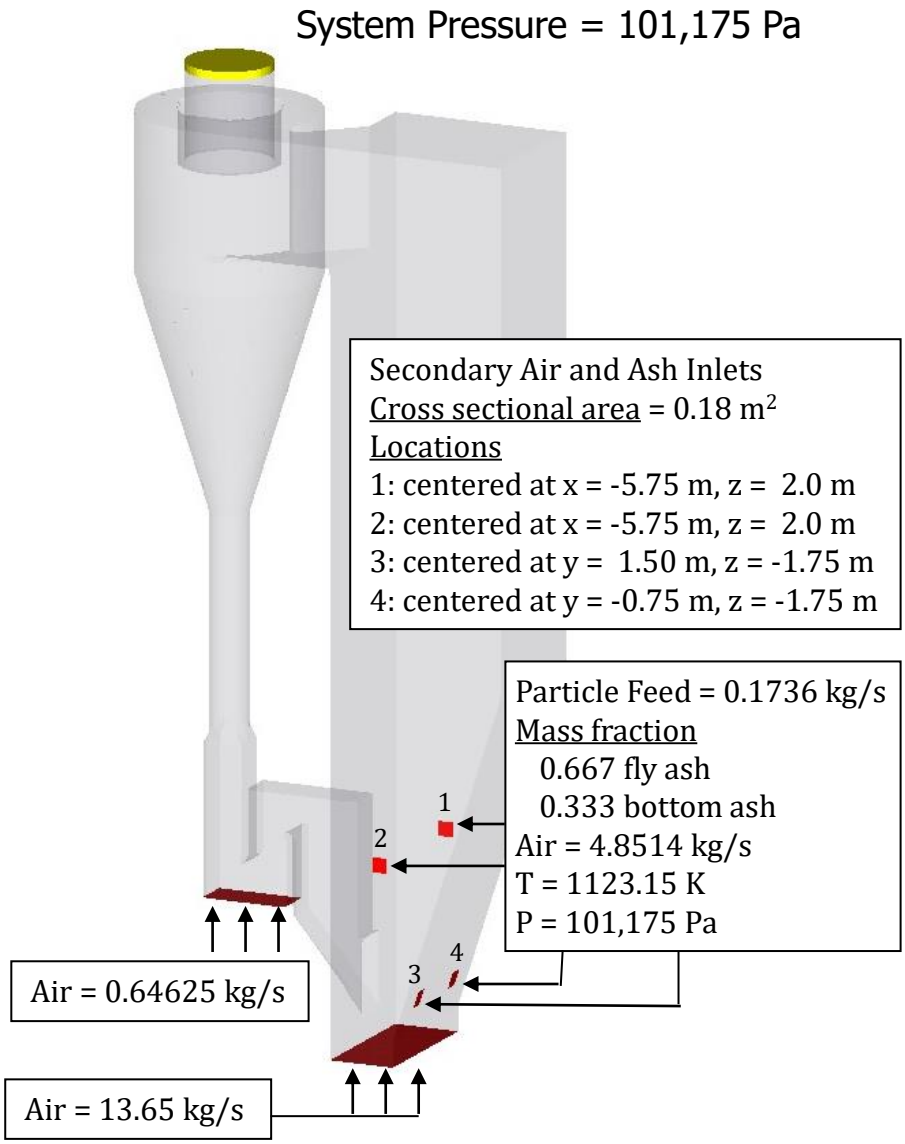
CFB Erosion Process Sheet



- Materials Required
  - Air, SiO_2, and Ash
- Particle Species
  - Sand (SiO_2): ρ = 2650 kg/m^3 and dp = 60 – 480 µm
  - Fly ash: ρ = 1500 kg/m^3 and dp = 10 – 480 µm
  - Bottom ash: ρ = 1500 kg/m^3 and dp = 18 – 2200 µm
  - Full PSD for each provided
  - Close pack volume fraction, Θ_{cp} = 0.55
- Model Assumptions
  - Isothermal flow at 1123.15 K
  - A simulation run time of 40 seconds should be sufficient to study erosion
  - Particles can exit through the cyclone outlet

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