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Refuge Alternatives for Underground Coal Mines-Request for information

Comment On: MSHA-2013-0033-0019

Refuge Alternatives for Underground Coal Mines Request for information; extension of comment period.

Document: MSHA-2013-0033-0022

Comment from Christina Spring, National Institute for Occupational Safety and Health

Submitter Information

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Organization: National Institute for Occupational Safety and Health

General Comment

Comments from NIOSH are found in the attached pdf.

Attachments

NIOSH Response to MSHA Refuge RFI

AB79-COMM-8



Comments to MSHA

Comments of the National Institute for Occupational Safety and Health on the Mine Safety and Health Administration

Refuge Alternatives for Underground Coal Mines

Request for Information

RIN 1219—AB79

Department of Health and Human Services

Centers for Disease Control and Prevention

National Institute for Occupational Safety and Health

Cincinnati, Ohio

4/2/2015

In response to this Request for Information (RFI), NIOSH is addressing several of the requests through peer reviewed research. A series of publications are publicly available regarding refuge alternatives. The table below lists the publications related to the specific sections of the RFI.

In addition, ongoing research is being conducted in the following areas: heat and humidity for both mobile and built-in-place (BIP) refuge alternatives, air delivery systems and purging, cryogenic air supply, and human factors issues related to design of mobile and BIP refuge alternatives. The results of these studies and design criteria will be available in the form of Reports of Investigations (RIs), webinars, workshops, and journal articles from 2015 through 2017. A Refuge Alternative Partnership has been convened as a forum to enhance collaboration, communication, and research discussions for both mobile and BIP refuge alternatives. The partnership is comprised of representatives from industry, labor, MSHA, manufacturers, academia, and NIOSH.

Publication	Request	Reference
Multiple publications regarding training and escape	Section A: 1,2,3	Emergency Escape & Refuge Alternatives
		Pittsburgh, PA: U. S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2011-101, (IC 9525), 2010 Oct http://www.cdc.gov/niosh/mining/works/coversheet366.html
		Recommendations for Refuge Chamber Operations Training
		U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2011-178, NIOSH Report of Investigations 9683, 2011 June; :1-32 http://www.cdc.gov/niosh/mining/works/coversheet271.html
		Guidelines for Instructional Materials on Refuge Chamber Setup, Use, and Maintenance
		Pittsburgh, PA: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2009-148, Information Circular 9514, 2009 July; :1-33 http://www.cdc.gov/niosh/mining/works/coversheet498.html
		Harry's Hard Choices: Mine Refuge Chamber Training
		Pittsburgh, PA: U.S. Department of Health and Human Services, Public

Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH)
Publication No. 2009-122, Information Circular 9511, 2009 Mar.

<http://www.cdc.gov/niosh/mining/works/coversheet1838.html>

How to Operate a Refuge Chamber: A Quick Start Guide

Pittsburgh, PA: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH)
Publication No. 2011-100, Information Circular 9524, 2010 Oct; :1-14

<http://www.cdc.gov/niosh/mining/works/coversheet1695.html>

Man Mountain's Refuge: Refuge Chamber Training Instructor's Guide and Trainee's Problem Book

Pittsburgh, PA: U. S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH)
Publication No. 2011-195, RI 9685, 2011 Jul; :1-32

<http://www.cdc.gov/niosh/mining/works/coversheet1679.html>

Refuge Chamber Expectations Training

Pittsburgh, PA: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH)
Publication No. 2010-100, Information Circular 9516, 2009 Oct; :1-18

<http://www.cdc.gov/niosh/mining/works/coversheet455.html>

When Do You Take Refuge? Decision Making During Mine Emergency Escape

Pittsburgh, PA: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH)
Publication No. 2011-177C (RI 9682), August 2011;:1-45: CD-ROM

<http://www.cdc.gov/niosh/mining/works/coversheet1556.html>

Facilitating the Use of Built-In-Place Refuge Alternatives in Mines	Section B: 6,8,9,10 Section G: 25	Facilitating the Use of Built-in-place Refuge Alternatives in Mines Pittsburgh, PA: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2015-114 (RI 9698), 2015 Apr; :1-80 http://www.cdc.gov/niosh/mining/Works/coversheet1886.html
Investigation of Temperature Rise in Mobile Refuge Alternatives	Section F: 23	Investigation of Temperature Rise in Mobile Refuge Alternatives Pittsburgh, PA: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2014-117, (RI 9695), 2014 Mar; :1-63 http://www.cdc.gov/niosh/mining/Works/coversheet1874.html
Investigation of Purging and Airlock Contamination of Mobile Refuge Alternatives	Section H	Investigation of Purging and Airlock Contamination of Mobile Refuge Alternatives Pittsburgh, PA: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2014-116, (RI 9694), 2014 Mar; :1-51. http://www.cdc.gov/niosh/mining/Works/coversheet1873.html