46

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)
DICHLOROMETHANE	2.90E-04	POUNDS PER TON	FIRE			0.01
LEAD COMPOUNDS	4.20E-04	POUNDS PER TON	FIRE			0.01
SELENIUM COMPOUNDS	1.30E-03	POUNDS PER TON	FIRE			0.03
BENZYL CHLORIDE	7.00E-04	POUNDS PER TON	FIRE			0.02

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 19 of 34

EMISSION POINTS

(4) Emission Point ID: EP-1 (5) Emission Point Description: BOILER #7-#8-#9 COMMON STACK

PROCESS INFORMATION

(6) Emission Year: 2003 (7) Emission Unit No: EU-3 (8) SCC No: 50300501
 (9) Description of Process: INDUSTRIAL INCINERATION (WASTE SOLVENTS)
 (10) Raw Material: SOLVENTS
 (11) Actual Throughput (Yearly Total): 0.00
 (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>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

CE-3 CE-4

(18) ASSOCIATED MONITORING EQUIPMENT ID'S

ME-4

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	3.00E-01	POUNDS PER MILLION BTU	AP42		95	0.00
PARTICULATE MATTER	3.00E-01	POUNDS PER MILLION BTU	AP42		95	0.00
SULFUR DIOXIDE	1.30E-01	POUNDS PER MILLION BTU	AP42			0.00
NITROGEN OXIDES	1.40E-01	POUNDS PER MILLION BTU	AP42			0.00
VOLATILE ORGANIC COMPOUNDS	3.00E-01	POUNDS PER MILLION BTU	AP42			0.00
CARBON MONOXIDE	5.00E-01	POUNDS PER MILLION BTU	AP42			0.00
LEAD						0.00

SUPPORTING DOCUMENTS

Supporting Documents: _____ Description: _____

FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 20 of 34

EMISSION POINTS

(4) Emission Point ID: EP-1 (5) Emission Point Description: BOILER #7-#8-#9 COMMON STACK

PROCESS INFORMATION

(6) Emission Year: 2003 (7) Emission Unit No: EU-3 (8) SCC No: 10101302
 (9) Description of Process: UTILITY BOILER, USED OIL CONSUMPTION
 (10) Raw Material: WASTE OIL
 (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

CE-3 CE-4

(18) ASSOCIATED MONITORING EQUIPMENT ID'S

ME-4

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	1.47E+02	POUNDS PER 1000 GALLONS	AP42	.50		0.00
NITROGEN OXIDES	2.00E+01	POUNDS PER 1000 GALLONS	AP42			0.00
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	1.68E+00	POUNDS PER 1000 GALLONS	AP42			0.00

SUPPORTING DOCUMENTS

Supporting Documents: _____ Description: _____

FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 21 of 34

EMISSION POINTS

(4) Emission Point ID: EP-1 (5) Emission Point Description: BOILER #7-#8-#9 COMMON STACK

PROCESS INFORMATION

(6) Emission Year: 2003 (7) Emission Unit No: EU-3 (8) SCC No: 10100601
 (9) Description of Process: UTILITY BOILER NATURAL GAS CONSUMPTION
 (10) Raw Material: NATURAL GAS
 (11) Actual Throughput (Yearly Total): 131.83
 (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>37</u>	<u>24</u>	<u>7</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>22</u>	<u>24</u>	<u>7</u>	<u>8</u>
<u>JUL</u>	<u>SEP</u>	<u>11</u>	<u>24</u>	<u>7</u>	<u>5</u>
<u>OCT</u>	<u>DEC</u>	<u>30</u>	<u>24</u>	<u>7</u>	<u>11</u>

(17) ASSOCIATED CONTROL EQUIPMENT ID'S

CE-3 CE-4

(18) ASSOCIATED MONITORING EQUIPMENT ID'S

ME-4

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			0.50
PARTICULATE MATTER	7.60E+00	POUNDS PER MILLION CUBIC FEET	FIRE			0.50
SULFUR DIOXIDE	6.00E-01	POUNDS PER MILLION CUBIC FEET	FIRE			0.04
NITROGEN OXIDES	2.80E+02	POUNDS PER MILLION CUBIC FEET	FIRE			18.46
VOLATILE ORGANIC COMPOUNDS	5.50E+00	POUNDS PER MILLION CUBIC FEET	FIRE			0.36
CARBON MONOXIDE	8.40E+01	POUNDS PER MILLION CUBIC FEET	FIRE			5.54
LEAD						0.00
HEXANE	1.80E+00	POUNDS PER MILLION CUBIC FEET	FIRE			0.12

SUPPORTING DOCUMENTS

Supporting Documents: _____ Description: _____

FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - RIVERSIDE (2) EIQ No: 92-2692

(3) Page 23 of 34

EMISSION POINTS(4) Emission Point ID
EP-2(5) Emission Point Description
BOILER #6 STACK**PROCESS INFORMATION**

(6) Emission Year: 2003 (7) Emission Unit No: EU-4 (8) SCC No: 10100222

(9) Description of Process: UTILITY BOILER, PULVERIZED COAL, DRY BOTTOM

(10) Raw Material: COAL

(11) Actual Throughput (Yearly Total): 8,090.92

(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
JAN	MAR	7	24	2	2
APR	JUN	0	0	0	0
JUL	SEP	66	24	7	4
OCT	DEC	27	24	5	2

(17) ASSOCIATED CONTROL EQUIPMENT ID'S

CE-5

(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	2.39E-02	POUNDS PER MILLION BTU	OTHER - PM COMPLIANCE TEST			1.68
PARTICULATE MATTER	3.57E-02	POUNDS PER MILLION BTU	OTHER - PM COMPLIANCE TEST			2.50
SULFUR DIOXIDE	3.50E+01	POUNDS PER TON	FIRE	.32		45.31
NITROGEN OXIDES	1.20E+01	POUNDS PER TON	FIRE			48.55
VOLATILE ORGANIC COMPOUNDS	6.00E-02	POUNDS PER TON	FIRE			0.24
CARBON MONOXIDE	5.00E-01	POUNDS PER TON	FIRE			2.02
LEAD		POUNDS PER TON				
SELENIUM COMPOUNDS	1.30E-03	POUNDS PER TON	FIRE			0.01
CYANIDE COMPOUNDS	2.50E-03	POUNDS PER TON	FIRE			0.01
HYDROGEN FLUORIDE	6.91E-02	POUNDS PER TON	OTHER - COAL ANALYSIS			0.28
HYDROCHLORIC ACID	1.30E-01	POUNDS PER TON	OTHER - COAL ANALYSIS			0.53
BENZENE	1.30E-03	POUNDS PER TON	FIRE			0.01

FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 24 of 34

EMISSION POINTS

(4) Emission Point ID	(5) Emission Point Description
<u>EP-35</u>	<u>PROCESS HEATER VAPORIZER 1 STACK 1 LNG</u>
<u>EP-36</u>	<u>PROCESS HEATER VAPORIZER 1 STACK 2 LNG</u>

PROCESS INFORMATION

(6) Emission Year: <u>2003</u>	(7) Emission Unit No: <u>EU-42</u>	(8) SCC No: <u>10500206</u>
(9) Description of Process:	<u>PROCESS HEATER VAPORIZER 1 LNG</u>	
(10) Raw Material:	<u>NATURAL GAS</u>	
(11) Actual Throughput (Yearly Total):	<u>2.44</u>	
(12) Units Raw Material:	<u>MILLION CUBIC FEET</u>	

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>6</u>	<u>2</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	3.00E+00	POUNDS PER MILLION CUBIC FEET	FIRE			0.00
PARTICULATE MATTER	3.00E+00	POUNDS PER MILLION CUBIC FEET	FIRE			0.00
SULFUR DIOXIDE	6.00E-01	POUNDS PER MILLION CUBIC FEET	FIRE			0.00
NITROGEN OXIDES	1.00E+02	POUNDS PER MILLION CUBIC FEET	FIRE			0.12
VOLATILE ORGANIC COMPOUNDS	5.30E+00	POUNDS PER MILLION CUBIC FEET	FIRE			0.01
CARBON MONOXIDE	2.00E+01	POUNDS PER MILLION CUBIC FEET	FIRE			0.02
LEAD						0.00

SUPPORTING DOCUMENTS

Supporting Documents: _____ Description: _____

FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 25 of 34

EMISSION POINTS

(4) Emission Point ID	(5) Emission Point Description
EP-37	PROCESS HEATER VAPORIZER 2 STACK 1 LNG
EP-38	PROCESS HEATER VAPORIZER 2 STACK 2 LNG

PROCESS INFORMATION

(6) Emission Year: <u>2003</u>	(7) Emission Unit No: <u>EU-43</u>	(8) SCC No: <u>10500206</u>
(9) Description of Process:	<u>PROCESS HEATER VAPORIZER 2 LNG</u>	
(10) Raw Material:	<u>NATURAL GAS</u>	
(11) Actual Throughput (Yearly Total):	<u>2.44</u>	
(12) Units Raw Material:	<u>MILLION CUBIC FEET</u>	

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>6</u>	<u>2</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	3.00E+00	POUNDS PER MILLION CUBIC FEET	FIRE			0.00
PARTICULATE MATTER	3.00E+00	POUNDS PER MILLION CUBIC FEET	FIRE			0.00
SULFUR DIOXIDE	6.00E-01	POUNDS PER MILLION CUBIC FEET	FIRE			0.00
NITROGEN OXIDES	1.00E+02	POUNDS PER MILLION CUBIC FEET	FIRE			0.12
VOLATILE ORGANIC COMPOUNDS	5.30E+00	POUNDS PER MILLION CUBIC FEET	FIRE			0.01
CARBON MONOXIDE	2.00E+01	POUNDS PER MILLION CUBIC FEET	FIRE			0.02
LEAD						0.00

SUPPORTING DOCUMENTS

Supporting Documents: _____ Description: _____

FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 26 of 34

EMISSION POINTS

(4) Emission Point ID: EP-39 (5) Emission Point Description: REGENERATION HEATER EXHAUST-LNG

PROCESS INFORMATION

(6) Emission Year: 2003 (7) Emission Unit No: EU-44 (8) SCC No: 10500206
 (9) Description of Process: REGENERATION HEATER EXHAUST - LNG
 (10) Raw Material: NATURAL GAS
 (11) Actual Throughput (Yearly Total): 2.67
 (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>30</u>	<u>24</u>	<u>7</u>	<u>8</u>
<u>JUL</u>	<u>SEP</u>	<u>24</u>	<u>24</u>	<u>7</u>	<u>5</u>
<u>OCT</u>	<u>DEC</u>	<u>46</u>	<u>24</u>	<u>7</u>	<u>11</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	3.00E+00	POUNDS PER MILLION CUBIC FEET	AP42			0.00
PARTICULATE MATTER	3.00E+00	POUNDS PER MILLION CUBIC FEET	AP42			0.00
SULFUR DIOXIDE	6.00E-01	POUNDS PER MILLION CUBIC FEET	AP42			0.00
NITROGEN OXIDES	1.00E+02	POUNDS PER MILLION CUBIC FEET	AP42			0.13
VOLATILE ORGANIC COMPOUNDS	5.30E+00	POUNDS PER MILLION CUBIC FEET	AP42			0.01
CARBON MONOXIDE	2.00E+01	POUNDS PER MILLION CUBIC FEET	AP42			0.03
LEAD						0.00

SUPPORTING DOCUMENTS

Supporting Documents: _____ Description: _____

FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 27 of 34

EMISSION POINTS

(4) Emission Point ID	(5) Emission Point Description
EP-3	FUGITIVE COAL DUST
EP-4	FUGITIVE COAL DUST

PROCESS INFORMATION

(6) Emission Year: <u>2003</u>	(7) Emission Unit No: <u>EU-5</u>	(8) SCC No: <u>30501046</u>
(9) Description of Process:	<u>VEHICLE ACTIVITY AT STOCK-OUT PILE RECLAIM-EP4</u>	
(10) Raw Material:	<u>COAL</u>	
(11) Actual Throughput (Yearly Total):	<u>1,111.00</u>	
(12) Units Raw Material:	<u>HOURS</u>	

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>28</u>	<u>6</u>	<u>6</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>26</u>	<u>6</u>	<u>6</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>22</u>	<u>6</u>	<u>6</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>24</u>	<u>6</u>	<u>6</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			7.36
PARTICULATE MATTER	4.94E+01	POUNDS PER HOUR	FIRE			27.44
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 - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 28 of 34

EMISSION POINTS

(4) Emission Point ID	(5) Emission Point Description
EP-3	FUGITIVE COAL DUST
EP-4	FUGITIVE COAL DUST

PROCESS INFORMATION

(6) Emission Year: <u>2003</u>	(7) Emission Unit No: <u>EU-5</u>	(8) SCC No: <u>30501008</u>
(9) Description of Process:	<u>VEHICLE ACTIVITY AT HOPPER CAR UNLOADING-EP3</u>	
(10) Raw Material:	<u>COAL</u>	
(11) Actual Throughput (Yearly Total):	<u>629,757.00</u>	
(12) Units Raw Material:	<u>TONS</u>	

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>29</u>	<u>10</u>	<u>6</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>25</u>	<u>10</u>	<u>6</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>24</u>	<u>10</u>	<u>6</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>22</u>	<u>10</u>	<u>6</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	6.00E-03	POUNDS PER TON	FIRE			1.89
PARTICULATE MATTER	2.00E-02	POUNDS PER TON	FIRE			6.30
SULFUR DIOXIDE						0.00
NITROGEN OXIDES						0.00
VOLATILE ORGANIC COMPOUNDS						0.00
CARBON MONOXIDE						0.00
LEAD						0.00

SUPPORTING DOCUMENTS

Supporting Documents: _____ Description: _____

FORM 4.0 EMISSION UNIT - ACTUAL OPERATIONS AND EMISSIONS

(1) Company/Facility Name: MIDAMERICAN ENERGY CO - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 29 of 34

EMISSION POINTS

(4) Emission Point ID: EP-5 (5) Emission Point Description: COAL STOCK OUT PILE-FUGITIVE DUST

PROCESS INFORMATION

(6) Emission Year: 2003 (7) Emission Unit No: EU-6A (8) SCC No: 30501011
 (9) Description of Process: STOCKOUT PILE BOOM CONVEYOR
 (10) Raw Material: COAL
 (11) Actual Throughput (Yearly Total): 151,772.30
 (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>28</u>	<u>6</u>	<u>6</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>26</u>	<u>6</u>	<u>6</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>22</u>	<u>6</u>	<u>6</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>24</u>	<u>6</u>	<u>6</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>8.50E-04</u>	<u>POUNDS PER TON</u>	<u>AP42</u>			<u>0.06</u>
PARTICULATE MATTER	<u>1.80E-03</u>	<u>POUNDS PER TON</u>	<u>AP42</u>			<u>0.14</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 - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 30 of 34

EMISSION POINTS

(4) Emission Point ID: EP-5 (5) Emission Point Description: COAL STOCK OUT PILE-FUGITIVE DUST

PROCESS INFORMATION

(6) Emission Year: 2003 (7) Emission Unit No: EU-6B (8) SCC No: 30501011
 (9) Description of Process: STOCKOUT PILE DEPOSIT
 (10) Raw Material: COAL
 (11) Actual Throughput (Yearly Total): 151,772.30
 (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>28</u>	<u>6</u>	<u>6</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>26</u>	<u>6</u>	<u>6</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>22</u>	<u>6</u>	<u>6</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>24</u>	<u>6</u>	<u>6</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>8.50E-04</u>	<u>POUNDS PER TON</u>	<u>AP42</u>			<u>0.06</u>
PARTICULATE MATTER	<u>1.80E-03</u>	<u>POUNDS PER TON</u>	<u>AP42</u>			<u>0.14</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 - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 31 of 34

EMISSION POINTS

(4) Emission Point ID: EP-5 (5) Emission Point Description: COAL STOCK OUT PILE-FUGITIVE DUST

PROCESS INFORMATION

(6) Emission Year: 2003 (7) Emission Unit No: EU-6C (8) SCC No: 30501011
 (9) Description of Process: STOCKOUT PILE S-BELT
 (10) Raw Material: COAL
 (11) Actual Throughput (Yearly Total): 151,772.30
 (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>28</u>	<u>6</u>	<u>6</u>	<u>13</u>
<u>APR</u>	<u>JUN</u>	<u>26</u>	<u>6</u>	<u>6</u>	<u>13</u>
<u>JUL</u>	<u>SEP</u>	<u>22</u>	<u>6</u>	<u>6</u>	<u>13</u>
<u>OCT</u>	<u>DEC</u>	<u>24</u>	<u>6</u>	<u>6</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	8.50E-04	POUNDS PER TON	AP42			0.06
PARTICULATE MATTER	1.80E-03	POUNDS PER TON	AP42			0.14
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 - RIVERSIDE (2) EIQ No: 92-2692 (3) Page 32 of 34

EMISSION POINTS

(4) Emission Point ID: EP-5 (5) Emission Point Description: COAL STOCK OUT PILE-FUGITIVE DUST

PROCESS INFORMATION

(6) Emission Year: 2003 (7) Emission Unit No: EU-6D (8) SCC No: 30501043
 (9) Description of Process: STOCK PILE WIND EROSION
 (10) Raw Material: COAL
 (11) Actual Throughput (Yearly Total): 4.70
 (12) Units Raw Material: ACRE YEARS

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 YEAR	AP42			40.09
PARTICULATE MATTER	3.41E+04	POUNDS PER ACRE YEAR	AP42			80.18
SULFUR DIOXIDE						
NITROGEN OXIDES						
VOLATILE ORGANIC COMPOUNDS						
CARBON MONOXIDE						
LEAD						

SUPPORTING DOCUMENTS

Supporting Documents: _____ Description: _____

