

US EPA ARCHIVE DOCUMENT

|    | B                                    | C  |
|----|--------------------------------------|--|
| 1  | <b>Source Description</b>            |  |
| 2  |                                      |  |
| 3  | Phase I ID No.                       | 228  |
| 4  | EPA ID No.                           | ARD981512270   |
| 5  | Facility Name                        | Ash Grove Cement Company   |
| 6  | Facility Location                    |  |
| 7  | City                                 | Foreman  |
| 8  | State                                | AR   |
| 9  | Unit ID Name/No.                     | Kiln No. 2   |
| 10 | Other Sister Facilities              |  |
| 11 | Number of Sister Facilities          | Currently sister to 403 for metals                                     |
| 12 | Combustor Class                      | Cement Kiln (CK)   |
| 13 | Combustor Type                       | Wet, long  |
| 14 | Combustor Characteristics            |  |
| 15 | Capacity (MMBtu/hr)                  |  |
| 16 | APCS Detailed Acronym                | ESP  |
| 17 | APCS General Class                   | ESP  |
| 18 | APCS Characteristics                 | SCA = 450  |
| 19 | Hazardous Wastes                     | Liq, solid   |
| 20 | Haz Waste Description                | Solid haz waste and tires fired in mid-kiln hatch                      |
| 21 | Supplemental Fuel                    | Coal, natural gas  |
| 22 |                                      |  |
| 23 | Stack Characteristics                |  |
| 24 | Diameter (ft)                        | 8.5  |
| 25 | Height (ft)                          | 150.0  |
| 26 | Gas Velocity (ft/sec)                | 17.1   |
| 27 | Gas Temperature (°F)                 | 432.6  |
| 28 |                                      |  |
| 29 | Permitting Status                    | Tier I for Hg, Ag, Tl, Sb, and Ba; Tier III for Pb, As, Be, Cd, and Cr |
| 30 | HWC Burn Status (Date if Terminated) | Y  |

|    | B                            | C   |
|----|------------------------------|---|
| 1  | <b>Condition Description</b> |   |
| 2  |                              |   |
| 3  | <b>228C10</b>                |   |
| 4  |                              |   |
| 5  | Report Name/Date             | RCRA Cement Kiln Test Burn Report Kiln 3, April 1998  |
| 6  | Report Prepare               | Ash Grove Cement  |
| 7  | Testing Firm                 | AirSource Technologies  |
| 8  | Testing Dates                | December 12-13, 1997  |
| 9  | Cond Dates                   | Dec-97  |
| 10 | Condition Descr              | Normal operating cond   |
| 11 | Content                      | PM, HCl/Cl <sub>2</sub>   |
| 12 |                              |   |
| 13 | <b>228C11</b>                |   |
| 14 |                              |   |
| 15 | Report Name/Date             | RCRA Cement Kiln Test Burn Report Kiln 3, April 1998  |
| 16 | Report Prepare               | Ash Grove Cement  |
| 17 | Testing Firm                 | AirSource Technologies  |
| 18 | Testing Dates                | January 6-8, 1998   |
| 19 | Cond Dates                   | Jan-98  |
| 20 | Condition Descr              | D/F test at max APCD temp and max CO, APCD worst case   |
| 21 | Content                      | D/F, CO, HC, PM   |
| 22 |                              |   |
| 23 | <b>228C1</b>                 |   |
| 24 |                              |   |
| 25 | Report Name/Date             | Ash Grove Foreman Arkansas, RCRA Trial Burn Report and Certification of Compliance for Kiln No. 2, May 1992   |
| 26 | Report Prepare               | Ash Grove   |
| 27 | Testing Firm                 | AirSource Tech  |
| 28 | Cond Descr                   | CoC, APCD TEMP > 450, MAX HW FEED, MAX PROD   |
| 29 | Testing Dates                | December 10-11, 1991  |
| 30 | Cond Dates                   | Dec-91  |
| 31 |                              |   |
| 32 | <b>228C2</b>                 |   |
| 33 |                              |   |
| 34 | Report Name/Date             | Ash Grove Foreman Arkansas, RCRA Trial Burn Report and Certification of Compliance for Kiln No. 2, May 1992   |
| 35 | Report Prepare               | Ash Grove   |
| 36 | Testing Firm                 | AirSource Tech  |
| 37 | Cond Descr                   | CoC, MAX HW FEED  |
| 38 | Testing Dates                | December 13-16, 1991  |
| 39 | Cond Dates                   | Dec-91  |
| 40 |                              |   |
| 41 | <b>228C3</b>                 |   |
| 42 |                              |   |
| 43 | Report Name/Date             | Ash Grove Foreman Arkansas, RCRA Trial Burn Report and Certification of Compliance for Kiln No. 2, May 1992   |
| 44 | Report Prepare               | Ash Grove   |
| 45 | Testing Firm                 | AirSource Tech  |
| 46 | Cond Descr                   | CoC, APCD TEMP > 450  |
| 47 | Testing Dates                | January 7-8, 1992   |
| 48 | Cond Dates                   | Jan-92  |
| 49 |                              |   |
| 50 | <b>228C4</b>                 |   |
| 51 |                              |   |
| 52 | Report Name/Date             | Ash Grove Foreman Arkansas, Report on Destruction and Removal Efficiency Determined at Minimum Combustion Chamber Temperature, Kiln No 2, submitted July 1993 |
| 53 | Report Prepare               | Ash Grove   |
| 54 | Testing Firm                 | AirSource Tech  |
| 55 | Cond Descr                   | DRE, LOW COMB TEMP/DRE TEST   |
| 56 | Testing Dates                | July 28, 1993   |
| 57 | Cond Dates                   | Jul-93  |
| 58 |                              |   |
| 59 | <b>228C5</b>                 |   |
| 60 |                              |   |
| 61 | Report Name/Date             | Data contained in letter from Steven Bales (Ash Grove) to Warren Owens (REI), dated November 18, 1993   |
| 62 | Report Prepare               | Ash Grove   |
| 63 | Testing Firm                 |   |
| 64 | Cond Descr                   | TO STUDY THE FORMATION OF DIOXINS/FURANS  |
| 65 | Testing Dates                | October 1, 1993   |

|    | B                | C  |
|----|------------------|--|
| 66 | Cond Dates       | Oct-93   |
| 67 |                  |  |
| 68 | <b>228C6</b>     |  |
| 69 |                  |  |
| 70 | Report Name/Date | Source Emission Survey of Ash Grove Foreman Cement, Kiln No 2 North and Sorth Stacks, Foreman Arkansas, October 1988, METCO File Number 88-170 |
| 71 | Report Prepare   | METCO  |
| 72 | Testing Firm     | METCO  |
| 73 | Cond Descr       | FIRING HW SOLID WASTE AND COAL   |
| 74 | Testing Dates    | October 24-27, 1988  |
| 75 | Cond Dates       | Oct-88   |
| 76 |                  |  |
| 77 | <b>228C7</b>     |  |
| 78 |                  |  |
| 79 | Report Name/Date | Source Emission Survey of Ash Grove Foreman Cement, Kiln No 2 North and Sorth Stacks, Foreman Arkansas, October 1988, METCO File Number 88-170 |
| 80 | Report Prepare   | METCO  |
| 81 | Testing Firm     | METCO  |
| 82 | Cond Descr       | FIRING HW SOLID, LIQUID WASTE AND COAL   |
| 83 | Testing Dates    | October 24-27, 1988  |
| 84 | Cond Dates       | Oct-88   |

|    | B                            | C        | D       | E | F | G      | H | I      | J | K       | L | M | N | O        |
|----|------------------------------|----------|---------|---|---|--------|---|--------|---|---------|---|---|---|----------|
| 1  | <b>Stack Gas Emissions 1</b> |          |         |   |   |        |   |        |   |         |   |   |   |          |
| 2  |                              |          |         |   |   |        |   |        |   |         |   |   |   |          |
| 3  |                              |          |         |   |   |        |   |        |   |         |   |   |   |          |
| 4  | <b>228C10</b>                |          |         |   |   | R1     |   | R2     |   | R3      |   |   |   | Cond Avg |
| 5  |                              |          |         |   |   |        |   |        |   |         |   |   |   |          |
| 6  | PM                           | E1       | gr/dscf | y |   | 0.0939 |   | 0.0727 |   | 0.0346  |   |   |   | 0.0671   |
| 7  |                              |          |         |   |   |        |   |        |   |         |   |   |   |          |
| 8  | CO (MHRA)                    | E1       | ppmv    | y |   | 253    |   | 446    |   | 341     |   |   |   | 346.7    |
| 9  | HC (MHRA)                    | E1       | ppmv    | y |   | 8.7    |   | 16.2   |   | 15.1    |   |   |   | 13.3     |
| 10 |                              |          |         |   |   |        |   |        |   |         |   |   |   |          |
| 11 | HCl                          |          | g/hr    |   |   | 3653.0 |   | 3006.0 |   | 3502.0  |   |   |   |          |
| 12 | Cl2                          |          | g/hr    |   |   | 0.77   |   | 0.75   |   | 0.74    |   |   |   |          |
| 13 |                              |          |         |   |   |        |   |        |   |         |   |   |   |          |
| 14 | HCl                          | E1       | ppmv    | y |   | 19.73  |   | 17.47  |   | 19.18   |   |   |   | 18.8     |
| 15 | Cl2                          | E1       | ppmv    | y |   | 0.002  |   | 0.002  |   | 0.002   |   |   |   | 0.0      |
| 16 | Total Chlorine               | E1       | ppmv    | y |   | 19.73  |   | 17.47  |   | 19.18   |   |   |   | 18.8     |
| 17 |                              |          |         |   |   |        |   |        |   |         |   |   |   |          |
| 18 | Sampling Train               | PM, H E1 |         |   |   |        |   |        |   |         |   |   |   |          |
| 19 | Stack Gas Flowrate           |          | dscfm   |   |   | 74040  |   | 68821  |   | 73008   |   |   |   | 71956.3  |
| 20 | O2                           |          | %       |   |   | 7.4    |   | 7.4    |   | 7.4     |   |   |   | 7.4      |
| 21 | Moisture                     |          | %       |   |   | 36.99  |   | 38.89  |   | 36.26   |   |   |   | 37.4     |
| 22 | Temperature                  |          | °F      |   |   | 401    |   | 355    |   | 383     |   |   |   | 379.7    |
| 23 |                              |          |         |   |   |        |   |        |   |         |   |   |   |          |
| 24 |                              |          |         |   |   |        |   |        |   |         |   |   |   |          |
| 25 | <b>228C11</b>                |          |         |   |   | R1     |   | R2     |   | R3      |   |   |   | Cond Avg |
| 26 |                              |          |         |   |   |        |   |        |   |         |   |   |   |          |
| 27 | CO (RA)                      | E1       | ppmv    | y |   | 262    |   | 356    |   | 446     |   |   |   | 354.7    |
| 28 | CO (MHRA)                    | E1       | ppmv    | y |   | 428    |   | 597    |   | 708     |   |   |   | 577.7    |
| 29 | HC (RA)                      | E1       | ppmv    | y |   | 10.6   |   | 13.8   |   | 13.9    |   |   |   | 12.8     |
| 30 | HC (MHRA)                    | E1       | ppmv    | y |   | 15.3   |   | 18.9   |   | 18.6    |   |   |   | 17.6     |
| 31 |                              |          |         |   |   |        |   |        |   |         |   |   |   |          |
| 32 | PM                           | E1       | gr/dscf | y |   | 0.0191 |   | 0.035  |   | 0.00979 |   |   |   | 0.0213   |
| 33 |                              |          |         |   |   |        |   |        |   |         |   |   |   |          |
| 34 | Sampling Train               | PM       | E1      |   |   |        |   |        |   |         |   |   |   |          |
| 35 | Stack Gas Flowrate           |          | dscfm   |   |   | 65247  |   | 65849  |   | 65397   |   |   |   | 65497.7  |
| 36 | O2                           |          | %       |   |   | 7.69   |   | 6.54   |   | 6.99    |   |   |   | 7.1      |
| 37 | Moisture                     |          | %       |   |   | 35.75  |   | 36.54  |   | 36.17   |   |   |   | 36.2     |
| 38 | Temperature                  |          | °F      |   |   | 422    |   | 428    |   | 396     |   |   |   | 415.3    |
| 39 |                              |          |         |   |   |        |   |        |   |         |   |   |   |          |
| 40 | Sampling Train               | PCD E2   |         |   |   |        |   |        |   |         |   |   |   |          |
| 41 | Stack Gas Flowrate           |          | dscfm   |   |   | 68112  |   | 64635  |   | 66570   |   |   |   | 66439.0  |
| 42 | O2                           |          | %       |   |   | 7.31   |   | 6.92   |   | 6.68    |   |   |   | 7.0      |
| 43 | Moisture                     |          | %       |   |   | 36.12  |   | 36.86  |   | 36.44   |   |   |   | 36.5     |
| 44 | Temperature                  |          | °F      |   |   | 424    |   | 425    |   | 398     |   |   |   | 415.7    |

|    | B                            | C           | D       | E | F | G        | H       | I       | J       | K       | L       | M     | N  | O        | P | Q | R | S | T | U | V     | W     | X      |         |
|----|------------------------------|-------------|---------|---|---|----------|---------|---------|---------|---------|---------|-------|----|----------|---|---|---|---|---|---|-------|-------|--------|---------|
| 1  | <b>Stack Gas Emissions 2</b> |             |         |   |   |          |         |         |         |         |         |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 2  |                              |             |         |   |   |          |         |         |         |         |         |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 3  |                              |             |         |   |   |          |         |         |         |         |         |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 4  | <b>228C1</b>                 |             |         |   |   | R1       | R2      | R3      | R4      | R5      | R6      | R7    | R8 | Cond Avg |   |   |   |   |   |   |       |       |        |         |
| 5  |                              |             |         |   |   |          |         |         |         |         |         |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 6  | CO (MHRA)                    | E1          | ppmv    | y |   | 815.00   | 666.00  | 837.00  |         |         |         |       |    |          |   |   |   |   |   |   |       |       | 772.67 |         |
| 7  | CO (RA)                      | E1          | ppmv    | y |   | 522.00   | 475.00  | 549.00  |         |         |         |       |    |          |   |   |   |   |   |   |       |       |        | 515.33  |
| 8  | HC (MHRA)                    | E1          | ppmv    | y |   | 33.10    | 16.70   | 17.60   |         |         |         |       |    |          |   |   |   |   |   |   |       |       |        | 22.47   |
| 9  | HC (RA)                      | E1          | ppmv    | y |   | 20.60    | 13.90   | 14.40   |         |         |         |       |    |          |   |   |   |   |   |   |       |       |        | 16.30   |
| 10 |                              |             |         |   |   |          |         |         |         |         |         |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 11 | 1,1,1-Trichloroethane        | DRE         | %       |   |   | 99.99995 |         |         |         |         |         |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 12 | 1,2,4-Trichlorobenzene       | DRE         | %       |   |   | 99.99999 |         |         |         |         |         |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 13 | Tetrachloroethane            | DRE         | %       |   |   | 99.9998  |         |         |         |         |         |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 14 |                              |             |         |   |   |          |         |         |         |         |         |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 15 | <b>228C2</b>                 |             |         |   |   | R1       | R2      | R3      | R4      | R5      | R6      | R7    | R8 | Cond Avg |   |   |   |   |   |   |       |       |        |         |
| 16 |                              |             |         |   |   |          |         |         |         |         |         |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 17 | PM                           | E1          | gr/dscf | y |   | 0.00930  | 0.00850 | 0.00950 | 0.00830 | 0.00780 | 0.03260 |       |    |          |   |   |   |   |   |   |       |       |        | 0.01647 |
| 18 | CO (MHRA)                    | E1          | ppmv    | y |   |          | 593.00  |         | 160.00  |         | 314.00  |       |    |          |   |   |   |   |   |   |       |       |        | 355.7   |
| 19 | CO (RA)                      | E1          | ppmv    | y |   |          | 339.00  |         | 105.00  |         | 264.00  |       |    |          |   |   |   |   |   |   |       |       |        | 236.0   |
| 20 | HC (MHRA)                    | E1          | ppmv    | y |   |          | 14.90   |         | 4.10    |         | 5.30    |       |    |          |   |   |   |   |   |   |       |       |        | 8.1     |
| 21 | HC (RA)                      | E1          | ppmv    | y |   |          | 9.60    |         | 2.70    |         | 4.30    |       |    |          |   |   |   |   |   |   |       |       |        | 5.5     |
| 22 | HCl                          | E1          | ppmv    | y |   |          | 195.60  |         | 185.51  |         | 199.06  |       |    |          |   |   |   |   |   |   |       |       |        | 193.4   |
| 23 | Cl2                          | E1          | ppmv    | y |   | nd       | 0.06    |         | 1.57    | nd      | 0.13    |       |    |          |   |   |   |   |   |   |       |       |        | 0.6     |
| 24 | Total Chlorine               | E1          | ppmv    | y |   | 0        | 195.71  |         | 188.65  | 0.1     | 199.32  |       |    |          |   |   |   |   |   |   | 0.064 |       |        | 194.6   |
| 25 | Arsenic                      | E2          | ug/dscm | y |   |          | 5.71    |         | nd      | 2.28    | 3.56    |       |    |          |   |   |   |   |   |   |       |       |        | 3.8     |
| 26 | Beryllium                    | E2          | ug/dscm | y |   | nd       | 0.17    |         | nd      | 0.13    | 0.13    |       | nd |          |   |   |   |   |   |   |       | 100   |        | 0.1     |
| 27 | Cadmium                      | E2          | ug/dscm | y |   |          | 16.61   |         | 4.65    | nd      | 4.09    |       |    |          |   |   |   |   |   |   |       | 16    |        | 8.5     |
| 28 | Chromium                     | E2          | ug/dscm | y |   |          | 21.72   |         | 5.70    |         | 10.67   |       |    |          |   |   |   |   |   |   |       |       |        | 12.7    |
| 29 | Chromium (Hex)               | E3          | ug/dscm | y |   | nd       | 0.27    |         | nd      | 0.18    | 0.13    |       | nd |          |   |   |   |   |   |   |       | 100   |        | 0.2     |
| 30 | Lead                         | E2          | ug/dscm | y |   |          | 342.45  |         | 263.62  |         | 311.70  |       |    |          |   |   |   |   |   |   |       |       |        | 305.9   |
| 31 | LVM                          | E2          | ug/dscm | y |   | 1        | 27.60   |         | 30      | 8.11    | 29      | 14.36 |    |          |   |   |   |   |   |   |       | 13.59 |        | 16.7    |
| 32 | SVM                          | E2          | ug/dscm | y |   |          | 359.06  |         | 268.27  |         | 315.80  |       |    |          |   |   |   |   |   |   |       |       |        | 314.4   |
| 33 |                              |             |         |   |   |          |         |         |         |         |         |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 34 | Sampling Train               | Particulate | E1      |   |   |          |         |         |         |         |         |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 35 | Stack Gas Flowrate           | dscfm       |         |   |   | 71101    | 71140   | 73888   | 72107   | 72320   | 74027   |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 36 | O2                           | %           |         |   |   | 8.1      | 8.8     | 8       | 7.8     | 10.4    | 8.7     |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 37 | Moisture                     | %           |         |   |   | 32.4     | 32.9    | 32.8    | 35.2    | 33.1    | 33.1    |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 38 | Temperature                  | °F          |         |   |   | 482      | 478     | 493     | 471     | 492     | 475     |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 39 |                              |             |         |   |   |          |         |         |         |         |         |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 40 | Sampling Train               | Metals      | E2      |   |   |          |         |         |         |         |         |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 41 | Stack Gas Flowrate           | dscfm       |         |   |   |          | 72359   |         | 74471   |         | 72178   |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 42 | O2                           | %           |         |   |   |          | 8.6     |         | 8.9     |         | 8.8     |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 43 | Moisture                     | %           |         |   |   |          | 35      |         | 32.9    |         | 33.2    |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 44 | Temperature                  | °F          |         |   |   |          | 488     |         | 460     |         | 492     |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 45 |                              |             |         |   |   |          |         |         |         |         |         |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 46 | Sampling Train               | Cr Hex      | E3      |   |   |          |         |         |         |         |         |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 47 | Stack Gas Flowrate           | dscfm       |         |   |   |          | 72361   |         | 76717   |         | 75072   |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 48 | O2                           | %           |         |   |   |          | 8.6     |         | 8.6     |         | 8.8     |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 49 | Moisture                     | %           |         |   |   |          | 35      |         | 32.9    |         | 33.2    |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 50 | Temperature                  | °F          |         |   |   |          | 482     |         | 470     |         | 488     |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 51 |                              |             |         |   |   |          |         |         |         |         |         |       |    |          |   |   |   |   |   |   |       |       |        |         |
| 52 | <b>228C3</b>                 |             |         |   |   | R1       | R2      | R3      | R4      | R5      | R6      | R7    | R8 | Cond Avg |   |   |   |   |   |   |       |       |        |         |
| 53 |                              |             |         |   |   |          |         |         |         |         |         |       |    |          |   |   |   |   |   |   |       |       |        |         |

|     | B                      | C               | D       | E    | F | G        | H | I        | J | K        | L | M  | N | O  | P | Q  | R | S  | T | U  | V   | W | X            |
|-----|------------------------|-----------------|---------|------|---|----------|---|----------|---|----------|---|----|---|----|---|----|---|----|---|----|-----|---|--------------|
| 54  | CO (MHRA)              | E1              | ppmv    | y    |   | 1309.00  |   | 491.00   |   | 302.00   |   |    |   |    |   |    |   |    |   |    |     |   | 700.67       |
| 55  | CO (RA)                | E1              | ppmv    | y    |   | 471.00   |   | 295.00   |   | 182.00   |   |    |   |    |   |    |   |    |   |    |     |   | 316.00       |
| 56  | HC (MHRA)              | E1              | ppmv    | y    |   | 20.50    |   | 9.40     |   | 7.10     |   |    |   |    |   |    |   |    |   |    |     |   | 12.33        |
| 57  | HC (RA)                | E1              | ppmv    | y    |   | 9.80     |   | 7.60     |   | 4.10     |   |    |   |    |   |    |   |    |   |    |     |   | 7.17         |
| 58  |                        |                 |         |      |   |          |   |          |   |          |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 59  | Sampling Train         | Dioxin & Furans |         | E1   |   |          |   |          |   |          |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 60  | Stack Gas Flowrate     |                 | dscfm   |      |   | 71411.9  |   | 73635.8  |   | 71341.3  |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 61  | O2                     |                 | %       |      |   | 6.5      |   | 7.7      |   | 8.4      |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 62  | Moisture               |                 | %       |      |   | 34.4     |   | 32.4     |   | 35.2     |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 63  | Temperature            |                 | °F      |      |   | 463      |   | 443      |   | 441      |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 64  |                        |                 |         |      |   |          |   |          |   |          |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 65  | <b>228C4</b>           |                 |         |      |   | R1       |   | R2       |   | R3       |   | R4 |   | R5 |   | R6 |   | R7 |   | R8 |     |   | Cond Avg     |
| 66  |                        |                 |         |      |   |          |   |          |   |          |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 67  | CO (MHRA)              | E1              | ppmv    | y    |   | 329.00   |   | 491.00   |   | 320.00   |   |    |   |    |   |    |   |    |   |    |     |   | 380.00       |
| 68  | CO (RA)                | E1              | ppmv    | y    |   | 240.00   |   | 256.00   |   | 247.00   |   |    |   |    |   |    |   |    |   |    |     |   | 247.67       |
| 69  | HC (MHRA)              | E1              | ppmv    | y    |   | 14.40    |   | 16.50    |   | 16.20    |   |    |   |    |   |    |   |    |   |    |     |   | 15.70        |
| 70  | HC (RA)                | E1              | ppmv    | y    |   | 11.50    |   | 12.50    |   | 12.00    |   |    |   |    |   |    |   |    |   |    |     |   | 12.00        |
| 71  |                        |                 |         |      |   |          |   |          |   |          |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 72  | 1,1,1-Trichloroethane  | E1              | %       |      |   | 99.99993 |   | 99.99992 |   | 99.99986 |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 73  | 1,2,4-Trichlorobenzene | E1              | %       |      |   | 99.9999  |   | 99.99989 |   | 99.99988 |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 74  |                        |                 |         |      |   |          |   |          |   |          |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 75  | Sampling Train         | SVOC            |         | E1   |   |          |   |          |   |          |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 76  | Stack Gas Flowrate     |                 | dscfm   |      |   | 64346    |   | 62053    |   | 67522    |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 77  | O2                     |                 | %       |      |   | 7.3      |   | 8        |   | 7.3      |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 78  | Moisture               |                 | %       |      |   | 37.9     |   | 38       |   | 36.5     |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 79  | Temperature            |                 | °F      |      |   | 367      |   | 365      |   | 368      |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 80  |                        |                 |         |      |   |          |   |          |   |          |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 81  | Sampling Train         | Dioxin & Furans |         | E2   |   |          |   |          |   |          |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 82  | Stack Gas Flowrate     |                 | dscfm   |      |   | 65135    |   | 67289    |   | 67907    |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 83  | O2                     |                 | %       |      |   | 7.3      |   | 8        |   | 7.3      |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 84  | Moisture               |                 | %       |      |   | 35.9     |   | 37       |   | 37       |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 85  | Temperature            |                 | °F      |      |   | 362      |   | 362      |   | 368      |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 86  |                        |                 |         |      |   |          |   |          |   |          |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 87  | <b>228C5</b>           |                 |         |      |   | R1       |   | R2       |   | R3       |   | R4 |   | R5 |   | R6 |   | R7 |   | R8 |     |   | Cond Avg     |
| 88  |                        |                 |         |      |   |          |   |          |   |          |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 89  | Sampling Train         | Dioxin & Furans |         | E1   |   |          |   |          |   |          |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 90  | Stack Gas Flowrate     |                 | dscfm   |      |   | 72950.46 |   | 75704.64 |   |          |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 91  | O2                     |                 | %       |      |   | 8.63     |   | 9.42     |   |          |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 92  | Moisture               |                 | %       |      |   | 0        |   | 0        |   |          |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 93  | Temperature            |                 | °F      |      |   | 0        |   | 0        |   |          |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 94  |                        |                 |         |      |   |          |   |          |   |          |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 95  | <b>228C6</b>           |                 |         |      |   | R1       |   | R2       |   | R3       |   | R4 |   | R5 |   | R6 |   | R7 |   | R8 |     |   | Cond Avg     |
| 96  |                        |                 |         |      |   |          |   |          |   |          |   |    |   |    |   |    |   |    |   |    |     |   |              |
| 97  | PM                     | E1              | gr/dscf | y    |   | 0.02866  |   | 0.02993  |   | 0.01846  |   |    |   |    |   |    |   |    |   |    |     |   | 0.0257       |
| 98  | CO (RA)                | E1              | ppmv    | y    |   | 50.42    |   | 40.65    |   | 33.54    |   |    |   |    |   |    |   |    |   |    |     |   | 41.5         |
| 99  | HCl                    | E1              | ppmv    | y    |   | 124.91   |   | 180.58   |   | 98.10    |   |    |   |    |   |    |   |    |   |    |     |   | 134.5 no Cl2 |
| 100 | Arsenic                | E1              | ug/dscm | y nd |   | 0.94 nd  |   | 0.92     |   | 0.98     |   |    |   |    |   |    |   |    |   |    | 66  |   | 0.9          |
| 101 | Beryllium              | E1              | ug/dscm | y nd |   | 3.78 nd  |   | 3.69 nd  |   | 3.56     |   |    |   |    |   |    |   |    |   |    | 100 |   | 3.7          |
| 102 | Cadmium                | E1              | ug/dscm | y    |   | 4.44     |   | 4.52     |   | 2.31     |   |    |   |    |   |    |   |    |   |    |     |   | 3.8          |
| 103 | Chromium               | E1              | ug/dscm | y    |   | 476.93   |   | 587.82   |   | 171.77   |   |    |   |    |   |    |   |    |   |    |     |   | 412.2        |
| 104 | Lead                   | E1              | ug/dscm | y    |   | 219.39   |   | 202.36   |   | 108.48   |   |    |   |    |   |    |   |    |   |    |     |   | 176.7        |
| 105 | Mercury                | E1              | ug/dscm | y    |   | 0.28     |   | 0.28     |   | 0.09     |   |    |   |    |   |    |   |    |   |    |     |   | 0.2          |
| 106 | Selenium               | E1              | ug/dscm | y    |   | 5.19     |   | 3.23     |   | 2.85     |   |    |   |    |   |    |   |    |   |    |     |   | 3.8          |

|     | B                      | C           | D       | E | F  | G       | H  | I       | J  | K       | L | M       | N | O       | P | Q       | R  | S       | T      | U       | V      | W        | X     |
|-----|------------------------|-------------|---------|---|----|---------|----|---------|----|---------|---|---------|---|---------|---|---------|----|---------|--------|---------|--------|----------|-------|
| 107 | Silver                 | E1          | ug/dscm | y | nd | 0.94    | nd | 0.92    | nd | 0.89    |   |         |   |         |   |         |    |         |        |         | 100    | 0.9      |       |
| 108 | Thallium               | E1          | ug/dscm | y | nd | 94.34   | nd | 92.32   | nd | 89.05   |   |         |   |         |   |         |    |         |        |         | 100    | 91.9     |       |
| 109 | SVM                    | E1          | ug/dscm | y |    | 223.83  |    | 206.88  |    | 110.80  |   |         |   |         |   |         |    |         |        |         |        | 180.5    |       |
| 110 | LVM                    | E1          | ug/dscm | y | 1  | 481.66  | 1  | 592.43  | 2  | 176.30  |   |         |   |         |   |         |    |         |        |         | 1      | 416.8    |       |
| 111 |                        |             |         |   |    |         |    |         |    |         |   |         |   |         |   |         |    |         |        |         |        |          |       |
| 112 | 1,2,4-Trichlorobenzene | E2          | %       |   |    |         |    |         |    |         |   | 99.9999 |   | 99.9999 |   | 99.9999 |    |         |        |         |        |          |       |
| 113 |                        |             |         |   |    |         |    |         |    |         |   |         |   |         |   |         |    |         |        |         |        |          |       |
| 114 | Sampling Train         | Particulate | E1      |   |    |         |    |         |    |         |   |         |   |         |   |         |    |         |        |         |        |          |       |
| 115 | Stack Gas Flowrate     |             | dscfm   |   |    | 30612   |    | 28106   |    | 29959   |   |         |   |         |   |         |    |         |        |         |        |          |       |
| 116 | O2                     |             | %       |   |    | 8.2     |    | 7.2     |    | 7.2     |   |         |   |         |   |         |    |         |        |         |        |          |       |
| 117 | Moisture               |             | %       |   |    | 32.35   |    | 34.04   |    | 31.52   |   |         |   |         |   |         |    |         |        |         |        |          |       |
| 118 | Temperature            |             | °F      |   |    | 0       |    | 0       |    | 0       |   |         |   |         |   |         |    |         |        |         |        |          |       |
| 119 |                        |             |         |   |    |         |    |         |    |         |   |         |   |         |   |         |    |         |        |         |        |          |       |
| 120 | Sampling Train         | VOC         | E2      |   |    |         |    |         |    |         |   |         |   |         |   |         |    |         |        |         |        |          |       |
| 121 | Stack Gas Flowrate     |             | dscfm   |   |    |         |    |         |    |         |   | 31058   |   | 30562   |   | 29247   |    |         |        |         |        |          |       |
| 122 | O2                     |             | %       |   |    |         |    |         |    |         |   | 8.2     |   | 7.2     |   | 7.2     |    |         |        |         |        |          |       |
| 123 | Moisture               |             | %       |   |    |         |    |         |    |         |   | 31.27   |   | 33.24   |   | 32.02   |    |         |        |         |        |          |       |
| 124 | Temperature            |             | °F      |   |    |         |    |         |    |         |   | 0       |   | 0       |   | 0       |    |         |        |         |        |          |       |
| 125 |                        |             |         |   |    |         |    |         |    |         |   |         |   |         |   |         |    |         |        |         |        |          |       |
| 126 | <b>228C7</b>           |             |         |   |    | R1      |    | R2      |    | R3      |   | R4      |   | R5      |   | R6      |    | R7      |        | R8      |        | Cond Avg |       |
| 127 |                        |             |         |   |    |         |    |         |    |         |   |         |   |         |   |         |    |         |        |         |        |          |       |
| 128 | PM                     | E1          | gr/dscf | y |    | 0.08722 |    | 0.04190 |    | 0.10317 |   |         |   |         |   |         |    | 0.02007 |        | 0.09180 |        | 0.0688   |       |
| 129 | CO (RA)                | E1          | ppmv    | y |    | 43.64   |    | 274.90  |    | 55.04   |   |         |   |         |   |         |    | 59.88   |        | 47.12   |        | 96.1     |       |
| 130 | HCl                    | E1          | ppmv    | y |    | 116.56  |    | 109.28  |    | 114.58  |   |         |   |         |   |         |    | 113.96  |        | 130.38  |        | 117.0    |       |
| 131 | Arsenic                | E1          | ug/dscm | y |    | 2.03    |    | 0.96    |    | 1.98    |   |         |   |         |   |         | nd | 0.80    |        | 2.78    | 9      | 1.7      |       |
| 132 | Beryllium              | E1          | ug/dscm | y | nd | 3.53    | nd | 2.54    | nd | 3.46    |   |         |   |         |   |         | nd | 3.19    | nd     | 6.74    | 100    | 3.9      |       |
| 133 | Cadmium                | E1          | ug/dscm | y |    | 42.16   |    | 8.45    |    | 23.28   |   |         |   |         |   |         |    | 4.38    |        | 8.85    |        | 17.4     |       |
| 134 | Chromium               | E1          | ug/dscm | y |    | 195.35  |    | 268.61  |    | 229.29  |   |         |   |         |   |         |    | 179.01  |        | 275.47  |        | 229.5    |       |
| 135 | Lead                   | E1          | ug/dscm | y |    | 1922.69 |    | 608.32  |    | 1843.10 |   |         |   |         |   |         |    | 298.36  |        | 613.15  |        | 1057.1   |       |
| 136 | Mercury                | E1          | ug/dscm | y |    | 1.23    |    | 0.19    |    | 0.43    |   |         |   |         |   |         |    | 0.24    |        | 0.25    |        | 0.5      |       |
| 137 | Selenium               | E1          | ug/dscm | y |    | 6.80    |    | 1.71    |    | 1.90    |   |         |   |         |   |         |    | 2.87    |        | 0.76    |        | 2.8      |       |
| 138 | Silver                 | E1          | ug/dscm | y | nd | 0.88    | nd | 0.64    | nd | 0.86    |   |         |   |         |   |         | nd | 0.80    | nd     | 2.52    | 100    | 1.1      |       |
| 139 | Thallium               | E1          | ug/dscm | y | nd | 88.22   | nd | 63.60   | nd | 86.42   |   |         |   |         |   |         | nd | 79.70   | nd     | 84.24   | 100    | 80.4     |       |
| 140 | SVM                    | E1          | ug/dscm | y |    | 1964.85 |    | 616.77  |    | 1866.38 |   |         |   |         |   |         |    | 302.74  |        | 622.00  |        | 1074.5   |       |
| 141 | LVM                    | E1          | ug/dscm | y | 2  | 200.91  | 1  | 272.11  | 1  | 234.73  |   |         |   |         |   |         |    | 2       | 183.00 | 2       | 285.00 | 2        | 235.1 |
| 142 |                        |             |         |   |    |         |    |         |    |         |   |         |   |         |   |         |    |         |        |         |        |          |       |
| 143 | 1,2,4-Trichlorobenzene | E2          | %       |   |    |         |    |         |    |         |   | 99.9999 |   | 99.9999 |   | 99.9999 |    | 99.9999 |        | 99.9999 |        |          |       |
| 144 |                        |             |         |   |    |         |    |         |    |         |   |         |   |         |   |         |    |         |        |         |        |          |       |
| 145 | Sampling Train         | Particulate | E1      |   |    |         |    |         |    |         |   |         |   |         |   |         |    |         |        |         |        |          |       |
| 146 | Stack Gas Flowrate     |             | dscfm   |   |    | 26927   |    | 32854   |    | 32602   |   |         |   |         |   |         |    |         | 30661  |         | 32107  |          |       |
| 147 | O2                     |             | %       |   |    | 7.5     |    | 6.6     |    | 8       |   |         |   |         |   |         |    |         | 6.7    |         | 7.9    |          |       |
| 148 | Moisture               |             | %       |   |    | 31.25   |    | 35.79   |    | 34.69   |   |         |   |         |   |         |    |         | 35.1   |         | 34.65  |          |       |
| 149 | Temperature            |             | °F      |   |    | 0       |    | 0       |    | 0       |   |         |   |         |   |         |    |         | 0      |         | 0      |          |       |
| 150 |                        |             |         |   |    |         |    |         |    |         |   |         |   |         |   |         |    |         |        |         |        |          |       |
| 151 | Sampling Train         | VOC         | E2      |   |    |         |    |         |    |         |   |         |   |         |   |         |    |         |        |         |        |          |       |
| 152 | Stack Gas Flowrate     |             | dscfm   |   |    |         |    |         |    |         |   | 28427   |   | 34540   |   | 33262   |    | 32539   |        | 32875   |        |          |       |
| 153 | O2                     |             | %       |   |    |         |    |         |    |         |   | 7.5     |   | 6.6     |   | 8       |    | 6.7     |        | 7.9     |        |          |       |
| 154 | Moisture               |             | %       |   |    |         |    |         |    |         |   | 33.46   |   | 34.94   |   | 34.17   |    | 34.31   |        | 33.7    |        |          |       |
| 155 | Temperature            |             | °F      |   |    |         |    |         |    |         |   | 0       |   | 0       |   | 0       |    | 0       |        | 0       |        |          |       |



|    | B                                 | C           | D | E | F            | G | H            | I | J            | K | L            | M | N    | O | P    | Q | R      | S | T        | U | V        | W | X        | Y | Z        | AA | AB       | AC | AD        | AE |  |
|----|-----------------------------------|-------------|---|---|--------------|---|--------------|---|--------------|---|--------------|---|------|---|------|---|--------|---|----------|---|----------|---|----------|---|----------|----|----------|----|-----------|----|--|
| 1  | <b>Feedstreams 1</b>              |             |   |   |              |   |              |   |              |   |              |   |      |   |      |   |        |   |          |   |          |   |          |   |          |    |          |    |           |    |  |
| 2  |                                   |             |   |   |              |   |              |   |              |   |              |   |      |   |      |   |        |   |          |   |          |   |          |   |          |    |          |    |           |    |  |
| 3  | <b>228C10</b>                     | Normal ops  |   |   | R1           |   | R2           |   | R3           |   | Cond Avg     |   | R1   |   | R2   |   | R3     |   | Cond Avg |   | R1       |   | R2       |   | R3       |    | Cond Avg |    | R1        |    |  |
| 4  |                                   |             |   |   |              |   |              |   |              |   |              |   |      |   |      |   |        |   |          |   |          |   |          |   |          |    |          |    |           |    |  |
| 5  | Feedstream Number                 |             |   |   | F1           |   | F1           |   | F1           |   | F1           |   | F2   |   | F2   |   | F2     |   | F2       |   | F3       |   | F3       |   | F3       |    | F3       |    | F4        |    |  |
| 6  | Feed Class                        |             |   |   | Raw Material |   | Raw Material |   | Raw Material |   | Raw Material |   | Coal |   | Coal |   | Coal   |   | Coal     |   | Solid HW |   | Solid HW |   | Solid HW |    | Solid HW |    | Liq HW    |    |  |
| 7  | Feed Class 2                      |             |   |   | RM           |   | RM           |   | RM           |   | RM           |   | Coal |   | Coal |   | Coal   |   | Coal     |   |          |   |          |   |          |    |          |    |           |    |  |
| 8  | Feedstream Description            |             |   |   | Raw Matl     |   | Raw Matl     |   | Raw Matl     |   | Raw Matl     |   | Coal |   | Coal |   | Coal   |   | Coal     |   | Tires    |   | Tires    |   | Tires    |    | Tires    |    | LWDF      |    |  |
| 9  | Feed Rate                         | tons/hr     |   |   | 61.1         |   | 58.2         |   | 58.9         |   |              |   | 0    |   | 0    |   | 2.5    |   |          |   | 0.82     |   | 0.82     |   | 0.75     |    | Tires    |    | 8.5       |    |  |
| 10 | Heating Value                     | Btu/lb      |   |   |              |   |              |   |              |   |              |   |      |   |      |   | 12000  |   |          |   |          |   |          |   |          |    |          |    |           |    |  |
| 11 | Thermal Feedrate                  | MMBtu/hr    |   |   |              |   |              |   |              |   |              |   |      |   |      |   | 136.2  |   |          |   |          |   |          |   |          |    |          |    |           |    |  |
| 12 | Chlorine                          | ppmw        |   |   | 120          |   | 120          |   | 140          |   |              |   | 0    |   | 0    |   | 981    |   |          |   |          |   |          |   |          |    |          |    | 64952     |    |  |
| 13 |                                   |             |   |   |              |   |              |   |              |   |              |   |      |   |      |   |        |   |          |   |          |   |          |   |          |    |          |    |           |    |  |
| 14 | <i>Feedrate MTEC Calculations</i> |             |   |   |              |   |              |   |              |   |              |   |      |   |      |   |        |   |          |   |          |   |          |   |          |    |          |    |           |    |  |
| 15 | Chlorine                          | ug/dscm     | y |   | 54,512       |   | 55,863       |   | 62,174       |   | 57,516       |   | 0    |   | 0    |   | 18,492 |   | 6,164    |   | 0        |   | 0        |   | 0        |    |          |    | 4,104,709 |    |  |
| 16 |                                   |             |   |   |              |   |              |   |              |   |              |   |      |   |      |   |        |   |          |   |          |   |          |   |          |    |          |    |           |    |  |
| 17 |                                   |             |   |   |              |   |              |   |              |   |              |   |      |   |      |   |        |   |          |   |          |   |          |   |          |    |          |    |           |    |  |
| 18 | <b>228C11</b>                     | D/F testing |   |   | R5           |   | R6           |   | R7           |   | Cond Avg     |   | R5   |   | R6   |   | R7     |   | Cond Avg |   | R5       |   | R6       |   | R7       |    | Cond Avg |    | R5        |    |  |
| 19 |                                   |             |   |   |              |   |              |   |              |   |              |   |      |   |      |   |        |   |          |   |          |   |          |   |          |    |          |    |           |    |  |
| 20 | Feedstream Number                 |             |   |   | F1           |   | F1           |   | F1           |   | F1           |   | F2   |   | F2   |   | F2     |   | F2       |   | F3       |   | F3       |   | F3       |    | F3       |    | F4        |    |  |
| 21 | Feed Class                        |             |   |   | Raw Material |   | Raw Material |   | Raw Material |   | Raw Material |   | Coal |   | Coal |   | Coal   |   | Coal     |   | Solid HW |   | Solid HW |   | Solid HW |    | Solid HW |    | Liq HW    |    |  |
| 22 | Feedstream Description            |             |   |   | Raw Matl     |   | Raw Matl     |   | Raw Matl     |   | Raw Matl     |   | Coal |   | Coal |   | Coal   |   | Coal     |   | Tires    |   | Tires    |   | Tires    |    | Tires    |    | LWDF      |    |  |
| 23 | Feed Rate                         | tons/hr     |   |   | 57.4         |   | 58.1         |   | 59.5         |   |              |   | 0    |   | 0    |   | 0      |   |          |   | 1.19     |   | 0.83     |   | 0.84     |    | Tires    |    | 7.5       |    |  |
| 24 | Heating Value                     | Btu/hr      |   |   |              |   |              |   |              |   |              |   |      |   |      |   |        |   |          |   |          |   |          |   |          |    |          |    |           |    |  |
| 25 | Chlorine                          | g/hr        |   |   | 6,770        |   | 8,430        |   | 6,480        |   |              |   | 0    |   | 0    |   | 0      |   |          |   | 648      |   | 452      |   | 457      |    |          |    | 51,000    |    |  |

|    | B                           | AF      | AQ      | AH        | AI        | AJ      | AK      | AL        | AN | AO | AP | AQ       | AR      | AS      | AT      | AU       | AV    | AW       | AX    | AY       | AZ        | BA       | BB      | BC        | BD    | BE       | BF    | BG       | BH    |
|----|-----------------------------|---------|---------|-----------|-----------|---------|---------|-----------|----|----|----|----------|---------|---------|---------|----------|-------|----------|-------|----------|-----------|----------|---------|-----------|-------|----------|-------|----------|-------|
| 1  | <b>Feedstreams 1</b>        |         |         |           |           |         |         |           |    |    |    |          |         |         |         |          |       |          |       |          |           |          |         |           |       |          |       |          |       |
| 2  |                             |         |         |           |           |         |         |           |    |    |    |          |         |         |         |          |       |          |       |          |           |          |         |           |       |          |       |          |       |
| 3  | <b>228C10</b>               | R2      | R3      | Cond Avg  | R1        | R2      | R3      | Cond Avg  | R1 | R2 | R3 | Cond Avg | R1      | R2      | R3      | Cond Avg | R1    | R2       | R3    | Cond Avg | R1        | R2       | R3      | Cond Avg  | R1    | R2       | R3    | Cond Avg |       |
| 4  |                             |         |         |           |           |         |         |           |    |    |    |          |         |         |         |          |       |          |       |          |           |          |         |           |       |          |       |          |       |
| 5  | Feedstream Number           | F4      | F4      | F4        |           |         |         |           |    |    |    |          | F5      | F5      | F5      | F5       | F5    | F5       | F5    | F5       | F6        | F6       | F6      | F6        | F6    | F6       | F6    | F6       | F6    |
| 6  | Feed Class                  | Liq HW  | Liq HW  | Liq HW    |           |         |         |           |    |    |    |          | Spike   | Spike   | Spike   | Spike    | Spike | Spike    | Spike | Spike    | Total     | Total    | Total   | Total     | Total | Total    | Total | Total    | Total |
| 7  | Feed Class 2                |         |         |           | HW        | HW      | HW      | HW        |    |    |    |          | Spike   | Spike   | Spike   | Spike    | Spike | Spike    | Spike | Spike    | Total     | Total    | Total   | Total     | Total | Total    | Total | Total    | Total |
| 8  | Feedstream Descriptor       | LWDF    | LWDF    | LWDF      |           |         |         |           |    |    |    |          | Spike   | Spike   | Spike   | Spike    | Spike | Spike    | Spike | Spike    | Total     | Total    | Total   | Total     | Total | Total    | Total | Total    | Total |
| 9  | Feed Rate                   | 8.1     | 6.2     |           |           |         |         |           |    |    |    |          |         |         |         |          |       |          |       |          |           |          |         |           |       |          |       |          |       |
| 10 | Heating Value               |         |         |           |           |         |         |           |    |    |    |          |         |         |         |          |       |          |       |          |           |          |         |           |       |          |       |          |       |
| 11 | Thermal Feedrate            |         |         |           |           |         |         |           |    |    |    |          |         |         |         |          |       |          |       |          |           |          |         |           |       |          |       |          |       |
| 12 | Chlorine                    | 6360    | 9042    |           |           |         |         |           |    |    |    |          | 0       | 0       | 0       |          |       |          |       |          |           |          |         |           |       |          |       |          |       |
| 13 |                             |         |         |           |           |         |         |           |    |    |    |          |         |         |         |          |       |          |       |          |           |          |         |           |       |          |       |          |       |
| 14 | <i>Feedrate MTEC Calcul</i> |         |         |           |           |         |         |           |    |    |    |          |         |         |         |          |       |          |       |          |           |          |         |           |       |          |       |          |       |
| 15 | Chlorine                    | 412,058 | 422,691 | 1,646,486 | 4,104,709 | 412,058 | 422,691 | 1,646,486 |    |    |    |          | 0       | 0       | 0       |          |       |          |       |          | 4,159,221 | 467,921  | 503,357 | 1,710,166 |       |          |       |          |       |
| 16 |                             |         |         |           |           |         |         |           |    |    |    |          |         |         |         |          |       |          |       |          |           |          |         |           |       |          |       |          |       |
| 17 |                             |         |         |           |           |         |         |           |    |    |    |          |         |         |         |          |       |          |       |          |           |          |         |           |       |          |       |          |       |
| 18 | <b>228C11</b>               | R6      | R7      | Cond Avg  |           |         |         |           |    |    |    |          |         |         | R5      | R6       | R7    | Cond Avg | R5    | R6       | R7        | Cond Avg | R5      | R6        | R7    | Cond Avg |       |          |       |
| 19 |                             |         |         |           |           |         |         |           |    |    |    |          |         |         |         |          |       |          |       |          |           |          |         |           |       |          |       |          |       |
| 20 | Feedstream Number           | F4      | F4      | F4        |           |         |         |           |    |    |    |          | F5      | F5      | F5      | F5       | F5    | F5       | F5    | F5       | F6        | F6       | F6      | F6        | F6    | F6       | F6    | F6       | F6    |
| 21 | Feed Class                  | Liq HW  | Liq HW  | Liq HW    |           |         |         |           |    |    |    |          | Spike   | Spike   | Spike   | Spike    | Spike | Spike    | Spike | Spike    | Total     | Total    | Total   | Total     | Total | Total    | Total | Total    | Total |
| 22 | Feedstream Descriptor       | LWDF    | LWDF    | LWDF      |           |         |         |           |    |    |    |          | Spike   | Spike   | Spike   | Spike    | Spike | Spike    | Spike | Spike    | Total     | Total    | Total   | Total     | Total | Total    | Total | Total    | Total |
| 23 | Feed Rate                   | 7.5     | 7       |           |           |         |         |           |    |    |    |          |         |         |         |          |       |          |       |          |           |          |         |           |       |          |       |          |       |
| 24 | Heating Value               |         |         |           |           |         |         |           |    |    |    |          |         |         |         |          |       |          |       |          |           |          |         |           |       |          |       |          |       |
| 25 | Chlorine                    | 30,000  | 5,000   |           |           |         |         |           |    |    |    |          | 170,000 | 175,000 | 156,000 |          |       |          |       |          |           |          |         |           |       |          |       |          |       |

|    | B                          | C        | D            | E        | F            | G        | H            | I        | J            | K | L            | M | N            | O       | P           | Q     | R           | S         | T           | U         | V           | W | X           | Y         | Z             | AA        | AB          | AC |  |
|----|----------------------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|---|--------------|---|--------------|---------|-------------|-------|-------------|-----------|-------------|-----------|-------------|---|-------------|-----------|---------------|-----------|-------------|----|--|
| 1  | Feedstream 2               |          |              |          |              |          |              |          |              |   |              |   |              |         |             |       |             |           |             |           |             |   |             |           |               |           |             |    |  |
| 2  |                            |          |              |          |              |          |              |          |              |   |              |   |              |         |             |       |             |           |             |           |             |   |             |           |               |           |             |    |  |
| 3  |                            |          |              |          |              |          |              |          |              |   |              |   |              |         |             |       |             |           |             |           |             |   |             |           |               |           |             |    |  |
| 4  | 228C1                      |          | R1           |          | R2           |          | R3           |          | R4           |   | R5           |   | R6           |         | R1          |       | R2          |           | R3          |           | R4          |   | R5          |           | R6            |           |             |    |  |
| 5  |                            |          |              |          |              |          |              |          |              |   |              |   |              |         |             |       |             |           |             |           |             |   |             |           |               |           |             |    |  |
| 6  | Feedstream Number          |          | F1           |          | F1           |          | F1           |          | F1           |   | F1           |   | F1           |         | F2          |       | F2          |           | F2          |           | F2          |   | F2          |           | F2            |           | F2          |    |  |
| 7  | Feed Class                 |          | Raw Material |          | Raw Material |          | Raw Material |          | Raw Material |   | Raw Material |   | Raw Material |         | Spike       |       | Spike       |           | Spike       |           | Spike       |   | Spike       |           | Spike         |           | Spike       |    |  |
| 8  | Feedstream Description     |          | Raw Material |          | Raw material |          | Raw material |          | Raw material |   | Raw material |   | Raw material |         | Spike waste |       | Spike waste |           | Spike waste |           | Spike waste |   | Spike waste |           | metals liquid |           | Spike waste |    |  |
| 9  | Feed Rate                  | lb/hr    |              |          |              |          |              |          |              |   |              |   |              |         | 14,595      |       | 15,609      |           | 13,404      |           |             |   |             |           |               |           |             |    |  |
| 10 | Heating Value              | Btu/lb   |              |          |              |          |              |          |              |   |              |   |              |         | 14,389      |       | 11,596      |           | 13,503      |           |             |   |             |           |               |           |             |    |  |
| 11 | Chlorine                   | lb/hr    |              | 117.1    |              | 114.0    |              | 117.1    |              |   |              |   |              |         | 190         |       | 218         |           | 269         |           |             |   |             |           |               |           |             |    |  |
| 12 |                            |          |              |          |              |          |              |          |              |   |              |   |              |         |             |       |             |           |             |           |             |   |             |           |               |           |             |    |  |
| 13 | 228C2                      |          | R1           |          | R2           |          | R3           |          | R4           |   | R5           |   | R6           |         | R1          |       | R2          |           | R3          |           | R4          |   | R5          |           | R6            |           |             |    |  |
| 14 |                            |          |              |          |              |          |              |          |              |   |              |   |              |         |             |       |             |           |             |           |             |   |             |           |               |           |             |    |  |
| 15 | Feedstream Number          |          | F1           |          | F1           |          | F1           |          | F1           |   | F1           |   | F1           |         | F2          |       | F2          |           | F2          |           | F2          |   | F2          |           | F2            |           | F2          |    |  |
| 16 | Feed Class                 |          | Raw Material |          | Raw Material |          | Raw Material |          | Raw Material |   | Raw Material |   | Raw Material |         | Spike       |       | Spike       |           | Spike       |           | Spike       |   | Spike       |           | Spike         |           | Spike       |    |  |
| 17 | Feed Class 2               |          | RM           |          | RM           |          | RM           |          | RM           |   | RM           |   | RM           |         | RM          |       | RM          |           | RM          |           | RM          |   | RM          |           | RM            |           | RM          |    |  |
| 18 | Feedstream Description     |          | Raw Material |          | Raw material |          | Raw material |          | Raw material |   | Raw material |   | Raw material |         | Spike waste |       | Spike waste |           | Spike waste |           | Spike waste |   | Spike waste |           | metals liquid |           | Spike waste |    |  |
| 19 | Feed Rate                  | lb/hr    |              |          |              | 129,410  |              |          |              |   | 119,710      |   |              |         | 120,371     |       |             |           | 15,609      |           | 15,410      |   |             |           | 15,410        |           | 15,410      |    |  |
| 20 | Heating Value              | Btu/lb   |              |          |              |          |              |          |              |   |              |   |              |         |             |       |             |           | 12,711      |           | 12,711      |   |             |           | 12,711        |           | 12,711      |    |  |
| 21 | Thermal Feedrate           | MMBtu/hr |              |          |              |          |              |          |              |   |              |   |              |         |             |       |             |           | 198         |           | 196         |   |             |           | 196           |           | 196         |    |  |
| 22 | Chlorine                   | lb/hr    |              |          | 129          |          |              |          | 119          |   |              |   |              | 122     |             | 328   |             |           | 340         |           |             |   |             | 342       |               | 342       |             |    |  |
| 23 | Arsenic                    | lb/hr    |              |          | 0.18         |          |              |          | 0.14         |   |              |   |              | 0.16    |             | 2.03  |             |           | 1.77        |           |             |   |             | 0.92      |               | 0.92      |             |    |  |
| 24 | Beryllium                  | lb/hr    |              |          | 0.09         |          |              |          | 0.08         |   |              |   |              | 0.08    |             | 0.06  |             |           | 0.15        |           |             |   |             | 0.12      |               | 0.12      |             |    |  |
| 25 | Cadmium                    | lb/hr    |              |          | 0.03         |          |              |          | 0.02         |   |              |   |              | 0.02    |             | 1.09  |             |           | 0.18        |           |             |   |             | 0.23      |               | 0.23      |             |    |  |
| 26 | Chromium                   | lb/hr    |              |          | 0.78         |          |              |          | 0.72         |   |              |   |              | 0.73    |             | 5.16  |             |           | 5.62        |           |             |   |             | 5.69      |               | 5.69      |             |    |  |
| 27 | Lead                       | lb/hr    |              |          | 6.46         |          |              |          | 5.38         |   |              |   |              | 4.87    |             | 28.88 |             |           | 28.66       |           |             |   |             | 24.91     |               | 24.91     |             |    |  |
| 28 |                            |          |              |          |              |          |              |          |              |   |              |   |              |         |             |       |             |           |             |           |             |   |             |           |               |           |             |    |  |
| 29 | Stack Gas Flowrate         | dscfm    |              |          | 72,359       |          |              |          | 74,471       |   |              |   |              | 72,178  |             |       |             | 72,359    |             | 74,471    |             |   |             | 72,178    |               | 72,178    |             |    |  |
| 30 | O2                         | %        |              |          | 8.6          |          |              |          | 8.9          |   |              |   |              | 8.8     |             |       |             | 8.6       |             | 8.9       |             |   |             | 8.8       |               | 8.8       |             |    |  |
| 31 |                            |          |              |          |              |          |              |          |              |   |              |   |              |         |             |       |             |           |             |           |             |   |             |           |               |           |             |    |  |
| 32 | Feedrate MTEC Calculations |          |              |          |              |          |              |          |              |   |              |   |              |         |             |       |             |           |             |           |             |   |             |           |               |           |             |    |  |
| 33 | Chlorine                   | ug/dscm  |              |          | 539,883      |          |              |          | 496,367      |   |              |   |              | 518,247 |             |       |             | 1,370,402 |             | 1,410,341 |             |   |             | 1,452,590 |               | 1,452,590 |             |    |  |
| 34 | Arsenic                    | ug/dscm  |              |          | 756          |          |              |          | 596          |   |              |   |              | 674     |             |       |             | 8,452     |             | 7,354     |             |   |             | 3,927     |               | 3,927     |             |    |  |
| 35 | Beryllium                  | ug/dscm  |              |          | 378          |          |              |          | 323          |   |              |   |              | 337     |             |       |             | 260       |             | 640       |             |   |             | 524       |               | 524       |             |    |  |
| 36 | Cadmium                    | ug/dscm  |              |          | 108          |          |              |          | 100          |   |              |   |              | 104     |             |       |             | 4,534     |             | 735       |             |   |             | 965       |               | 965       |             |    |  |
| 37 | Chromium                   | ug/dscm  |              |          | 3,237        |          |              |          | 2,986        |   |              |   |              | 3,111   |             |       |             | 21,522    |             | 23,353    |             |   |             | 24,179    |               | 24,179    |             |    |  |
| 38 | Lead                       | ug/dscm  |              |          | 26,948       |          |              |          | 22,346       |   |              |   |              | 20,711  |             |       |             | 120,485   |             | 119,055   |             |   |             | 105,898   |               | 105,898   |             |    |  |
| 39 | SVM                        | ug/dscm  |              |          | 27,056       |          |              |          | 22,445       |   |              |   |              | 20,815  |             |       |             | 125,019   |             | 119,790   |             |   |             | 106,864   |               | 106,864   |             |    |  |
| 40 | LVM                        | ug/dscm  |              |          | 4,371        |          |              |          | 3,905        |   |              |   |              | 4,123   |             |       |             | 30,234    |             | 31,347    |             |   |             | 28,629    |               | 28,629    |             |    |  |
| 41 |                            |          |              |          |              |          |              |          |              |   |              |   |              |         |             |       |             |           |             |           |             |   |             |           |               |           |             |    |  |
| 42 | 228C3                      |          | R1           |          | R2           |          | R3           |          | R4           |   | R5           |   | R6           |         | R1          |       | R2          |           | R3          |           | R4          |   | R5          |           | R6            |           |             |    |  |
| 43 |                            |          |              |          |              |          |              |          |              |   |              |   |              |         |             |       |             |           |             |           |             |   |             |           |               |           |             |    |  |
| 44 | Feedstream Number          |          | F1           |          | F1           |          | F1           |          | F1           |   | F1           |   | F1           |         | F2          |       | F2          |           | F2          |           | F2          |   | F2          |           | F2            |           | F2          |    |  |
| 45 | Feed Class                 |          | Raw Material |          | Raw Material |          | Raw Material |          | Raw Material |   | Raw Material |   | Raw Material |         | Spike       |       | Spike       |           | Spike       |           | Spike       |   | Spike       |           | Spike         |           | Spike       |    |  |
| 46 | Feedstream Description     |          | Raw Material |          | Raw material |          | Raw material |          | Raw material |   | Raw material |   | Raw material |         | Spike waste |       | Spike waste |           | Spike waste |           | Spike waste |   | Spike waste |           | metals liquid |           | Spike waste |    |  |
| 47 | Feed Rate                  | lb/hr    |              |          |              |          |              |          |              |   |              |   |              |         | 16,006      |       | 16,006      |           | 16,204      |           |             |   |             |           |               |           |             |    |  |
| 48 | Heating Value              | Btu/lb   |              |          |              |          |              |          |              |   |              |   |              |         | 13,120      |       | 13,120      |           | 13,021      |           |             |   |             |           |               |           |             |    |  |
| 49 | Chlorine                   | lb/hr    |              | 106.9    |              | 104.9    |              | 142.0    |              |   |              |   |              | 445     |             | 545   |             | 622       |             |           |             |   |             |           |               |           |             |    |  |
| 50 |                            |          |              |          |              |          |              |          |              |   |              |   |              |         |             |       |             |           |             |           |             |   |             |           |               |           |             |    |  |
| 51 | 228C4                      |          | R1           |          | R2           |          | R3           |          | R4           |   | R5           |   | R6           |         | R1          |       | R2          |           | R3          |           | R4          |   | R5          |           | R6            |           |             |    |  |
| 52 |                            |          |              |          |              |          |              |          |              |   |              |   |              |         |             |       |             |           |             |           |             |   |             |           |               |           |             |    |  |
| 53 | Feedstream Number          |          | F1           |          | F1           |          | F1           |          | F1           |   | F1           |   | F1           |         | F2          |       | F2          |           | F2          |           | F2          |   | F2          |           | F2            |           | F2          |    |  |
| 54 | Feed Class                 |          | Raw Material |          | Raw Material |          | Raw Material |          | Raw Material |   | Raw Material |   | Raw Material |         | Spike       |       | Spike       |           | Spike       |           | Spike       |   | Spike       |           | Spike         |           | Spike       |    |  |
| 55 | Feedstream Description     |          | Raw Material |          | Raw material |          | Raw material |          | Raw material |   | Raw material |   | Raw material |         | Spike waste |       | Spike waste |           | Spike waste |           | Spike waste |   | Spike waste |           | metals liquid |           | Spike waste |    |  |
| 56 | Feed Rate                  | lb/hr    |              |          |              |          |              |          |              |   |              |   |              |         | 12,346      |       | 12,280      |           | 12,500      |           |             |   |             |           |               |           |             |    |  |
| 57 | Heating Value              | Btu/lb   |              |          |              |          |              |          |              |   |              |   |              |         | 12,879      |       | 14,659      |           | 15,600      |           |             |   |             |           |               |           |             |    |  |
| 58 | Chlorine                   | lb/hr    |              | 9.986838 |              | 5.996512 |              | 8.994768 |              |   |              |   |              | 315     |             | 295   |             | 113       |             |           |             |   |             |           |               |           |             |    |  |
| 59 |                            |          |              |          |              |          |              |          |              |   |              |   |              |         |             |       |             |           |             |           |             |   |             |           |               |           |             |    |  |
| 60 | 228C5                      |          | R1           |          | R2           |          | R3           |          | R4           |   | R5           |   | R6           |         | R1          |       | R2          |           | R3          |           | R4          |   | R5          |           | R6            |           |             |    |  |

|   | B                      | AD                | AE | AF                | AG | AH                | AI | AJ                | AK | AL                | AN | AO                | AP | AC    | AR    | AS    | AT    | AV        | AW    | AX | AY | AZ | BA  | BB      | BC      | BD |
|---|------------------------|-------------------|----|-------------------|----|-------------------|----|-------------------|----|-------------------|----|-------------------|----|-------|-------|-------|-------|-----------|-------|----|----|----|-----|---------|---------|----|
| 1 | <b>Feedstream 2</b>    |                   |    |                   |    |                   |    |                   |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     |         |         |    |
| 2 |                        |                   |    |                   |    |                   |    |                   |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     |         |         |    |
| 3 |                        |                   |    |                   |    |                   |    |                   |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     |         |         |    |
| 4 | <b>228C1</b>           | R1                |    | R2                |    | R3                |    | R4                |    | R5                |    | R6                |    |       |       |       |       |           |       |    |    |    |     | R1      | R2      |    |
| 5 | Feedstream Numt        | F3                |    | F3                |    | F3                |    | F3                |    | F3                |    | F3                |    |       |       |       |       |           |       |    |    |    |     | F4      | F4      |    |
| 6 | Feed Class             | Spike             |    | Spike             |    | Spike             |    | Spike             |    | Spike             |    | Spike             |    |       |       |       |       |           |       |    |    |    |     | Coal    | Coal    |    |
| 7 | Feedstream Desc        | Spike solid waste |    | Spike solid waste |    | Spike solid waste |    | Spike solid waste |    | Spike solid waste |    | Spike solid waste |    |       |       |       |       |           |       |    |    |    |     | Coal    | Coal    |    |
| 8 | Feed Rate              | 4607.685355       |    | 4585.639013       |    | 4673.824379       |    |                   |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     | 3990.39 | 4012.43 |    |
| 9 | Heating Value          | 6901.512919       |    | 6782.042788       |    | 7317.348113       |    |                   |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     | 12505.1 | 12212   |    |
| 0 | Chlorine               | 16.997466         |    | 11.993024         |    | 21.009838         |    |                   |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     | 11.993  | 3.99033 |    |
| 1 |                        |                   |    |                   |    |                   |    |                   |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     |         |         |    |
| 2 | <b>228C2</b>           | R1                |    | R2                |    | R3                |    | R4                |    | R5                |    | R6                |    | R1    | R2    | R3    | R4    | R5        | R6    |    |    |    |     | R1      | R2      |    |
| 3 | Feedstream Numt        | F3                |    | F3                |    | F3                |    | F3                |    | F3                |    | F3                |    |       |       |       |       |           |       |    |    |    |     | F4      | F4      |    |
| 4 | Feed Class             | Spike             |    | Spike             |    | Spike             |    | Spike             |    | Spike             |    | Spike             |    |       |       |       |       |           |       |    |    |    |     | Coal    | Coal    |    |
| 5 | Feed Class 2           |                   |    |                   |    |                   |    |                   |    |                   |    |                   |    | Spike | Spike | Spike | Spike | Spike     | Spike |    |    |    |     | Coal    | Coal    |    |
| 6 | Feedstream Desc        | Spike solid waste |    | Spike solid waste |    | Spike solid waste |    | Spike solid waste |    | Spike solid waste |    | Spike solid waste |    |       |       |       |       |           |       |    |    |    |     | Coal    | Coal    |    |
| 7 | Feed Rate              |                   |    | 5,049             |    | 4,982             |    | 5,335             |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     |         | 6,004   |    |
| 8 | Heating Value          |                   |    | 7,924             |    | 7,924             |    | 7,924             |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     |         | 12,000  |    |
| 9 | Thermal Feedrate       |                   |    | 40                |    | 39                |    | 42                |    |                   |    |                   |    |       | 238   |       |       | 235       |       |    |    |    | 238 |         | 72      |    |
| 0 | Chlorine               |                   |    | 17                |    | 16                |    | 22                |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     |         | 4       |    |
| 1 | Arsenic                |                   |    | 12.68             |    | 9.85              |    | 9.79              |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     |         | 0.09    |    |
| 2 | Beryllium              |                   |    | 0.00              |    | 0.00              |    | 0.00              |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     |         | 0.03    |    |
| 3 | Cadmium                |                   |    | 0.01              |    | 0.01              |    | 0.01              |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     |         | 0.03    |    |
| 4 | Chromium               |                   |    | 33.95             |    | 33.29             |    | 33.29             |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     |         | 0.01    |    |
| 5 | Lead                   |                   |    | 2.16              |    | 1.84              |    | 1.87              |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     |         | 0.08    |    |
| 6 |                        |                   |    |                   |    |                   |    |                   |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     |         |         |    |
| 7 | Stack Gas Flowrat      |                   |    | 72,359            |    | 74,471            |    | 72,178            |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     |         | 72359   |    |
| 8 | O2                     |                   |    | 8.6               |    | 8.9               |    | 8.8               |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     |         | 8.6     |    |
| 9 |                        |                   |    |                   |    |                   |    |                   |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     |         |         |    |
| 0 | <i>Feedrate MTEC C</i> |                   |    |                   |    |                   |    |                   |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     |         |         |    |
| 1 | Chlorine               |                   |    | 70,727            |    | 67,129            |    | 92,216            |    | 1,441,130         |    | 1,477,470         |    |       |       |       |       | 1,544,806 |       |    |    |    |     |         | 16,647  |    |
| 2 | Arsenic                |                   |    | 52,885            |    | 40,937            |    | 41,610            |    | 61,337            |    | 48,290            |    |       |       |       |       | 45,536    |       |    |    |    |     |         | 384     |    |
| 3 | Beryllium              |                   |    | 9                 |    | 10                |    | 9                 |    | 269               |    | 650               |    |       |       |       |       | 533       |       |    |    |    |     |         | 133     |    |
| 4 | Cadmium                |                   |    | 46                |    | 47                |    | 50                |    | 4,580             |    | 782               |    |       |       |       |       | 1,015     |       |    |    |    |     |         | 120     |    |
| 5 | Chromium               |                   |    | 141,639           |    | 138,287           |    | 141,510           |    | 163,161           |    | 161,640           |    |       |       |       |       | 165,689   |       |    |    |    |     |         | 33      |    |
| 6 | Lead                   |                   |    | 9,023             |    | 7,638             |    | 7,938             |    | 129,508           |    | 126,693           |    |       |       |       |       | 113,836   |       |    |    |    |     |         | 334     |    |
| 7 | SVM                    |                   |    | 9,068             |    | 7,685             |    | 7,988             |    | 134,088           |    | 127,475           |    |       |       |       |       | 114,851   |       |    |    |    |     |         | 454     |    |
| 8 | LVM                    |                   |    | 194,532           |    | 179,233           |    | 183,129           |    | 224,767           |    | 210,580           |    |       |       |       |       | 211,758   |       |    |    |    |     |         | 551     |    |
| 9 |                        |                   |    |                   |    |                   |    |                   |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     |         |         |    |
| 0 | <b>228C3</b>           | R1                |    | R2                |    | R3                |    | R4                |    | R5                |    | R6                |    |       |       |       |       |           |       |    |    |    |     | R1      | R2      |    |
| 1 | Feedstream Numt        | F3                |    | F3                |    | F3                |    | F3                |    | F3                |    | F3                |    |       |       |       |       |           |       |    |    |    |     | F4      | F4      |    |
| 2 | Feed Class             | Spike             |    | Spike             |    | Spike             |    | Spike             |    | Spike             |    | Spike             |    |       |       |       |       |           |       |    |    |    |     | Coal    | Coal    |    |
| 3 | Feedstream Desc        | Spike solid waste |    | Spike solid waste |    | Spike solid waste |    | Spike solid waste |    | Spike solid waste |    | Spike solid waste |    |       |       |       |       |           |       |    |    |    |     | Coal    | Coal    |    |
| 4 | Feed Rate              | 5,600             |    | 5,401             |    | 3,792             |    |                   |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     | 4,850   | 4,409   |    |
| 5 | Heating Value          | 6,715             |    | 6,498             |    | 7,924             |    |                   |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     | 12,391  | 12,496  |    |
| 6 | Chlorine               | 11                |    | 11                |    | 7                 |    |                   |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     | 5       | 4       |    |
| 7 |                        |                   |    |                   |    |                   |    |                   |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     |         |         |    |
| 8 | <b>228C4</b>           | R1                |    | R2                |    | R3                |    | R4                |    | R5                |    | R6                |    |       |       |       |       |           |       |    |    |    |     | R1      | R2      |    |
| 9 | Feedstream Numt        | F3                |    | F3                |    | F3                |    | F3                |    | F3                |    | F3                |    |       |       |       |       |           |       |    |    |    |     | F4      | F4      |    |
| 0 | Feed Class             | Spike             |    | Spike             |    | Spike             |    | Spike             |    | Spike             |    | Spike             |    |       |       |       |       |           |       |    |    |    |     | Coal    | Coal    |    |
| 1 | Feedstream Desc        | Spike solid waste |    | Spike solid waste |    | Spike solid waste |    | Spike solid waste |    | Spike solid waste |    | Spike solid waste |    |       |       |       |       |           |       |    |    |    |     | Coal    | Coal    |    |
| 2 | Feed Rate              | 3,549             |    | 4,012             |    | 3,461             |    |                   |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     | 7,540   | 7,121   |    |
| 3 | Heating Value          | 7,269             |    | 9,496             |    | 10,892            |    |                   |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     | 12,998  | 13,116  |    |
| 4 | Chlorine               | 144               |    | 238               |    | 254               |    |                   |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     | 2       | 3       |    |
| 5 |                        |                   |    |                   |    |                   |    |                   |    |                   |    |                   |    |       |       |       |       |           |       |    |    |    |     |         |         |    |
| 6 | <b>228C5</b>           | R1                |    | R2                |    | R3                |    | R4                |    | R5                |    | R6                |    |       |       |       |       |           |       |    |    |    |     | R1      | R2      |    |

|    | B                      | BE | BF      | BC | BH     | BI | BJ   | BH | BL     | BN | BN          | BC | BP          | BC | BR          | BS | BT          | BU | BV          | BV | BX          | BV | BZ          | CA | CB           | C | CD           | C | CF           | CD | CH           | C | CJ           | CH |  |
|----|------------------------|----|---------|----|--------|----|------|----|--------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|--------------|---|--------------|---|--------------|----|--------------|---|--------------|----|--|
| 1  | <b>Feedstream 2</b>    |    |         |    |        |    |      |    |        |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 2  |                        |    |         |    |        |    |      |    |        |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 3  |                        |    |         |    |        |    |      |    |        |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 4  | <b>228C1</b>           |    | R3      |    | R4     |    | R5   |    | R6     |    | R1          |    | R2          |    | R3          |    | R4          |    | R5          |    | R6          |    | R1          |    | R2           |   | R3           |   | R4           |    | R5           |   | R6           |    |  |
| 5  |                        |    |         |    |        |    |      |    |        |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 6  | Feedstream Numt        |    | F4      |    | F4     |    | F4   |    | F4     |    | F5          |    | F5          |    | F5          |    | F5          |    | F5          |    | F5          |    | F5          |    | F6           |   | F6           |   | F6           |    | F6           |   | F6           |    |  |
| 7  | Feed Class             |    | Coal    |    | Coal   |    | Coal |    | Coal   |    | Solid HW    |    | Solid HW    |    | Solid HW    |    | Solid HW    |    | Solid HW    |    | Solid HW    |    | Solid HW    |    | Liq HW       |   | Liq HW       |   | Liq HW       |    | Liq HW       |   | Liq HW       |    |  |
| 8  | Feedstream Descr       |    | Coal    |    | Coal   |    | Coal |    | Coal   |    | Solid waste |    | Solid waste |    | Solid waste |    | Solid waste |    | Solid waste |    | Solid waste |    | Solid waste |    | Liquid waste |   | Liquid waste |   | Liquid waste |    | Liquid waste |   | Liquid waste |    |  |
| 9  | Feed Rate              |    | 3990.39 |    |        |    |      |    |        |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 10 | Heating Value          |    | 12505.1 |    |        |    |      |    |        |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 11 | Chlorine               |    | 3.99033 |    |        |    |      |    |        |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 12 |                        |    |         |    |        |    |      |    |        |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 13 | <b>228C2</b>           |    | R3      |    | R4     |    | R5   |    | R6     |    | R1          |    | R2          |    | R3          |    | R4          |    | R5          |    | R6          |    | R1          |    | R2           |   | R3           |   | R4           |    | R5           |   | R6           |    |  |
| 14 |                        |    |         |    |        |    |      |    |        |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 15 | Feedstream Numt        |    | F4      |    | F4     |    | F4   |    | F4     |    | F5          |    | F5          |    | F5          |    | F5          |    | F5          |    | F5          |    | F5          |    | F6           |   | F6           |   | F6           |    | F6           |   | F6           |    |  |
| 16 | Feed Class             |    | Coal    |    | Coal   |    | Coal |    | Coal   |    | Solid HW    |    | Solid HW    |    | Solid HW    |    | Solid HW    |    | Solid HW    |    | Solid HW    |    | Solid HW    |    | Liq HW       |   | Liq HW       |   | Liq HW       |    | Liq HW       |   | Liq HW       |    |  |
| 17 | Feed Class 2           |    | Coal    |    | Coal   |    | Coal |    | Coal   |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 18 | Feedstream Descr       |    | Coal    |    | Coal   |    | Coal |    | Coal   |    | Solid waste |    | Solid waste |    | Solid waste |    | Solid waste |    | Solid waste |    | Solid waste |    | Solid waste |    | Liquid waste |   | Liquid waste |   | Liquid waste |    | Liquid waste |   | Liquid waste |    |  |
| 19 | Feed Rate              |    |         |    | 5,077  |    |      |    | 3,996  |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 20 | Heating Value          |    |         |    | 12,000 |    |      |    | 12,000 |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 21 | Thermal Feedrate       |    |         |    | 61     |    |      |    | 48     |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 22 | Chlorine               |    |         |    | 4      |    |      |    | 4      |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 23 | Arsenic                |    |         |    | 0.08   |    |      |    | 0.08   |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 24 | Beryllium              |    |         |    | 0.04   |    |      |    | 0.03   |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 25 | Cadmium                |    |         |    | 0.01   |    |      |    | 0.02   |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 26 | Chromium               |    |         |    | 0.01   |    |      |    | 0.01   |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 27 | Lead                   |    |         |    | 0.15   |    |      |    | 0.14   |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 28 |                        |    |         |    |        |    |      |    |        |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 29 | Stack Gas Flowrat      |    |         |    | 74471  |    |      |    | 72178  |    |             |    |             |    | 72359       |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 30 | O2                     |    |         |    | 8.9    |    |      |    | 8.8    |    |             |    |             |    | 8.6         |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 31 |                        |    |         |    |        |    |      |    |        |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 32 | <i>Feedrate MTEC C</i> |    |         |    |        |    |      |    |        |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 33 | Chlorine               |    |         |    | 18,316 |    |      |    | 16,963 |    |             |    |             | 0  |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 34 | Arsenic                |    |         |    | 329    |    |      |    | 323    |    |             |    |             | 0  |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 35 | Beryllium              |    |         |    | 146    |    |      |    | 136    |    |             |    |             | 0  |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 36 | Cadmium                |    |         |    | 57     |    |      |    | 83     |    |             |    |             | 0  |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 37 | Chromium               |    |         |    | 55     |    |      |    | 34     |    |             |    |             | 0  |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 38 | Lead                   |    |         |    | 640    |    |      |    | 595    |    |             |    |             | 0  |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 39 | SVM                    |    |         |    | 697    |    |      |    | 678    |    |             |    |             | 0  |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 40 | LVM                    |    |         |    | 529    |    |      |    | 493    |    |             |    |             | 0  |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 41 |                        |    |         |    |        |    |      |    |        |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 42 | <b>228C3</b>           |    | R3      |    | R4     |    | R5   |    | R6     |    | R1          |    | R2          |    | R3          |    | R4          |    | R5          |    | R6          |    | R1          |    | R2           |   | R3           |   | R4           |    | R5           |   | R6           |    |  |
| 43 |                        |    |         |    |        |    |      |    |        |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 44 | Feedstream Numt        |    | F4      |    | F4     |    | F4   |    | F4     |    | F5          |    | F5          |    | F5          |    | F5          |    | F5          |    | F5          |    | F5          |    | F6           |   | F6           |   | F6           |    | F6           |   | F6           |    |  |
| 45 | Feed Class             |    | Coal    |    | Coal   |    | Coal |    | Coal   |    | Solid HW    |    | Solid HW    |    | Solid HW    |    | Solid HW    |    | Solid HW    |    | Solid HW    |    | Solid HW    |    | Liq HW       |   | Liq HW       |   | Liq HW       |    | Liq HW       |   | Liq HW       |    |  |
| 46 | Feedstream Descr       |    | Coal    |    | Coal   |    | Coal |    | Coal   |    | Solid waste |    | Solid waste |    | Solid waste |    | Solid waste |    | Solid waste |    | Solid waste |    | Solid waste |    | Liquid waste |   | Liquid waste |   | Liquid waste |    | Liquid waste |   | Liquid waste |    |  |
| 47 | Feed Rate              |    | 3,990   |    |        |    |      |    |        |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 48 | Heating Value          |    | 12,405  |    |        |    |      |    |        |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 49 | Chlorine               |    | 4       |    |        |    |      |    |        |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 50 |                        |    |         |    |        |    |      |    |        |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 51 | <b>228C4</b>           |    | R3      |    | R4     |    | R5   |    | R6     |    | R1          |    | R2          |    | R3          |    | R4          |    | R5          |    | R6          |    | R1          |    | R2           |   | R3           |   | R4           |    | R5           |   | R6           |    |  |
| 52 |                        |    |         |    |        |    |      |    |        |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 53 | Feedstream Numt        |    | F4      |    | F4     |    | F4   |    | F4     |    | F5          |    | F5          |    | F5          |    | F5          |    | F5          |    | F5          |    | F5          |    | F6           |   | F6           |   | F6           |    | F6           |   | F6           |    |  |
| 54 | Feed Class             |    | Coal    |    | Coal   |    | Coal |    | Coal   |    | Solid HW    |    | Solid HW    |    | Solid HW    |    | Solid HW    |    | Solid HW    |    | Solid HW    |    | Solid HW    |    | Liq HW       |   | Liq HW       |   | Liq HW       |    | Liq HW       |   | Liq HW       |    |  |
| 55 | Feedstream Descr       |    | Coal    |    | Coal   |    | Coal |    | Coal   |    | Solid waste |    | Solid waste |    | Solid waste |    | Solid waste |    | Solid waste |    | Solid waste |    | Solid waste |    | Liquid waste |   | Liquid waste |   | Liquid waste |    | Liquid waste |   | Liquid waste |    |  |
| 56 | Feed Rate              |    | 6,327   |    |        |    |      |    |        |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 57 | Heating Value          |    | 13,118  |    |        |    |      |    |        |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 58 | Chlorine               |    | 3       |    |        |    |      |    |        |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 59 |                        |    |         |    |        |    |      |    |        |    |             |    |             |    |             |    |             |    |             |    |             |    |             |    |              |   |              |   |              |    |              |   |              |    |  |
| 60 | <b>228C5</b>           |    | R3      |    | R4     |    | R5   |    | R6     |    | R1          |    | R2          |    | R3          |    | R4          |    | R5          |    | R6          |    | R1          |    | R2           |   | R3           |   | R4           |    | R5           |   | R6           |    |  |

|    | B                      | CL    | CN        | CP    | CR        | CV    | CX        |           |
|----|------------------------|-------|-----------|-------|-----------|-------|-----------|-----------|
| 1  | <b>Feedstream 2</b>    |       |           |       |           |       |           |           |
| 2  |                        |       |           |       |           |       |           |           |
| 3  |                        |       |           |       |           |       |           |           |
| 4  | <b>228C1</b>           | R1    | R2        | R3    | R4        | R5    | R6        | Cond Avg  |
| 5  |                        |       |           |       |           |       |           |           |
| 6  | Feedstream Numt        | F7    | F7        | F7    | F7        | F7    | F7        | F7        |
| 7  | Feed Class             | Total | Total     | Total | Total     | Total | Total     | Total     |
| 8  | Feedstream Descr       | Total | Total     | Total | Total     | Total | Total     | Total     |
| 9  | Feed Rate              |       |           |       |           |       |           |           |
| 10 | Heating Value          |       |           |       |           |       |           |           |
| 11 | Chlorine               |       |           |       |           |       |           |           |
| 12 |                        |       |           |       |           |       |           |           |
| 13 | <b>228C2</b>           | R1    | R2        | R3    | R4        | R5    | R6        | Cond Avg  |
| 14 |                        |       |           |       |           |       |           |           |
| 15 | Feedstream Numt        | F7    | F7        | F7    | F7        | F7    | F7        | F7        |
| 16 | Feed Class             | Total | Total     | Total | Total     | Total | Total     | Total     |
| 17 | Feed Class 2           | Total | Total     | Total | Total     | Total | Total     | Total     |
| 18 | Feedstream Descr       | Total | Total     | Total | Total     | Total | Total     | Total     |
| 19 | Feed Rate              |       |           |       |           |       |           |           |
| 20 | Heating Value          |       |           |       |           |       |           |           |
| 21 | Thermal Feedrate       |       | 310       |       | 296       |       | 286       | 298       |
| 22 | Chlorine               |       |           |       |           |       |           |           |
| 23 | Arsenic                |       |           |       |           |       |           |           |
| 24 | Beryllium              |       |           |       |           |       |           |           |
| 25 | Cadmium                |       |           |       |           |       |           |           |
| 26 | Chromium               |       |           |       |           |       |           |           |
| 27 | Lead                   |       |           |       |           |       |           |           |
| 28 |                        |       |           |       |           |       |           |           |
| 29 | Stack Gas Flowrat      |       |           |       |           |       |           |           |
| 30 | O2                     |       |           |       |           |       |           |           |
| 31 |                        |       |           |       |           |       |           |           |
| 32 | <i>Feedrate MTEC C</i> |       |           |       |           |       |           |           |
| 33 | Chlorine               |       | 1,997,660 |       | 1,992,153 |       | 2,080,015 | 2,023,276 |
| 34 | Arsenic                |       | 62,477    |       | 49,215    |       | 46,533    | 52,742    |
| 35 | Beryllium              |       | 781       |       | 1,119     |       | 1,006     | 969       |
| 36 | Cadmium                |       | 4,808     |       | 939       |       | 1,202     | 2,317     |
| 37 | Chromium               |       | 166,431   |       | 164,680   |       | 168,834   | 166,649   |
| 38 | Lead                   |       | 156,790   |       | 149,678   |       | 135,142   | 147,203   |
| 39 | SVM                    |       | 161,598   |       | 150,617   |       | 136,345   | 149,520   |
| 40 | LVM                    |       | 229,689   |       | 215,015   |       | 216,374   | 220,359   |
| 41 |                        |       |           |       |           |       |           |           |
| 42 | <b>228C3</b>           | R1    | R2        | R3    | R4        | R5    | R6        | Cond Avg  |
| 43 |                        |       |           |       |           |       |           |           |
| 44 | Feedstream Numt        | F7    | F7        | F7    | F7        | F7    | F7        | F7        |
| 45 | Feed Class             | Total | Total     | Total | Total     | Total | Total     | Total     |
| 46 | Feedstream Descr       | Total | Total     | Total | Total     | Total | Total     | Total     |
| 47 | Feed Rate              |       |           |       |           |       |           |           |
| 48 | Heating Value          |       |           |       |           |       |           |           |
| 49 | Chlorine               |       |           |       |           |       |           |           |
| 50 |                        |       |           |       |           |       |           |           |
| 51 | <b>228C4</b>           | R1    | R2        | R3    | R4        | R5    | R6        | Cond Avg  |
| 52 |                        |       |           |       |           |       |           |           |
| 53 | Feedstream Numt        | F7    | F7        | F7    | F7        | F7    | F7        | F7        |
| 54 | Feed Class             | Total | Total     | Total | Total     | Total | Total     | Total     |
| 55 | Feedstream Descr       | Total | Total     | Total | Total     | Total | Total     | Total     |
| 56 | Feed Rate              |       |           |       |           |       |           |           |
| 57 | Heating Value          |       |           |       |           |       |           |           |
| 58 | Chlorine               |       |           |       |           |       |           |           |
| 59 |                        |       |           |       |           |       |           |           |
| 60 | <b>228C5</b>           | R1    | R2        | R3    | R4        | R5    | R6        | Cond Avg  |

|    | B             | C | D      | E | F  | G | H  | I | J  | K | L  | M | N  | O | P  | Q | R  | S | T  | U | V  | W | X  | Y | Z  | AA | AB | AC |
|----|---------------|---|--------|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|----|----|----|
| 61 |               |   |        |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    |    |
| 62 | Feedrate      |   | lb/hr  |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    |    |
| 63 | Heating value |   | Btu/lb |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    |    |
| 64 |               |   |        |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    |    |
| 65 | <b>228C6</b>  |   |        |   | R1 |   | R2 |   | R3 |   | R4 |   | R5 |   | R6 |   | R1 |   | R2 |   | R3 |   | R4 |   | R5 |    | R6 |    |
| 66 |               |   |        |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    |    |
| 67 | Feedrate      |   | lb/hr  |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    |    |
| 68 | Heating value |   | Btu/lb |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    |    |
| 69 |               |   |        |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    |    |
| 70 | <b>228C7</b>  |   |        |   | R1 |   | R2 |   | R3 |   | R4 |   | R5 |   | R6 |   | R1 |   | R2 |   | R3 |   | R4 |   | R5 |    | R6 |    |
| 71 |               |   |        |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    |    |
| 72 | Feedrate      |   | lb/hr  |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    |    |
| 73 | Heating value |   | Btu/lb |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    |    |

|   | B             | AD | AE | AF | AG | AH | AI | AJ | AK | AL | AM | AN | AO | AP | AQ | AR | AS | AT | AU | AV | AW | AX | AY | AZ | BA | BB     | BC    | BD |
|---|---------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|-------|----|
| 1 |               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |       |    |
| 2 | Feedrate      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 15,840 | 5,860 |    |
| 3 | Heating value |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0      | 0     |    |
| 4 |               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |       |    |
| 5 | <b>228C6</b>  | R1 |    | R2 |    | R3 |    | R4 |    | R5 |    | R6 |    |    |    |    |    |    |    |    |    |    |    |    | R1 | R2     |       |    |
| 6 |               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |       |    |
| 7 | Feedrate      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 15000  | 14600 |    |
| 8 | Heating value |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0      | 0     |    |
| 9 |               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |       |    |
| 0 | <b>228C7</b>  | R1 |    | R2 |    | R3 |    | R4 |    | R5 |    | R6 |    |    |    |    |    |    |    |    |    |    |    |    | R1 | R2     |       |    |
| 1 |               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |       |    |
| 2 | Feedrate      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 4000   | 4000  |    |
| 3 | Heating value |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0      | 0     |    |



|    | B             | BE | BF    | BD | BH | BI | BJ | BH | BL | BN | BN | BD    | BP | BD   | BR | BS | BT | BU | BV | BV | BX | BV | BZ | CA | CB   | C | CD | CD | CF | CD | CH | CI | CJ | CK |
|----|---------------|----|-------|----|----|----|----|----|----|----|----|-------|----|------|----|----|----|----|----|----|----|----|----|----|------|---|----|----|----|----|----|----|----|----|
| 61 |               |    |       |    |    |    |    |    |    |    |    |       |    |      |    |    |    |    |    |    |    |    |    |    |      |   |    |    |    |    |    |    |    |    |
| 62 | Feedrate      |    |       |    |    |    |    |    |    |    |    | 3,924 |    |      |    |    |    |    |    |    |    |    |    |    | 7856 |   |    |    |    |    |    |    |    |    |
| 63 | Heating value |    |       |    |    |    |    |    |    |    |    | 0     |    |      |    |    |    |    |    |    |    |    |    | 0  |      |   |    |    |    |    |    |    |    |    |
| 64 |               |    |       |    |    |    |    |    |    |    |    |       |    |      |    |    |    |    |    |    |    |    |    |    |      |   |    |    |    |    |    |    |    |    |
| 65 | <b>228C6</b>  |    | R3    |    | R4 |    | R5 |    | R6 |    | R1 |       | R2 |      | R3 |    | R4 |    | R5 |    | R6 |    | R1 |    | R2   |   | R3 |    | R4 |    | R5 |    | R6 |    |
| 66 |               |    |       |    |    |    |    |    |    |    |    |       |    |      |    |    |    |    |    |    |    |    |    |    |      |   |    |    |    |    |    |    |    |    |
| 67 | Feedrate      |    | 13800 |    |    |    |    |    |    |    |    | 60    |    | 60   |    | 60 |    |    |    |    |    |    |    |    |      |   |    |    |    |    |    |    |    |    |
| 68 | Heating value |    | 0     |    |    |    |    |    |    |    |    | 0     |    | 0    |    | 0  |    |    |    |    |    |    |    |    |      |   |    |    |    |    |    |    |    |    |
| 69 |               |    |       |    |    |    |    |    |    |    |    |       |    |      |    |    |    |    |    |    |    |    |    |    |      |   |    |    |    |    |    |    |    |    |
| 70 | <b>228C7</b>  |    | R3    |    | R4 |    | R5 |    | R6 |    | R1 |       | R2 |      | R3 |    | R4 |    | R5 |    | R6 |    | R1 |    | R2   |   | R3 |    | R4 |    | R5 |    | R6 |    |
| 71 |               |    |       |    |    |    |    |    |    |    |    |       |    |      |    |    |    |    |    |    |    |    |    |    |      |   |    |    |    |    |    |    |    |    |
| 72 | Feedrate      |    | 4000  |    |    |    |    |    |    |    |    | 62.4  |    | 74.1 |    | 80 |    |    |    |    |    |    |    |    |      |   |    |    |    |    |    |    |    |    |
| 73 | Heating value |    | 0     |    |    |    |    |    |    |    |    | 0     |    | 0    |    | 0  |    |    |    |    |    |    |    |    |      |   |    |    |    |    |    |    |    |    |

|    | B             | CL | CN | CN | CP | CP | CR | CT       | CT | CV | CV | CX |
|----|---------------|----|----|----|----|----|----|----------|----|----|----|----|
| 61 |               |    |    |    |    |    |    |          |    |    |    |    |
| 62 | Feedrate      |    |    |    |    |    |    |          |    |    |    |    |
| 63 | Heating value |    |    |    |    |    |    |          |    |    |    |    |
| 64 |               |    |    |    |    |    |    |          |    |    |    |    |
| 65 | <b>228C6</b>  | R1 | R2 | R3 | R4 | R5 | R6 | Cond Avg |    |    |    |    |
| 66 |               |    |    |    |    |    |    |          |    |    |    |    |
| 67 | Feedrate      |    |    |    |    |    |    |          |    |    |    |    |
| 68 | Heating value |    |    |    |    |    |    |          |    |    |    |    |
| 69 |               |    |    |    |    |    |    |          |    |    |    |    |
| 70 | <b>228C7</b>  | R1 | R2 | R3 | R4 | R5 | R6 | Cond Avg |    |    |    |    |
| 71 |               |    |    |    |    |    |    |          |    |    |    |    |
| 72 | Feedrate      |    |    |    |    |    |    |          |    |    |    |    |
| 73 | Heating value |    |    |    |    |    |    |          |    |    |    |    |

|    | B                            | C   | D          | E     | F     | G     |
|----|------------------------------|-----|------------|-------|-------|-------|
| 1  | <b>Process Information 1</b> |     |            |       |       |       |
| 2  |                              |     |            |       |       |       |
| 3  | <b>228C10</b>                |     | Normal ops | Run 1 | Run 2 | Run 3 |
| 4  |                              |     |            |       |       |       |
| 5  | ESP Inlet Temp               | F   | RA         | 421   | 375   | 399   |
| 6  | ESP Power                    | kVA | RA         | 40.7  | 46.5  | 53.2  |
| 7  | Chain Temp                   | F   | RA         | 1624  | 1536  | 1589  |
| 8  |                              |     |            |       |       |       |
| 9  | <b>228C11</b>                |     | D/F test   | Run 5 | Run 6 | Run 7 |
| 10 |                              |     |            |       |       |       |
| 11 | ESP Inlet Temp               | F   | max HRA    | 450   | 464   | 422   |
| 12 | ESP Inlet Temp               | F   | RA         | 437   | 444   | 414   |
| 13 | ESP Power                    | kVA | min HRA    | 56    | 54.5  | 47    |
| 14 | ESP Power                    | kVA | RA         | 56.9  | 55.6  | 50.1  |
| 15 | Chain Temp                   | F   | max HRA    | 1705  | 1712  | 1711  |
| 16 | Chain Temp                   | F   | RA         | 1688  | 1687  | 1692  |

|    | C                            | D   | E     | F     | G     |
|----|------------------------------|-----|-------|-------|-------|
| 1  | <b>Process Information 2</b> |     |       |       |       |
| 2  |                              |     |       |       |       |
| 3  | <b>228C1</b>                 |     | Run 1 | Run 2 | Run 3 |
| 4  |                              |     |       |       |       |
| 5  | Combustion Temperature       | F   | 1592  | 1588  | 1544  |
| 6  | ESP Temperature              | F   | 449   | 453   | 434   |
| 7  | ESP Power                    | kVA | 98    | 97    | 92    |
| 8  |                              |     |       |       |       |
| 9  | <b>228C2</b>                 |     | Run 1 | Run 2 | Run 3 |
| 10 |                              |     |       |       |       |
| 11 | Combustion Temperature       | F   | 1574  | 1651  | 1691  |
| 12 | ESP Temperature              | F   | 500   | 485   | 506   |
| 13 | ESP Power                    | kVA | 58    | 60    | 58    |
| 14 |                              |     |       |       |       |
| 15 | <b>228C3</b>                 |     | Run 1 | Run 2 | Run 3 |
| 16 |                              |     |       |       |       |
| 17 | Combustion Temperature       | F   | 1624  | 1637  | 1623  |
| 18 | ESP Temperature              | F   | 473   | 453   | 453   |
| 19 | ESP Power                    | kVA | 60    | 63    | 62    |
| 20 |                              |     |       |       |       |
| 21 | <b>228C4</b>                 |     | Run 1 | Run 2 | Run 3 |
| 22 |                              |     |       |       |       |
| 23 | Combustion Temperature       | F   | 1450  | 1413  | 1465  |
| 24 | ESP Temperature              | F   | 380   | 376   | 388   |
| 25 | ESP Power                    | kVA | 71.2  | 71.4  | 69.1  |
| 26 |                              |     |       |       |       |
| 27 | <b>228C5</b>                 |     | Run 1 | Run 2 |       |
| 28 |                              |     |       |       |       |
| 29 | ESP Temperature              | F   | 345.3 | 444.9 |       |

| A  | B                              | C                                  | D       | E       | F      | G      | H       | I       | J      | K      | L       | M       | N      | O      | P       | Q       | R      |        |
|----|--------------------------------|------------------------------------|---------|---------|--------|--------|---------|---------|--------|--------|---------|---------|--------|--------|---------|---------|--------|--------|
| 1  | <b>PCDD/PCDF</b>               |                                    |         |         |        |        |         |         |        |        |         |         |        |        |         |         |        |        |
| 2  | N                              |                                    |         |         |        |        |         |         |        |        |         |         |        |        |         |         |        |        |
| 3  | Facility Name and ID:          | Ash Grove, Foreman, AR, Kiln No. 1 |         |         |        |        |         |         |        |        |         |         |        |        |         |         |        |        |
| 4  | Condition ID:                  | 228C11                             |         |         |        |        |         |         |        |        |         |         |        |        |         |         |        |        |
| 5  | Condition/Test Date:           | CoC burn, 1/6-8/98                 |         |         |        |        |         |         |        |        |         |         |        |        |         |         |        |        |
| 6  |                                |                                    |         |         |        |        |         |         |        |        |         |         |        |        |         |         |        |        |
| 7  | Run No.                        | I-TEF                              | R1      | R1      | R1     | R1     | R2      | R2      | R2     | R2     | R3      | R3      | R3     | R3     |         |         |        |        |
| 8  |                                | Wght Fact                          | Total   | TEQ     | Total  | TEQ    | Total   | TEQ     | Total  | TEQ    | Total   | TEQ     | Total  | TEQ    | Total   | TEQ     |        |        |
| 9  |                                |                                    | Full ND | Full ND | 1/2 ND | 1/2 ND | Full ND | Full ND | 1/2 ND | 1/2 ND | Full ND | Full ND | 1/2 ND | 1/2 ND | Full ND | Full ND | 1/2 ND | 1/2 ND |
| 10 | Detected in sample volume (ng) |                                    |         |         |        |        |         |         |        |        |         |         |        |        |         |         |        |        |
| 11 | 2,3,7,8-TCDD                   | 1                                  | 0.06    | 0.0600  | 0.060  | 0.0600 | 0.04    | 0.0400  | 0.040  | 0.0400 | 0.04    | 0.0400  | 0.040  | 0.0400 | 0.040   | 0.0400  | 0.040  | 0.0400 |
| 12 | TCDD Total                     | 0                                  | 4.9     | 0.0000  | 4.900  | 0.0000 | 10.3    | 0.0000  | 10.300 | 0.0000 | 2.9     | 0.0000  | 2.900  | 0.0000 | 2.900   | 0.0000  | 2.900  | 0.0000 |
| 13 | 1,2,3,7,8-PCDD                 | 0.5                                | 0.05    | 0.0250  | 0.050  | 0.0250 | 0.05    | 0.0250  | 0.050  | 0.0250 | 0.04    | 0.0200  | 0.040  | 0.0200 | 0.040   | 0.0200  | 0.040  | 0.0200 |
| 14 | PCDD Total                     | 0                                  | 5.5     | 0.0000  | 5.500  | 0.0000 | 7.9     | 0.0000  | 7.900  | 0.0000 | 1.1     | 0.0000  | 1.100  | 0.0000 | 1.100   | 0.0000  | 1.100  | 0.0000 |
| 15 | 1,2,3,4,7,8-HxCDD              | 0.1                                | 0.04    | 0.0040  | 0.040  | 0.0040 | 0.05    | 0.0050  | 0.050  | 0.0050 | 0.03    | 0.0030  | 0.030  | 0.0030 | 0.030   | 0.0030  | 0.030  | 0.0030 |
| 16 | 1,2,3,6,7,8-HxCDD              | 0.1                                | 0.1     | 0.0100  | 0.100  | 0.0100 | 0.13    | 0.0130  | 0.130  | 0.0130 | 0.06    | 0.0060  | 0.060  | 0.0060 | 0.060   | 0.0060  | 0.060  | 0.0060 |
| 17 | 1,2,3,7,8,9-HxCDD              | 0.1                                | 0.05    | 0.0050  | 0.050  | 0.0050 | 0.11    | 0.0110  | 0.110  | 0.0110 | 0.07    | 0.0070  | 0.070  | 0.0070 | 0.070   | 0.0070  | 0.070  | 0.0070 |
| 18 | HxCDD Total                    | 0                                  | 29.9    | 0.0000  | 29.900 | 0.0000 | 48.1    | 0.0000  | 48.100 | 0.0000 | 7.3     | 0.0000  | 7.300  | 0.0000 | 7.300   | 0.0000  | 7.300  | 0.0000 |
| 19 | 1,2,3,4,6,7,8-HpCDD            | 0.01                               | 0.68    | 0.0068  | 0.680  | 0.0068 | 1.2     | 0.0120  | 1.200  | 0.0120 | 0.37    | 0.0037  | 0.370  | 0.0037 | 0.370   | 0.0037  | 0.370  | 0.0037 |
| 20 | HpCDD Total                    | 0                                  | 1.7     | 0.0000  | 1.700  | 0.0000 | 2.8     | 0.0000  | 2.800  | 0.0000 | 0.72    | 0.0000  | 0.720  | 0.0000 | 0.720   | 0.0000  | 0.720  | 0.0000 |
| 21 | OCDD                           | 0.001                              | 0.13    | 0.0001  | 0.130  | 0.0001 | 0.3     | 0.0003  | 0.300  | 0.0003 | 0.22    | 0.0002  | 0.220  | 0.0002 | 0.220   | 0.0002  | 0.220  | 0.0002 |
| 22 | 2,3,7,8-TCDF                   | 0.1                                | 0.13    | 0.0130  | 0.130  | 0.0130 | 0.11    | 0.0110  | 0.110  | 0.0110 | 0.06    | 0.0060  | 0.060  | 0.0060 | 0.060   | 0.0060  | 0.060  | 0.0060 |
| 23 | TCDF Total                     | 0                                  | 4.3     | 0.0000  | 4.300  | 0.0000 | 4.2     | 0.0000  | 4.200  | 0.0000 | 1.6     | 0.0000  | 1.600  | 0.0000 | 1.600   | 0.0000  | 1.600  | 0.0000 |
| 24 | 1,2,3,7,8-PCDF                 | 0.05                               | 0.06    | 0.0030  | 0.060  | 0.0030 | 0.05    | 0.0025  | 0.050  | 0.0025 | 0.03    | 0.0015  | 0.030  | 0.0015 | 0.030   | 0.0015  | 0.030  | 0.0015 |
| 25 | 2,3,4,7,8-PCDF                 | 0.5                                | 0.14    | 0.0700  | 0.140  | 0.0700 | 0.19    | 0.0950  | 0.190  | 0.0950 | 0.05    | 0.0250  | 0.050  | 0.0250 | 0.050   | 0.0250  | 0.050  | 0.0250 |
| 26 | PCDF Total                     | 0                                  | 1.2     | 0.0000  | 1.200  | 0.0000 | 1.3     | 0.0000  | 1.300  | 0.0000 | 0.27    | 0.0000  | 0.270  | 0.0000 | 0.270   | 0.0000  | 0.270  | 0.0000 |
| 27 | 1,2,3,4,7,8-HxCDF              | 0.1                                | 0.08    | 0.0080  | 0.080  | 0.0080 | 0.09    | 0.0090  | 0.090  | 0.0090 | 0.04    | 0.0040  | 0.040  | 0.0040 | 0.040   | 0.0040  | 0.040  | 0.0040 |
| 28 | 1,2,3,6,7,8-HxCDF              | 0.1                                | 0.02    | 0.0020  | 0.020  | 0.0020 | 0.04    | 0.0040  | 0.040  | 0.0040 | 0.02    | 0.0020  | 0.020  | 0.0020 | 0.020   | 0.0020  | 0.020  | 0.0020 |
| 29 | 2,3,4,6,7,8-HxCDF              | 0.1                                | 0.05    | 0.0050  | 0.050  | 0.0050 | 0.09    | 0.0090  | 0.090  | 0.0090 | 0.02    | 0.0020  | 0.020  | 0.0020 | 0.020   | 0.0020  | 0.020  | 0.0020 |
| 30 | 1,2,3,7,8,9-HxCDF              | 0.1                                | 0.01    | 0.0010  | 0.010  | 0.0010 | 0.02    | 0.0020  | 0.020  | 0.0020 | 0.01    | 0.0010  | 0.010  | 0.0010 | 0.010   | 0.0010  | 0.010  | 0.0010 |
| 31 | HxCDF Total                    | 0                                  | 0.36    | 0.0000  | 0.360  | 0.0000 | 0.45    | 0.0000  | 0.450  | 0.0000 | 0.16    | 0.0000  | 0.160  | 0.0000 | 0.160   | 0.0000  | 0.160  | 0.0000 |
| 32 | 1,2,3,4,6,7,8-HpCDF            | 0.01                               | 0.008   | 0.0001  | 0.008  | 0.0001 | 0.04    | 0.0004  | 0.040  | 0.0004 | 0.008   | 0.0001  | 0.008  | 0.0001 | 0.008   | 0.0001  | 0.008  | 0.0001 |
| 33 | 1,2,3,4,7,8,9-HpCDF            | 0.01                               | 0.01    | 0.0001  | 0.010  | 0.0001 | 0.02    | 0.0002  | 0.020  | 0.0002 | 0.01    | 0.0001  | 0.010  | 0.0001 | 0.010   | 0.0001  | 0.010  | 0.0001 |
| 34 | HpCDF Total                    | 0                                  | 0.01    | 0.0000  | 0.010  | 0.0000 | 0.04    | 0.0000  | 0.040  | 0.0000 | 0.01    | 0.0000  | 0.010  | 0.0000 | 0.010   | 0.0000  | 0.010  | 0.0000 |
| 35 | OCDF                           | 0.001                              | 0.02    | 0.0000  | 0.020  | 0.0000 | 0.03    | 0.0000  | 0.030  | 0.0000 | 0.02    | 0.0000  | 0.020  | 0.0000 | 0.020   | 0.0000  | 0.020  | 0.0000 |
| 36 |                                |                                    |         |         |        |        |         |         |        |        |         |         |        |        |         |         |        |        |
| 37 | Gas sample volume (dscf)       |                                    |         |         | 92.50  | 92.47  | 92.50   |         |        | 91.87  | 91.87   | 91.87   |        |        | 117.60  | 117.63  | 117.60 |        |
| 38 | O2 (%)                         |                                    |         |         | 7.31   | 7.31   | 7.31    |         |        | 6.92   | 6.92    | 6.92    |        |        | 6.68    | 6.68    | 6.68   |        |
| 39 |                                |                                    |         |         |        |        |         |         |        |        |         |         |        |        |         |         |        |        |
| 40 | PCDD/PCDF (ng in sample)       |                                    |         |         | 0.213  | 48.020 | 0.213   |         |        | 0.239  | 75.420  | 0.239   |        |        | 0.122   | 14.300  | 0.122  |        |
| 41 | PCDD/PCDF (ng/dscm @ 7% O2)    |                                    | 0.0     |         | 0.083  | 18.765 | 0.083   | 0.0     |        | 0.092  | 28.843  | 0.092   | 0.0    |        | 0.036   | 4.200   | 0.036  |        |
| 42 |                                |                                    |         |         |        |        |         |         |        |        |         |         |        |        |         |         |        |        |
| 43 | TEQ Cond Avg                   |                                    | 0.070   |         |        |        |         |         |        |        |         |         |        |        |         |         |        |        |
| 44 | Total Cond Avg                 |                                    | 17.269  |         |        |        |         |         |        |        |         |         |        |        |         |         |        |        |

|    | C               | D         | E   | F       | G       | H      | I   | J       | K       | L      | M   | N       | O       | P      |
|----|-----------------|-----------|-----|---------|---------|--------|-----|---------|---------|--------|-----|---------|---------|--------|
| 1  | <b>228C3</b>    | I-TEF     |     |         | R1      |        |     |         | R2      |        |     |         | R3      |        |
| 2  |                 | Wght Fact |     | Total   | Total   | TEQ    |     | Total   | Total   | TEQ    |     | Total   | Total   | TEQ    |
| 3  | ng/dscm         |           |     | Full ND | 1/2 ND  | 1/2 ND |     | Full ND | 1/2 ND  | 1/2 ND |     | Full ND | 1/2 ND  | 1/2 ND |
| 4  |                 |           |     |         |         |        |     |         |         |        |     |         |         |        |
| 5  | 4D 2378         | 1         |     | 0.0100  | 0.0100  | 0.0100 |     | 0.0135  | 0.0135  | 0.0135 |     | 0.0120  | 0.0120  | 0.0120 |
| 6  | 4D Other        | 0         |     | 4.9840  | 4.9840  | 0.0000 |     | 1.0913  | 1.0913  | 0.0000 |     | 1.5148  | 1.5148  | 0.0000 |
| 7  | 4D Total        | 0         |     | 4.9940  | 4.9940  | 0.0000 |     | 1.1048  | 1.1048  | 0.0000 |     | 1.5268  | 1.5268  | 0.0000 |
| 8  | 5D 12378        | 0.5       |     | 0.0847  | 0.0847  | 0.0424 |     | 0.0323  | 0.0323  | 0.0162 |     | 0.0479  | 0.0479  | 0.0240 |
| 9  | 5D Other        | 0         |     | 13.2823 | 13.2823 | 0.0000 |     | 2.2042  | 2.2042  | 0.0000 |     | 3.3530  | 3.3530  | 0.0000 |
| 10 | 5D Total        | 0         |     | 13.3671 | 13.3671 | 0.0000 |     | 2.2365  | 2.2365  | 0.0000 |     | 3.4009  | 3.4009  | 0.0000 |
| 11 | 6D 123478       | 0.1       |     | 0.1944  | 0.1944  | 0.0194 |     | 0.0593  | 0.0593  | 0.0059 |     | 0.0868  | 0.0868  | 0.0087 |
| 12 | 6D 123678       | 0.1       |     | 0.3240  | 0.3240  | 0.0324 |     | 0.0781  | 0.0781  | 0.0078 |     | 0.1437  | 0.1437  | 0.0144 |
| 13 | 6D 123789       | 0.1       |     | 0.1844  | 0.1844  | 0.0184 |     | 0.1024  | 0.1024  | 0.0102 |     | 0.1647  | 0.1647  | 0.0165 |
| 14 | 6D Other        | 0         |     | 20.1852 | 20.1852 | 0.0000 |     | 3.7724  | 3.7724  | 0.0000 |     | 5.0595  | 5.0595  | 0.0000 |
| 15 | 6D Total        | 0         |     | 20.8879 | 20.8879 | 0.0000 |     | 4.0122  | 4.0122  | 0.0000 |     | 5.4546  | 5.4546  | 0.0000 |
| 16 | 7D 1234678      | 0.01      |     | 1.3706  | 1.3706  | 0.0137 |     | 0.4850  | 0.4850  | 0.0049 |     | 0.7484  | 0.7484  | 0.0075 |
| 17 | 7D Other        | 0         |     | 2.9156  | 2.9156  | 0.0000 |     | 1.0239  | 1.0239  | 0.0000 |     | 1.4370  | 1.4370  | 0.0000 |
| 18 | 7D Total        | 0         |     | 4.2862  | 4.2862  | 0.0000 |     | 1.5090  | 1.5090  | 0.0000 |     | 2.1854  | 2.1854  | 0.0000 |
| 19 | 8D              | 0.001     |     | 0.4236  | 0.4236  | 0.0004 |     | 0.2964  | 0.2964  | 0.0003 |     | 0.3892  | 0.3892  | 0.0004 |
| 20 | 4F 2378         | 0.1       |     | 2.0434  | 2.0434  | 0.2043 |     | 0.7006  | 0.7006  | 0.0701 |     | 1.0478  | 1.0478  | 0.1048 |
| 21 | 4F Other        | 0         |     | 10.1175 | 10.1175 | 0.0000 |     | 3.2065  | 3.2065  | 0.0000 |     | 4.5505  | 4.5505  | 0.0000 |
| 22 | 4F Total        | 0         |     | 12.1609 | 12.1609 | 0.0000 |     | 3.9071  | 3.9071  | 0.0000 |     | 5.5983  | 5.5983  | 0.0000 |
| 23 | 5F 12378        | 0.05      |     | 0.2168  | 0.2168  | 0.0108 |     | 0.0539  | 0.0539  | 0.0027 |     | 0.0988  | 0.0988  | 0.0049 |
| 24 | 5F 23478        | 0.5       |     | 0.3240  | 0.3240  | 0.1620 |     | 0.1320  | 0.1320  | 0.0660 |     | 0.2575  | 0.2575  | 0.1287 |
| 25 | 5F Other        | 0         |     | 2.6664  | 2.6664  | 0.0000 |     | 1.2691  | 1.2691  | 0.0000 |     | 2.3381  | 2.3381  | 0.0000 |
| 26 | 5F Total        | 0         |     | 3.2072  | 3.2072  | 0.0000 |     | 1.4551  | 1.4551  | 0.0000 |     | 2.6944  | 2.6944  | 0.0000 |
| 27 | 6F 123478       | 0.1       |     | 0.1470  | 0.1470  | 0.0147 |     | 0.0674  | 0.0674  | 0.0067 |     | 0.1497  | 0.1497  | 0.0150 |
| 28 | 6F 123678       | 0.1       |     | 0.0598  | 0.0598  | 0.0060 |     | 0.0350  | 0.0350  | 0.0035 |     | 0.0778  | 0.0778  | 0.0078 |
| 29 | 6F 123789       | 0.1       |     | 0.0174  | 0.0174  | 0.0017 |     | 0.0108  | 0.0108  | 0.0011 |     | 0.0210  | 0.0210  | 0.0021 |
| 30 | 6F 234678       | 0.1       |     | 0.1520  | 0.1520  | 0.0152 |     | 0.0835  | 0.0835  | 0.0084 |     | 0.2126  | 0.2126  | 0.0213 |
| 31 | 6F Other        | 0         |     | 0.4211  | 0.4211  | 0.0000 |     | 0.0728  | 0.0728  | 0.0000 |     | 0.4970  | 0.4970  | 0.0000 |
| 32 | 6F Total        | 0         |     | 0.7974  | 0.7974  | 0.0000 |     | 0.2695  | 0.2695  | 0.0000 |     | 0.9580  | 0.9580  | 0.0000 |
| 33 | 7F 1234678      | 0.01      |     | 0.0025  | 0.0025  | 0.0000 |     | 0.0404  | 0.0404  | 0.0004 |     | 0.0898  | 0.0898  | 0.0009 |
| 34 | 7F 1234789      | 0.01      |     | 0.0025  | 0.0025  | 0.0000 |     | 0.0162  | 0.0162  | 0.0002 |     | 0.0389  | 0.0389  | 0.0004 |
| 35 | 7F Other        | 0         |     | 0.0449  | 0.0449  | 0.0000 |     | 0.0485  | 0.0485  | 0.0000 |     | 0.1018  | 0.1018  | 0.0000 |
| 36 | 7F Total        | 0         |     | 0.0498  | 0.0498  | 0.0000 |     | 0.1051  | 0.1051  | 0.0000 |     | 0.2305  | 0.2305  | 0.0000 |
| 37 | 8F              | 0.001     |     | 0.0399  | 0.0399  | 0.0000 |     | 0.0323  | 0.0323  | 0.0000 |     | 0.0509  | 0.0509  | 0.0001 |
| 38 | Total PCDD/PCDF |           |     | 60.2141 | 60.2141 |        |     | 14.9279 | 14.9279 |        |     | 22.4892 | 22.4892 |        |
| 39 | TEQ             |           | 0.0 | 0.5516  |         | 0.5516 | 0.0 | 0.2178  |         | 0.2178 | 0.0 | 0.3692  |         | 0.3692 |

|    | C               | D         | E    | F       | G       | H      | I    | J       | K       | L      | M    | N       | O       | P      |
|----|-----------------|-----------|------|---------|---------|--------|------|---------|---------|--------|------|---------|---------|--------|
| 1  | <b>228C4</b>    | I-TEF     |      | R1      |         |        | R2   |         |         | R3     |      |         |         |        |
| 2  |                 | Wght Fact |      | Total   | Total   | TEQ    |      | Total   | Total   | TEQ    |      | Total   | Total   | TEQ    |
| 3  | ng/dscm         |           |      | Full ND | 1/2 ND  | 1/2 ND |      | Full ND | 1/2 ND  | 1/2 ND |      | Full ND | 1/2 ND  | 1/2 ND |
| 4  |                 |           |      |         |         |        |      |         |         |        |      |         |         |        |
| 5  | 4D 2378         | 1         | 1    | 0.0186  | 0.0093  | 0.0093 | 1    | 0.0193  | 0.0097  | 0.0097 | 2    | 0.0245  | 0.0245  | 0.0245 |
| 6  | 4D Other        | 0         |      | 0.2913  | 0.2913  | 0.0000 |      | 0.3351  | 0.3351  | 0.0000 |      | 0.2201  | 0.2201  | 0.0000 |
| 7  | 4D Total        | 0         |      | 0.3099  | 0.3099  | 0.0000 |      | 0.3544  | 0.3544  | 0.0000 |      | 0.2446  | 0.2446  | 0.0000 |
| 8  | 5D 12378        | 0.5       | 1    | 0.0310  | 0.0155  | 0.0077 | 2    | 0.0129  | 0.0129  | 0.0064 | 1    | 0.0306  | 0.0153  | 0.0076 |
| 9  | 5D Other        | 0         |      | 0.2789  | 0.2789  | 0.0000 |      | 0.3737  | 0.3737  | 0.0000 |      | 0.1498  | 0.1498  | 0.0000 |
| 10 | 5D Total        | 0         | 2    | 0.3099  | 0.3099  | 0.0000 |      | 0.3866  | 0.3866  | 0.0000 |      | 0.1804  | 0.1804  | 0.0000 |
| 11 | 6D 123478       | 0.1       | 1    | 0.0310  | 0.0155  | 0.0015 | 1    | 0.0322  | 0.0161  | 0.0016 | 1    | 0.0306  | 0.0153  | 0.0015 |
| 12 | 6D 123678       | 0.1       | 1    | 0.0279  | 0.0139  | 0.0014 | 1    | 0.0258  | 0.0129  | 0.0013 | 1    | 0.0245  | 0.0122  | 0.0012 |
| 13 | 6D 123789       | 0.1       | 1    | 0.0310  | 0.0155  | 0.0015 | 1    | 0.0290  | 0.0145  | 0.0014 | 1    | 0.0275  | 0.0138  | 0.0014 |
| 14 | 6D Other        | 0         |      | 0.2510  | 0.2510  | 0.0000 |      | 0.0226  | 0.0226  | 0.0000 |      | 0.4372  | 0.4372  | 0.0000 |
| 15 | 6D Total        | 0         |      | 0.3409  | 0.3409  | 0.0000 |      | 0.1095  | 0.1095  | 0.0000 |      | 0.5197  | 0.5197  | 0.0000 |
| 16 | 7D 1234678      | 0.01      | 1    | 0.0527  | 0.0263  | 0.0003 | 1    | 0.0226  | 0.0113  | 0.0001 |      | 0.0611  | 0.0611  | 0.0006 |
| 17 | 7D Other        | 0         |      | 0.0434  | 0.0434  | 0.0000 |      | 0.0483  | 0.0483  | 0.0000 |      | 0.0000  | 0.0000  | 0.0000 |
| 18 | 7D Total        | 0         |      | 0.0961  | 0.0961  | 0.0000 |      | 0.0709  | 0.0709  | 0.0000 |      | 0.0611  | 0.0611  | 0.0000 |
| 19 | 8D              | 0.001     | 2    | 0.0713  | 0.0713  | 0.0001 | 2    | 0.0419  | 0.0419  | 0.0000 |      | 0.0764  | 0.0764  | 0.0001 |
| 20 | 4F 2378         | 0.1       |      | 0.1550  | 0.1550  | 0.0155 | 2    | 0.2287  | 0.2287  | 0.0229 |      | 0.9171  | 0.9171  | 0.0917 |
| 21 | 4F Other        | 0         |      | 0.6819  | 0.6819  | 0.0000 |      | 0.8022  | 0.8022  | 0.0000 |      | 3.6684  | 3.6684  | 0.0000 |
| 22 | 4F Total        | 0         |      | 0.8368  | 0.8368  | 0.0000 |      | 1.0309  | 1.0309  | 0.0000 |      | 4.5855  | 4.5855  | 0.0000 |
| 23 | 5F 12378        | 0.05      | 1    | 0.0186  | 0.0093  | 0.0005 |      | 0.0193  | 0.0193  | 0.0010 | 2    | 0.0459  | 0.0459  | 0.0023 |
| 24 | 5F 23478        | 0.5       | 1    | 0.0186  | 0.0093  | 0.0046 | 1    | 0.0161  | 0.0081  | 0.0040 |      | 0.0917  | 0.0917  | 0.0459 |
| 25 | 5F Other        | 0         |      | 0.0124  | 0.0124  | 0.0000 |      | 0.1579  | 0.1579  | 0.0000 |      | 1.1158  | 1.1158  | 0.0000 |
| 26 | 5F Total        | 0         | 2    | 0.0496  | 0.0496  | 0.0000 |      | 0.1933  | 0.1933  | 0.0000 |      | 1.2534  | 1.2534  | 0.0000 |
| 27 | 6F 123478       | 0.1       | 1    | 0.0217  | 0.0108  | 0.0011 | 2    | 0.0226  | 0.0226  | 0.0023 |      | 0.0887  | 0.0887  | 0.0089 |
| 28 | 6F 123678       | 0.1       | 1    | 0.0155  | 0.0077  | 0.0008 |      | 0.0064  | 0.0064  | 0.0006 |      | 0.0275  | 0.0275  | 0.0028 |
| 29 | 6F 123789       | 0.1       | 1    | 0.0248  | 0.0124  | 0.0012 | 1    | 0.0226  | 0.0113  | 0.0011 | 1    | 0.0245  | 0.0122  | 0.0012 |
| 30 | 6F 234678       | 0.1       | 1    | 0.0186  | 0.0093  | 0.0009 |      | 0.0129  | 0.0129  | 0.0013 |      | 0.0397  | 0.0397  | 0.0040 |
| 31 | 6F Other        | 0         |      | -0.0620 | -0.0620 | 0.0000 |      | -0.0419 | -0.0419 | 0.0000 |      | 0.0887  | 0.0887  | 0.0000 |
| 32 | 6F Total        | 0         | 1    | 0.0186  | 0.0093  | 0.0000 |      | 0.0226  | 0.0226  | 0.0000 |      | 0.2690  | 0.2690  | 0.0000 |
| 33 | 7F 1234678      | 0.01      | 1    | 0.0186  | 0.0093  | 0.0001 | 2    | 0.0097  | 0.0097  | 0.0001 |      | 0.0245  | 0.0245  | 0.0002 |
| 34 | 7F 1234789      | 0.01      | 1    | 0.0310  | 0.0155  | 0.0002 | 1    | 0.0322  | 0.0161  | 0.0002 | 1    | 0.0306  | 0.0153  | 0.0002 |
| 35 | 7F Other        | 0         |      | -0.0248 | -0.0248 | 0.0000 |      | -0.0258 | -0.0258 | 0.0000 |      | -0.0397 | -0.0397 | 0.0000 |
| 36 | 7F Total        | 0         | 1    | 0.0248  | 0.0124  | 0.0000 | 2    | 0.0161  | 0.0161  | 0.0000 | 2    | 0.0153  | 0.0153  | 0.0000 |
| 37 | 8F              | 0.001     | 1    | 0.0310  | 0.0155  | 0.0000 | 2    | 0.0515  | 0.0515  | 0.0001 |      | 0.0703  | 0.0703  | 0.0001 |
| 38 | Total PCDD/PCDF |           |      | 2.0889  | 2.0518  |        |      | 2.2777  | 2.2777  |        |      | 7.2757  | 7.2757  |        |
| 39 | TEQ             |           | 80.0 | 0.0780  |         | 0.0468 | 52.9 | 0.0735  |         | 0.0541 | 12.7 | 0.2072  |         | 0.1941 |

|    | C               | D         | E   | F       | G      | H      | I   | J       | K       | L      |
|----|-----------------|-----------|-----|---------|--------|--------|-----|---------|---------|--------|
| 1  | 228C5           | I-TEF     |     |         | R1     |        |     |         | R2      |        |
| 2  |                 | Wght Fact |     | Total   | Total  | TEQ    |     | Total   | Total   | TEQ    |
| 3  | ng/dscm         |           |     | Full ND | 1/2 ND | 1/2 ND |     | Full ND | 1/2 ND  | 1/2 ND |
| 4  |                 |           |     |         |        |        |     |         |         |        |
| 5  | 4D 2378         | 1         | 2   | 0.0073  | 0.0073 | 0.0073 |     | 0.0018  | 0.0018  | 0.0018 |
| 6  | 4D Other        | 0         |     | 0.4311  | 0.4311 | 0.0000 |     | 4.0621  | 4.0621  | 0.0000 |
| 7  | 4D Total        | 0         |     | 0.4384  | 0.4384 | 0.0000 |     | 4.0638  | 4.0638  | 0.0000 |
| 8  | 5D 12378        | 0.5       |     | 0.0073  | 0.0073 | 0.0037 |     | 0.0525  | 0.0525  | 0.0263 |
| 9  | 5D Other        | 0         |     | 0.1863  | 0.1863 | 0.0000 |     | 3.9062  | 3.9062  | 0.0000 |
| 10 | 5D Total        | 0         |     | 0.1936  | 0.1936 | 0.0000 |     | 3.9587  | 3.9587  | 0.0000 |
| 11 | 6D 123478       | 0.1       | 1   | 0.0007  | 0.0004 | 0.0000 |     | 0.0771  | 0.0771  | 0.0077 |
| 12 | 6D 123678       | 0.1       |     | 0.0073  | 0.0073 | 0.0007 |     | 0.1261  | 0.1261  | 0.0126 |
| 13 | 6D 123789       | 0.1       |     | 0.0110  | 0.0110 | 0.0011 |     | 0.1331  | 0.1331  | 0.0133 |
| 14 | 6D Other        | 0         |     | 0.1856  | 0.1856 | 0.0000 |     | 28.9162 | 28.9162 | 0.0000 |
| 15 | 6D Total        | 0         |     | 0.2046  | 0.2046 | 0.0000 |     | 29.2526 | 29.2526 | 0.0000 |
| 16 | 7D 1234678      | 0.01      | 2   | 0.0256  | 0.0256 | 0.0003 |     | 1.0510  | 1.0510  | 0.0105 |
| 17 | 7D Other        | 0         |     | 0.0110  | 0.0110 | 0.0000 |     | 1.4714  | 1.4714  | 0.0000 |
| 18 | 7D Total        | 0         |     | 0.0365  | 0.0365 | 0.0000 |     | 2.5224  | 2.5224  | 0.0000 |
| 19 | 8D              | 0.001     |     | 0.0694  | 0.0694 | 0.0001 |     | 0.3258  | 0.3258  | 0.0003 |
| 20 | 4F 2378         | 0.1       |     | 0.1315  | 0.1315 | 0.0132 |     | 1.0510  | 1.0510  | 0.1051 |
| 21 | 4F Other        | 0         |     | 0.5261  | 0.5261 | 0.0000 |     | 4.8696  | 4.8696  | 0.0000 |
| 22 | 4F Total        | 0         |     | 0.6576  | 0.6576 | 0.0000 |     | 5.9206  | 5.9206  | 0.0000 |
| 23 | 5F 12378        | 0.05      | 2   | 0.0146  | 0.0146 | 0.0007 |     | 0.1261  | 0.1261  | 0.0063 |
| 24 | 5F 23478        | 0.5       |     | 0.0219  | 0.0219 | 0.0110 |     | 0.2978  | 0.2978  | 0.1489 |
| 25 | 5F Other        | 0         |     | 0.2557  | 0.2557 | 0.0000 |     | 2.0634  | 2.0634  | 0.0000 |
| 26 | 5F Total        | 0         |     | 0.2923  | 0.2923 | 0.0000 |     | 2.4873  | 2.4873  | 0.0000 |
| 27 | 6F 123478       | 0.1       |     | 0.0256  | 0.0256 | 0.0026 | 2   | 0.1647  | 0.1647  | 0.0165 |
| 28 | 6F 123678       | 0.1       |     | 0.0073  | 0.0073 | 0.0007 |     | 0.0596  | 0.0596  | 0.0060 |
| 29 | 6F 123789       | 0.1       |     | 0.0073  | 0.0073 | 0.0007 |     | 0.0140  | 0.0140  | 0.0014 |
| 30 | 6F 234678       | 0.1       |     | 0.0183  | 0.0183 | 0.0018 |     | 0.1226  | 0.1226  | 0.0123 |
| 31 | 6F Other        | 0         |     | 0.0475  | 0.0475 | 0.0000 |     | 0.2347  | 0.2347  | 0.0000 |
| 32 | 6F Total        | 0         |     | 0.1059  | 0.1059 | 0.0000 |     | 0.5956  | 0.5956  | 0.0000 |
| 33 | 7F 1234678      | 0.01      |     | 0.0658  | 0.0658 | 0.0007 |     | 0.0455  | 0.0455  | 0.0005 |
| 34 | 7F 1234789      | 0.01      | 2   | 0.0146  | 0.0146 | 0.0001 | 2   | 0.0175  | 0.0175  | 0.0002 |
| 35 | 7F Other        | 0         |     | 0.0037  | 0.0037 | 0.0000 |     | 0.0175  | 0.0175  | 0.0000 |
| 36 | 7F Total        | 0         |     | 0.0840  | 0.0840 | 0.0000 |     | 0.0806  | 0.0806  | 0.0000 |
| 37 | 8F              | 0.001     |     | 0.0438  | 0.0438 | 0.0000 | 2   | 0.0210  | 0.0210  | 0.0000 |
| 38 | Total PCDD/PCDF |           |     | 2.1263  | 2.1263 |        |     | 49.2284 | 49.2284 |        |
| 39 | TEQ             |           | 0.2 | 0.0447  |        | 0.0447 | 0.0 | 0.3695  |         | 0.3695 |