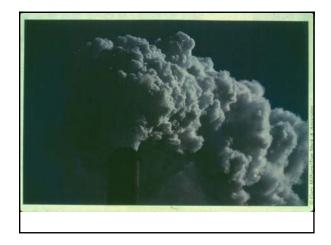
Steam Plumes

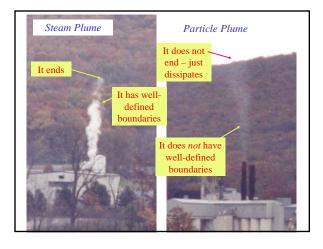
- Steam plumes are *not* regulated by the EPA or DEP
- The main problem with steam is that it is often confused with smoke/particle plumes
- We must learn to recognize steam plumes so we do not mistake them for smoke/particle plumes

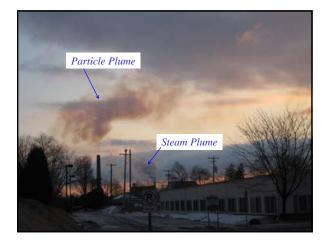


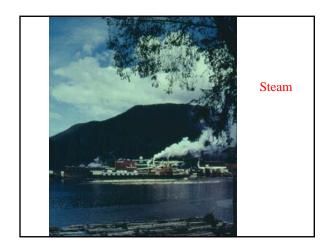


Characteristics of steam plumes

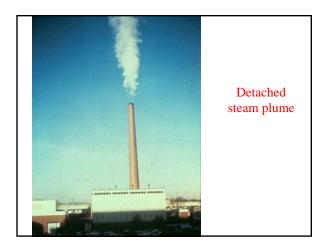
- Relatively sharp boundaries or edges
- · Very white, like clouds
- End abruptly (compared to particle plumes which can extend for miles just slowly dissipate)

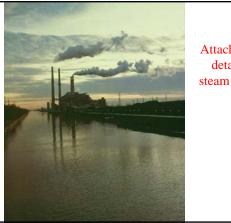




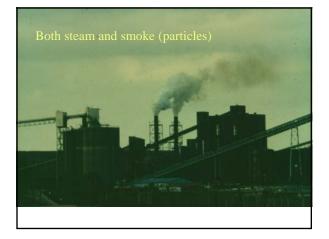






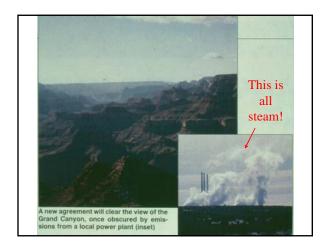


Attached and detached steam plumes



The media often mislead the public

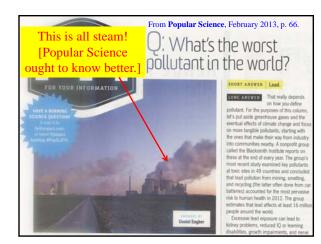
- TV reports, books, newspapers, magazines, and brochures often show *steam plumes* to illustrate *smoke plumes*!
- Why?
 - They (and the public) usually do not know the difference.
 - Steam plumes look more impressive (especially with the sun in back of the plume)
 - Smoke stack emissions have been cleaned up so much that it is hard to find good smoke plume pictures anymore.

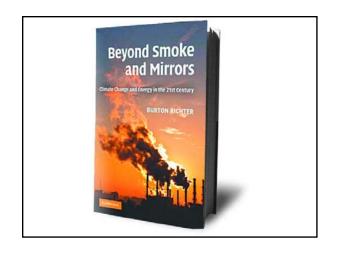




The Search for Clean Air

This program presents a clear, forceful, and thorough exposition of the problems of air pollution: its causes, its effects on forests, streams, and human health; and the issues involved in correcting the problems. Narnated by Walter Cronkite, the program shows the consequences of air pollution in Shenandoah National Park, the Adirondacks, New England, Ohio, Californi, Mexico, Canada, and Eastern Europe. The program includes interviews with academics and scientists from the EPA. Harvard School of Public Health, the U.S. Forest Service, and the National Park Service. All sides of the issues are expressed. Since nothing really meaningful will be done about cleaning up the air until ordinary Americans understand the problems and their consequences, this is a very important program. (57 minutes) © 1994. CINE Golden Eagle 54636 - 900-8t: IUS188-K5 - VHS: IDL5188-A





Examples – take a quiz!

Photographs of various plumes

Are they:

- Smoke/particle plume?
- Steam plume?
- Smoke/particle and steam plume?

