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Analysis of Cyclone Collection Efficiency

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***Abstract.** Particle motion in the cyclone outer vortex was analyzed in this paper to establish the force balance differential equation. The Barth's "static particle" theory combined with the force balance equation was applied in the theoretical analyses for the models of cyclone cut-point and collection probability distribution in the cyclone outer vortex. Cyclone cut-points for different dusts were traced from measured cyclone overall collection efficiencies and the theoretical model for calculating cyclone overall efficiency. The traced cut-points indicate that Barth's d_{50} model needs to be corrected for particle size distribution (PSD). The cut-point correction factors (K) for 1D3D and 2D2D cyclones were developed through regression fit from traced cut-points. The regression results also indicate that cut-points are more sensitive to mass median diameter (MMD) of PSD than to geometric standard deviation (GSD) of PSD. The theoretical overall efficiency model developed in this research can be used for cyclone total efficiency calculation with the corrected d_{50} and PSD.*

Keywords. Cyclone collection efficiency, cut-point, particle size distribution, mass median diameter, geometric standard deviation, cut-point correction factor

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