

Clean Diesel Workgroup

Diesel Particulate Matter and the Air Toxics Science Advisory Committee

July 19, 2016
Salem, Oregon

Air Benchmark Concentrations

- Protect human health and environment
- Air Toxics Rule adopted October 2003
 - Form an Air Toxics Science Advisory Committee (ATSAC)
 - Select ambient benchmark concentrations
 - Adopted as guidelines into rule
 - Support air program activities

Air Toxics Science Advisory Committee (ATSAC)

- First convened in 2004
- Related rulemaking 2006
- Ambient Benchmark Concentrations table 2010
- Reconvened 2015 to review ABCs
 - required by rule every 5 years
 - 11 meetings Dec. 2014 – Jan. 2016

Air Toxics Science Advisory Committee (ATSAC)

Technical science-based work only

Committee of seven volunteer outside experts:

Toxicology

Environmental science/environmental engineering

Risk assessment

Epidemiology/biostatistics

Medicine (physician) with experience in Public Health

Air pollution modeling, monitoring, meteorology, or engineering

Air Toxics Science Advisory Committee (ATSAC)

- Charged with using only toxicity data available from recognized agencies (e.g., IRIS, OEHHA, ASTDR) to make their recommendations
- Recommends ABC revisions or retentions to DEQ

ATSAC Review of Benchmarks

- Toxicity data is constantly changing, hence need for intermittent review of ABCs
- 52 standing benchmarks were considered for comprehensive toxicity information review; plus 4 new chemicals (phosgene; fluorides; n-propyl bromide, styrene)
- 27 of 52 needed review by the ATSAC, including the ABC for diesel particulate matter (DPM)

ATSAC Review of Current ABC for DPM

- In 2006, the ATSAC recommended 0.1 ug/m^3 , which was adopted by the EQC
- Considered but did not choose Cal Office of Environmental Health Hazard Assessment (OHHEA) Unit Risk Estimate value of 0.0003 per ug/m^3 at that time
- New qualitative information available since 2006, but no quantitative
- More in-depth review of Cal OEHHA value performed

ATSAC Review of Current ABC for DPM

- Majority of 3 of 11 meetings devoted to DPM toxicity information
- ATSAC has not yet made a recommendation
- For first time, an ATSAC member offered to prepare primary calculations for DPM toxicity; still pending

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