

Today, we will:

- Discuss particle vs. steam plumes and how to distinguish them (Slides)
- Start talking about **particles** (sizes, shapes, terminology, classifications, etc.) (Slides)
- Introduce the concept of **number concentration** and various **mean particle diameters**

Summary Comparison of Steam Plumes vs. Smoke/Particle Plumes:

Steam plume	Particle (smoke) plume
well-defined boundaries	fuzzy boundaries (not well defined)
very white (like clouds)	can be various colors
ends abruptly	does not end – just slowly dissipates

See Powerpoint slides on course website. (Slides_Steam_vs_Particle.pdf)



This is a:

- Ⓐ Steam plume
- b. Particle/smoke plume
- c. Combination steam and smoke/particle plume ?

Particles (sizes, shapes, EPA definitions, how they move, how they interact with our lungs, how to remove them, etc.)

See Powerpoint slides on course website. (Slides_Particles.pdf)