

US EPA ARCHIVE DOCUMENT

| | B | C |
|----|-----------------------------|---|
| 1 | Source Description | |
| 2 | | |
| 3 | Phase II ID No. | 845 |
| 4 | EPA ID No. | TXD008092793 |
| 5 | Facility Name | Dow Chemical Company |
| 6 | Facility Location | |
| 7 | City | Freeport |
| 8 | State | TX |
| 9 | Unit ID Name/No. | F-210 |
| 10 | Other Sister Facilities | None |
| 11 | Number of Sister Facilities | 0 |
| 12 | Combustor Class | HCl Production Furnace |
| 13 | Combustor Type | |
| | Combustor Characteristics | Firetube boiler made by Johnston company, horizontal direct fired combustion chamber made by John Zink Company, capacity of 50.2 |
| 14 | | MMBtu/hr |
| 15 | Capacity (MMBtu/hr) | 50.2 |
| 16 | Soot Blowing | None |
| 17 | APCS Detailed Acronym | WHB/Q/HCLABS/VS/WS |
| 18 | APCS General Class | WHB, WQ, LEWS, HEWS |
| | APCS Characteristics | (Quench and HCl absorber, venturi scrubber, wet scrubber) Gases contacted with caustic water in an ejector venturi (VE-214) then pass through scrubbing medium in T-214 chlorine scrubber |
| 19 | | |
| 20 | Hazardous Wastes | Liq |
| 21 | Haz Waste Description | Liquid wastes (Epi Heavies, Allyl Tars mix, TCP, BO Heavies) |
| 22 | Supplemental Fuel | Natural gas |
| 23 | | |
| 24 | Stack Characteristics | |
| 25 | Diameter (ft) | 2.5 |
| 26 | Height (ft) | 85 |
| 27 | Gas Velocity (ft/sec) | 47.5 |
| 28 | Gas Temperature (°F) | 140.7 |
| 29 | | |
| 30 | Permitting Status | Tier I for metals except Tier III for Cr+6 and Tier III for Cl and Tier III Pb? |
| | HWC Burn Status (Date if | |
| 31 | Terminated) | |

| | B | C |
|----|-------------------------|---|
| 1 | Cond Description | |
| 2 | | |
| 3 | 845C1 | |
| 4 | | |
| 5 | Report Name/Date | F-210 Trial Burn and Risk Burn Report, July 13 and 15, 1998 |
| 6 | Report Prepare | Focus Environmental, Inc. |
| 7 | Testing Firm | METCO Environmental |
| 8 | Testing Dates | April 16, 1998 |
| 9 | Cond Dates | April-98 |
| 10 | Condition Descr | Trial burn, max waste feed rate, max ash and Cr |
| 11 | Content | PM, HCl/Cl ₂ , Cr+6, Cr/Pb |
| 12 | | |
| 13 | 845C2 | |
| 14 | | |
| 15 | Report Name/Date | F-210 Trial Burn and Risk Burn Report, July 13 and 15, 1998 |
| 16 | Report Prepare | Focus Environmental, Inc. |
| 17 | Testing Firm | METCO Environmental |
| 18 | Testing Dates | April 17, 1998 |
| 19 | Cond Dates | Apr-98 |
| 20 | Condition Descr | Trial burn, DRE min comb temp, max stack gas flow rate |
| 21 | Content | DRE (chlorobenzene) |
| 22 | | |
| 23 | 845C3 | |
| 24 | | |
| 25 | Report Name/Date | F-210 Trial Burn and Risk Burn Report, July 13 and 15, 1998 |
| 26 | Report Prepare | Focus Environmental, Inc. |
| 27 | Testing Firm | METCO Environmental |
| 28 | Testing Dates | April 14, 1998 |
| 29 | Cond Dates | Apr-98 |
| 30 | Condition Descr | Risk burn, above normal feed of liq waste, normal comb temp |
| 31 | Content | PCDD/F, metals |

| | B | C | D | E | F | G | H | I | J | K | L | M | N | O |
|----|----------------------------|-------------------|---------|-------|----|----------|----|----------|----|----------|---|----------|-----------|---|
| 1 | Stack Gas Emissions | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | Comments | Units | 7% O2 | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | 845C1 | Trial Burn | | | | R1 | | R2 | | R3 | | Cond Avg | | |
| 7 | | | | | | | | | | | | | | |
| 8 | PM | E1 | gr/dscf | y | | 0.0012 | | 0.0018 | | 0.0015 | | 0.0015 | | |
| 9 | CO (MHRA) | E1 | ppmv | y | | 4.85 | | 4.12 | | 4.3 | | 4.4 | | |
| 10 | CO (RA) | E1 | ppmv | y | | 4.23 | | 3.55 | | 3.4 | | 3.7 | | |
| 11 | Chromium (Hex) | | g/hr | | | 0.15 | | 0.08 | | 0.08 | | 0.1 | | |
| 12 | Chromium | | g/hr | | | 0.072 | | 0.065 | | 0.13 | | 0.09 | | |
| 13 | Lead | | g/hr | | | 2.9 | | 3.3 | | 3.2 | | 3 | | |
| 14 | HCl | | g/hr | | | 23 | | 24 | | 17 | | 21.3 | | |
| 15 | Cl2 | | g/hr | | | 51 | | 62 | | 55 | | 56 | | |
| 16 | | | | | | | | | | | | | | |
| 17 | Chromium (Hex) | E2 | µg/dscm | y | | 7.9 | | 4.0 | | 4.2 | | 5.3 | | |
| 18 | Chromium | E3 | µg/dscm | y | | 3.6 | | 3.1 | | 6.4 | | 4.4 | | |
| 19 | LVM | E3 | µg/dscm | y | | 3.6 | | 3.1 | | 6.4 | | 4.4 | No Be, As | |
| 20 | Lead | E3 | µg/dscm | y | | 144.6 | | 157.2 | | 158.1 | | 151.7 | | |
| 21 | SVM | E3 | µg/dscm | y | | 144.6 | | 157.2 | | 158.1 | | 151.7 | No Cd | |
| 22 | HCl | E1 | ppmv | y | | 0.8 | | 0.8 | | 0.6 | | 0.7 | | |
| 23 | Cl2 | E1 | ppmv | y | | 0.9 | | 1.1 | | 1.0 | | 1.0 | | |
| 24 | Total Chlorine | E1 | ppmv | y | | 2.61 | | 2.91 | | 2.49 | | 2.68 | | |
| 25 | | | | | | | | | | | | | | |
| 26 | Sampling Train | PM, HCl/Cl2 | E1 | | | | | | | | | | | |
| 27 | Stack Gas Flowrate | | dscfm | | | 13700 | | 14300 | | 14000 | | 14000 | | |
| 28 | O2 | | % | | | 9.4 | | 9.4 | | 9.4 | | 9.4 | | |
| 29 | Moisture | | % | | | | | | | | | | | |
| 30 | Temperature | | °F | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| 32 | Sampling Train | Cr+6 | E2 | | | | | | | | | | | |
| 33 | Stack Gas Flowrate | | dscfm | | | 13468 | | 14386 | | 13645 | | 13833 | | |
| 34 | O2 | | % | | | | | | | | | | | |
| 35 | Moisture | | % | | | | | | | | | | | |
| 36 | Temperature | | °F | | | | | | | | | | | |
| 37 | | | | | | | | | | | | | | |
| 38 | Sampling Train | Cr/Pb | E3 | | | | | | | | | | | |
| 39 | Stack Gas Flowrate | | dscfm | | | 14255 | | 14923 | | 14386 | | 14521 | | |
| 40 | O2 | | % | | | | | | | | | | | |
| 41 | Moisture | | % | | | | | | | | | | | |
| 42 | Temperature | | °F | | | | | | | | | | | |
| 43 | | | | | | | | | | | | | | |
| 44 | 845C2 | Trial Burn | | | | R1 | | R2 | | R3 | | Cond Avg | | |
| 45 | | | | | | | | | | | | | | |
| 46 | CO (MHRA) | E1 | ppmv | y | | 64.72 | | 62.15 | | 54.01 | | 60.3 | | |
| 47 | CO (RA) | E1 | ppmv | y | | 59.45 | | 55.62 | | 52.85 | | 56.0 | | |
| 48 | | | | | | | | | | | | | | |
| 49 | POHC DRE | Chlorobenzene | | | | | | | | | | | | |
| 50 | POHC Feedrate | | lb/hr | | | 45 | | 45 | | 45 | | | | |
| 51 | Emission Rate | E1 | lb/hr | | nd | 3.90E-05 | nd | 3.90E-05 | nd | 4.00E-05 | | | | |
| 52 | DRE | E1 | % | | > | 99.99991 | > | 99.99991 | > | 99.99991 | | | | |
| 53 | | | | | | | | | | | | | | |
| 54 | Sampling Train | DRE | E1 | | | | | | | | | | | |
| 55 | Stack Gas Flowrate | | dscfm | | | 16334 | | 16439 | | 16311 | | 16361.3 | | |
| 56 | O2 | | % | | | 6 | | 5.9 | | 5.9 | | 5.9 | | |
| 57 | Moisture | | % | | | 19.77 | | 19.11 | | 20.34 | | 19.7 | | |
| 58 | Temperature | | °F | | | 141 | | 140 | | 141 | | 140.7 | | |
| 59 | | | | | | | | | | | | | | |
| 60 | 845C3 | Risk Burn | | | | R1 | | R2 | | R3 | | Cond Avg | | |
| 61 | | | | | | | | | | | | | | |
| 62 | CO (MHRA) | E1 | ppmv | y | | 10.34 | | 11.53 | | 5.22 | | 9.03 | | |
| 63 | CO (RA) | E1 | ppmv | y | | 8.64 | | 6.45 | | 4.66 | | 6.58 | | |
| 64 | Antimony | | µg/dscf | n | nd | 0.0047 | nd | 0.0047 | nd | 0.0047 | | | | |
| 65 | Arsenic | | µg/dscf | n | nd | 0.0044 | nd | 0.019 | nd | 0.0044 | | | | |
| 66 | Barium | | µg/dscf | n | | 0 | | 0 | | 0 | | | | |
| 67 | Beryllium | | µg/dscf | n | nd | 0.00057 | nd | 0.00058 | nd | 0.00058 | | | | |
| 68 | Cadmium | | µg/dscf | n | | 0.0304 | nd | 0.0059 | nd | 0.0048 | | | | |
| 69 | Chromium | | µg/dscf | n | | 0.0131 | | 0.011 | | 0.0104 | | | | |
| 70 | Cobalt | | µg/dscf | n | nd | 0.016 | nd | 0.019 | nd | 0.017 | | | | |
| 71 | Copper | | µg/dscf | n | | 0.42 | | 0.676 | | 0.445 | | | | |

| | B | C | D | E | F | G | H | I | J | K | L | M | N | O |
|-----|--------------------|-----------|---------|---|----|--------|----|--------|----|--------|-----|---|---------|---|
| 72 | Lead | | µg/dscf | n | | 0.0484 | | 0.0278 | | 0.0279 | | | | |
| 73 | Manganese | | µg/dscf | n | | 0.73 | | 0.0382 | | 0.67 | | | | |
| 74 | Mercury | | µg/dscf | n | nd | 0.0055 | nd | 0.0037 | nd | 0.0025 | | | | |
| 75 | Molybdenum | | µg/dscf | n | nd | 0.11 | nd | 0.12 | nd | 0.1 | | | | |
| 76 | Nickel | | µg/dscf | n | nd | 0.076 | nd | 0.14 | nd | 0.08 | | | | |
| 77 | Selenium | | µg/dscf | n | nd | 0.0082 | nd | 0.0083 | nd | 0.0083 | | | | |
| 78 | Silver | | µg/dscf | n | nd | 0.0011 | nd | 0.0011 | nd | 0.0011 | | | | |
| 79 | Thallium | | µg/dscf | n | nd | 0.012 | nd | 0.013 | nd | 0.0072 | | | | |
| 80 | Vanadium | | µg/dscf | n | nd | 0.01 | nd | 0.0067 | nd | 0.0067 | | | | |
| 81 | | | | | | | | | | | | | | |
| 82 | Antimony | E1 | µg/dscm | y | nd | 0.3 | nd | 0.3 | nd | 0.2 | 100 | | 0.3 | |
| 83 | Arsenic | E1 | µg/dscm | y | nd | 0.2 | nd | 1.0 | nd | 0.2 | 100 | | 0.5 | |
| 84 | Barium | E1 | µg/dscm | y | | 0.0 | | 0.0 | | 0.0 | | | 0.0 | |
| 85 | Beryllium | E1 | µg/dscm | y | nd | 0.03 | nd | 0.03 | nd | 0.03 | 100 | | 0.0 | |
| 86 | Cadmium | E1 | µg/dscm | y | | 1.7 | nd | 0.3 | nd | 0.3 | 26 | | 0.7 | |
| 87 | Chromium | E1 | µg/dscm | y | | 0.7 | | 0.6 | | 0.5 | | | 0.6 | |
| 88 | Cobalt | E1 | µg/dscm | y | nd | 0.9 | nd | 1.0 | nd | 0.9 | 100 | | 0.9 | |
| 89 | Copper | E1 | µg/dscm | y | | 22.7 | | 36.3 | | 23.4 | | | 27.5 | |
| 90 | Lead | E1 | µg/dscm | y | | 2.6 | | 1.5 | | 1.5 | | | 1.9 | |
| 91 | Manganese | E1 | µg/dscm | y | | 39.7 | | 2.1 | | 35.3 | | | 25.7 | |
| 92 | Mercury | E1 | µg/dscm | y | nd | 0.3 | nd | 0.2 | nd | 0.1 | 100 | | 0.2 | |
| 93 | Molybdenum | E1 | µg/dscm | y | nd | 6.0 | nd | 6.5 | nd | 5.3 | 100 | | 5.9 | |
| 94 | Nickel | E1 | µg/dscm | y | nd | 4.1 | nd | 7.5 | nd | 4.2 | 100 | | 5.3 | |
| 95 | Selenium | E1 | µg/dscm | y | nd | 0.4 | nd | 0.4 | nd | 0.4 | 100 | | 0.4 | |
| 96 | Silver | E1 | µg/dscm | y | nd | 0.1 | nd | 0.1 | nd | 0.1 | 100 | | 0.1 | |
| 97 | Thallium | E1 | µg/dscm | y | nd | 0.7 | nd | 0.7 | nd | 0.4 | 100 | | 0.6 | |
| 98 | Vanadium | E1 | µg/dscm | y | nd | 0.4 | nd | 0.4 | nd | 0.4 | 100 | | 0.4 | |
| 99 | SVM | E1 | µg/dscm | y | | 4.3 | 19 | 1.7 | 16 | 1.6 | 8 | | 2.5 | |
| 100 | LVM | E1 | µg/dscm | y | 32 | 0.8 | 94 | 1.1 | 39 | 0.7 | 60 | | 0.9 | |
| 101 | | | | | | | | | | | | | | |
| 102 | Sampling Train | Metals | E1 | | | | | | | | | | | |
| 103 | Stack Gas Flowrate | | dscfm | | | 14269 | | 13953 | | 14188 | | | 14136.7 | |
| 104 | O2 | | % | | | | | | | | | | | |
| 105 | Moisture | | % | | | | | | | | | | | |
| 106 | Temperature | | °F | | | | | | | | | | | |
| 107 | | | | | | | | | | | | | | |
| 108 | Sampling Train | PCDD/PCDF | E2 | | | | | | | | | | | |
| 109 | Stack Gas Flowrate | | dscfm | | | 14580 | | 13550 | | 14100 | | | 14076.7 | |
| 110 | O2 | | % | | | 11.9 | | 11.8 | | 11.6 | | | 11.8 | |
| 111 | Moisture | | % | | | | | | | | | | | |
| 112 | Temperature | | °F | | | | | | | | | | | |

| | 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 |
|----|------------------------------|----------------------------|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Feedrate Calculations | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 845C1 | Trial burn | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | Feedstream Number | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | Feed Class | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | Feed Class 2 | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | Feedstream Description | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | Feed Rate | lb/hr | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | Feed Rate | cps | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | Viscosity | Btu/lb | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | Heating Value | lb/gal | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | Density | lb/hr | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | Ash | lb/hr | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | Chlorine | g/hr | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | Antimony | g/hr | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | Arsenic | g/hr | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | Barium | g/hr | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | Beryllium | g/hr | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | Cadmium | g/hr | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | Chromium | g/hr | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | Lead | g/hr | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | Mercury | g/hr | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | Silver | g/hr | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | Thallium | g/hr | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | Stack Gas Flowrate | dscfm | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | Oxygen | % | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | Thermal Feedrate | MMBtu/hr | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | Estimated Firing Rate | MMBtu/hr | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | Feedrate MTEC Calculations | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | Ash | mg/dscm | | | | | | | | | | | | | | | | | | | | | | |
| 32 | | Chlorine | ug/dscm | | | | | | | | | | | | | | | | | | | | | | |
| 33 | | Antimony | ug/dscm | | | | | | | | | | | | | | | | | | | | | | |
| 34 | | Arsenic | ug/dscm | | | | | | | | | | | | | | | | | | | | | | |
| 35 | | Barium | ug/dscm | | | | | | | | | | | | | | | | | | | | | | |
| 36 | | Beryllium | ug/dscm | | | | | | | | | | | | | | | | | | | | | | |
| 37 | | Cadmium | ug/dscm | | | | | | | | | | | | | | | | | | | | | | |
| 38 | | Chromium | ug/dscm | | | | | | | | | | | | | | | | | | | | | | |
| 39 | | Lead | ug/dscm | | | | | | | | | | | | | | | | | | | | | | |
| 40 | | Silver | ug/dscm | | | | | | | | | | | | | | | | | | | | | | |
| 41 | | Mercury | ug/dscm | | | | | | | | | | | | | | | | | | | | | | |
| 42 | | Thallium | ug/dscm | | | | | | | | | | | | | | | | | | | | | | |
| 43 | | SVM | ug/dscm | | | | | | | | | | | | | | | | | | | | | | |
| 44 | | LVM | ug/dscm | | | | | | | | | | | | | | | | | | | | | | |
| 45 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 51 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 52 | | 845C2 | Trial burn | | | | | | | | | | | | | | | | | | | | | | |
| 53 | | Feedstream Number | | | | | | | | | | | | | | | | | | | | | | | |
| 54 | | Feed Class | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | | Feed Class 2 | | | | | | | | | | | | | | | | | | | | | | | |
| 56 | | Feedstream Description | | | | | | | | | | | | | | | | | | | | | | | |
| 57 | | Feed Rate | lb/hr | | | | | | | | | | | | | | | | | | | | | | |
| 58 | | Feed Rate | cps | | | | | | | | | | | | | | | | | | | | | | |
| 59 | | Viscosity | Btu/lb | | | | | | | | | | | | | | | | | | | | | | |
| 60 | | Heating Value | | | | | | | | | | | | | | | | | | | | | | | |

US EPA ARCHIVE DOCUMENT

| | AA | AB | AC | AD | AE | AF | AG | AH | AI | AJ | AK | AL | AM | AN | AO | AP | AQ | AR | AS | AT | AU | AV | AW | AX | AY | AZ | BA | |
|----|----|----------|----|----|----------------|----|----|----------------|----------|----|----|----|----|----|----|----|----|----|----------|----|----|-------|----|----|-------|----|----|-------|
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| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | Cond Avg | R1 | F3 | Process Gas MF | R2 | F3 | Process Gas MF | Cond Avg | R1 | F4 | NG | R2 | F4 | NG | R3 | F4 | NG | Cond Avg | R1 | F5 | Spike | R2 | F5 | Spike | R3 | F5 | Spike |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | HW | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 30 | | | 44.4 | 45.3 | 44.1 | | 44.6 |
| 31 | | | 50.5 | 52.7 | 51.6 | | 51.6 |
| 32 | | | | | | | |
| 33 | | | | | | | |
| 34 | | | 45.5 | 51.5 | 43.6 | | 46.9 |
| 35 | 105993726.2 | | 101411041.7 | 100472462.5 | 102625743.5 | | |
| 36 | 3.6 100 | | 3.5 100 | 3.6 100 | 3.6 100 | | 3.6 |
| 37 | 3.6 100 | | 3.5 100 | 3.6 100 | 3.6 100 | | 3.6 |
| 38 | 0.6 67 | | 0.7 82 | 0.6 75 | 0.6 75 | | 0.6 |
| 39 | 0.4 100 | | 0.4 100 | 0.4 100 | 0.4 100 | | 0.4 |
| 40 | 2.5 100 | | 2.4 100 | 3.0 100 | 3.0 100 | | 2.6 |
| 41 | 510.8 0.2 | | 495.9 0.2 | 508.5 0.2 | 508.5 0.2 | | 505.0 |
| 42 | 2057.6 0.3 | | 2004.6 0.3 | 2047.5 0.3 | 2047.5 0.3 | | 2036.2 |
| 43 | 6.2 100 | | 6.0 100 | 6.1 100 | 6.1 100 | | 6.1 |
| 44 | 0.7 100 | | 0.6 100 | 0.7 100 | 0.7 100 | | 0.7 |
| 45 | 5.7 100 | | 5.5 100 | 5.6 100 | 5.6 100 | | 5.6 |
| 46 | | | | | | | |
| 47 | 2060.1 0 | | 2007.0 0 | 2050.5 0 | 2039.2 | | 2039.2 |
| 48 | 514.9 1 | | 499.8 1 | 512.4 1 | 509.0 | | 509.0 |
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| 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 |
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| 61 | Density | lb/gal | 11 | | | 11 | | 11 | | | | | | | | | | | | | | | | |
| 62 | Ash | lb/hr | 0.093 | | | 0.093 | | 0.11 | | 0.1 | | | | | | | | | | | | | | |
| 63 | Chlorine | lb/hr | 3670 | | | 3650 | | 3640 | | 3653.3 | | | | | | | | | | | | | | |
| 64 | Stack Gas Flowrate | dscfm | 16334 | | | 16439 | | 16311 | | 16361.3 | | | | | | | | | | | | | | |
| 66 | Oxygen | % | 6 | | | 5.9 | | 5.9 | | 5.9 | | | | | | | | | | | | | | |
| 67 | Thermal Feedrate | MMBtu/hr | 37.1 | | | 36.5 | | 38.2 | | 37.3 | | | | | | | | | | | | | | |
| 69 | Estimated Firing Rate | MMBtu/hr | | | | | | | | | | | | | | | | | | | | | | |
| 70 | Feedrate MTEC Calculations | | | | | | | | | | | | | | | | | | | | | | | |
| 71 | Ash | ng/dscm | 1.5 | | | 1.4 | | 1.7 | | 1.5 | | | | | | | | | | | | | | |
| 72 | Chlorine | ug/dscm | 56069729 | | | 55041052 | | 55321004 | | 55474790 | | | | | | | | | | | | | | |
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| 77 | 845C3 | | | | | | | | | | | | | | | | | | | | | | | |
| 78 | Risk burn | | | | | | | | | | | | | | | | | | | | | | | |
| 79 | Feedstream Number | | | | | | | | | | | | | | | | | | | | | | | |
| 80 | Feed Class | | | | | | | | | | | | | | | | | | | | | | | |
| 81 | Feed Class 2 | | | | | | | | | | | | | | | | | | | | | | | |
| 82 | Feedstream Description | | | | | | | | | | | | | | | | | | | | | | | |
| 83 | Feed Rate | lb/hr | 2476 | | | 2477 | | 2475 | | 2476.0 | | | | | | | | | | | | | | |
| 84 | Viscosity | cps | 1.7 | | | 1.8 | | 1.6 | | 1.7 | | | | | | | | | | | | | | |
| 85 | Heating Value | Btu/lb | 7050 | | | 6970 | | 7140 | | 7053.3 | | | | | | | | | | | | | | |
| 86 | Density | lb/gal | 10.8 | | | 10.8 | | 10.8 | | 10.8 | | | | | | | | | | | | | | |
| 87 | Ash | lb/hr | 1.14 | | | 0.357 | | 0.252 | | 0.58 | | | | | | | | | | | | | | |
| 88 | Chlorine | lb/hr | 1500 | | | 1530 | | 1520 | | 1516.7 | | | | | | | | | | | | | | |
| 89 | Antimony | g/hr | 0.0978 | | | 0.111 | | 0.027 | | 0.08 | | | | | | | | | | | | | | |
| 90 | Arsenic | g/hr | 2.25 | | | nd | | 0.22 | | 0.90 | | | | | | | | | | | | | | |
| 91 | Barium | g/hr | 0.022 | | | 0.00574 | | 0.0059 | | 0.01 | | | | | | | | | | | | | | |
| 92 | Beryllium | g/hr | nd | | | 0.0032 | | 0.0032 | | nd | | | | | | | | | | | | | | |
| 93 | Cadmium | g/hr | 0.033 | | | 0.0289 | | 0.027 | | 0.030 | | | | | | | | | | | | | | |
| 94 | Chromium | g/hr | 1.26 | | | 0.252 | | 0.184 | | 0.57 | | | | | | | | | | | | | | |
| 95 | Lead | g/hr | 0.0765 | | | 0.058 | | 0.044 | | 0.06 | | | | | | | | | | | | | | |
| 96 | Mercury | g/hr | 0.45 | | | nd | | 0.45 | | nd | | | | | | | | | | | | | | |
| 97 | Nickel | g/hr | 10 | | | 0.528 | | 0.923 | | 3.82 | | | | | | | | | | | | | | |
| 98 | Selenium | g/hr | nd | | | 0.047 | | 0.047 | | 0.047 | | | | | | | | | | | | | | |
| 99 | Silver | g/hr | 0.0063 | | | 0.0063 | | 0.0063 | | 0.0063 | | | | | | | | | | | | | | |
| 100 | Thallium | g/hr | 0.041 | | | 0.041 | | 0.0591 | | 0.041 | | | | | | | | | | | | | | |
| 101 | Zinc | g/hr | 2.86 | | | 2.46 | | 0.986 | | 2.10 | | | | | | | | | | | | | | |
| 102 | | | | | | | | | | | | | | | | | | | | | | | | |
| 103 | Stack Gas Flowrate | dscfm | 14580 | | | 13550 | | 14100 | | 14076.7 | | | | | | | | | | | | | | |
| 104 | Oxygen | % | 11.9 | | | 11.8 | | 11.6 | | 11.8 | | | | | | | | | | | | | | |
| 105 | | | | | | | | | | | | | | | | | | | | | | | | |
| 106 | Thermal Feedrate | MMBtu/hr | 17.5 | | | 17.3 | | 17.7 | | 17.5 | | | | | | | | | | | | | | |
| 107 | Estimated Firing Rate | MMBtu/hr | | | | | | | | | | | | | | | | | | | | | | |
| 108 | | | | | | | | | | | | | | | | | | | | | | | | |
| 109 | Feedrate MTEC Calculations | | | | | | | | | | | | | | | | | | | | | | | |
| 110 | Ash | ng/dscm | 32.2 | | | 10.7 | | 7.1 | | 16.7 | | | | | | | | | | | | | | |
| 111 | Chlorine | ug/dscm | 42319307 | | | 45942065 | | 42928214 | | 43729862 | | | | | | | | | | | | | | |
| 112 | Antimony | ug/dscm | 6.1 | | | 7.3 | | 1.7 | | 5.0 | | | | | | | | | | | | | | |
| 113 | Arsenic | ug/dscm | 139.8 | | | 146 | | 13.7 | | 56.0 | | | | | | | | | | | | | | |
| 114 | Barium | ug/dscm | 1.4 | | | 0.4 | | 0.4 | | 0.7 | | | | | | | | | | | | | | |
| 115 | Beryllium | ug/dscm | 100 | | | 0.2 | | 0.2 | | 0.2 | | | | | | | | | | | | | | |
| 116 | Cadmium | ug/dscm | 2.1 | | | 1.9 | | 1.7 | | 1.9 | | | | | | | | | | | | | | |
| 117 | Chromium | ug/dscm | 78.3 | | | 16.7 | | 11.4 | | 35.5 | | | | | | | | | | | | | | |
| 118 | Lead | ug/dscm | 4.8 | | | 3.8 | | 2.7 | | 3.8 | | | | | | | | | | | | | | |
| 119 | Mercury | ug/dscm | 100 | | | 29.8 | | 28.0 | | 28.6 | | | | | | | | | | | | | | |
| 120 | Nickel | ug/dscm | 621.4 | | | 34.9 | | 57.4 | | 237.9 | | | | | | | | | | | | | | |

US EPA ARCHIVE DOCUMENT

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|-----|-------------------------------|---|---------|-----|-------|-----|-------|-----|------|------|-------|-----|------|------|------|------|------|------|-----|-------|-----|-------|-----|-------|-----|--|--|
| 121 | Selenium | | ug/dscm | 100 | 2.9 | 100 | 3.1 | 100 | 2.9 | 2.9 | 3.0 | 0.4 | 8.9 | 8.6 | 8.6 | 8.6 | 9.1 | 8.9 | 25 | 11.9 | 27 | 11.7 | 24 | 12.1 | | | |
| 122 | Silver | | ug/dscm | 100 | 0.4 | 100 | 0.4 | 100 | 0.4 | 0.4 | 0.4 | 100 | 0.4 | 100 | 0.5 | 100 | 0.4 | 0.5 | 100 | 0.5 | 100 | 0.8 | 100 | 0.9 | 100 | | |
| 123 | Thallium | | ug/dscm | 100 | 2.5 | 100 | 2.7 | 100 | 3.7 | 3.7 | 3.0 | 100 | 2.9 | 100 | 3.0 | 100 | 2.9 | 2.9 | 100 | 100 | 5.4 | 100 | 5.8 | 100 | 6.5 | | |
| 124 | Zinc | | ug/dscm | | 177.7 | | 162.7 | | 61.3 | 61.3 | 133.9 | | 28.1 | 11.6 | 11.6 | 66.6 | 66.6 | 35.4 | 0 | 205.8 | 0 | 174.3 | 0 | 127.9 | | | |
| 125 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 126 | SVM | | ug/dscm | | 6.8 | | 5.7 | | 4.4 | 4.4 | 5.7 | | 4.3 | 4.6 | 4.6 | 4.3 | 4.3 | 4.4 | 39 | 11.1 | 44 | 10.3 | 81 | 8.7 | | | |
| 127 | LVM | | ug/dscm | | 218.3 | | 31.4 | | 25.3 | 25.3 | 91.7 | | 4.0 | 4.8 | 4.8 | 5.2 | 5.2 | 4.7 | 2 | 222.4 | 52 | 36.2 | 64 | 30.6 | | | |
| 128 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 129 | Tier I Feedrate Limits | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 130 | Antimony | | g/hr | | | | | | | | 150 | | | | | | | | | | | | | | | | |
| 131 | Arsenic | | g/hr | | | | | | | | 0.55 | | | | | | | | | | | | | | | | |
| 132 | Barium | | g/hr | | | | | | | | 25000 | | | | | | | | | | | | | | | | |
| 133 | Beryllium | | g/hr | | | | | | | | 1 | | | | | | | | | | | | | | | | |
| 134 | Cadmium | | g/hr | | | | | | | | 1.3 | | | | | | | | | | | | | | | | |
| 135 | Lead | | g/hr | | | | | | | | 45 | | | | | | | | | | | | | | | | |
| 136 | Mercury | | g/hr | | | | | | | | 150 | | | | | | | | | | | | | | | | |
| 137 | Silver | | g/hr | | | | | | | | 1500 | | | | | | | | | | | | | | | | |
| 138 | Thallium | | g/hr | | | | | | | | 250 | | | | | | | | | | | | | | | | |

US EPA ARCHIVE DOCUMENT

| | AA | AB | AC | AD | AE | AF | AG | AH | AI | AJ | AK | AL | AM | AN | AO | AP | AQ | AR | AS | AT | AU | AV | AW | AX | AY | AZ | BA | |
|-----|-----|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-------|-----|-------|-----|-------|-----|-------|----|--|
| 121 | 25 | 11.9 | | | | | | | | | | | | | | | | | 25 | 11.9 | 27 | 11.7 | 24 | 12.1 | 25 | 11.9 | | |
| 122 | 100 | 0.9 | | | | | | | | | | | | | | | | | 100 | 0.8 | 100 | 0.9 | 100 | 0.8 | 100 | 0.9 | | |
| 123 | 100 | 5.9 | | | | | | | | | | | | | | | | | 100 | 5.4 | 100 | 5.8 | 100 | 6.5 | 100 | 5.9 | | |
| 124 | 0 | 169.3 | | | | | | | | | | | | | | | | | 0 | 205.8 | 0 | 174.3 | 0 | 127.9 | 0 | 169.3 | | |
| 125 | | | | | | | | | | | | | | | | | | | 39 | 11.1 | 44 | 10.3 | 81 | 8.7 | 53 | 10.0 | | |
| 126 | 53 | 10.0 | | | | | | | | | | | | | | | | | 2 | 222.4 | 52 | 36.2 | 64 | 30.6 | 15 | 96.4 | | |
| 127 | 15 | 96.4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 128 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 129 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 131 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 132 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 133 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 134 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 135 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 136 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 137 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 138 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | A | B | C |
|----|------------------------------|------------|--------------|
| 1 | Process Information | | |
| 2 | | | |
| 3 | 845C1 | Trial burn | Cond Avg |
| 4 | | | Liquid waste |
| 5 | Comb Temp | °F | 2591.6 |
| 6 | Prod Rate | Mlb/hr | 37.97 |
| 7 | T-214 Scrubber Effluent pH | pH | 8.56 |
| 8 | T-214 Scrubber Effluent Flow | gpm | 54.2 |
| 9 | T-214 Recycle Pressure | psig | 25.95 |
| 10 | T-214 Scrubber L/G | gal/Macf | 21.5 |
| 11 | | | |
| 12 | 845C2 | Trial burn | Cond Avg |
| 13 | | | |
| 14 | Comb Temp | °F | 1973.6 |
| 15 | Prod Rate | Mlb/hr | 30.1 |
| 16 | T-214 Scrubber Effluent pH | pH | 9.54 |
| 17 | T-214 Scrubber Effluent Flow | gpm | 68.4 |
| 18 | T-214 Recycle Pressure | psig | 25.95 |
| 19 | T-214 Scrubber L/G | gal/Macf | 24.9 |
| 20 | | | |
| 21 | 845C3 | Risk burn | Cond Avg |
| 22 | | | |
| 23 | Comb Temp | °F | 2357.6 |
| 24 | Prod Rate | Mlb/hr | 31.2 |
| 25 | T-214 Scrubber Effluent pH | pH | 9.52 |
| 26 | T-214 Scrubber Effluent Flow | gpm | 71.05 |
| 27 | T-214 Recycle Pressure | psig | 29.88 |
| 28 | T-214 Scrubber L/G | gal/Macf | 24.91 |

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R |
|----|--------------------------------|--|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 | PCDD/PCDF | | | | | | | | | | | | | | | | |
| 2 | N | | | | | | | | | | | | | | | | |
| 3 | Facility Name and ID: | Dow Chemical Company, Freeport, TX | | | | | | | | | | | | | | | |
| 4 | Condition ID: | 845C3 | | | | | | | | | | | | | | | |
| 5 | Condition/Test Date: | Risk burn, above normal operating of liq waste feed rate, normal comb temp, April 14, 1998 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | Detected in sample volume (pg) | | | | | | | | | | | | | | | | |
| 12 | 2,3,7,8-TCDD | 1 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 13 | Total TCDD | 0 | 110 | 0 | 110 | 0 | 110 | 0 | 110 | 0 | 110 | 0 | 110 | 0 | 110 | 0 | 110 |
| 14 | 1,2,3,7,8-PCDD | 0.5 | 20 | 10 | 20 | 10 | 20 | 10 | 20 | 10 | 20 | 10 | 20 | 10 | 20 | 10 | 20 |
| 15 | Total PCDD | 0 | 170 | 0 | 170 | 0 | 170 | 0 | 170 | 0 | 170 | 0 | 170 | 0 | 170 | 0 | 170 |
| 16 | 1,2,3,4,7,8-HxCDD | 0.1 | 74 | 7 | 74 | 7 | 74 | 7 | 74 | 7 | 74 | 7 | 74 | 7 | 74 | 7 | 74 |
| 17 | 1,2,3,6,7,8-HxCDD | 0.1 | 50 | 5 | 50 | 5 | 50 | 5 | 50 | 5 | 50 | 5 | 50 | 5 | 50 | 5 | 50 |
| 18 | 1,2,3,7,8,9-HxCDD | 0.1 | 19 | 2 | 19 | 2 | 19 | 2 | 19 | 2 | 19 | 2 | 19 | 2 | 19 | 2 | 19 |
| 19 | Total HxCDD | 0 | 440 | 0 | 440 | 0 | 440 | 0 | 440 | 0 | 440 | 0 | 440 | 0 | 440 | 0 | 440 |
| 20 | 1,2,3,4,6,7,8-HpCDD | 0.01 | 640 | 6 | 640 | 6 | 640 | 6 | 640 | 6 | 640 | 6 | 640 | 6 | 640 | 6 | 640 |
| 21 | Total HpCDD | 0.001 | 1100 | 0 | 1100 | 0 | 1100 | 0 | 1100 | 0 | 1100 | 0 | 1100 | 0 | 1100 | 0 | 1100 |
| 22 | OCDD | 0.001 | 8600 | 9 | 8600 | 9 | 8600 | 9 | 8600 | 9 | 8600 | 9 | 8600 | 9 | 8600 | 9 | 8600 |
| 23 | 2,3,7,8-TCDF | 0.1 | 330 | 33 | 330 | 33 | 330 | 33 | 330 | 33 | 330 | 33 | 330 | 33 | 330 | 33 | 330 |
| 24 | Total TCDF | 0 | 1700 | 0 | 1700 | 0 | 1700 | 0 | 1700 | 0 | 1700 | 0 | 1700 | 0 | 1700 | 0 | 1700 |
| 25 | 1,2,3,7,8-PCDF | 0.05 | 610 | 31 | 610 | 31 | 610 | 31 | 610 | 31 | 610 | 31 | 610 | 31 | 610 | 31 | 610 |
| 26 | 2,3,4,7,8-PCDF | 0.5 | 430 | 215 | 430 | 215 | 430 | 215 | 430 | 215 | 430 | 215 | 430 | 215 | 430 | 215 | 430 |
| 27 | Total PCDF | 0 | 3200 | 0 | 3200 | 0 | 3200 | 0 | 3200 | 0 | 3200 | 0 | 3200 | 0 | 3200 | 0 | 3200 |
| 28 | 1,2,3,4,7,8-HxCDF | 0.1 | 2500 | 250 | 2500 | 250 | 2500 | 250 | 2500 | 250 | 2500 | 250 | 2500 | 250 | 2500 | 250 | 2500 |
| 29 | 1,2,3,6,7,8-HxCDF | 0.1 | 1300 | 130 | 1300 | 130 | 1300 | 130 | 1300 | 130 | 1300 | 130 | 1300 | 130 | 1300 | 130 | 1300 |
| 30 | 2,3,4,6,7,8-HxCDF | 0.1 | 720 | 72 | 720 | 72 | 720 | 72 | 720 | 72 | 720 | 72 | 720 | 72 | 720 | 72 | 720 |
| 31 | 1,2,3,7,8,9-HxCDF | 0.1 | 270 | 27 | 270 | 27 | 270 | 27 | 270 | 27 | 270 | 27 | 270 | 27 | 270 | 27 | 270 |
| 32 | Total HxCDF | 0 | 14000 | 0 | 14000 | 0 | 14000 | 0 | 14000 | 0 | 14000 | 0 | 14000 | 0 | 14000 | 0 | 14000 |
| 33 | 1,2,3,4,6,7,8-HpCDF | 0.01 | 32000 | 320 | 32000 | 320 | 32000 | 320 | 32000 | 320 | 32000 | 320 | 32000 | 320 | 32000 | 320 | 32000 |
| 34 | 1,2,3,4,7,8,9-HpCDF | 0.01 | 3700 | 37 | 3700 | 37 | 3700 | 37 | 3700 | 37 | 3700 | 37 | 3700 | 37 | 3700 | 37 | 3700 |
| 35 | Total HCDF | 0 | 51000 | 0 | 51000 | 0 | 51000 | 0 | 51000 | 0 | 51000 | 0 | 51000 | 0 | 51000 | 0 | 51000 |
| 36 | OCDF | 0.001 | 150000 | 150 | 150000 | 150 | 150000 | 150 | 150000 | 150 | 150000 | 150 | 150000 | 150 | 150000 | 150 | 150000 |
| 37 | Gas sample volume (dscl) | | 134.18 | 134.18 | 134.18 | 134.18 | 134.18 | 134.18 | 134.18 | 134.18 | 134.18 | 134.18 | 134.18 | 134.18 | 134.18 | 134.18 | 134.18 |
| 38 | O2 (%) | | 11.90 | 11.90 | 11.90 | 11.90 | 11.90 | 11.90 | 11.90 | 11.90 | 11.90 | 11.90 | 11.90 | 11.90 | 11.90 | 11.90 | 11.90 |
| 39 | | | | | | | | | | | | | | | | | |
| 40 | PCDD/PCDF (pg in sample) | | 1310.80 | 230320.0 | 1310.80 | 1310.80 | 1310.80 | 1310.80 | 1310.80 | 1310.80 | 1310.80 | 1310.80 | 1310.80 | 1310.80 | 1310.80 | 1310.80 | 1310.80 |
| 41 | PCDD/PCDF (ng/dscm @ 7% O2) | 0.0 | 0.53 | 93.32 | 0.53 | 93.32 | 0.53 | 93.32 | 0.53 | 93.32 | 0.53 | 93.32 | 0.53 | 93.32 | 0.53 | 93.32 | 0.53 |
| 42 | | | | | | | | | | | | | | | | | |
| 43 | TEQ Cond Avg | | 0.51 | 76.40 | 0.51 | 76.40 | 0.51 | 76.40 | 0.51 | 76.40 | 0.51 | 76.40 | 0.51 | 76.40 | 0.51 | 76.40 | 0.51 |
| 44 | Total Cond Avg | | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 | 76.40 |