

Refuge Alternative 30 CFR Part 7

Approval Status

August 7, 2013

Overview

- **36** Approval Applications Received
 - **15** Component Approvals Issued (**8** approvals include **10** models collectively)
 - **21** Applications in Process
- Submitted by 12 Manufacturers
 - 7 Refuge Alternative Manufacturers
 - 5 Component Manufacturers
- 2 Refuge Alternative Manufacturers Have Not Submitted Applications. (One has stated an intent to partner with another RA approval holder.)

Approvals Issued to Date

■ Breathable Air Component

- Hubble (Compressor)
- Strata MC3635, M1616, M1610, M2630, M2626, M2624, M2620, M3636, M3630, M1020, M1016
- A.L. Lee 4042-35 BA

■ Harmful Gas Removal Component

- Strata MC3635, M1616, M1610, M2630, M2626, M2624, M2620, M3636, M3630, M1020, M1016
- ChemBio 4042-34

■ Partial Harmful Gas Removal Component

- ChemBio Curtains¹
- Micropore Curtains¹

■ Air Monitoring Component

- No Approvals to Date

¹These curtains are approved for use by other manufacturers without additional testing; however, certification of compatibility is required.

In-process Applications

- **21** In-process Applications Submitted by:
 - 7 Refuge Alternative Manufacturers
 - **4** Component Manufacturers
- 6 of 7 Refuge Alternative Manufacturers Have Submitted Test Results
- **4** of **4** Component Manufacturers Have Submitted Test Results

In-process Applications

- **5** Breathable Air Components
 - 1 approval expected in near future
- **7** Harmful Gas Removal Components
 - 1 similar to already approved design
- **1** Scrubber Curtain - HGR Component
- **5** Air Monitoring Components
- **2** Refuge Alternative Structures
- **1** Complete Refuge Alternative

In-process Applications

- Approval Status (Approximate*)
 - 100% Complete (15)
 - 90% Complete (1) *
 - 75% Complete (6) *
 - 50% Complete (3) *
 - 25% Complete (4) *
 - Less than 25% Complete (7) *