

US EPA ARCHIVE DOCUMENT

| | B | C |
|----|--------------------------------------|--|
| 1 | Source Description | |
| 2 | | |
| 3 | Phase I ID No. | 714 |
| 4 | EPA ID No. | LAD008080681 |
| 5 | Facility Name | Lyondell Lake Charles Plant Incinerator (formerly Arco/Olin) |
| 6 | Facility Location | |
| 7 | City | Lake Charles |
| 8 | State | LA |
| 9 | Unit ID Name/No. | TDI Incinerator |
| 10 | Other Sister Facilities | |
| 11 | Number of Sister Facilities | 0 |
| 12 | Combustor Class | Onsite incinerator |
| 13 | Combustor Type | Liquid injection |
| 14 | Combustor Characteristics | Liquid waste incinerator |
| 15 | Capacity (MMBtu/hr) | |
| 16 | Soot Blowing | |
| 17 | APCS Detailed Acronym | WQ/WS |
| 18 | APCS General Class | WQ,LEWS |
| 19 | APCS Characteristics | Water quench / wet scrubber |
| 20 | Hazardous Wastes | Liq |
| 21 | Haz Waste Description | Toluenediisocyanate residue |
| 22 | Supplemental Fuel | Natural gas |
| 23 | | |
| 24 | Stack Characteristics | |
| 25 | Diameter (ft) | 3.0 |
| 26 | Height (ft) | 100.0 |
| 27 | Gas Velocity (ft/sec) | 14.3 |
| 28 | Gas Temperature (°F) | 116.7 |
| 29 | | |
| 30 | Permitting Status | RCRA |
| 31 | HWC Burn Status (Date if Terminated) | |

| | B | C |
|----|------------------------------|---|
| 1 | Condition Description | |
| 2 | | |
| 3 | 714C10 | |
| 4 | | |
| 5 | Report Name/Date | Trial Burn Report Olin - Lake Charles Plant |
| 6 | Report Prepare | Four Nines and Metco Environmental |
| 7 | Testing Firm | Metco Environmental |
| 8 | Testing Dates | December 3-6, 1991 |
| 9 | Cond Dates | Dec-91 |
| 10 | Condition Descr | Minimum operating temperature w/TDI residue |
| 11 | Content | PM, HCl/Cl ₂ , DRE, CO,HC |
| 12 | | |
| 13 | 714C11 | |
| 14 | | |
| 15 | Report Name/Date | Trial Burn Report Olin - Lake Charles Plant |
| 16 | Report Prepare | Four Nines and Metco Environmental |
| 17 | Testing Firm | Metco Environmental |
| 18 | Testing Dates | December 3-6, 1991 |
| 19 | Cond Dates | Dec-91 |
| 20 | Condition Descr | Max heat, Cl, ash |
| 21 | Content | PM, HCl/Cl ₂ , DRE, CO,HC |
| 22 | | |
| 23 | 714C12 | |
| 24 | | |
| 25 | Report Name/Date | Trial Burn Report Olin - Lake Charles Plant |
| 26 | Report Prepare | Four Nines and Metco Environmental |
| 27 | Testing Firm | Metco Environmental |
| 28 | Testing Dates | December 3-6, 1991 |
| 29 | Cond Dates | Dec-91 |
| 30 | Condition Descr | Max heat w/TDI only |
| 31 | Content | PM, HCl/Cl ₂ , DRE, CO,HC |
| 32 | | |
| 33 | 714C1 | |
| 34 | | |
| 35 | Report Name/Date | Incinerator Trial Burn Test Results Olin Corporation (now Lyondell), Lake Charles Louisiana, Prepared by Radian Corporation, January 27, 1989 |
| 36 | Report Prepare | Radian Corp |
| 37 | Testing Firm | Radian Corp |
| 38 | Cond Descr | Trial burn, MAX CHLORINE,T-101, AND STACK FLOW RATE |
| 39 | Testing Dates | November 2, 1988 |
| 40 | Cond Dates | Nov-88 |
| 41 | | |
| 42 | 714C2 | |
| 43 | | |
| 44 | Report Name/Date | Incinerator Trial Burn Test Results Olin Corporation (now Lyondell), Lake Charles Louisiana, Prepared by Radian Corporation, January 27, 1989 |
| 45 | Report Prepare | Radian Corp |
| 46 | Testing Firm | Radian Corp |
| 47 | Cond Descr | Trial burn, TDI RESIDUE ONLY |
| 48 | Testing Dates | November 3, 1988 |
| 49 | Cond Dates | Nov-88 |
| 50 | | |
| 51 | 714C3 | |
| 52 | | |
| 53 | Report Name/Date | Incinerator Trial Burn Test Results Olin Corporation (now Lyondell), Lake Charles Louisiana, Prepared by Radian Corporation, January 27, 1989 |
| 54 | Report Prepare | Radian Corp |
| 55 | Testing Firm | Radian Corp |
| 56 | Cond Descr | Trial burn, HIGH COMB TEMP |
| 57 | Testing Dates | November 4, 1988 |
| 58 | Cond Dates | Nov-88 |
| 59 | | |
| 60 | 714C4 | |
| 61 | | |
| 62 | Report Name/Date | Incinerator Trial Burn Test Results Olin Corporation (now Lyondell), Lake Charles Louisiana, Prepared by Radian Corporation, January 27, 1989 |
| 63 | Report Prepare | Radian Corp |
| 64 | Testing Firm | Radian Corp |
| 65 | Cond Descr | Trial burn, MIN COMB TEMP/MAX TDI RESIDUE |
| 66 | Testing Dates | November 5, 1988 |

| | B | C |
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| 67 | Cond Dates | Nov-88 |
| 68 | | |
| 69 | 714C5 | |
| 70 | | |
| 71 | Report Name/Date | Incinerator Trial Burn Test Results Olin Corporation (now Lyondell), Lake Charles Louisiana, Prepared by Radian Corporation, January 27, 1989 |
| 72 | Report Prepare | Radian Corp |
| 73 | Testing Firm | Radian Corp |
| 74 | Cond Descr | Trial burn, MAX TDI RESIDUE & MAX T-101 WASTE LIQUID |
| 75 | Testing Dates | November 6, 1988 |
| 76 | Cond Dates | Nov-88 |

| | B | C | D | E | F | G | H | I | J | K | L | M |
|----|------------------------------|----------------------|---------|----|----|----------|---|----------|---|----------|---|----------|
| 1 | Stack Gas Emissions 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | Commen | Units | 7% | O2 | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 714C10 | Trial Burn | | | | R1 | | R2 | | R3 | | Cond Avg |
| 7 | | | | | | | | | | | | |
| 8 | CO (RA) | E1 | ppmv | y | | 5 | | 4 | | 3 | | 3.9 |
| 9 | | | | | | | | | | | | |
| 10 | HC (RA) | E1 | ppmv | y | | | | 2.5 | | 1.5 | | 2.0 |
| 11 | | | | | | | | | | | | |
| 12 | PM | E1 | gr/dscf | y | | 0.0076 | | 0.0035 | | 0.0064 | | 0.0058 |
| 13 | | | | | | | | | | | | |
| 14 | HCl | | lb/hr | | | 0.16 | | 0.17 | | 0.17 | | |
| 15 | Cl2 | | lb/hr | | | 0.67 | | 0.54 | | 0.76 | | |
| 16 | | | | | | | | | | | | |
| 17 | HCl | E1 | ppmv | y | | 7.8 | | 8.6 | | 8.5 | | 8.3 |
| 18 | Cl2 | E1 | ppmv | y | | 63.7 | | 53.2 | | 73.7 | | 63.6 |
| 19 | Total Chlorine | E1 | ppmv | y | | 135.3 | | 115.1 | | 155.9 | | 135.5 |
| 20 | | | | | | | | | | | | |
| 21 | POHC | Carbon tetrachloride | | | | | | | | | | |
| 22 | POHC Feedrate | | lb/hr | | | 38.6 | | 39.2 | | 47.1 | | 41.63 |
| 23 | Emission Rate | E1 | lb/hr | | < | 2.30E-05 | < | 3.32E-04 | < | 1.17E-04 | | |
| 24 | DRE | E1 | % | | > | 99.9999 | > | 99.9992 | > | 99.9998 | > | 99.9996 |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | POHC | Monochlorobenzene | | | | | | | | | | |
| 28 | POHC Feedrate | | lb | | | 354 | | 320.1 | | 379.8 | | 0 |
| 29 | Emission Rate | E1 | lb | | < | 5.78E-04 | < | 5.20E-04 | < | 4.08E-04 | | |
| 30 | DRE | E1 | % | | > | 99.99984 | > | 99.99984 | > | 99.99989 | > | 99.99986 |
| 31 | | | | | | | | | | | | |
| 32 | Sampling Train | PM, HCl E1 | | | | | | | | | | |
| 33 | Stack Gas Flowrate | | dscfm | | | 15867 | | 14962 | | 14987 | | 15272 |
| 34 | O2 | | % | | | 13.68 | | 13.51 | | 13.4 | | 13.5 |
| 35 | Moisture | | % | | | | | | | | | |
| 36 | Temperature | | °F | | | | | | | | | |
| 37 | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | |
| 39 | | | | | | | | | | | | |
| 40 | 714C11 | Trial Burn | | | | R1 | | R2 | | R3 | | Cond Avg |
| 41 | | | | | | | | | | | | |
| 42 | CO (RA) | E1 | ppmv | y | | 8.3 | | 1.9 | | 0.6 | | 3.6 |
| 43 | CO (MHRA) | E1 | ppmv | y | | | | | | | | |
| 44 | | | | | | | | | | | | |
| 45 | HC (RA) | E1 | ppmv | y | | 1.8 | | 1.5 | | 1 | | 1.4 |
| 46 | | | | | | | | | | | | |
| 47 | PM | E1 | gr/dscf | y | | 0.0059 | | 0.0054 | | 0.0059 | | 0.0057 |
| 48 | | | | | | | | | | | | |
| 49 | HCl | | lb/hr | | | 0.62 | | 0.54 | | 0.47 | | |
| 50 | Cl2 | | lb/hr | | | 1.66 | | 2.77 | | 2.29 | | |
| 51 | | | | | | | | | | | | |
| 52 | HCl | E1 | ppmv | y | | 30 | | 27 | | 23 | | 27 |
| 53 | Cl2 | E1 | ppmv | y | | 158 | | 273 | | 222 | | 218 |
| 54 | Total Chlorine | E1 | ppmv | y | | 346 | | 574 | | 468 | | 463 |
| 55 | | | | | | | | | | | | |
| 56 | POHC | Carbon tetrachloride | | | | | | | | | | |
| 57 | POHC Feedrate | | lb/hr | | | 69.8 | | 80.1 | | 79.6 | | 76.50 |
| 58 | Emission Rate | E1 | lb/hr | | < | 5.92E-03 | < | 7.76E-03 | < | 3.54E-04 | | |
| 59 | DRE | E1 | % | | > | 99.9915 | > | 99.9903 | > | 99.9996 | > | 99.9938 |
| 60 | | | | | | | | | | | | |
| 61 | | | | | | | | | | | | |
| 62 | POHC | Monochlorobenzene | | | | | | | | | | |
| 63 | POHC Feedrate | | lb | | | 452.9 | | 568.6 | | 521.1 | | 0 |
| 64 | Emission Rate | E1 | lb | | < | 2.21E-03 | < | 2.20E-02 | < | 2.12E-03 | | |
| 65 | DRE | E1 | % | | > | 99.9995 | > | 99.9961 | > | 99.9996 | > | 99.9984 |
| 66 | | | | | | | | | | | | |
| 67 | Sampling Train | PM, HCl E1 | | | | | | | | | | |
| 68 | Stack Gas Flowrate | | dscfm | | | 15867 | | 14962 | | 14987 | | 15272 |
| 69 | O2 | | % | | | 13.68 | | 13.51 | | 13.4 | | 13.5 |
| 70 | Moisture | | % | | | | | | | | | |
| 71 | Temperature | | °F | | | | | | | | | |

| | B | C | D | E | F | G | H | I | J | K | L | M |
|-----|--------------------|-------------------|----------------------|---|----|----------|----|----------|----|----------|---|----------|
| 72 | | | | | | | | | | | | |
| 73 | 714C12 | Trial Burn | | | | R1 | | R2 | | R3 | | Cond Avg |
| 74 | | | | | | | | | | | | |
| 75 | CO (RA) | E1 | ppmv | y | | 12.9 | | 9.3 | | 4.2 | | 8.8 |
| 76 | | | | | | | | | | | | |
| 77 | HC (RA) | E1 | ppmv | y | | 1 | | 1 | | 2 | | 1.3 |
| 78 | | | | | | | | | | | | |
| 79 | PM | E1 | gr/dscf | y | | 0.0043 | | 0.0031 | | 0.0031 | | 0.0035 |
| 80 | | | | | | | | | | | | |
| 81 | HCl | | lb/hr | | | 0.47 | | 0.49 | | 0.43 | | |
| 82 | Cl2 | | lb/hr | | | 1.15 | | 0.96 | | 1.06 | | |
| 83 | | | | | | | | | | | | |
| 84 | HCl | E1 | ppmv | y | | 15.2 | | 16.5 | | 14.5 | | 15.39 |
| 85 | Cl2 | E1 | ppmv | y | | 72.2 | | 62.9 | | 69.7 | | 68.25 |
| 86 | Total Chlorine | E1 | ppmv | y | | 159.52 | | 142.21 | | 153.97 | | 151.90 |
| 87 | | | | | | | | | | | | |
| 88 | POHC | | Carbon tetrachloride | | | | | | | | | |
| 89 | POHC Feedrate | | lb/hr | | | 45.8 | | 45.7 | | 43.7 | | |
| 90 | Emission Rate | E1 | lb/hr | | nd | 1.07E-04 | nd | 1.17E-04 | nd | 1.30E-04 | | |
| 91 | DRE | E1 | % | | > | 99.9998 | > | 99.9997 | > | 99.9997 | | |
| 92 | | | | | | | | | | | | |
| 93 | | | | | | | | | | | | |
| 94 | POHC | | Monochlorobenzene | | | | | | | | | |
| 95 | POHC Feedrate | | lb | | | 347.6 | | 335.9 | | 352.1 | | |
| 96 | Emission Rate | E1 | lb | | < | 8.60E-04 | < | 2.41E-04 | < | 4.60E-04 | | |
| 97 | DRE | E1 | % | | > | 99.99975 | > | 99.99993 | > | 99.99987 | | |
| 98 | | | | | | | | | | | | |
| 99 | Sampling Train | PM | E1 | | | | | | | | | |
| 100 | Stack Gas Flowrate | | dscfm | | | 17965 | | 17579 | | 17500 | | 17681 |
| 101 | O2 | | % | | | 11.2 | | 11.4 | | 11.4 | | 11.3 |
| 102 | Moisture | | % | | | | | | | | | |
| 103 | Temperature | | °F | | | | | | | | | |

| | B | C | D | E | F | G | H | I | J | K | L | M |
|----|------------------------------|----------|---------|---|---|----------|---|----------|---|----------|---|----------|
| 1 | Stack Gas Emissions 2 | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | 714C1 | | | | | R1 | | R2 | | R3 | | Cond Avg |
| 5 | | | | | | | | | | | | |
| 6 | PM | E1 | gr/dscf | y | | 0.0320 | | 0.0440 | | 0.0380 | | 0.0380 |
| 7 | CO (RA) | E1 | ppmv | y | | 66.1 | | 25.0 | | 0.0 | | 30.4 |
| 8 | HCl | E1 | ppmv | y | | 65.8 | | 72.7 | | 91.3 | | 76.6 |
| 9 | Total Chlorine | E1 | ppmv | y | | 65.8 | | 72.7 | | 91.3 | | 76.6 |
| 10 | | | | | | | | | | | | |
| 11 | Sampling Train | Halogens | E1 | | | | | | | | | |
| 12 | Stack Gas Flowrate | | dscfm | | | 16400.0 | | 16200.0 | | 16700.0 | | |
| 13 | O2 | | % | | | 9.3 | | 10.6 | | 11.8 | | |
| 14 | Moisture | | % | | | 9.1 | | 10.3 | | 9.7 | | |
| 15 | Temperature | | °F | | | 113.0 | | 119.0 | | 118.0 | | |
| 16 | | | | | | | | | | | | |
| 17 | 1,1,2-trichloroethane | DRE | % | | | 99.9996 | | 99.9996 | | 99.9997 | | |
| 18 | 1,2-dichloroethane | DRE | % | | | 99.9998 | | 99.9999 | | 99.9998 | | |
| 19 | Carbon Tetrachloride | DRE | % | | | 99.998 | | 99.998 | | 99.999 | | |
| 20 | Chlorobenzene | DRE | % | | | 99.99995 | | 99.99992 | | 99.99997 | | |
| 21 | | | | | | | | | | | | |
| 22 | 714C2 | | | | | R1 | | R2 | | R3 | | Cond Avg |
| 23 | | | | | | | | | | | | |
| 24 | PM | E1 | gr/dscf | y | | 0.0080 | | 0.0090 | | 0.0110 | | 0.0093 |
| 25 | CO (RA) | E1 | ppmv | y | | 34.8 | | 12.3 | | 8.3 | | |
| 26 | HCl | E1 | ppmv | y | | 59.6 | | 99.8 | | 100.0 | | 86.4 |
| 27 | Total Chlorine | E1 | ppmv | y | | 59.6 | | 99.8 | | 100.0 | | 86.4 |
| 28 | | | | | | | | | | | | |
| 29 | Sampling Train | Halogens | E1 | | | | | | | | | |
| 30 | Stack Gas Flowrate | | dscfm | | | 15900.0 | | 15600.0 | | 15600.0 | | |
| 31 | O2 | | % | | | 6.9 | | 13.0 | | 11.2 | | |
| 32 | Moisture | | % | | | 11.9 | | 10.6 | | 10.3 | | |
| 33 | Temperature | | °F | | | 118.0 | | 123.0 | | 121.0 | | |
| 34 | | | | | | | | | | | | |
| 35 | Carbon Tetrachloride | DRE | % | | | 99.998 | | 99.999 | | 99.999 | | |
| 36 | Chlorobenzene | DRE | % | | | 99.99992 | | 99.99992 | | 99.99998 | | |
| 37 | | | | | | | | | | | | |
| 38 | 714C3 | | | | | R1 | | R2 | | R3 | | Cond Avg |
| 39 | | | | | | | | | | | | |
| 40 | PM | E1 | gr/dscf | y | | 0.0050 | | 0.0060 | | 0.0060 | | 0.0057 |
| 41 | CO (RA) | E1 | ppmv | y | | 0.0 nd | | 1.2 | | 0.0 | | |
| 42 | HCl | E1 | ppmv | y | | 33.6 | | 49.1 | | 44.7 | | 42.5 |
| 43 | Total Chlorine | E1 | ppmv | y | | 33.6 | | 49.1 | | 44.7 | | 42.5 |
| 44 | | | | | | | | | | | | |
| 45 | Sampling Train | PM/HCl | E1 | | | | | | | | | |
| 46 | Stack Gas Flowrate | | dscfm | | | 15900.0 | | 15900.0 | | 15800.0 | | |
| 47 | O2 | | % | | | 13.5 | | 13.3 | | 11.6 | | |
| 48 | Moisture | | % | | | 10.3 | | 10.6 | | 10.0 | | |
| 49 | Temperature | | °F | | | 116.0 | | 119.0 | | 119.0 | | |
| 50 | | | | | | | | | | | | |
| 51 | Carbon Tetrachloride | DRE | % | | | 99.9993 | | 99.9992 | | 99.9992 | | |
| 52 | Chlorobenzene | DRE | % | | | 99.9998 | | 99.9998 | | 99.9998 | | |
| 53 | | | | | | | | | | | | |
| 54 | 714C4 | | | | | R1 | | R2 | | R3 | | Cond Avg |
| 55 | | | | | | | | | | | | |
| 56 | PM | E1 | gr/dscf | y | | 0.0030 | | 0.0030 | | 0.0040 | | 0.0033 |
| 57 | CO (RA) | E1 | ppmv | y | | 0.0 | | 0.0 | | 0.0 | | |
| 58 | HCl | E1 | ppmv | y | | 4.7 | | 7.4 | | 25.5 | | 12.5 |
| 59 | Total Chlorine | E1 | ppmv | y | | 4.7 | | 7.4 | | 25.5 | | 12.5 |
| 60 | | | | | | | | | | | | |
| 61 | Sampling Train | Halogens | E1 | | | | | | | | | |
| 62 | Stack Gas Flowrate | | dscfm | | | 15500.0 | | 16400.0 | | 15900.0 | | |
| 63 | O2 | | % | | | 15.0 | | 13.4 | | 18.8 | | |
| 64 | Moisture | | % | | | 6.5 | | 6.7 | | 6.6 | | |
| 65 | Temperature | | °F | | | 100.0 | | 119.0 | | 104.0 | | |
| 66 | | | | | | | | | | | | |
| 67 | Carbon Tetrachloride | DRE | % | | | 99.9998 | | 99.9998 | | 99.999 | | |
| 68 | Chlorobenzene | DRE | % | | | 99.9998 | | 99.9998 | | 99.99999 | | |
| 69 | | | | | | | | | | | | |
| 70 | 714C5 | | | | | R1 | | R2 | | R3 | | Cond Avg |
| 71 | | | | | | | | | | | | |

| | B | C | D | E | F | G | H | I | J | K | L | M |
|----|-----------------------|----------|---------|---|---|----------|---|----------|----|----------|---|--------|
| 72 | PM | E1 | gr/dscf | y | | 0.0360 | | 0.0280 | | 0.0400 | | 0.0347 |
| 73 | CO (RA) | E1 | ppmv | y | | 0.0 | | 16.1 | nd | 1.2 | | 5.8 |
| 74 | HCl | E1 | ppmv | y | | 199.0 | | 79.3 | | 99.2 | | 125.9 |
| 75 | Total Chlorine | E1 | ppmv | y | | 199.0 | | 79.3 | | 99.2 | | 125.9 |
| 76 | | | | | | | | | | | | |
| 77 | Sampling Train | Halogens | E1 | | | | | | | | | |
| 78 | Stack Gas Flowrate | | dscfm | | | 16300.0 | | 15800.0 | | 15800.0 | | |
| 79 | O2 | | % | | | 10.8 | | 9.0 | | 10.7 | | |
| 80 | Moisture | | % | | | 8.5 | | 8.7 | | 9.5 | | |
| 81 | Temperature | | °F | | | 110.0 | | 113.0 | | 114.0 | | |
| 82 | | | | | | | | | | | | |
| 83 | 1,1,2-trichloroethane | DRE | % | | | 99.9996 | | 99.9997 | | 99.998 | | |
| 84 | 1,2-dichloroethane | DRE | % | | | 99.9996 | | 99.9998 | | 99.9997 | | |
| 85 | Carbon Tetrachloride | DRE | % | | | 99.9991 | | 99.9994 | | 99.9993 | | |
| 86 | Chlorobenzene | DRE | % | | | 99.99997 | | 99.99999 | | 99.99999 | | |

| | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U |
|----|-----------------------------------|----------------------------|------|---|---|-----------|-----------|-----------|-----------|----------|----------|----------|----------|---|---|---|---|---|---|---|
| 1 | Feedstream 1 | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | |
| 5 | 714C10 | Trial burn | 7%O2 | | | R1 | R2 | R3 | Cond Avg | R1 | R2 | R3 | Cond Avg | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | |
| 7 | Feedstream Number | | | | | F1 | F1 | F1 | F1 | F2 | F2 | F2 | F2 | | | | | | | |
| 8 | Feed Class | | | | | Liq HW | Liq HW | Liq HW | Liq HW | Total | Total | Total | Total | | | | | | | |
| 9 | Feed Class 2 | | | | | HW | HW | HW | HW | Total | Total | Total | Total | | | | | | | |
| 10 | Feedstream Description | Min temp | | | | Liq waste | Liq waste | Liq waste | Liq waste | Total | Total | Total | Total | | | | | | | |
| 11 | Feed Rate | lb/hr | | | | 2950 | 2668 | 3139 | 2919.0 | | | | | | | | | | | |
| 12 | Heating Value | Btu/lb | | | | 10903 | 10925 | 10747 | 10858.3 | | | | | | | | | | | |
| 13 | Thermal Feedrate | MMBtu/hr | | | | 32.2 | 29.1 | 33.7 | 31.7 | | | | | | | | | | | |
| 14 | Chlorine | % | | | | 5.06 | 5.79 | 5.24 | 5.4 | | | | | | | | | | | |
| 15 | Chlorine | lb/hr | | | | 149 | 154 | 164 | 156.1 | | | | | | | | | | | |
| 16 | Ash | % | | | | 0.041 | 0.036 | 0.038 | 0.038 | | | | | | | | | | | |
| 17 | Ash | lb/hr | | | | 1.21 | 0.96 | 1.19 | 1.1 | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | |
| 19 | Stack gas flowrate | dscfm | | | | 15867 | 14962 | 14987 | 15272 | | | | | | | | | | | |
| 20 | Oxygen | % | | | | 13.68 | 13.51 | 13.4 | 13.5 | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | |
| 22 | Estimated Firing Rate | MMBtu/hr | | | | | | | | 36.9 | 35.6 | 36.2 | 36.2 | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | |
| 24 | Feedrate MTEC Calculations | | | | | | | | | | | | | | | | | | | |
| 25 | Ash | mg/dscm | y | | | 39 | 32 | 39 | 36.8 | 39 | 32 | 39 | 37 | | | | | | | |
| 26 | Chlorine | ug/dscm | y | | | 4.8E+06 | 5.2E+06 | 5.4E+06 | 5.1E+06 | 4.8E+06 | 5.2E+06 | 5.4E+06 | 5.1E+06 | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | |
| 29 | 714C11 | Max heat, Cl, ash | | | | R1 | R2 | R3 | Cond Avg | R1 | R2 | R3 | Cond Avg | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | |
| 31 | Feedstream Number | | | | | F1 | F1 | F1 | F1 | F2 | F2 | F2 | F2 | | | | | | | |
| 32 | Feed Class | | | | | Liq HW | Liq HW | Liq HW | Liq HW | Total | Total | Total | Total | | | | | | | |
| 33 | Feed Class 2 | | | | | HW | HW | HW | HW | Total | Total | Total | Total | | | | | | | |
| 34 | Feedstream Description | | | | | Liq waste | Liq waste | Liq waste | Liq waste | Total | Total | Total | Total | | | | | | | |
| 35 | Feed Rate | lb/hr | | | | 4080 | 4944 | 4653 | 4559 | | | | | | | | | | | |
| 36 | Heating Value | Btu/lb | | | | 10892 | 10799 | 10461 | 10717 | | | | | | | | | | | |
| 37 | Thermal Feedrate | MMBtu/hr | | | | 44.4 | 53.4 | 48.7 | 49 | | | | | | | | | | | |
| 38 | Chlorine | % | | | | 5.51 | 5.03 | 5.76 | 5 | | | | | | | | | | | |
| 39 | Chlorine | lb/hr | | | | 225 | 249 | 268 | 247 | | | | | | | | | | | |
| 40 | Ash | % | | | | 0.036 | 0.034 | 0.035 | 0.0 | | | | | | | | | | | |
| 41 | Ash | lb/hr | | | | 1.47 | 1.68 | 1.63 | 1.6 | | | | | | | | | | | |
| 42 | | | | | | | | | | | | | | | | | | | | |
| 43 | Stack gas flowrate | dscfm | | | | 18560 | 17112 | 17150 | 17607 | | | | | | | | | | | |
| 44 | Oxygen | % | | | | 10.55 | 10.24 | 10.8 | 10.5 | | | | | | | | | | | |
| 45 | | | | | | | | | | | | | | | | | | | | |
| 46 | Estimated Firing Rate | MMBtu/hr | | | | 61.6 | 58.5 | 55.5 | 58.5 | | | | | | | | | | | |
| 47 | | | | | | | | | | | | | | | | | | | | |
| 48 | Feedrate MTEC Calculations | | | | | | | | | | | | | | | | | | | |
| 49 | Ash | mg/dscm | y | | | 28 | 34 | 35 | 32.5 | 28 | 34 | 35 | 32 | | | | | | | |
| 50 | Chlorine | ug/dscm | y | | | 4.3E+06 | 5.1E+06 | 5.7E+06 | 5.0E+06 | 4.34E+06 | 5.06E+06 | 5.74E+06 | 5.04E+06 | | | | | | | |
| 51 | | | | | | | | | | | | | | | | | | | | |
| 52 | | | | | | | | | | | | | | | | | | | | |
| 53 | 714C12 | Max heat w/TDI only | | | | R1 | R2 | R3 | Cond Avg | R1 | R2 | R3 | Cond Avg | | | | | | | |
| 54 | | | | | | | | | | | | | | | | | | | | |
| 55 | Feedstream Number | | | | | F1 | F1 | F1 | F1 | F2 | F2 | F2 | F2 | | | | | | | |
| 56 | Feed Class | | | | | Liq HW | Liq HW | Liq HW | Liq HW | Total | Total | Total | Total | | | | | | | |
| 57 | Feed Class 2 | | | | | HW | HW | HW | HW | Total | Total | Total | Total | | | | | | | |
| 58 | Feedstream Description | | | | | Liq waste | Liq waste | Liq waste | Liq waste | Total | Total | Total | Total | | | | | | | |
| 59 | Feed Rate | lb/hr | | | | 4672 | 4666 | 4804 | 4714 | | | | | | | | | | | |
| 60 | Heating Value | Btu/lb | | | | 10695 | 10765 | 10921 | 10794 | | | | | | | | | | | |

| | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U |
|----|-----------------------------------|---|-----------|---|---|---------|---|---------|---|---------|---|---------|---|----------|---|----------|---|----------|---|----------|
| 61 | Thermal Feedrate | | MMBtu/hr | | | 50.0 | | 50.2 | | 52.5 | | 51 | | | | | | | | |
| 62 | Chlorine | | % | | | 3.89 | | 3.84 | | 3.61 | | 3.8 | | | | | | | | |
| 63 | Chlorine | | lb/hr | | | 182 | | 179 | | 173 | | 178 | | | | | | | | |
| 64 | Ash | | % | | | 0.024 | | 0.024 | | 0.033 | | 0.027 | | | | | | | | |
| 65 | Ash | | lb/hr | | | 1.12 | | 1.12 | | 1.59 | | 1.3 | | | | | | | | |
| 66 | | | | | | | | | | | | | | | | | | | | |
| 67 | Stack gas flowrate | | dscfm | | | 17965 | | 17579 | | 17500 | | 17681 | | | | | | | | |
| 68 | Oxygen | | % | | | 11.2 | | 11.4 | | 11.4 | | 11.3 | | | | | | | | |
| 69 | | | | | | | | | | | | | | | | | | | | |
| 70 | Estimated Firing Rate | | MMBtu/hr | | | 55.9 | | 53.6 | | 53.3 | | 54.3 | | | | | | | | |
| 71 | | | | | | | | | | | | | | | | | | | | |
| 72 | Feedrate MTEC Calculations | | | | | | | | | | | | | | | | | | | |
| 73 | Ash | | mg/dscm y | | | 24 | | 25 | | 35 | | 28.0 | | 24 | | 25 | | 35 | | 28 |
| 74 | Chlorine | | ug/dscm y | | | 3.9E+06 | | 4.0E+06 | | 3.9E+06 | | 3.9E+06 | | 3.86E+06 | | 3.97E+06 | | 3.86E+06 | | 3.90E+06 |
| 75 | | | | | | | | | | | | | | | | | | | | |
| 76 | | | | | | | | | | | | | | | | | | | | |
| 77 | | | | | | | | | | | | | | | | | | | | |
| 78 | | | | | | | | | | | | | | | | | | | | |
| 79 | | | | | | | | | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | | | | | | | | | |
| 81 | | | | | | | | | | | | | | | | | | | | |
| 82 | | | | | | | | | | | | | | | | | | | | |
| 83 | | | | | | | | | | | | | | | | | | | | |
| 84 | | | | | | | | | | | | | | | | | | | | |
| 85 | | | | | | | | | | | | | | | | | | | | |
| 86 | | | | | | | | | | | | | | | | | | | | |
| 87 | | | | | | | | | | | | | | | | | | | | |
| 88 | | | | | | | | | | | | | | | | | | | | |
| 89 | | | | | | | | | | | | | | | | | | | | |
| 90 | | | | | | | | | | | | | | | | | | | | |
| 91 | | | | | | | | | | | | | | | | | | | | |
| 92 | | | | | | | | | | | | | | | | | | | | |

| | 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 | |
|----|----------------------------|----------|--------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|----|----------|----|----------|----|----------|-------|----------|-------|-------|--|
| 1 | Feedstream 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 714C1 | | R1 | | R2 | | R3 | | R1 | | R2 | | R3 | | R1 | | R2 | | R3 | | R1 | | R2 | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Feedstream Number | | F1 | | F1 | | F1 | | F2 | | F2 | | F2 | | | | | | | | | | | F3 | | F3 | | |
| 7 | Feed Class | | Liq HW | | Liq HW | | Liq HW | | Liq HW | | Liq HW | | Liq HW | | | | | | | | | | Total | | Total | | Total | |
| 8 | Feed Class 2 | | | | | | | | | | | | | | | | | HW | | HW | | HW | | Total | | Total | | |
| 9 | Feedstream | | TDI | | TDI | | TDI | | T-101 | | T-101 | | T-101 | | | | | | | | | | Total | | Total | | Total | |
| 10 | Feedrate | lb/hr | 3180 | | 3610 | | 3330 | | 295 | | 340 | | 348 | | | | | | | | | | | | | | | |
| 11 | Heating value | Btu/lb | 10747 | | 11026 | | 11254 | | 6441 | | 6878 | | 6152 | | | | | | | | | | | | | | | |
| 12 | Ash | wt % | 0.02 | | 0.04 | | 0.01 | | 1.65 | | 1.02 | | 1.82 | | | | | | | | | | | | | | | |
| 13 | Chlorine | ppmw | 114000 | | 109000 | | 116000 | | 609600 | | 665200 | | 664000 | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | Stack Gas Flowrate | | 16400 | | 16200 | | 16700 | | 16400 | | 16200 | | 16700 | | | | | | | | | | | 16400 | | 16200 | | |
| 16 | % Oxygen | | 9.3 | | 10.6 | | 11.8 | | 9.3 | | 10.6 | | 11.8 | | | | | | | | | | | 9.3 | | 10.6 | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | Feedrate MTEC Calculations | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | Ash | mg/dscm | y | | 12.4 | | 32.1 | | 8.1 | | 95.0 | | 77.1 | | 154.3 | | 107.4 | | 109.1 | | 162.4 | | 107.4 | | 109.1 | | | |
| 20 | Chlorine | ug/dscm | y | | 7.07E+06 | | 8.74E+06 | | 9.41E+06 | | 3.51E+06 | | 5.02E+06 | | 5.63E+06 | | 1.06E+07 | | 1.38E+07 | | 1.50E+07 | | 1.06E+07 | | 1.38E+07 | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | Thermal Feedrate | MMBtu/hr | | | 34.2 | | 39.8 | | 37.5 | | 1.9 | | 2.3 | | 2.1 | | 36.1 | | 42.1 | | 39.6 | | 36.1 | | 42.1 | | | |
| 23 | Estimated Firing Rate | MMBtu/hr | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 714C2 | | R1 | | R2 | | R3 | | | | | | | | | | R1 | | R2 | | R3 | | Cond Avg | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | Feedstream Number | | F1 | | F1 | | F1 | | | | | | | | | | F2 | | F2 | | F2 | | F2 | | F2 | | | |
| 28 | Feed Class | | Liq HW | | Liq HW | | Liq HW | | | | | | | | | | Total | | Total | | Total | | Total | | Total | | Total | |
| 29 | Feed Class 2 | | HW | | HW | | HW | | | | | | | | | | Total | | Total | | Total | | Total | | Total | | Total | |
| 30 | Feedstream | | TDI | | TDI | | TDI | | | | | | | | | | Total | | Total | | Total | | Total | | Total | | Total | |
| 31 | Feedrate | lb/hr | 3850 | | 4180 | | 4190 | | | | | | | | | | | | | | | | | | | | | |
| 32 | Heating value | Btu/lb | 10741 | | 10766 | | 11445 | | | | | | | | | | | | | | | | | | | | | |
| 33 | Ash | wt % | 0.01 | | 0.01 | | 0.01 | | | | | | | | | | | | | | | | | | | | | |
| 34 | Chlorine | ppmw | 122000 | | 124000 | | 120000 | | | | | | | | | | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | Stack Gas Flowrate | | 15900 | | 15600 | | 15600 | | | | | | | | | | 15900 | | 15600 | | 15600 | | 15700 | | | | | |
| 37 | % Oxygen | | 6.9 | | 13 | | 11.2 | | | | | | | | | | 6.9 | | 13 | | 11.2 | | 10.4 | | | | | |
| 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 39 | Feedrate MTEC Calculations | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | Ash | mg/dscm | y | | 6.4 | | 12.5 | | 10.3 | | | | | | | | 6.4 | | 12.5 | | 10.3 | | 9.7 | | | | | |
| 41 | Chlorine | ug/dscm | y | | 7.8E+06 | | 1.6E+07 | | 1.2E+07 | | | | | | | | 7.84E+06 | | 1.55E+07 | | 1.23E+07 | | 1.19E+07 | | | | | |
| 42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 43 | Thermal Feedrate | MMBtu/hr | | | 41.4 | | 45.0 | | 48.0 | | | | | | | | 41.4 | | 45.0 | | 48.0 | | 44.8 | | | | | |
| 44 | Estimated Firing Rate | MMBtu/hr | | | | | | | | | | | | | | | | | | | | | | | | | 53.0 | |
| 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 47 | 714C3 | | R1 | | R2 | | R3 | | | | | | | | | | R1 | | R2 | | R3 | | Cond Avg | | | | | |
| 48 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 49 | Feedstream Number | | F1 | | F1 | | F1 | | | | | | | | | | F2 | | F2 | | F2 | | F2 | | F2 | | | |
| 50 | Feed Class | | Liq HW | | Liq HW | | Liq HW | | | | | | | | | | Total | | Total | | Total | | Total | | Total | | Total | |
| 51 | Feed Class 2 | | HW | | HW | | HW | | | | | | | | | | Total | | Total | | Total | | Total | | Total | | Total | |
| 52 | Feedstream | | TDI | | TDI | | TDI | | | | | | | | | | Total | | Total | | Total | | Total | | Total | | Total | |
| 53 | Feedrate | lb/hr | 3280 | | 4120 | | 3560 | | | | | | | | | | | | | | | | | | | | | |
| 54 | Heating value | Btu/lb | 10580 | | 11173 | | 10386 | | | | | | | | | | | | | | | | | | | | | |
| 55 | Ash | wt % | 0.03 | | 0.02 | | 0.01 | | | | | | | | | | | | | | | | | | | | | |
| 56 | Chlorine | ppmw | 93000 | | 96000 | | 94000 | | | | | | | | | | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58 | Stack Gas Flowrate | | 15900 | | 15900 | | 15800 | | | | | | | | | | 15900 | | 15900 | | 15800 | | 15867 | | | | | |
| 59 | % Oxygen | | 13.5 | | 13.3 | | 11.6 | | | | | | | | | | 13.5 | | 13.3 | | 11.6 | | 12.8 | | | | | |
| 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | B | AC | AD | AE |
|----|-----------------------|----------|----|----------|
| 1 | Feedstream 2 | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | 714C1 | R3 | | Cond Avg |
| 5 | | | | |
| 6 | Feedstream Number | F3 | | F3 |
| 7 | Feed Class | Total | | Total |
| 8 | Feed Class 2 | Total | | Total |
| 9 | Feedstream | Total | | Total |
| 10 | Feedrate | | | |
| 11 | Heating value | | | |
| 12 | Ash | | | |
| 13 | Chlorine | | | |
| 14 | | | | |
| 15 | Stack Gas Flowrate | 16700 | | 16433 |
| 16 | % Oxygen | 11.8 | | 10.6 |
| 17 | | | | |
| 18 | Feedrate MTEC Calcu | | | |
| 19 | Ash | 162.4 | | 126.3 |
| 20 | Chlorine | 1.50E+07 | | 1.31E+07 |
| 21 | | | | |
| 22 | Thermal Feedrate | 39.6 | | 39.3 |
| 23 | Estimated Firing Rate | | | 54.4 |
| 24 | | | | |
| 25 | 714C2 | | | |
| 26 | | | | |
| 27 | Feedstream Number | | | |
| 28 | Feed Class | | | |
| 29 | Feed Class 2 | | | |
| 30 | Feedstream | | | |
| 31 | Feedrate | | | |
| 32 | Heating value | | | |
| 33 | Ash | | | |
| 34 | Chlorine | | | |
| 35 | | | | |
| 36 | Stack Gas Flowrate | | | |
| 37 | % Oxygen | | | |
| 38 | | | | |
| 39 | Feedrate MTEC Calcu | | | |
| 40 | Ash | | | |
| 41 | Chlorine | | | |
| 42 | | | | |
| 43 | Thermal Feedrate | | | |
| 44 | Estimated Firing Rate | | | |
| 45 | | | | |
| 46 | | | | |
| 47 | 714C3 | | | |
| 48 | | | | |
| 49 | Feedstream Number | | | |
| 50 | Feed Class | | | |
| 51 | Feed Class 2 | | | |
| 52 | Feedstream | | | |
| 53 | Feedrate | | | |
| 54 | Heating value | | | |
| 55 | Ash | | | |
| 56 | Chlorine | | | |
| 57 | | | | |
| 58 | Stack Gas Flowrate | | | |
| 59 | % Oxygen | | | |
| 60 | | | | |

| | 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 | | |
|-----|----------------------------|---|----------|---|---|----------|---|----------|---|----------|---|----------|----------|----------|---|---|---|----------|----------|----------|----------|----------|-------|---|---|----|----|--|--|
| 61 | Feedrate MTEC Calculations | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 62 | Ash | | mg/dscm | y | | 30.9 | | 25.2 | | 9.0 | | | | | | | | 30.9 | 25.2 | 9.0 | 21.7 | | | | | | | | |
| 63 | Chlorine | | ug/dscm | y | | 9.58E+06 | | 1.21E+07 | | 8.43E+06 | | | | | | | | 9.58E+06 | 1.21E+07 | 8.43E+06 | 1.00E+07 | | | | | | | | |
| 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | Thermal Feedrate | | MMBtu/hr | | | 34.7 | | 46.0 | | 37.0 | | | | | | | | 34.7 | 46.0 | 37.0 | 39.2 | | | | | | | | |
| 66 | Estimated Firing Rate | | MMBtu/hr | | | | | | | | | | | | | | | | | | | 41.3 | | | | | | | |
| 67 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 69 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 70 | 714C4 | | | | | R1 | | R2 | | R3 | | | | | | | | R1 | R2 | R3 | Cond Avg | | | | | | | | |
| 71 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 72 | Feedstream Number | | | | | F1 | | F1 | | F1 | | | | | | | | F2 | F2 | F2 | F2 | | | | | | | | |
| 73 | Feed Class | | | | | Liq HW | | Liq HW | | Liq HW | | | | | | | | Total | Total | Total | Total | | | | | | | | |
| 74 | Feed Class 2 | | | | | HW | | HW | | HW | | | | | | | | Total | Total | Total | Total | | | | | | | | |
| 75 | Feedstream | | | | | TDI | | TDI | | TDI | | | | | | | | Total | Total | Total | Total | | | | | | | | |
| 76 | Feedrate | | lb/hr | | | 1480 | | 2160 | | 2120 | | | | | | | | | | | | | | | | | | | |
| 77 | Heating value | | Btu/lb | | | 10427 | | 10515 | | 10898 | | | | | | | | | | | | | | | | | | | |
| 78 | Ash | | wt % | | | 0.01 | | 0.01 | | 0.01 | | | | | | | | | | | | | | | | | | | |
| 79 | Chlorine | | ppmw | | | 98000 | | 91000 | | 101000 | | | | | | | | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 81 | Stack Gas Flowrate | | | | | 15500 | | 16400 | | 15900 | | | | | | | | 15500 | 16400 | 15900 | 15933 | | | | | | | | |
| 82 | % Oxygen | | | | | 15.0 | | 13.4 | | 18.8 | | | | | | | | 15 | 13.4 | 18.8 | 15.73333 | | | | | | | | |
| 83 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 | Feedrate MTEC Calculations | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | Ash | | mg/dscm | y | | 6.0 | | 6.5 | | 22.7 | | | | | | | | 6.0 | 6.5 | 22.7 | 11.7 | | | | | | | | |
| 86 | Chlorine | | ug/dscm | y | | 5.84E+06 | | 5.90E+06 | | 2.29E+07 | | | | | | | | 5.84E+06 | 5.90E+06 | 2.29E+07 | 1.16E+07 | | | | | | | | |
| 87 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 88 | Thermal Feedrate | | MMBtu/hr | | | 15.4 | | 22.7 | | 23.1 | | | | | | | | 15.4 | 22.7 | 23.1 | 20.4 | | | | | | | | |
| 89 | Estimated Firing Rate | | MMBtu/hr | | | | | | | | | | | | | | | | | | | 26.6 | | | | | | | |
| 90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 91 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92 | 714C5 | | | | | R1 | | R2 | | R3 | | R1 | R2 | R3 | | | | R1 | R2 | R3 | R1 | R2 | | | | | | | |
| 93 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 94 | Feedstream Number | | | | | F1 | | F1 | | F1 | | F2 | F2 | F2 | | | | | | | | F3 | F3 | | | | | | |
| 95 | Feed Class | | | | | Liq HW | | Liq HW | | Liq HW | | Liq HW | Liq HW | Liq HW | | | | | | | | Total | Total | | | | | | |
| 96 | Feed Class 2 | | | | | | | | | | | | | | | | | HW | HW | HW | Total | Total | | | | | | | |
| 97 | Feedstream Description | | | | | TDI | | TDI | | TDI | | T-101 | T-101 | T-101 | | | | | | | | Total | Total | | | | | | |
| 98 | Feedrate | | lb/hr | | | 3930 | | 4250 | | 4380 | | 255 | 277 | 360 | | | | | | | | | | | | | | | |
| 99 | Heating value | | Btu/lb | | | 10930 | | 10470 | | 10757 | | 6548 | 6310 | 6495 | | | | | | | | | | | | | | | |
| 100 | Ash | | wt % | | | 0.01 | | 0.01 | | 0.01 | | 1.94 | 1.86 | 1.64 | | | | | | | | | | | | | | | |
| 101 | Chlorine | | ppmw | | | 117000 | | 108000 | | 116000 | | 636800 | 561700 | 636600 | | | | | | | | | | | | | | | |
| 102 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 103 | Stack Gas Flowrate | | | | | 16300 | | 15800 | | 15800 | | 16300 | 15800 | 15800 | | | | | | | | 16300 | 15800 | | | | | | |
| 104 | % Oxygen | | | | | 10.8 | | 9.0 | | 10.7 | | 10.8 | 9.0 | 10.7 | | | | | | | | 10.8 | 9 | | | | | | |
| 105 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 106 | Feedrate MTEC Calculations | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 107 | Ash | | mg/dscm | y | | 8.8 | | 8.4 | | 10.1 | | 111.4 | 101.7 | 135.8 | | | | 120.2 | 110.1 | 145.9 | 120.2 | 110.1 | | | | | | | |
| 108 | Chlorine | | ug/dscm | y | | 1.04E+07 | | 9.06E+06 | | 1.17E+07 | | 3.66E+06 | 3.07E+06 | 5.27E+06 | | | | 1.40E+07 | 1.21E+07 | 1.70E+07 | 1.40E+07 | 1.21E+07 | | | | | | | |
| 109 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 110 | Thermal Feedrate | | MMBtu/hr | | | 43.0 | | 44.5 | | 47.1 | | 1.7 | 1.7 | 2.3 | | | | 44.6 | 46.2 | 49.5 | 44.6 | 46.2 | | | | | | | |
| 111 | Estimated Firing Rate | | MMBtu/hr | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | B | AC | AD | AE |
|-----|------------------------|----------|----|----------|
| 61 | Feedrate MTEC Calcu | | | |
| 62 | Ash | | | |
| 63 | Chlorine | | | |
| 64 | | | | |
| 65 | Thermal Feedrate | | | |
| 66 | Estimated Firing Rate | | | |
| 67 | | | | |
| 68 | | | | |
| 69 | | | | |
| 70 | 714C4 | | | |
| 71 | | | | |
| 72 | Feedstream Number | | | |
| 73 | Feed Class | | | |
| 74 | Feed Class 2 | | | |
| 75 | Feedstream | | | |
| 76 | Feedrate | | | |
| 77 | Heating value | | | |
| 78 | Ash | | | |
| 79 | Chlorine | | | |
| 80 | | | | |
| 81 | Stack Gas Flowrate | | | |
| 82 | % Oxygen | | | |
| 83 | | | | |
| 84 | Feedrate MTEC Calcu | | | |
| 85 | Ash | | | |
| 86 | Chlorine | | | |
| 87 | | | | |
| 88 | Thermal Feedrate | | | |
| 89 | Estimated Firing Rate | | | |
| 90 | | | | |
| 91 | | | | |
| 92 | 714C5 | R3 | | Cond Avg |
| 93 | | | | |
| 94 | Feedstream Number | F3 | | F3 |
| 95 | Feed Class | Total | | Total |
| 96 | Feed Class 2 | Total | | Total |
| 97 | Feedstream Description | Total | | Total |
| 98 | Feedrate | | | |
| 99 | Heating value | | | |
| 100 | Ash | | | |
| 101 | Chlorine | | | |
| 102 | | | | |
| 103 | Stack Gas Flowrate | 15800 | | 15967 |
| 104 | % Oxygen | 10.7 | | 10.16667 |
| 105 | | | | |
| 106 | Feedrate MTEC Calcu | | | |
| 107 | Ash | 145.9 | | 125.4 |
| 108 | Chlorine | 1.70E+07 | | 1.44E+07 |
| 109 | | | | |
| 110 | Thermal Feedrate | 49.5 | | 46.8 |
| 111 | Estimated Firing Rate | | | 54.9 |

| | B | C | D | E |
|----|----------------------------|---------------------|---|----------|
| 1 | Process Information | | | |
| 2 | | | | |
| 3 | 714C10 | | | Cond Avg |
| 4 | | | | |
| 5 | Comb Chamb Temp | °F | | 1707 |
| 6 | Comb Cham Pressure | in H2O | | -0.85 |
| 7 | Comb air flow | scfm | | 7492 |
| 8 | Quench water | pH | | 7.7 |
| 9 | Scrubber water | pH | | 8.1 |
| 10 | Scrubber temp | F | | 100 |
| 11 | Demistor pressure drop | in H2O | | 8 |
| 12 | Scrubber liquid | pH | | 9.7 |
| 13 | | | | |
| 14 | | | | |
| 15 | 714C11 | | | Cond Avg |
| 16 | | | | |
| 17 | Comb Chamb Temp | °F | | 2219 |
| 18 | Comb Cham Pressure | in H2O | | -0.8 |
| 19 | Comb air flow | scfm | | 8512 |
| 20 | Quench water | pH | | 7.6 |
| 21 | Scrubber water | pH | | 8.1 |
| 22 | Scrubber temp | F | | 112 |
| 23 | | | | |
| 24 | | | | |
| 25 | 714C12 | Max heat w/TDI only | | |
| 26 | | | | Cond Avg |
| 27 | Comb Chamb Temp | °F | | 2198 |
| 28 | Comb Cham Pressure | in H2O | | -0.6 |
| 29 | Comb air flow | scfm | | 9202 |
| 30 | Quench water | pH | | 7.8 |
| 31 | Scrubber water | pH | | 8.3 |
| 32 | Scrubber temp | F | | 114 |

| | C | D | E | F | G |
|----|------------------------------|---|------|------|------|
| 1 | Process Information 2 | | | | |
| 2 | | | | | |
| 3 | 714C1 | | | | |
| 4 | | | | | |
| 5 | Combustion Temperature | F | 2530 | 2510 | 2480 |
| 6 | WS pH | | 6.1 | 6.2 | 6.2 |
| 7 | | | | | |
| 8 | 714C2 | | | | |
| 9 | | | | | |
| 10 | Combustion Temperature | F | 2640 | 2640 | 2620 |
| 11 | WS pH | | 6.3 | 6.1 | 5.7 |
| 12 | | | | | |
| 13 | 714C3 | | | | |
| 14 | | | | | |
| 15 | Combustion Temperature | F | 2280 | 2280 | 2240 |
| 16 | WS pH | | 6.9 | 6.4 | 6.2 |
| 17 | | | | | |
| 18 | 714C4 | | | | |
| 19 | | | | | |
| 20 | Combustion Temperature | F | 1820 | 1840 | 1760 |
| 21 | WS pH | | 7.3 | 7.2 | 7.2 |
| 22 | | | | | |
| 23 | 714C5 | | | | |
| 24 | | | | | |
| 25 | Combustion Temperature | F | 2530 | 2540 | 2510 |
| 26 | WS pH | | 6 | 5.6 | 6 |