Plume encounters that exhibited elevated levels of at least one of the three reactive bromine compounds (Br2, BrNO2, and BrCl). The times since emission were calculated assuming that the observed wind speed at the plume intercept location remained constant.

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| --- | --- | --- | --- | --- | --- | --- |
| Plume # | RF #  Date  Time (EST) | N2O5:SO2 (ppb:ppb)  mean N2O5 at edge (ppt)  R(N2O5 vs SO2) | Distance (km) and time (hrs) since emission | Plant(s) | Coal Type | SO2 control technology |
| 5 | RF 2  Feb. 6  17:02 | -1.0×10-4 ppb:ppb  10 ppt  -0.83 | 3.8 km  0.3 hrs | Gavin | Bituminous, subbituminous | Wet FGD |
| 6.0 km  0.4 hrs | Kyger | Bituminous, subbituminous | Wet FGD |
| 9 | RF 2  Feb. 6  18:25 | 8.0×10-4 ppb:ppb  29 ppt  0.73 | 11.9 km  0.4 hrs | Grant | Bituminous waste coal | No FGD  Reagent Injection |
| 35.6 km  1.3 hrs | Harrison | Bituminous | Wet Scrubbers |
| 14 | RF 7  Feb. 24  6:52 | -1.1×10-2 ppb:ppb  670 ppt  -0.85 | 11.3 km  0.7 hrs | Roxboro | Bituminous, subbituminous | Wet FGD |
| 22.5 km  1.3 hrs | CPI USA Roxboro | Bituminous,  Biomass | No FGD |
| 27.1 km  1.6 hrs | Mayo | Bituminous, subbituminous | Wet FGD |
| 16 | RF 9  Mar. 3  2:42 | -4.0×10-4 ppb:ppb  28 ppt  -0.34 | 18.0 km  0.9 hrs | Seward | bituminous  waste coal | Dry Scrubber (#1&2) |
| 19.1 km  1.0 hrs | Conemaugh | bituminous | Wet FGD |
| 35.8 km  1.8 hrs | Homer City | Bituminous | Dry FGD (Units 1&2)  Semi-dry FGD (Unit 3) |
| 54.7 km  2.8 hrs | Armstrong Power, LLC | natural gas / diesel | No FGD  Reagent Injection |
| 55.7 km  2.8 hrs | Keystone | bituminous | Wet FGD |
| 21 | RF 9  Mar. 3  4:29 | 2.0×10-4 ppb:ppb  86 ppt  0.10 | 54.2 km  8.2 hrs | Ebensburg | Waste coal (bituminous) | No FGD  Reagent Injection |
| 54.4 km  8.3 hrs | Cambria | Waste coal (bituminous) | No FGD  Reagent Injection |
| 42 | RF  Mar  3:35 | -7.1×10-3 ppb:ppb  618 ppt  -0.51 | 5.2 km  0.32 hrs | Harllee Branch | Bituminous | no FGD |
| 44 | RF 11  Mar. 9  16:00 | 0 ppb:ppb  2 ppt  -0.18 | 2.7 km  0.15 hrs | Homer City Generating Station | Bituminous | Dry FGD (Units 1&2)  Semi-dry FGD (Unit 3) |