

NRC39562 – Explosive and Flammable Operations AST Descriptions

- AST2: Desktop review revealed an AST facility within 1 mile. Site reconnaissance by DEP found that the facility contains a 1,000-gallon diesel fuel tank (see reconnaissance report *NRC39562_ASTReconReport_SYSCO.pdf*). The ASD for tanks of this size and nature is 276.57 feet (ASDPPU). The actual distance calculated by the desk top tool was 5,143 feet. See location of the tank on *NCR39562_ASTMap2.pdf*. Upon measurement, the distance exceeded the necessary Acceptable Separation Distance (ASD). No further action necessary.
- AST3: Desktop review revealed an AST facility within 1 mile. Site reconnaissance by DEP found that the facility contains 6 fly ash storage silos, 5 of which have a capacity of 120 tons, and 1 has a capacity of 96 tons. The 96 ton capacity silo is currently not operational (see reconnaissance report *NRC39562_ASTReconReport_CEMEX.pdf*). While combustible dust is not covered by HUD's Acceptable Safe Distance Rule (24 CFR Part 51, Subpart C), fly ash is a very fine powdery material composed mostly of silica and presenting a potential for a dust explosion. The actual distance calculated by the desk top tool was 3,345 feet (see location of the tank on *NCR39562_ASTMap3.pdf*). Moreover, a highway, rail yard, and various structures are located between the two sites. Upon measurement, this distance is expected to exceed the necessary separation distance to ensure public safety. No further action is necessary.