



State of West Virginia
Earl Ray Tomblin, Governor

WV Office of Miners' Health, Safety & Training
Eugene White, Director
#7 Players Club Rd., Suite 2 • Charleston, West Virginia • 25311-1626
Telephone 304-558-1425 • Fax 304-558-1282
www.wyminesafety.org

May 7, 2013

Mr. David E. Maust
Vice President and General Manager
Strata Products Refuge Alternatives
Strata Safety, LLC
8995 Roswell Road NE, Suite 200
Sandy Springs, GA 30350

Subject: Additional Approvals of the Emergency Refuge Shelter™ under WV Legislative Rule Title 56, Series 4 Emergency Rules Governing Protective Clothing and Equipment

Sir,

Based upon the review of documents submitted and the acknowledgement of their adequacy by MSHA, the approval for the Strata Products (USA), Inc.'s Coal Mine Refuge Chamber™ is amended to acknowledge its meeting the conditions of West Virginia §56-4-8 (16) concerning the provision of consumables through meeting the requirements set forth at CFR 75.1507(d)(1).

Strata Products (USA), Inc. shall, upon request, provide this office with verification of valid orders, delivery dates, and status of delivery as required for this office to enforce §56-4-8.

Any changes required or enhancements to the approved design affecting the ability to meet any provision of §56-4-8 shall require approval of this Office prior to any affected the Coal Mine Refuge Chamber™ being placed into operation.

Sincerely,

A handwritten signature in black ink that reads "Eugene White".

Eugene White, Director
Office of Miners' Health and Safety



WHERE SAFETY IS SUCCESS.™

Howard Epperly
Chief, Applied Engineering Division
MSHA
Approval and Certification Center
765 Technology Drive
Triadelphia, WV 26059

Dear Howard,

The purpose of this letter is to confirm that the Minimum Stocking Schedule listed below for Strata Refuge Alternative conforms to the MSHA CFR 30, Part 7 requirements. All refuge alternatives will be stocked with the following quantities of food and potable water.

Minimum stocking levels per man per day:

Food- 2000 calories

Water- 2.25 quarts

Listed in the attached Master Supply Table is the proposed minimum stocking schedule based on the Strata model. Please note that these are minimum numbers and may be rounded up to reflect full case lots.

I would appreciate a confirmation that this proposed schedule meets the MSHA CFR 30 Part 7 requirements. Please feel free to contact me if you have any questions.

Respectfully Submitted,

**David
Maust**

Digitally signed by David Maust
DN: cn=David Maust,
email=dmaust@strataproducs.co
m, o=Strata Products Worldwide,
LLC
Date: 2013.04.17 16:55:50 -04'00'

David Maust
Vice President & General Manager
Strata Safety Refuge Alternatives

Strata Worldwide
Strata Safety Products, LLC

Master Supply Table

Minimum Stocking Requirements							
Model	A	B	T				X
	HR	Man Model	Days	Food, (2K/man-day), 2000 Calorie Bars	Quarts water per day per man	Total OZ of Water Required	Water, (2.25 Qt/man-day) 4.227 oz. Packet
MC36 (2013)	96	35	4	140	2.25	10080	2385
M36 (2013)	96	36	4	144	2.25	10368	2453
M36 (2013)	96	30	4	120	2.25	8640	2045
M26 (2013)	96	30	4	120	2.25	8640	2045
M26 (2013)	96	26	4	104	2.25	7488	1772
M26 (2013)	96	24	4	96	2.25	6912	1636
M26 (2013)	96	20	4	80	2.25	5760	1363
M16 (2013)	96	16	4	64	2.25	4608	1091
M16 (2013)	96	10	4	40	2.25	2880	682
M1016 LC (2013)	96	16	4	64	2.25	4608	1091
M1020LC (2013)	96	20	4	80	2.25	5760	1363
SSC (2013)	96	24	4	96	2.25	6912	1636
SSC (2013)	96	20	4	80	2.25	5760	1363



WHERE SAFETY IS SUCCESS.™

Randall Harris
Engineering Adviser
WV Office of Miners' Health, Safety & Training
#7 Players Club Rd
Suite 2
Charleston, West Virginia, 25311-1626

April 14, 2013

Dear Mr. Harris,

The purpose of this letter is to request that WVOMHST accept the MSHA, CFR 30 Part 7 consumables storage requirements for Refuge Alternatives in Refuge Alternatives currently approved under W VA Code R. 56-4-8.

Respectfully Submitted,

David
Maust

Digitally signed by David Maust
DN: cn=David Maust,
email=dmaust@strataproducts.co
m, o=Strata Products Worldwide,
LLC
Date: 2013.04.15 23:08:28 -0400

David Maust
Vice President & General Manager
Strata Safety Refuge Alternatives

Strata Worldwide
Strata Safety Products, LLC

FW: consumable requirements

David Maust [dmaust@strata-safety.com]

Sent: Monday, April 22, 2013 12:45 PM

To: Harris, Randy J; randall.j.harris@gmail.com

Attachments: MSHA Consumables Letter 4-~1.pdf (222 KB) ; WV Consumable Request 4-14~1.pdf (181 KB)

Randy

Attached is the letter to Howard Epperly regarding confirmation that our proposed consumable packaging plans meet MSHA requirements. Below is Howards confirmation. I have attached our original letter your Howard, as well as our request to WVOMSHT. We would appreciate acceptance, by WVOMSHT, of the MSHA consumable standards as outlined in the attached correspondence. Feel free to contact me if you have any questions or require additional information.

Thanks.

Dave

David Maust

Vice President & General Manager

Strata Safety Refuge Alternatives

Strata Worldwide

Strata Safety Products, LLC

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STRATA_Signature



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From: Epperly, Howard C - MSHA [mailto:Epperly.Howard@dol.gov]

Sent: Monday, April 22, 2013 12:34 PM

To: David Maust

Cc: Harris, Randy J; Shemon, Gary J - MSHA

Subject: consumable requirements

The water and food for refuge alternatives are requirements under CFR 30, part 75 and are not specified in the Part 7 approval requirements. Moreover the language from the Part 7 refuge alternative rule states:

“Refuge alternatives also must include provisions for communications, lighting, sanitation, food, water, and first aid. These provisions must be approved in the ERP.”

FW: consumable requirements

The Strata chambers used by underground coal operators would need to meet the 75.1507 (d) (1) requirements as per below:

(d) The ERP shall specify that the refuge alternative is stocked with the following:

(1) A minimum of **2,000 calories of food** and **2.25 quarts of potable water per person per day** in approved containers sufficient to sustain the maximum number of persons reasonably expected to use the refuge alternative for at least 96 hours, or for 48 hours if advance arrangements are made under paragraph (c) of this section;

Dave, please note that provisions such as communications, lighting, food, water, sanitation, first aid, parts and materials for repair, and tools, etc., must be replaced within 5 years, if shelf life limits so require.

We did confirm your calculations for the various chambers do match the water quantities required in part 75.

From: David Maust [<mailto:dmaust@strata-safety.com>]

Sent: Thursday, April 18, 2013 8:04 AM

To: Epperly, Howard C - MSHA

Subject: consumable requirements

Good Morning Howard

I have been discussing, with Randy Harris, the possibility of WV aligning their water requirement with the federal standards. I have attached a letter outlining our packaging supply table for your review and comment. I also attached my spreadsheet so you can easily check the formulas used to develop the table. Please note that this is the minimum packing requirement and may, at times, be rounded up to the next full case lot. Once I have your responding confirmation, I plan to forward it to Randy.

Thanks

Dave

David Maust

Vice President & General Manager

Strata Safety Refuge Alternatives

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