REFUGE ALTERNATIVES AND REFUGE ALTERNATIVE COMPONENTS

APPROVED UNDER PART 7

	COMPLETE REFUGE		
Approval Holder	ALTERNATIVE	Date Issued	Description
			·
	BREATHABLE AIR		
Approval Holder	COMPONENT	Date Issued	Description
			Model HBA 100, Alternate
Hubble Breathable Air	Breathable Air	09/07/2011	Models HBA75&HBA 250
Strata Safety Products	Breathable Air	09/20/2012	Model BA-MC3635
			FAB Model BA-M1020LC
Strata Safety Products	Breathable Air	07/12/2013	and BA-M1016LC
			FAB Model BA-M3636 and
Strata Safety Products	Breathable Air	07/12/2013	BA-M3630
			FAB Model BA-M2630, BA- M2626, BA-M2624, and BA-
Strata Safety Products	Breathable Air	07/12/2013	M2620
	2.000.00.00.00.00	0171272010	FAB Model BA-M1616, BA-
Strata Safety Products	Breathable Air	07/12/2013	M1610, and BA-M1618
`	Droothoblo Air	09/06/2012	4042-35BA, Breathable Air
	Dreathable All	06/06/2013	Component Breathable Air Component
	Breathable Air	10/31/2013	Model CS-BAS7-24-CB
MineARC Systems			Breathable Air Component
America, LLC	Breathable Air	11/30/18	Model CS-BAS&-12-CB
			Extension of Breathable Air
A I Lee Corporation	Breathahle Δir	11/01/2013	Component Model 4042-30 BA
A.L. Lee Corporation	Dieathable All	11/01/2013	Models 4042-34, 4042-30,
			4042-26, 4042-22, 4042-18,
			4042-14, 4042-10, 4042-7,
			4042-3, 3236-30, 3236-26,
			3236-22, 3236-18, 3236-14,
			3236-10, 3236-7, 3236-3, 2428-20, 2428-18, 2428-16,
		1	2428-14, 2428-10, 2428-7,
ChemBio Shelter, Inc.	Breathable Air	12/09/2013	and 2428-3
			Breathable Air Component
Ctrata Cafati Dradust-	Droothabla Air	12/00/2012	Model BA-SSC24 and
ž	Dreamable Alf	12/09/2013	BA-SSC24-61.75
Shield, LLC)	Breathable Air	12/10/2013	Model CF200A
	Approval Holder Hubble Breathable Air Strata Safety Products A.L. Lee Corporation (Transferred to Strata Safety Products) MineARC Systems America, LLC MineARC Systems America, LLC A.L. Lee Corporation ChemBio Shelter, Inc. Strata Safety Products MineShield, LLC (Transferred to Eagle	Approval Holder Hubble Breathable Air Strata Safety Products A.L. Lee Corporation (Transferred to Strata Safety Products) MineARC Systems America, LLC MineARC Systems America, LLC Breathable Air A.L. Lee Corporation Breathable Air Breathable Air	Approval Holder Approval Holder Approval Holder BREATHABLE AIR COMPONENT Date Issued Breathable Air Strata Safety Products Breathable Air Strata Safety Products Breathable Air O7/12/2013 Breathable Air O8/06/2013 MineARC Systems America, LLC MineARC Systems America, LLC Breathable Air Date Issued D9/07/2011 Strata Safety Products Breathable Air D7/12/2013 T0/12/2013 Breathable Air D1/31/2013 Breathable Air D1/30/18 Date Issued D9/07/2011 D7/12/2013

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07-LCA130018	MineARC Systems	Breathable Air	12/13/2013	Breathable Air Component Model CS-BAS7-12-CR
07-LCA130016	America, LLC	breathable All	12/13/2013	Extension of Breathable Air
	A.L. Lee Corporation (Transferred to Strata			Component
07-LCA130007-2	Safety Products)	Breathable Air	12/17/2013	Model 3236-30BA
07-LOA 130007-2	A.L. Lee Corporation	Breatriable All	12/11/2013	Extension of Breathable Air
	(Transferred to Strata			Component
07-LCA130007-3	Safety Products)	Breathable Air	12/17/2013	Model 3236-25
	A.L. Lee Corporation		,,	Extension of Breathable Air
	(Transferred to Strata			Component
07-LCA130007-4	` Safety Products)	Breathable Air	12/18/2013	Model 2428-20
				Extension of Breathable Air
				Component
				Model BA-SSC24, for use
07-LCA130017-1	Strata Safety Products	Breathable Air	12/27/2013	with Modern Mine
	MineARC Systems			Breathable Air Component
07-LCA140002	America, LLC	Breathable Air	01/24/2014	CS-BAS7-24-ECB
07.1.0.4.40005	Jack Kennedy Metal	Donath Library	00/40/0044	Breathable Air Component
07-LCA140005	Products & Building, Inc.	Breathable Air	02/12/2014	MPRC-H20-8234.79-FC
	MineShield, LLC			Extension of Breathable Air
07-LCA130020-1	(Transferred to Eagle Shield, LLC)	Breathable Air	05/05/2014	Component Model CF204A
07-LCA130020-1	MineShield, LLC	Diedilable All	03/03/2014	Extension of Breathable Air
	(Transferred to Eagle			Component
07-LCA130020-2	Shield, LLC)	Breathable Air	05/13/2014	Model CF227B
0. 20. 1.00020 2	, ===/	2.00.0.02.0 /	00/10/2011	
07-LCA140008				Breathable Air Component
RETIRED	Trinity Resources, LLC	Breathable Air	05/22/2014	Model TR03-BA
	MineShield, LLC			Extension of Breathable Air
	(Transferred to Eagle			Component
07-LCA130020-3	Shield, LLC)	Breathable Air	05/23/2014	Model CF207F
	MineShield, LLC			Extension of Breathable Air
	(Transferred to Eagle			Component
07-LCA130020-4	Shield, LLC)	Breathable Air	06/12/2014	Model CF211F
	1 10 1000			Extension of Breathable Air
07-LCA140002-1	MineARC Systems	Breathable Air	06/17/2014	Component Model CS-BAS7-8-ECB
07-LCA140002-1	America, LLC MineShield, LLC	Dreathable All	00/17/2014	Extension of Breathable Air
	(Transferred to Eagle			Component
07-LCA130020-5	Shield, LLC)	Breathable Air	06/19/2014	Model CF209A
07 207(100020 0	MineShield, LLC	Broathable 7th	00/10/2011	Extension of Breathable Air
	(Transferred to Eagle			Component
07-LCA130020-6	Shield, LLC)	Breathable Air	06/30/2014	Model CF220A
	RT Welding and			Breathable Air Component
07-LCA140013	Fabrication Inc.	Breathable Air	07/01/2014	Model RTW-BAC-16
				BA-Cincy Blower System
				Breathable Air Component
07-LCA140015	Alliance Coal, LLC	Breathable Air	07/10/2014	15psi type
				BA-Roots Blower System
07.1.04.4.55.5		Б	0=11015511	Breathable Air Component
07-LCA140016	Alliance Coal, LLC	Breathable Air	07/10/2014	15psi type
	la ale IZ a sa a ale a Marena			Extension of Breathable Air
071004400054	Jack Kennedy Metal	Droothabla Air	07/10/2014	Component
07-LCA140005-1	Products & Building, Inc.	Breathable Air	07/18/2014	Model MPRC-H20-8235.5-C

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				Extension of Breathable Air
				Component
	Jack Kennedy Metal			Model MPRC-H16D7155-
07-LCA140005-2	Products & Building, Inc.	Breathable Air	07/18/2014	FC
				Extension of Breathable Air
	Jack Kennedy Metal			Component
07-LCA140005-3	Products & Building, Inc.	Breathable Air	07/18/2014	Model MPRC-H16-8195-A
				Extension of Breathable Air
				Component
	Jack Kennedy Metal			Model MPRC-H22D7175-
07-LCA140005-4	Products & Building, Inc.	Breathable Air	07/18/2014	FC
	MineShield, LLC			Extension of Breathable Air
	(Transferred to Eagle			Component
07-LCA130020-7	Shield, LLC)	Breathable Air	07/25/2014	Model CF226A
	MineShield, LLC			Extension of Breathable Air
	(Transferred to Eagle			Component
07-LCA130020-8	Shield, LLC)	Breathable Air	08/06/2014	Model CF206A
	MineShield, LLC			Extension of Breathable Air
	(Transferred to Eagle			Component
07-LCA130020-9	Shield, LLC)	Breathable Air	08/20/2014	Model CF210A
	MineShield, LLC			Extension of Breathable Air
	(Transferred to Eagle			Component
07-LCA130020-10	Shield, LLC)	Breathable Air	08/26/2014	Model CF201A
	MineShield, LLC			Extension of Breathable Air
	(Transferred to Eagle			Component
07-LCA130020-11	` Shield, LLC)	Breathable Air	08/29/2014	Model CF208A
	BHP Billiton (San Juan			
	Coal Company)			
	(Transferred to San Juan			
	Mine 1, a subsidiary of			
	Westmoreland Coal			Breathable Air Component
07-LCA140019	Company)	Breathable Air	08/29/2014	Model BIP-BAC-01
	MineShield, LLC			Extension of Breathable Air
	(Transferred to Eagle			Component
07-LCA130020-12	Shield, LLC)	Breathable Air	09/8/2014	Model CF227A
	MineShield, LLC			Extension of Breathable Air
	(Transferred to Eagle			Component
07-LCA130020-13	Shield, LLC)	Breathable Air	09/11/2014	Model CF208B
	MineShield, LLC			Extension of Breathable Air
	(Transferred to Eagle			Component
07-LCA130020-14	Shield, LLC)	Breathable Air	09/18/2014	Model CF207A
	MineShield, LLC			Extension of Breathable Air
	(Transferred to Eagle			Component
07-LCA130020-15	Shield, LLC)	Breathable Air	10/02/2014	Model CF224F
	MineShield, LLC			Extension of Breathable Air
	(Transferred to Eagle			Component
07-LCA130020-16	Shield, LLC)	Breathable Air	10/21/2014	Model CF228A
	Blue Mountain Energy			Air Monitoring Component
07-LCA140022	Inc.	Breathable Air	10/21/2014	Model BME-BA-IB-1
	MineShield, LLC			Extension of Breathable Air
	(Transferred to Eagle			Component
07-LCA130020-17	Shield, LLC)	Breathable Air	10/23/2014	Model CF211A
	MineShield, LLC			Extension of Breathable Air
07-LCA130020-18	(Transferred to Eagle	Breathable Air	10/28/2014	Component

	Shield, LLC)			Model CF216A
	MineShield, LLC			Extension of Breathable Air
	(Transferred to Eagle			Component
07-LCA130020-19	` Shield, LLC)	Breathable Air	10/29/2014	Model CF217A
07-LCA150001-0	Blue Mountain Energy Inc., Deserado Mine	Breathable Air	1/15/2015	Breathable Air Component Model BME-BA-IC-1
07-LCA150002	Signal Peak Energy, LLC	Breathable Air	9/22/2015	Breathable Air Component Model SPE BA490-0001
		HARMFUL GAS		
A		REMOVAL	B.G. Issued	Bereitetter
Approval Number	Approval Holder	COMPONENT	Date Issued	Description FAB Model HGR-MC3635,
07-LCA130002	Strata Safety Products	Harmful Gas Removal	03/22/2013	Includes Monel fittings
07-LPA130002	ChemBio Shelter, Inc.	Harmful Gas Removal	04/22/2013	Scrubber Curtains only - Part # 100019
07-LPA130003	Micropore Inc.	Harmful Gas Removal	05/17/2013	Scrubber curtains only Model OM-1203K
				Models HGR-M2630, HGR-
07-LCA130008	Strata Safety Products	Harmful Gas Removal	08/06/2013	M2626, HGR-M2624 and HGR-M2620
07-LCA130009	Strata Safety Products	Harmful Gas Removal	08/06/2013	Models HGR-M1020LC and HGR-M1016LC
07 207110000	Otrata Garety Froducto	Tidilliai Cao Nolliovai	00/00/2010	Models HGR-M1616, and
07-LCA130010	Strata Safety Products	Harmful Gas Removal	08/06/2013	HGR-M1610
07-LCA130011	Strata Safety Products	Harmful Gas Removal	08/06/2013	Models HGR-M3636 and HGR-M3630
07 207(100011	Otrata Garety Froducto	Tidilliai Cao Nolliovai	00/00/2010	Harmful Gas Removal
				Component
07-LCA130012	ChemBio Shelter, Inc.	Harmful Gas Removal	08/05/2013	Model Number 4042-34
				OM-0608K Partial Harmful
				Gas Removal Component,
07-LPA130005-0	Micropore Inc.	Harmful Gas Removal	08/14/2013	Scrubber Curtains Only
	A.L. Lee Corporation (Transferred to Strata			Harmful Gas Removal Component
07-LCA130013	Safety Products)	Harmful Gas Removal	09/24/2013	Model 4042-35 HGR
07 207 (100010	Carety (reducto)	Tiaimai Cao Itomovai	00/21/2010	Extension of Harmful Gas
				Removal Component
07-LCA130012-1	ChemBio Shelter, Inc.	Harmful Gas Removal	10/28/2013	Model 4042-30
				Extension of Harmful Gas
07 1 0 4 4 0 0 0 4 0 0	OhamaDia Olaalii oo loo	Hamaful O Day	40/00/0040	Removal Component
07-LCA130012-2	ChemBio Shelter, Inc.	Harmful Gas Removal	10/28/2013	Model 4042-26 Extension of Harmful Gas
				Removal Component
07-LCA130012-3	ChemBio Shelter, Inc.	Harmful Gas Removal	10/28/2013	Model 4042-22
				Extension of Harmful Gas
				Removal Component
07-LCA130012-4	.ChemBio Shelter, Inc.	Harmful Gas Removal	10/28/2013	Model 4042-18
				Extension of Harmful Gas
07-LCA130012-5	ChemBio Shelter, Inc.	Harmful Gas Removal	10/28/2013	Removal Component Model 4042-14
07-LCA130012-5 07-LCA130012-6	ChemBio Shelter, Inc.	Harmful Gas Removal	10/28/2013	Extension of Harmful Gas
U1-LUA 130012-0	Chembio Sheller, Inc.	Hammul Gas Removal	10/20/2013	Extension of Harmin Gas

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				Removal Component Model 4042-10
				Extension of Harmful Gas
				Removal Component
07-LCA130012-7	ChemBio Shelter, Inc.	Harmful Gas Removal	10/28/2013	Model 4042-7
				Extension of Harmful Gas
07.1.04.400040.0			40/00/0040	Removal Component
07-LCA130012-8	ChemBio Shelter, Inc.	Harmful Gas Removal	10/28/2013	Model 4042-3
	Mino ABC Systems			Harmful Gas Removal Component Model
07-LCA130015	MineARC Systems America, LLC	Harmful Gas Removal	11/06/2013	CS-HGR7-24-CB
07-20/(100010	A.L. Lee Corporation	Tiarifful Gas Removal	11/00/2010	Extension of Harmful Gas
	(Transferred to Strata			Removal Component
07-LCA130013-1	Safety Products)	Harmful Gas Removal	11/07/2013	Model 4042-30 HGR
	A.L. Lee Corporation			Extension of Harmful Gas
	(Transferred to Strata			Removal Component
07-LCA130013-2	Safety Products)	Harmful Gas Removal	12/17/2013	Model 3236-30 HGR
	A.L. Lee Corporation			Extension of Harmful Gas
	(Transferred to Strata			Removal Component
07-LCA130013-3	Safety Products)	Harmful Gas Removal	12/17/2013	Model 3236-25 HGR
				Harmful Gas Removal
				Component Model HGR-SSC24 and
07-LCA130023	Strata Safety Products	Harmful Gas Removal	12/17/2013	HGR-SSC24-61.75
07-20/4100020	Girata Garety Froducts	Tiarifful Gas Removal	12/11/2010	11011-00024-01:70
	A.L. Lee Corporation			Extension of Harmful Gas
	(Transferred to Strata			Removal Component
07-LCA130013-4	Safety Products)	Harmful Gas Removal	12/18/2013	Model 2428-20 HGR
	, ,			Harmful Gas Removal
	MineARC Systems			Component Model
07-LCA130019	America, LLC	Harmful Gas Removal	12/24/2013	CS-HGR7-12-CR
				Extension of Harmful Gas
07 04400040 0	Ob and Dia Ob altan Juan	Hamaful Can Damanal	40/04/0040	Removal Component
07-LCA130012-9	ChemBio Shelter, Inc.	Harmful Gas Removal	12/24/2013	Model 3236-30
				Extension of Harmful Gas
07 1 0 4 4 2 0 0 4 2 4 0	Chara Dia Chaltar Ina	Harraful Cas Damayal	40/04/0040	Removal Component
07-LCA130012-10	ChemBio Shelter, Inc.	Harmful Gas Removal	12/24/2013	Model 3236-26 Extension of Harmful Gas
				Removal Component
07-LCA130012-11	ChemBio Shelter, Inc.	Harmful Gas Removal	12/24/2013	Model 3236-22
07 207(100012 11	Grieffible Cheler, me.	Tidifficial Cac Fromoval	12/2 1/2010	Widdi 0200 22
				Extension of Harmful Gas
				Removal Component
07-LCA130012-12	ChemBio Shelter, Inc.	Harmful Gas Removal	12/24/2013	Model 3236-18
				Extension of Harmful Gas
07.1.04.400040.40	01 5: 01 11 1		40/04/0040	Removal Component
07-LCA130012-13	ChemBio Shelter, Inc.	Harmful Gas Removal	12/24/2013	Model 3236-14
				Extension of Harmful Gas Removal Component
07-LCA130012-14	ChemBio Shelter, Inc.	Harmful Gas Removal	12/24/2013	Model 3236-10
07-20/130012-14	GHEHIDIO OHEREI, IIIC.	Hallillul Ods Nellioval	12/24/2013	Extension of Harmful Gas
				Removal Component
07-LCA130012-15	ChemBio Shelter, Inc.	Harmful Gas Removal	12/24/2013	Model 3236-7
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07-LPA140003	Venture Design Services, Inc.	Harmful Gas Removal	06/03/2014	Harmful Gas Removal Component Model VDS2780B
07-LCA140009	Alliance Coal, LLC	Harmful Gas Removal	06/02/2014	Model HGR-Cincy/Roots Harmful Gas Removal Component
07-LCA130026-3	MineShield, LLC (Transferred to Eagle Shield, LLC)	Harmful Gas Removal	05/23/2014	Extension of Harmful Gas Removal Component Model CF207F
07-LCA130026-2	MineShield, LLC (Transferred to Eagle Shield, LLC)	Harmful Gas Removal	05/13/2014	Extension of Harmful Gas Removal Component Model CF227B
07-LCA130026-1	MineShield, LLC (Transferred to Eagle Shield, LLC)	Harmful Gas Removal	05/05/2014	Extension of Harmful Gas Removal Component Model CF204A
07-LCA140004 RETIRED	Trinity Resources, LLC	Harmful Gas Removal	04/28/2014	Harmful Gas Removal Component TR03-HGR
07-LCA140003	MineARC Systems America, LLC	Harmful Gas Removal	03/19/2014	Harmful Gas Removal Component Model CS-HGR7-24-ECB
07-LCA130026	MineShield, LLC (Transferred to Eagle Shield, LLC)	Harmful Gas Removal	12/30/2013	Model CF200A
07-LCA130023-1	Strata Safety Products	Harmful Gas Removal	12/27/2013	Extension of Harmful Gas Removal Component Model HGR-SSC24
07-LCA130012-23	ChemBio Shelter, Inc.	Harmful Gas Removal	12/26/2013	Extension of Harmful Gas Removal Component Model 2428-3
07-LCA130012-22	ChemBio Shelter, Inc.	Harmful Gas Removal	12/26/2013	Extension of Harmful Gas Removal Component Model 2428-7
07-LCA130012-21	ChemBio Shelter, Inc.	Harmful Gas Removal	12/26/2013	Extension of Harmful Gas Removal Component Model 2428-10
07-LCA130012-20	ChemBio Shelter, Inc.	Harmful Gas Removal	12/26/2013	Extension of Harmful Gas Removal Component Model 2428-14
07-LCA130012-19	ChemBio Shelter, Inc.	Harmful Gas Removal	12/26/2013	Extension of Harmful Gas Removal Component Model 2428-16
07-LCA130012-18	ChemBio Shelter, Inc.	Harmful Gas Removal	12/26/2013	Extension of Harmful Gas Removal Component Model 2428-18
07-LCA130012-17	ChemBio Shelter, Inc.	Harmful Gas Removal	12/26/2013	Extension of Harmful Gas Removal Component Model 2428-20
07-LCA130012-16	ChemBio Shelter, Inc.	Harmful Gas Removal	12/24/2013	Extension of Harmful Gas Removal Component Model 3236-3

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07-LCA130026-4	MineShield, LLC (Transferred to Eagle Shield, LLC)	Harmful Gas Removal	06/12/2014	Extension of Harmful Gas Removal Component Model CF211F
	, ,			Partial Harmful Gas
	Paragon Space			Removal Component
07-LPA140002	Development Corp.	Harmful Gas Removal	06/17/2014	Model 506400058-001
	MineShield, LLC			Extension of Harmful Gas
	(Transferred to Eagle			Removal Component
07-LCA130026-5	Shield, LLC)	Harmful Gas Removal	06/19/2014	Model CF209A
	, -,			Extension of Harmful Gas
				Removal Component
07-LCA140003-1	MineARC Systems, LLC	Harmful Gas Removal	06/20/2014	Model CS-HGR7-8-ECB
				Harmful Gas Removal
07.1.0.4.4004.4	RT Welding and	Hameful Oak Barrand	07/04/0044	Component
07-LCA140014	Fabrication Inc.	Harmful Gas Removal	07/01/2014	Model RTW-HGRC-16 Extension of Harmful Gas
	MineShield, LLC (Transferred to Eagle			Removal Component
07-LCA130026-6	Shield, LLC)	Harmful Gas Removal	06/30/2014	Model CF220A
07 2071100020 0	Ginera, EEG)	Traillian Cao Frontoval	00/00/2011	Harmful Gas Removal
	Jack Kennedy Metal			Component
07-LCA140011	Products & Building, Inc.	Harmful Gas Removal	07/18/2014	MPRC-H20-8234.79-FC
				Harmful Gas Removal
	Jack Kennedy Metal			Component
07-LCA140011-1	Products & Building, Inc.	Harmful Gas Removal	07/24/2014	Model MPRC-H20-8235.5-C
	la ale IZanna adec Mastal			Harmful Gas Removal
07-LCA140011-2	Jack Kennedy Metal	Harmful Gas Removal	07/24/2014	Component Model MPRC-H16D7155-FC
07-LCA140011-2	Products & Building, Inc.	Hallilul Gas Rellioval	07/24/2014	Harmful Gas Removal
	Jack Kennedy Metal			Component
07-LCA140011-3	Products & Building, Inc.	Harmful Gas Removal	07/24/2014	Model MPRC-H16-8195-A
	3,			Harmful Gas Removal
	Jack Kennedy Metal			Component
07-LCA140011-4	Products & Building, Inc.	Harmful Gas Removal	07/24/2014	ModelMPRC-H22D7175-FC
	MineShield, LLC			Extension of Harmful Gas
	(Transferred to Eagle			Removal Component
07-LCA130026-7	Shield, LLC)	Harmful Gas Removal	07/25/2014	Model CF226A
	MineShield, LLC			Extension of Harmful Gas
	(Transferred to Eagle			Removal Component
07-LCA130026-8	Shield, LLC)	Harmful Gas Removal	08/06/2014	Model CF206A
	MineShield, LLC (Transferred to Eagle			Extension of Harmful Gas Removal Component
07-LCA130026-9	Shield, LLC)	Harmful Gas Removal	08/20/2014	Model CF210A
07 2071100020 0	MineShield, LLC	Tidiffidi Gdo Removal	00/20/2014	Extension of Harmful Gas
	(Transferred to Eagle			Removal Component
07-LCA130026-10	Shield, LLC)	Harmful Gas Removal	08/26/2014	Model CF201A
	MineShield, LLC			Extension of Harmful Gas
	(Transferred to Eagle			Removal Component
07-LCA130026-11	Shield, LLC)	Harmful Gas Removal	08/29/2014	Model CF208A
	BHP Billiton (San Juan			
	Coal Company) (Transferred to San Juan			
	Mine 1, a subsidiary of			Harmful Gas Removal
	Westmoreland Coal			Component
07-LCA140018	Company)	Harmful Gas Removal	08/29/2014	Model BIP-HGR-01

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	MineShield, LLC			Extension of Harmful Gas
07.1.04.400000.40	(Transferred to Eagle		00/0/0044	Removal Component
07-LCA130026-12	Shield, LLC)	Harmful Gas Removal	09/8/2014	Model CF227A
	MineShield, LLC			Extension of Harmful Gas
	(Transferred to Eagle			Removal Component
07-LCA130026-13	Shield, LLC)	Harmful Gas Removal	09/11/2014	Model CF208B
	MineShield, LLC			Extension of Harmful Gas
	(Transferred to Eagle			Removal Component
07-LCA130026-14	Shield, LLC)	Harmful Gas Removal	09/18/2014	Model CF207A
	MineShield, LLC			Extension of Harmful Gas
	(Transferred to Eagle			Removal Component
07-LCA130026-15	Shield, LLC)	Harmful Gas Removal	10/02/2014	Model CF224A
	MineShield, LLC			Extension of Harmful Gas
	(Transferred to Eagle			Removal Component
07-LCA130026-16	Shield, LLC)	Harmful Gas Removal	10/21/2014	Model CF228A
				Harmful Gas Removal
	Blue Mountain Energy			Component
07-LCA140021	Inc.	Harmful Gas Removal	10/21/2014	Model BME-HGR-1
	MineShield, LLC			Extension of Harmful Gas
	(Transferred to Eagle			Removal Component
07-LCA130026-17	Shield, LLC)	Harmful Gas Removal	10/23/2014	Model CF211A
	MineShield, LLC			Extension of Harmful Gas
	(Transferred to Eagle			Removal Component
07-LCA130026-18	Shield, LLC)	Harmful Gas Removal	10/28/2014	Model CF216A
	MineShield, LLC			Extension of Harmful Gas
	(Transferred to Eagle			Removal Component
07-LCA130026-19	Shield, LLC)	Harmful Gas Removal	10/29/2014	Model CF217A
	Signal Peak Energy,			
07-LCA160002	L.L.C.	Harmful Gas Removal	05/09/16	Model SPE HG490-0001
		AIR MONITORING		
Approval Number	Approval Holder	COMPONENT	Date Issued	Description
				MX6/SP6 IBRID Partial Air-
07-LPA130006	Industrial Scientific Corp.	Air-Monitoring	09/11/2013	Monitoring Component
				Air-Monitoring Component
07-LCA130016	Strata Safety Products	Air-Monitoring	11/22/2013	Model AM101
07 2071100010	Cirata Caroty i roducto	7 th Wiermeening	11/22/2010	Models 4042-34, 4042-30,
				4042-26, 4042-22, 4042-18,
				4042-14, 4042-10, 4042-7,
				4042-14, 4042-10, 4042-7, 4042-3, 3236-30, 3236-26,
				3236-22, 3236-18, 3236-14,
				3236-10, 3236-7, 3236-3,
				2428-20, 2428-18, 2428-16,
				2428-14, 2428-10, 2428-7,
07-LCA130022	ChemBio Shelter, Inc.	Air-Monitoring	12/12/2013	and 2428-3
01-20/130022	A.L. Lee Corporation	All-Mollitoling	12/12/2013	and 2420-0
	(Transferred to Strata			Air-Monitoring Component
07.1.0.1.0000.1		Air-Monitoring	12/23/2013	Model RC40-32-24 GM
1 11/ 1 (1/1 211111/				
07-LCA130024	Safety Products)	All-iviorilloring	12/23/2013	
07-LCA130024 07-LCA130025	MineShield, LLC (Transferred to Eagle	Air-Monitoring	12/26/2013	Air-Monitoring Component Model CF200A

	Shield, LLC)			
	·			Extension of Air-Monitoring
07.1.00400040.4	Otroto Cofety Duodusta	Air Marritania	40/07/0040	Component
07-LCA130016-1	Strata Safety Products MineARC Systems	Air-Monitoring	12/27/2013	Model AM101 Air Monitoring Component
07-LCA140001	America, LLC	Air-Monitoring	01/17/2014	Model CS-AMC7
	, -	<u> </u>		Air-Monitoring Component
07-LPA140001-0	Trolex, Ltd.	Air-Monitoring	03/26/2014	TX6377
07-LCA140006 RETIRED	Trinity Resources, LLC	Air-Monitoring	04/08/2014	Air-Monitoring Component TR03-AM
KETIKED	Triffity Resources, LLC	All-ivioriitoring	04/06/2014	
07-LCA140007	Alliance Coal, LLC	Air-Monitoring	04/08/2014	AM-Cincy/Roots Air- Monitoring Component
07 2071110007	MineShield, LLC	7 til Worldoning	0 1/00/2011	Extension of Air-Monitoring
	(Transferred to Eagle			Component
07-LCA130025-1	Shield, LLC)	Air-Monitoring	05/05/2014	Model CF204A
	MineShield, LLC			Extension of Air-Monitoring
07-LCA130025-2	(Transferred to Eagle Shield, LLC)	Air-Monitoring	05/13/2014	Component Model CF227B
07-LCA130023-2	, ,	All-Worldoning	03/13/2014	
	MineShield, LLC (Transferred to Eagle			Extension of Air-Monitoring Component
07-LCA130025-3	Shield, LLC)	Air-Monitoring	05/23/2014	Model CF207F
	MineShield, LLC	<u> </u>		Extension of Air-Monitoring
	(Transferred to Eagle			Component
07-LCA130025-4	Shield, LLC)	Air-Monitoring	06/12/2014	Model CF211F
	MineShield, LLC			Extension of Air-Monitoring
07-LCA130025-5	(Transferred to Eagle Shield, LLC)	Air-Monitoring	06/19/2014	Component Model CF209A
01-LON100020-0	Officia, ELO)	All-Worldoning	00/13/2014	WIGGET OF 200A
	RT Welding and			Air Monitoring Component
07-LCA140010	Fabrication Inc.	Air-Monitoring	06/27/2014	Model RTW-RA-AMC
	MineShield, LLC			Extension of Air-Monitoring
07-LCA130025-6	(Transferred to Eagle Shield, LLC)	Air-Monitoring	06/30/2014	Component Model CF220A
07 2071100020 0	,	7 iii Moriitoriiig	00/00/2011	
07 0 0 4 4 0 0 4 0	Jack Kennedy Metal	A to B A costs outs on	07/40/0044	Air Monitoring Component
07-LCA140012	Products & Building, Inc. MineShield, LLC	Air-Monitoring	07/18/2014	Model MPRC-AM1 Extension of Air-Monitoring
	(Transferred to Eagle			Component
07-LCA130025-7	Shield, LLC)	Air-Monitoring	07/25/2014	Model CF226A
	MineShield, LLC			Extension of Air-Monitoring
	(Transferred to Eagle			Component
07-LCA130025-8	Shield, LLC)	Air-Monitoring	08/06/2014	Model CF206A
	MineShield, LLC (Transferred to Eagle			Extension of Air-Monitoring Component
07-LCA130025-9	Shield, LLC)	Air-Monitoring	08/20/2014	Model CF210A
2. 23.1.03020 0	MineShield, LLC		22,20,2011	Extension of Air-Monitoring
	(Transferred to Eagle			Component
07-LCA130025-10	Shield, LLC)	Air-Monitoring	08/26/2014	Model CF201A
	MineShield, LLC			Extension of Air-Monitoring
07-LCA130025-11	(Transferred to Eagle Shield, LLC)	Air-Monitoring	08/29/2014	Component Model CF208A
07-LCA140017	BHP Billiton (San Juan	Air-Monitoring Air-Monitoring	08/29/2014	Air-Monitoring Component
01-20/140011	וווע וווע וווע וווע וווע וווע	All-INIOTHOTHIS	00/23/2014	All-Monitoring Component

			FAB Model S-M2624 and
Approval Holder	STRUCTURAL COMPONENT	Date Issued	Description
Signal Peak Energy, LLC	Air-Monitoring	2/25/2016	Model SPE AM490-0001
Strata Safety Products	Air-Monitoring	11/4/2014	Extension of Air-Monitoring Component Model AM101
MineShield, LLC (Transferred to Eagle Shield, LLC)	Air-Monitoring	10/29/2014	Extension of Air-Monitoring Component Model CF217A
MineShield, LLC (Transferred to Eagle Shield, LLC)	Air-Monitoring	10/28/2014	Extension of Air-Monitoring Component Model CF216A
(Transferred to Eagle Shield, LLC)	Air-Monitoring	10/23/2014	Extension of Air-Monitoring Component Model CF211A
MineShield, LLC (Transferred to Eagle Shield, LLC)	Air-Monitoring	10/21/2014	Extension of Air-Monitoring Component Model CF228A
Blue Mountain Energy Inc.	Air-Monitoring	10/21/2014	Breathable Air Component Model BME-AM-1
MineShield, LLC (Transferred to Eagle Shield, LLC)	Air-Monitoring	10/02/2014	Extension of Air-Monitoring Component Model CF224A
MineShield, LLC (Transferred to Eagle Shield, LLC)	Air-Monitoring	09/18/2014	Extension of Air-Monitoring Component Model CF207A
MineShield, LLC (Transferred to Eagle Shield, LLC)	Air-Monitoring	09/11/2014	Extension of Air-Monitoring Component Model CF208B
Venture Design Services, Inc.	Air-Monitoring	09/09/2014	Air Monitoring Component Model VDS2758
MineShield, LLC (Transferred to Eagle Shield, LLC)	Air-Monitoring	09/8/2014	Extension of Air-Monitoring Component Model CF227A
(Transferred to San Juan Mine 1, a subsidiary of Westmoreland Coal			Model BIP-AMC-01
	Mine 1, a subsidiary of Westmoreland Coal Company) MineShield, LLC (Transferred to Eagle Shield, LLC) Venture Design Services, Inc. MineShield, LLC (Transferred to Eagle Shield, LLC) MineShield, LLC (Transferred to Eagle Shield, LLC) MineShield, LLC (Transferred to Eagle Shield, LLC) Blue Mountain Energy Inc. MineShield, LLC (Transferred to Eagle Shield, LLC) Strata Safety Products Signal Peak Energy, LLC	(Transferred to San Juan Mine 1, a subsidiary of Westmoreland Coal Company) MineShield, LLC (Transferred to Eagle Shield, LLC) Venture Design Services, Inc. MineShield, LLC (Transferred to Eagle Shield, LLC) Air-Monitoring Strata Safety Products Air-Monitoring Strata Safety Products Air-Monitoring Strata Safety Products Air-Monitoring Strata Safety Products Air-Monitoring	(Transferred to San Juan Mine 1, a subsidiary of Westmoreland Coal Company) MineShield, LLC (Transferred to Eagle Shield, LLC) Venture Design Services, Inc. MineShield, LLC (Transferred to Eagle Shield, LLC) Air-Monitoring MineShield, LLC (Transferred to Eagle Shield, LLC) Air-Monitoring MineShield, LLC (Transferred to Eagle Shield, LLC)

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07 1 0 4 1 7 0 0 0 2	Strata Safaty Draduata	Ctructural	6/2/2017	FAB Model S-M3636,
07-LCA170002	Strata Safety Products	Structural	6/2/2017	S-MC3635, S-M3630
07-LCA170003	Strata Safety Products	Structural	6/15/2017	FAB Model S-M1618
07-LCA170004	Strata Safaty Braduata	Structural	6/27/2017	FAB Model S-M1020 and S-M1016
	Strata Safety Products			
07-LCA170005	Eagle Shield, LLC	Structural	10/23/2017	CF209A
07-LCA170005-2	Eagle Shield, LLC	Structural	2/27/2018	CF207A
				Model XP-AC Explosion-
07-LCA170002-1	Strata Safety Products	Structural	3/13/2018	proof air conditioning system
	<i>'</i>			Model CF208A
07-LCA170005-3	Eagle Shield	Structural	3/8/2018	
07-LCA170005-4	Eagle Shield	Structural	3/15/2018	Model CF208B
07-LCA170005-5	Eagle Shield	Structural	3/26/2018	Model CF210A
07-LCA170005-6	Eagle Shield	Structural	3/30/2018	Model CF204A
07-LCA180001-0	ChemBio Shelter, Inc.	Structural	4/27/2018	Model 4042-EX
07-LCA180001-1	ChemBio Shelter, Inc.	Structural	6/27/2018	Model 3236-EX
07-LCA180001-2	ChemBio Shelter, Inc.	Structural	6/27/2018	Model 2428-EX
07-LCA180001-3	ChemBio Shelter, Inc.	Structural	7/3/2018	Model 4042-EX-A
07-LCA180001-5	ChemBio Shelter, Inc.	Structural	11/1/2018	Model 3236-UX
07-LCA180001-6	Chembio Shelter, Inc.	Structural	11/1/2018	Model 3236-UX-A
				Model XP-AC Explosion-
				proof air conditioning
07-LCA170001-1	Strata Safety Products	Structural	4/12/18	system
07-LCA170005-7	Eagle Shield, LLC	Structural	4/3/18	Model CF211A
				S-SSC24-2018, S-SSC24-
07.1.0.4.00000			5/0/40	16.75-2018, S-SSC8-2018,
07-LCA180002	Strata Safety Products	Structural	5/3/18	S-SSC7-61.75-2018
07-LCA180003	MineARC Systems America, LLC	Structural	9/3/18	Model CS-12-77120-CB Structural Component
07-LOA 100003	MineARC Systems	Siruciurai	3/3/10	Model CS-6-54119-CR
07-LCA180004	America, LLC	Structural	9/17/18	Structural Component
57 L57(100004	7 11101130, LLO	o a dottardi	5,17,10	Strastara Component
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