

| | B | C |
|----|--------------------------------------|---|
| 1 | Source Description | |
| 2 | | |
| 3 | Phase I ID No. | 808 |
| 4 | EPA ID No. | LAD008187080 |
| 5 | Facility Name | Dow Chemical Co. |
| 6 | Facility Location | |
| 7 | City | Plaquemine |
| 8 | State | LA |
| 9 | Unit ID Name/No. | I-200 (not I-300?) |
| 10 | Other Sister Facilities | None |
| 11 | Number of Sister Facilities | 0 |
| 12 | Combustor Class | Onsite incinerator |
| 13 | Combustor Type | Rotary kiln |
| 14 | Combustor Characteristics | Rotary kiln with afterburner |
| 15 | Capacity (MMBtu/hr) | |
| 16 | Soot Blowing | |
| 17 | APCS Detailed Acronym | QT/PBS/WESP |
| 18 | APCS General Class | WQ, LEWS, WESP |
| 19 | APCS Characteristics | Quench tower, packed bed scrubber, wet electrostatic precipitator |
| 20 | Hazardous Wastes | liq,solid,sludge |
| 21 | Haz Waste Description | HW sludge.solid,liquid |
| 22 | Supplemental Fuel | Natural gas, oil |
| 23 | | diesel |
| 24 | Stack Characteristics | |
| 25 | Diameter (ft) | 4.0 |
| 26 | Height (ft) | 100.0 |
| 27 | Gas Velocity (ft/sec) | 15.2 |
| 28 | Gas Temperature (°F) | 143.0 |
| 29 | | |
| 30 | Permitting Status | |
| 31 | HWC Burn Status (Date if Terminated) | |

| | B | C |
|----|------------------------------|--|
| 1 | Condition Description | |
| 2 | | |
| 3 | 808C1 | |
| 4 | | |
| 5 | Report Name/Date | Dow Chemical Trial Burn Report for Rotary Kiln, Prepared by Dow Chemical, Plaquemine, Louisiana, February 10, 1998 |
| 6 | Report Prepare | Dow Chemical |
| 7 | Testing Firm | Dow Chemical |
| 8 | Cond Descr | Trial burn, LOW HEATING/LOW TEMP |
| 9 | Testing Dates | Nov 17-18, 1987 |
| 10 | Cond Dates | Nov-87 |
| 11 | | |
| 12 | 808C2 | |
| 13 | | |
| 14 | Report Name/Date | Dow Chemical Trial Burn Report for Rotary Kiln, Prepared by Dow Chemical, Plaquemine, Louisiana, February 10, 1998 |
| 15 | Report Prepare | Dow Chemical |
| 16 | Testing Firm | Dow Chemical |
| 17 | Cond Descr | Trial burn, HIGH HEATING/HIGH TEMP |
| 18 | Testing Dates | Nov 19-20, 1987 |
| 19 | Cond Dates | Nov-87 |

| | B | C | D | E | F | G | H | I | J | K | L | M |
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| 1 | Stack Gas Emissions 2 | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | 808C1 | | | | | R1 | | R2 | | R3 | | Cond Avg |
| 5 | | | | | | | | | | | | |
| 6 | PM | E1 | gr/dscf | y | | 0.0596 | | 0.0134 | | 0.0089 | | 0.0273 |
| 7 | CO (RA) | E1 | ppmv | y | | 487.2 | | 29.1 | | 89.1 | | 201.8 |
| 8 | HCl | E1 | ppmv | y | | 0.9 | | 0.3 | | 0.7 | | 0.64 |
| 9 | Total Chlorine | E1 | ppmv | y | | 0.9 | | 0.3 | | 0.7 | | 0.64 |
| 10 | HBr | E1 | ppmv | y | | 21.8 | | 19.2 | | 25.8 | | |
| 11 | | | | | | | | | | | | |
| 12 | Sampling Train | PM/Halogens | E1 | | | | | | | | | |
| 13 | Stack Gas Flowrate | | dscfm | | | 29167.0 | | 26850.0 | | 26717.0 | | |
| 14 | O2 | | % | | | 13.5 | | 13.3 | | 13.3 | | |
| 15 | Moisture | | % | | | 19.5 | | 16.0 | | 16.5 | | |
| 16 | Temperature | | °F | | | 135.0 | | 128.0 | | 130.0 | | |
| 17 | | | | | | | | | | | | |
| 18 | Carbon Tetrachloride | DRE | % | | | 99.99952 | | 99.99997 | | 99.99992 | | |
| 19 | o-Dichlorobenzene | DRE | % | | | 99.99912 | | 99.99997 | | 99.99953 | | |
| 20 | Tetrachloroethylene | DRE | % | | | 99.99216 | | 99.99999 | | 99.99984 | | |
| 21 | | | | | | | | | | | | |
| 22 | 808C2 | | | | | R1 | | R2 | | R3 | | Cond Avg |
| 23 | | | | | | | | | | | | |
| 24 | PM | E1 | gr/dscf | y | | 0.0067 | | 0.0082 | | 0.0178 | | 0.0109 |
| 25 | CO (RA) | E1 | ppmv | y | nd | 12.0 nd | | 12.5 nd | | 13.6 | | 12.6860 |
| 26 | HCl | E1 | ppmv | y | | 0.1 | | 0.6 | | 0.1 | | 0.28 |
| 27 | Total Chlorine | E1 | ppmv | y | | 0.1 | | 0.6 | | 0.1 | | 0.28 |
| 28 | HBr | E1 | ug/dscm | y | | 1.1 | | 13.1 | | 21.3 | | |
| 29 | | | | | | | | | | | | |
| 30 | Sampling Train | PM/Halogens | E1 | | | | | | | | | |
| 31 | Stack Gas Flowrate | | dscfm | | | 24217.0 | | 24300.0 | | 24183.0 | | |
| 32 | O2 | | % | | | 9.3 | | 9.8 | | 10.7 | | |
| 33 | Moisture | | % | | | 26.2 | | 27.6 | | 25.6 | | |
| 34 | Temperature | | °F | | | 144.0 | | 146.0 | | 139.0 | | |
| 35 | | | | | | | | | | | | |
| 36 | Carbon Tetrachloride | DRE | % | | | 99.99974 | | 99.99959 | | 99.99979 | | |
| 37 | o-Dichlorobenzene | DRE | % | | | 99.99997 | | 99.99972 | | 99.99976 | | |
| 38 | Tetrachloroethylene | DRE | % | | | 99.99995 | | 99.99998 | | 99.99993 | | |

| | AJ | AL | AN | AO | AP | AC | AR | AS | AT | AUJ | AV | AVI | AX | AY | AZ | BA | BB | BC | BD | BE | BF | BG | BH |
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| | C | D | E | F | G |
|----|------------------------------|---|------|------|------|
| 1 | Process Information 2 | | | | |
| 2 | | | | | |
| 3 | 808C1 | | R1 | R2 | R3 |
| 4 | | | | | |
| 5 | Kiln Temperature | F | 1170 | 1276 | 1276 |
| 6 | Afterburner Temperature | F | 1619 | 1673 | 1653 |
| 7 | WS pH | | 5.13 | 5.14 | 5.14 |
| 8 | | | | | |
| 9 | 808C2 | | R1 | R2 | R3 |
| 10 | | | | | |
| 11 | Kiln Temperature | F | 1491 | 1532 | 1504 |
| 12 | Afterburner Temperature | F | 2007 | 2039 | 2011 |
| 13 | WS pH | | 5.21 | 5.55 | 5.52 |

| | C | D | E | F | G | H | I | J | K | L |
|----|-----------------|------------------|-----|------------------|--------------------------|---------------|------|------------------|--------------------------|---------------|
| 1 | 808C1 | | | | | | | | | |
| 2 | | | | | | | | | | |
| 3 | ng/dscm | | | | | | | | | |
| 4 | | I-TEF Wt Fact | | Total Full ND | Run 1 Total 1/2 ND | TEQ 1/2 ND | | Total Full ND | Run 2 Total 1/2 ND | TEQ 1/2 ND |
| 5 | 4D 2378 | 1 | | 0.018 | 0.018 | 0.018 | | 0.035 | 0.018 | 0.018 |
| 6 | 4D Other | 0 | | 1.473 | 1.473 | 0.000 | | 1.784 | 1.473 | 0.000 |
| 7 | 4D Total | 0 | | 1.491 | 1.491 | 0.000 | | 1.818 | 1.491 | 0.000 |
| 8 | 5D 12378 | 0.5 | nd | 0.073 | 0.073 | 0.036 | nd | 0.073 | 0.036 | 0.018 |
| 9 | 5D Other | 0 | | 0.036 | 0.036 | 0.000 | | 0.218 | 0.036 | 0.000 |
| 10 | 5D Total | 0 | | 0.109 | 0.109 | 0.000 | | 0.291 | 0.109 | 0.000 |
| 11 | 6D 123478 | 0.1 | nd | 0.091 | 0.091 | 0.009 | nd | 0.073 | 0.045 | 0.005 |
| 12 | 6D Other | 0 | | 0.000 | 0.000 | 0.000 | | 0.000 | 0.000 | 0.000 |
| 13 | 6D Total | 0 | nd | 0.091 | 0.091 | 0.000 | nd | 0.073 | 0.045 | 0.000 |
| 14 | 7D 1234678 | 0.01 | nd | 0.145 | 0.145 | 0.001 | nd | 0.109 | 0.073 | 0.001 |
| 15 | 7D Other | 0 | | 0.000 | 0.000 | 0.000 | | 0.000 | 0.000 | 0.000 |
| 16 | 7D Total | 0 | nd | 0.145 | 0.145 | 0.000 | nd | 0.109 | 0.073 | 0.000 |
| 17 | 8D | 0.001 | | 0.491 | 0.491 | 0.000 | | 0.618 | 0.491 | 0.000 |
| 18 | 4F 2378 | 0.1 | | 0.062 | 0.062 | 0.006 | | 0.098 | 0.062 | 0.006 |
| 19 | 4F Other | 0 | | 7.029 | 7.029 | 0.000 | | 7.538 | 7.029 | 0.000 |
| 20 | 4F Total | 0 | | 7.091 | 7.091 | 0.000 | | 7.636 | 7.091 | 0.000 |
| 21 | 5F 12378 | 0.5 | | 0.095 | 0.095 | 0.047 | | 0.131 | 0.095 | 0.047 |
| 22 | 5F Other | 0 | | 0.960 | 0.960 | 0.000 | | 1.687 | 0.960 | 0.000 |
| 23 | 5F Total | 0 | | 1.055 | 1.055 | 0.000 | | 1.818 | 1.055 | 0.000 |
| 24 | 6F 123478 | 0.1 | | 0.104 | 0.104 | 0.010 | | 0.200 | 0.104 | 0.010 |
| 25 | 6F Other | 0 | | 0.078 | 0.078 | 0.000 | | 0.418 | 0.078 | 0.000 |
| 26 | 6F Total | 0 | | 0.182 | 0.182 | 0.000 | | 0.618 | 0.182 | 0.000 |
| 27 | 7F 1234678 | 0.01 | | 0.109 | 0.109 | 0.001 | | 0.236 | 0.109 | 0.001 |
| 28 | 7F Other | 0 | | 0.000 | 0.000 | 0.000 | | 0.000 | 0.000 | 0.000 |
| 29 | 7F Total | 0 | | 0.109 | 0.109 | 0.000 | | 0.236 | 0.109 | 0.000 |
| 30 | 8F | 0.001 | nd | 0.418 | 0.418 | 0.000 | nd | 0.255 | 0.209 | 0.000 |
| 31 | Total PCDD/PCDF | | 0.0 | 11.182 | 11.182 | 0.131 | 79.4 | 13.473 | 10.855 | 0.107 |
| 32 | TEQ | | | 0.131 | | 0.131 | | 0.178 | | 0.107 |