
From: Timothy A. French <TFrench@clpchicago.com>
Sent: Tuesday, November 29, 2016 2:37 PM **NOV 29 2016**
To: zzMSHA-Standards - Comments to Fed Reg Group
Subject: 1 of 2 - Exposure of Underground Miners to Diesel Exhaust; Request for Information (Docket No. MSHA-2014-0031)
Attachments: 1 OF 2 - Exposure of Underground Miners to Diesel Exhaust; RFI Docket No. MSHA 2014 0031.pdf

Please see the attached correspondence regarding MSHA's request for information on Exposure of Underground Miners to Diesel Exhaust (Docket No. MSHA-2014-0031).

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November 29, 2016

Via E-Rulemaking Portal and E-mail (zzMSHA-comments@dol.gov)

Sheila A. McConnell
Director, Office of Standards,
Regulations and Variances
Mine Safety and Health Administration
201 12th Street South, Suite 4E401
Arlington, Virginia 22202-5452

**Re: Exposure of Underground Miners to
Diesel Exhaust; Request for Information
(Docket No. MSHA-2014-0031)**

Dear Ms. McConnell:

In response to the Request for Information (RFI) that the Mine Safety and Health Administration (MSHA) initially published in the Federal Register on June 8, 2016 (*see* 81 FR 36826), seeking information relating to the “Exposure of Underground Miners to Diesel Exhaust,” the Truck and Engine Manufacturers Association (EMA) hereby submits copies of the following relevant peer-reviewed studies and related materials:

- (i) Constantini, et al., “The Advanced Collaborative Emissions Study (ACES) of 2007- and 2010-Emissions Compliant Heavy-Duty Diesel Engines: Characterization of Emissions and Health Effects,” *Emission Control Science and Technology*, 2016; 2:215-227.
- (ii) Crump, et al., “Influence of Alternative Exposure Estimates in the Diesel Exhaust Miners Study: Diesel Exhaust and Lung Cancer,” *Risk Analysis*, 2016; 36(9):1803-1812.
- (iii) Crump, et al., “Reanalysis of the DEMS Nested Case-Control Study of Lung Cancer and Diesel Exhaust: Suitability for Quantitative Risk Assessment,” *Risk Analysis*, 2015; 35(4):676-700.
- (iv) Crump, et al., “Evaluation of an Exposure Assessment Used in Epidemiological Studies of Diesel Exhaust and Lung Cancer in Underground Mines,” *Critical Reviews in Toxicology*, 2012; 42(7):599-612.

- (v) Moolgavkar, et al., "Diesel Engine Exhaust and Lung Cancer Mortality: Time-Related Factors in Exposure and Risk," *Risk Analysis*, 2015; 35(4):663-675.
- (vi) Morfeld, et al., "Diesel Exhaust and Lung Cancer Risks – Evaluation of the Meta-Analysis by Vermuelen et al. 2014," *Journal of Occupational Medicine and Technology*, 2015; 10(31):1-18.
- (vii) Khalek, et al., "Regulated and Unregulated Emissions from Modern 2010 Emissions-Compliant Heavy-Duty On-Highway Diesel Engines," *Journal of the Air and Waste Management Association*, 2015; 6(54): 987-1001.
- (viii) McClellan, et al., "Evaluation of Carcinogenic Hazard of Diesel Exhaust Needs to Consider Revolutionary Changes in Diesel Technology," *Regulatory Toxicology and Pharmacology*, 2012; 63:225-258.
- (ix) EMA Technical Memorandum, "Review of IARC Monograph 105," February 4, 2014.
- (x) IARC Review Stakeholders Group (IRSG), "A Global and Historical Perspective on the Exposure Characteristics of Traditional and New Technology Diesel Exhaust," CONCAWE, May 2012.
- (xi) HEI Correspondence, "HEI Submissions of Peer-Reviewed Science on Diesel Exhaust for Consideration in IARC Volume 105 Review," May 2, 2012.
- (xii) Hesterberg, et al., "Health Effects Research and Regulation of Diesel Exhaust: A Historical Overview Focused on Lung Cancer Risk," *Inhalation Toxicology*, 2012; 24(S1):1-45.
- (xiii) Gamble, et al., "Lung Cancer and Diesel Exhaust: An Updated Critical Review of the Occupational Epidemiology Literature," *Critical Reviews in Toxicology*, 2012; 42(7):549-598.

EMA appreciates the opportunity to submit the foregoing materials to the Docket for this matter, and we look forward to working with MSHA on the Diesel Exhaust Health Effects Partnership.

Very truly yours,


Timothy A. French