

REFUGE ALTERNATIVES AND REFUGE ALTERNATIVE COMPONENTS

APPROVED UNDER PART 7

Approval Number	Approval Holder	COMPLETE REFUGE ALTERNATIVE	Date Issued	Description
Approval Number	Approval Holder	BREATHABLE AIR COMPONENT	Date Issued	Description
07-LCA110001	Hubble Breathable Air	Breathable Air	09/07/2011	Model HBA 100, Alternate Models HBA75&HBA 250
07-LCA120001	Strata Safety Products	Breathable Air	09/20/2012	Model BA-MC3635
07-LCA130003	Strata Safety Products	Breathable Air	07/12/2013	FAB Model BA-M1020LC and BA-M1016LC
07-LCA130004	Strata Safety Products	Breathable Air	07/12/2013	FAB Model BA-M3636 and BA-M3630
07-LCA130005	Strata Safety Products	Breathable Air	07/12/2013	FAB Model BA-M2630, BA-M2626, BA-M2624, and BA-M2620
07-LCA130006	Strata Safety Products	Breathable Air	07/12/2013	FAB Model BA-M1616, BA-M1610, and BA-M1618
07-LCA130007	A.L. Lee Corporation (Transferred to Strata Safety Products)	Breathable Air	08/06/2013	4042-35BA, Breathable Air Component
07-LCA130014	MineARC Systems America, LLC	Breathable Air	10/31/2013	Breathable Air Component Model CS-BAS7-24-CB
07-LCA130014-1	MineARC Systems America, LLC	Breathable Air	11/30/18	Breathable Air Component Model CS-BAS&-12-CB
07-LCA130007-1	A.L. Lee Corporation	Breathable Air	11/01/2013	Extension of Breathable Air Component Model 4042-30 BA
07-LCA130021	ChemBio Shelter, Inc.	Breathable Air	12/09/2013	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, 2428-14, 2428-10, 2428-7, and 2428-3
07-LCA130017	Strata Safety Products	Breathable Air	12/09/2013	Breathable Air Component Model BA-SSC24 and BA-SSC24-61.75
07-LCA130020	MineShield, LLC (Transferred to Eagle Shield, LLC)	Breathable Air	12/10/2013	Model CF200A

07-LCA130018	MineARC Systems America, LLC	Breathable Air	12/13/2013	Breathable Air Component Model CS-BAS7-12-CR
07-LCA130007-2	A.L. Lee Corporation (Transferred to Strata Safety Products)	Breathable Air	12/17/2013	Extension of Breathable Air Component Model 3236-30BA
07-LCA130007-3	A.L. Lee Corporation (Transferred to Strata Safety Products)	Breathable Air	12/17/2013	Extension of Breathable Air Component Model 3236-25
07-LCA130007-4	A.L. Lee Corporation (Transferred to Strata Safety Products)	Breathable Air	12/18/2013	Extension of Breathable Air Component Model 2428-20
07-LCA130017-1	Strata Safety Products	Breathable Air	12/27/2013	Extension of Breathable Air Component Model BA-SSC24, for use with Modern Mine
07-LCA140002	MineARC Systems America, LLC	Breathable Air	01/24/2014	Breathable Air Component CS-BAS7-24-ECB
07-LCA140005	Jack Kennedy Metal Products & Building, Inc.	Breathable Air	02/12/2014	Breathable Air Component MPRC-H20-8234.79-FC
07-LCA130020-1	MineShield, LLC (Transferred to Eagle Shield, LLC)	Breathable Air	05/05/2014	Extension of Breathable Air Component Model CF204A
07-LCA130020-2	MineShield, LLC (Transferred to Eagle Shield, LLC)	Breathable Air	05/13/2014	Extension of Breathable Air Component Model CF227B
07-LCA140008 RETIRED	Trinity Resources, LLC	Breathable Air	05/22/2014	Breathable Air Component Model TR03-BA
07-LCA130020-3	MineShield, LLC (Transferred to Eagle Shield, LLC)	Breathable Air	05/23/2014	Extension of Breathable Air Component Model CF207F
07-LCA130020-4	MineShield, LLC (Transferred to Eagle Shield, LLC)	Breathable Air	06/12/2014	Extension of Breathable Air Component Model CF211F
07-LCA140002-1	MineARC Systems America, LLC	Breathable Air	06/17/2014	Extension of Breathable Air Component Model CS-BAS7-8-ECB
07-LCA130020-5	MineShield, LLC (Transferred to Eagle Shield, LLC)	Breathable Air	06/19/2014	Extension of Breathable Air Component Model CF209A
07-LCA130020-6	MineShield, LLC (Transferred to Eagle Shield, LLC)	Breathable Air	06/30/2014	Extension of Breathable Air Component Model CF220A
07-LCA140013	RT Welding and Fabrication Inc.	Breathable Air	07/01/2014	Breathable Air Component Model RTW-BAC-16
07-LCA140015	Alliance Coal, LLC	Breathable Air	07/10/2014	BA-Cincy Blower System Breathable Air Component 15psi type
07-LCA140016	Alliance Coal, LLC	Breathable Air	07/10/2014	BA-Roots Blower System Breathable Air Component 15psi type
07-LCA140005-1	Jack Kennedy Metal Products & Building, Inc.	Breathable Air	07/18/2014	Extension of Breathable Air Component Model MPRC-H20-8235.5-C

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

	Shield, LLC)			Model CF216A
07-LCA130020-19	MineShield, LLC (Transferred to Eagle Shield, LLC)	Breathable Air	10/29/2014	Extension of Breathable Air Component 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 REMOVAL COMPONENT		
Approval Number	Approval Holder		Date Issued	Description
07-LCA130002	Strata Safety Products	Harmful Gas Removal	03/22/2013	FAB Model HGR-MC3635, 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
07-LCA130008	Strata Safety Products	Harmful Gas Removal	08/06/2013	Models HGR-M2630, HGR- M2626, HGR-M2624 and HGR-M2620
07-LCA130009	Strata Safety Products	Harmful Gas Removal	08/06/2013	Models HGR-M1020LC and HGR-M1016LC
07-LCA130010	Strata Safety Products	Harmful Gas Removal	08/06/2013	Models HGR-M1616, and HGR-M1610
07-LCA130011	Strata Safety Products	Harmful Gas Removal	08/06/2013	Models HGR-M3636 and HGR-M3630
07-LCA130012	ChemBio Shelter, Inc.	Harmful Gas Removal	08/05/2013	Harmful Gas Removal Component Model Number 4042-34
07-LPA130005-0	Micropore Inc.	Harmful Gas Removal	08/14/2013	OM-0608K Partial Harmful Gas Removal Component, Scrubber Curtains Only
07-LCA130013	A.L. Lee Corporation (Transferred to Strata Safety Products)	Harmful Gas Removal	09/24/2013	Harmful Gas Removal Component Model 4042-35 HGR
07-LCA130012-1	ChemBio Shelter, Inc.	Harmful Gas Removal	10/28/2013	Extension of Harmful Gas Removal Component Model 4042-30
07-LCA130012-2	ChemBio Shelter, Inc.	Harmful Gas Removal	10/28/2013	Extension of Harmful Gas Removal Component Model 4042-26
07-LCA130012-3	ChemBio Shelter, Inc.	Harmful Gas Removal	10/28/2013	Extension of Harmful Gas Removal Component Model 4042-22
07-LCA130012-4	.ChemBio Shelter, Inc.	Harmful Gas Removal	10/28/2013	Extension of Harmful Gas Removal Component Model 4042-18
07-LCA130012-5	ChemBio Shelter, Inc.	Harmful Gas Removal	10/28/2013	Extension of Harmful Gas Removal Component Model 4042-14
07-LCA130012-6	ChemBio Shelter, Inc.	Harmful Gas Removal	10/28/2013	Extension of Harmful Gas

				Removal Component Model 4042-10
07-LCA130012-7	ChemBio Shelter, Inc.	Harmful Gas Removal	10/28/2013	Extension of Harmful Gas Removal Component Model 4042-7
07-LCA130012-8	ChemBio Shelter, Inc.	Harmful Gas Removal	10/28/2013	Extension of Harmful Gas Removal Component Model 4042-3
07-LCA130015	MineARC Systems America, LLC	Harmful Gas Removal	11/06/2013	Harmful Gas Removal Component Model CS-HGR7-24-CB
07-LCA130013-1	A.L. Lee Corporation (Transferred to Strata Safety Products)	Harmful Gas Removal	11/07/2013	Extension of Harmful Gas Removal Component Model 4042-30 HGR
07-LCA130013-2	A.L. Lee Corporation (Transferred to Strata Safety Products)	Harmful Gas Removal	12/17/2013	Extension of Harmful Gas Removal Component Model 3236-30 HGR
07-LCA130013-3	A.L. Lee Corporation (Transferred to Strata Safety Products)	Harmful Gas Removal	12/17/2013	Extension of Harmful Gas Removal Component Model 3236-25 HGR
07-LCA130023	Strata Safety Products	Harmful Gas Removal	12/17/2013	Harmful Gas Removal Component Model HGR-SSC24 and HGR-SSC24-61.75
07-LCA130013-4	A.L. Lee Corporation (Transferred to Strata Safety Products)	Harmful Gas Removal	12/18/2013	Extension of Harmful Gas Removal Component Model 2428-20 HGR
07-LCA130019	MineARC Systems America, LLC	Harmful Gas Removal	12/24/2013	Harmful Gas Removal Component Model CS-HGR7-12-CR
07-LCA130012-9	ChemBio Shelter, Inc.	Harmful Gas Removal	12/24/2013	Extension of Harmful Gas Removal Component Model 3236-30
07-LCA130012-10	ChemBio Shelter, Inc.	Harmful Gas Removal	12/24/2013	Extension of Harmful Gas Removal Component Model 3236-26
07-LCA130012-11	ChemBio Shelter, Inc.	Harmful Gas Removal	12/24/2013	Extension of Harmful Gas Removal Component Model 3236-22
07-LCA130012-12	ChemBio Shelter, Inc.	Harmful Gas Removal	12/24/2013	Extension of Harmful Gas Removal Component Model 3236-18
07-LCA130012-13	ChemBio Shelter, Inc.	Harmful Gas Removal	12/24/2013	Extension of Harmful Gas Removal Component Model 3236-14
07-LCA130012-14	ChemBio Shelter, Inc.	Harmful Gas Removal	12/24/2013	Extension of Harmful Gas Removal Component Model 3236-10
07-LCA130012-15	ChemBio Shelter, Inc.	Harmful Gas Removal	12/24/2013	Extension of Harmful Gas Removal Component Model 3236-7

07-LCA130012-16	ChemBio Shelter, Inc.	Harmful Gas Removal	12/24/2013	Extension of Harmful Gas Removal Component Model 3236-3
07-LCA130012-17	ChemBio Shelter, Inc.	Harmful Gas Removal	12/26/2013	Extension of Harmful Gas Removal Component Model 2428-20
07-LCA130012-18	ChemBio Shelter, Inc.	Harmful Gas Removal	12/26/2013	Extension of Harmful Gas Removal Component Model 2428-18
07-LCA130012-19	ChemBio Shelter, Inc.	Harmful Gas Removal	12/26/2013	Extension of Harmful Gas Removal Component Model 2428-16
07-LCA130012-20	ChemBio Shelter, Inc.	Harmful Gas Removal	12/26/2013	Extension of Harmful Gas Removal Component Model 2428-14
07-LCA130012-21	ChemBio Shelter, Inc.	Harmful Gas Removal	12/26/2013	Extension of Harmful Gas Removal Component Model 2428-10
07-LCA130012-22	ChemBio Shelter, Inc.	Harmful Gas Removal	12/26/2013	Extension of Harmful Gas Removal Component Model 2428-7
07-LCA130012-23	ChemBio Shelter, Inc.	Harmful Gas Removal	12/26/2013	Extension of Harmful Gas Removal Component Model 2428-3
07-LCA130023-1	Strata Safety Products MineShield, LLC	Harmful Gas Removal	12/27/2013	Extension of Harmful Gas Removal Component Model HGR-SSC24
07-LCA130026	(Transferred to Eagle Shield, LLC)	Harmful Gas Removal	12/30/2013	Model CF200A
07-LCA140003	MineARC Systems America, LLC	Harmful Gas Removal	03/19/2014	Harmful Gas Removal Component Model CS-HGR7-24-ECB
07-LCA140004 RETIRED	Trinity Resources, LLC	Harmful Gas Removal	04/28/2014	Harmful Gas Removal Component TR03-HGR
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-LCA130026-2	MineShield, LLC (Transferred to Eagle Shield, LLC)	Harmful Gas Removal	05/13/2014	Extension of Harmful Gas Removal Component Model CF227B
07-LCA130026-3	MineShield, LLC (Transferred to Eagle Shield, LLC)	Harmful Gas Removal	05/23/2014	Extension of Harmful Gas Removal Component Model CF207F
07-LCA140009	Alliance Coal, LLC	Harmful Gas Removal	06/02/2014	Model HGR-Cincy/Roots Harmful Gas Removal Component
07-LPA140003	Venture Design Services, Inc.	Harmful Gas Removal	06/03/2014	Harmful Gas Removal Component Model VDS2780B

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

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

	Shield, LLC)			
07-LCA130016-1	Strata Safety Products	Air-Monitoring	12/27/2013	Extension of Air-Monitoring Component Model AM101
07-LCA140001	MineARC Systems America, LLC	Air-Monitoring	01/17/2014	Air Monitoring Component Model CS-AMC7
07-LPA140001-0	Trolex, Ltd.	Air-Monitoring	03/26/2014	Air-Monitoring Component TX6377
07-LCA140006 RETIRED	Trinity Resources, LLC	Air-Monitoring	04/08/2014	Air-Monitoring Component TR03-AM
07-LCA140007	Alliance Coal, LLC	Air-Monitoring	04/08/2014	AM-Cincy/Roots Air-Monitoring Component
07-LCA130025-1	MineShield, LLC (Transferred to Eagle Shield, LLC)	Air-Monitoring	05/05/2014	Extension of Air-Monitoring Component Model CF204A
07-LCA130025-2	MineShield, LLC (Transferred to Eagle Shield, LLC)	Air-Monitoring	05/13/2014	Extension of Air-Monitoring Component Model CF227B
07-LCA130025-3	MineShield, LLC (Transferred to Eagle Shield, LLC)	Air-Monitoring	05/23/2014	Extension of Air-Monitoring Component Model CF207F
07-LCA130025-4	MineShield, LLC (Transferred to Eagle Shield, LLC)	Air-Monitoring	06/12/2014	Extension of Air-Monitoring Component Model CF211F
07-LCA130025-5	MineShield, LLC (Transferred to Eagle Shield, LLC)	Air-Monitoring	06/19/2014	Extension of Air-Monitoring Component Model CF209A
07-LCA140010	RT Welding and Fabrication Inc.	Air-Monitoring	06/27/2014	Air Monitoring Component Model RTW-RA-AMC
07-LCA130025-6	MineShield, LLC (Transferred to Eagle Shield, LLC)	Air-Monitoring	06/30/2014	Extension of Air-Monitoring Component Model CF220A
07-LCA140012	Jack Kennedy Metal Products & Building, Inc.	Air-Monitoring	07/18/2014	Air Monitoring Component Model MPRC-AM1
07-LCA130025-7	MineShield, LLC (Transferred to Eagle Shield, LLC)	Air-Monitoring	07/25/2014	Extension of Air-Monitoring Component Model CF226A
07-LCA130025-8	MineShield, LLC (Transferred to Eagle Shield, LLC)	Air-Monitoring	08/06/2014	Extension of Air-Monitoring Component Model CF206A
07-LCA130025-9	MineShield, LLC (Transferred to Eagle Shield, LLC)	Air-Monitoring	08/20/2014	Extension of Air-Monitoring Component Model CF210A
07-LCA130025-10	MineShield, LLC (Transferred to Eagle Shield, LLC)	Air-Monitoring	08/26/2014	Extension of Air-Monitoring Component Model CF201A
07-LCA130025-11	MineShield, LLC (Transferred to Eagle Shield, LLC)	Air-Monitoring	08/29/2014	Extension of Air-Monitoring Component Model CF208A
07-LCA140017	BHP Billiton (San Juan	Air-Monitoring	08/29/2014	Air-Monitoring Component

	Coal Company) (Transferred to San Juan Mine 1, a subsidiary of Westmoreland Coal Company)			Model BIP-AMC-01
07-LCA130025-12	MineShield, LLC (Transferred to Eagle Shield, LLC)	Air-Monitoring	09/8/2014	Extension of Air-Monitoring Component Model CF227A
07-LPA140004	Venture Design Services, Inc.	Air-Monitoring	09/09/2014	Air Monitoring Component Model VDS2758
07-LCA130025-13	MineShield, LLC (Transferred to Eagle Shield, LLC)	Air-Monitoring	09/11/2014	Extension of Air-Monitoring Component Model CF208B
07-LCA130025-14	MineShield, LLC (Transferred to Eagle Shield, LLC)	Air-Monitoring	09/18/2014	Extension of Air-Monitoring Component Model CF207A
07-LCA130025-15	MineShield, LLC (Transferred to Eagle Shield, LLC)	Air-Monitoring	10/02/2014	Extension of Air-Monitoring Component Model CF224A
07-LCA140020	Blue Mountain Energy Inc.	Air-Monitoring	10/21/2014	Breathable Air Component Model BME-AM-1
07-LCA130025-16	MineShield, LLC (Transferred to Eagle Shield, LLC)	Air-Monitoring	10/21/2014	Extension of Air-Monitoring Component Model CF228A
07-LCA130025-17	MineShield, LLC (Transferred to Eagle Shield, LLC)	Air-Monitoring	10/23/2014	Extension of Air-Monitoring Component Model CF211A
07-LCA130025-18	MineShield, LLC (Transferred to Eagle Shield, LLC)	Air-Monitoring	10/28/2014	Extension of Air-Monitoring Component Model CF216A
07-LCA130025-19	MineShield, LLC (Transferred to Eagle Shield, LLC)	Air-Monitoring	10/29/2014	Extension of Air-Monitoring Component Model CF217A
07-LCA130016-2	Strata Safety Products	Air-Monitoring	11/4/2014	Extension of Air-Monitoring Component Model AM101
07-LCA160001	Signal Peak Energy, LLC	Air-Monitoring	2/25/2016	Model SPE AM490-0001
Approval Number	Approval Holder	STRUCTURAL COMPONENT	Date Issued	Description
07-LCA170001	Strata Safety Products	Structural	5/18/2017	FAB Model S-M2624 and S-M2630

07-LCA170002	Strata Safety Products	Structural	6/2/2017	FAB Model S-M3636, S-MC3635, S-M3630
07-LCA170003	Strata Safety Products	Structural	6/15/2017	FAB Model S-M1618
07-LCA170004	Strata Safety Products	Structural	6/27/2017	FAB Model S-M1020 and S-M1016
07-LCA170005	Eagle Shield, LLC	Structural	10/23/2017	CF209A
07-LCA170005-2	Eagle Shield, LLC	Structural	2/27/2018	CF207A
07-LCA170002-1	Strata Safety Products	Structural	3/13/2018	Model XP-AC Explosion-proof air conditioning system
07-LCA170005-3	Eagle Shield	Structural	3/8/2018	Model CF208A
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
07-LCA170001-1	Strata Safety Products	Structural	4/12/18	Model XP-AC Explosion-proof air conditioning system
07-LCA170005-7	Eagle Shield, LLC	Structural	4/3/18	Model CF211A
07-LCA180002	Strata Safety Products	Structural	5/3/18	S-SSC24-2018, S-SSC24-16.75-2018, S-SSC8-2018, S-SSC7-61.75-2018
07-LCA180003	MineARC Systems America, LLC	Structural	9/3/18	Model CS-12-77120-CB Structural Component
07-LCA180004	MineARC Systems America, LLC	Structural	9/17/18	Model CS-6-54119-CR Structural Component