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 #DateTime (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 2Feb. 617:02 | -1.0×10-4 ppb:ppb10 ppt-0.83 | 3.8 km0.3 hrs | Gavin | Bituminous, subbituminous | Wet FGD |
| 6.0 km0.4 hrs | Kyger | Bituminous, subbituminous | Wet FGD |
| 9 | RF 2Feb. 618:25 | 8.0×10-4 ppb:ppb29 ppt0.73 | 11.9 km0.4 hrs | Grant | Bituminous waste coal | No FGDReagent Injection |
| 35.6 km1.3 hrs | Harrison | Bituminous | Wet Scrubbers |
| 14 | RF 7Feb. 246:52 | -1.1×10-2 ppb:ppb670 ppt-0.85 | 11.3 km0.7 hrs | Roxboro | Bituminous, subbituminous | Wet FGD |
| 22.5 km1.3 hrs | CPI USA Roxboro | Bituminous,Biomass | No FGD |
| 27.1 km1.6 hrs | Mayo | Bituminous, subbituminous | Wet FGD |
| 16 | RF 9Mar. 32:42 | -4.0×10-4 ppb:ppb28 ppt-0.34 | 18.0 km0.9 hrs | Seward | bituminouswaste coal | Dry Scrubber (#1&2) |
| 19.1 km1.0 hrs | Conemaugh | bituminous | Wet FGD |
| 35.8 km1.8 hrs | Homer City | Bituminous | Dry FGD (Units 1&2)Semi-dry FGD (Unit 3) |
| 54.7 km2.8 hrs | Armstrong Power, LLC | natural gas / diesel | No FGDReagent Injection |
| 55.7 km2.8 hrs | Keystone | bituminous | Wet FGD |
| 21 | RF 9Mar. 34:29 | 2.0×10-4 ppb:ppb86 ppt0.10 | 54.2 km8.2 hrs | Ebensburg | Waste coal (bituminous) | No FGDReagent Injection |
| 54.4 km8.3 hrs | Cambria | Waste coal (bituminous) | No FGDReagent Injection |
| 42 | RF Mar 3:35 | -7.1×10-3 ppb:ppb618 ppt-0.51 | 5.2 km0.32 hrs | Harllee Branch | Bituminous | no FGD |
| 44 | RF 11Mar. 916:00 | 0 ppb:ppb2 ppt-0.18 | 2.7 km0.15 hrs | Homer City Generating Station | Bituminous | Dry FGD (Units 1&2)Semi-dry FGD (Unit 3) |