



MHSC

Mine Health and Safety Council

TRIPARTITE TECHNICAL COMMITTEE WORKSHOP

SCSR Annual Monitoring Programme - 2025

Presenter: Mr. Michael Sehlabana
26 February 2026

Every mine worker returning from work unharmed every day. Striving for zero harm in our lifetime.

PRESENTATION OUTLINE

**Summary of
SCSR tests
conducted**

**Distribution of
SCSRs**

**Body-Worn
SCSRs
(Chapter 16.4)**

SCSR Incidents

**Ongoing
Conformity
Assessment**

**Long-Duration
SCSRs
(Chapter 16.4)**

**Mine's
Compliance
(TTC Criteria)**

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SUMMARY OF SCSRs TESTS CONDUCTED - 2025

❖ Annual Monitoring Programme

– MHS Chapter 16.2 – 16.4

❖ Ongoing Conformity Assessment (Batch Testing)

- SANS 1737, *Body-worn escape type breathing apparatus* (Annex A)

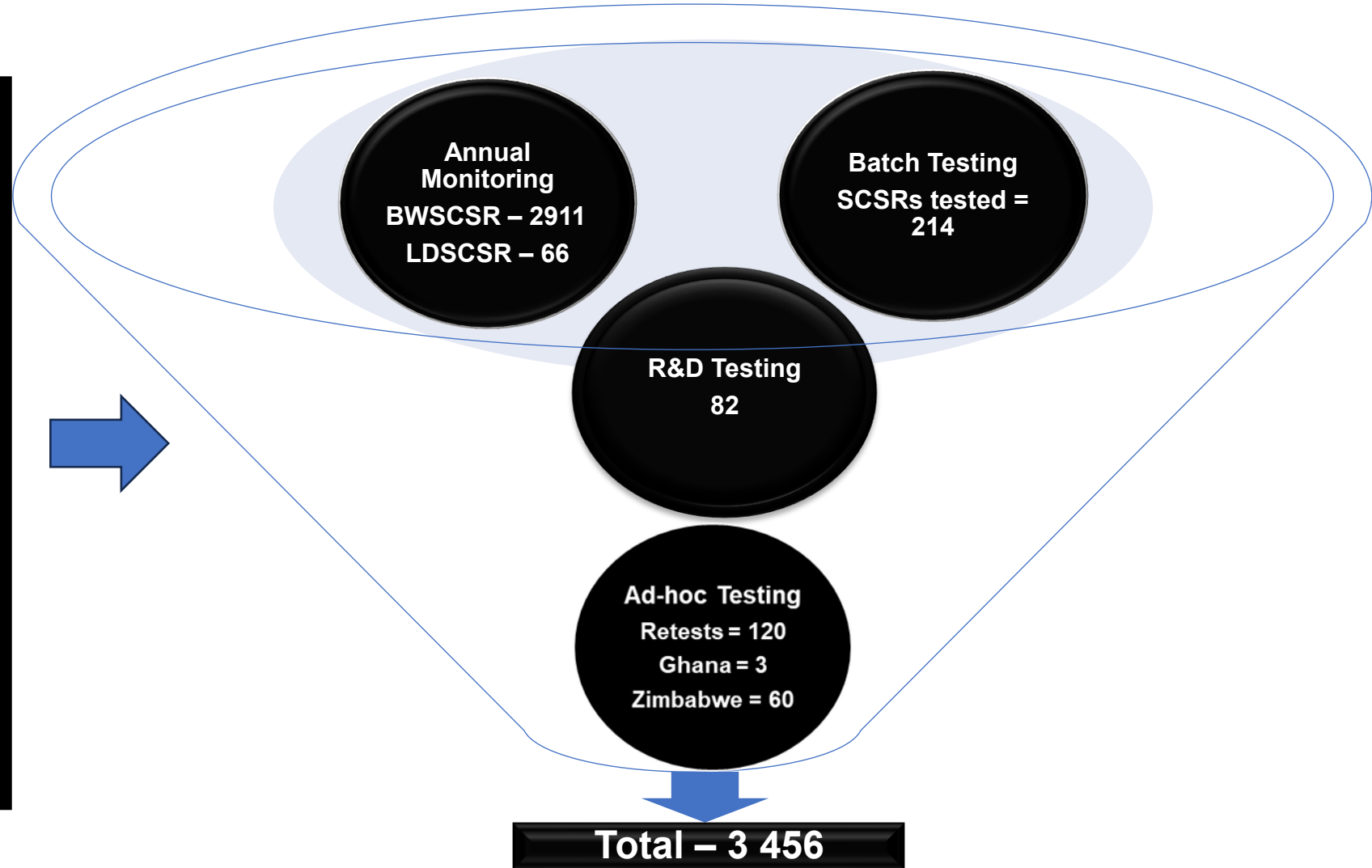
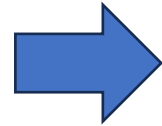
❖ Research & Development Testing

- Critical task for SCSR OEMs to ensure relevance and continuous improvements of their products / devices

❖ Ad-hoc Testing

- Recommended testing of SCSRs to confirm the findings observed during laboratory testing as part of Annual Monitoring Programme

- Voluntary testing of SCSRs that fall outside the jurisdiction of South Africa



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BWSCSRs SAMPLED AND TESTED IN SOUTH AFRICA (MHSA – CHAPTER 16.4)

Type	Number of BWSCSRs samples		Approximate number of BWSCSRs industry wide
	Testing Completed	Testing in Progress	
AfroxPac35i	1 688	77	177 000
Draeger Oxyboks K35/K35A	332	10	34 200
Roxy40	804	0	80 500
Total	2 824	87	291 700

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LDSCSRs SAMPLED AND TESTED IN SOUTH AFRICA (MHSA – CHAPTER 16.4)

Type	Number of LDSCSRs samples		Approximate number of LDSCSRs industry wide
	Testing Completed	Testing in Progress	
DEZEGA SSS-1PV KS	3	0	300
Draeger Oxy6000	55	2	5 700
Ocenco EBA6.5	6	0	600
Total	64	2	6 600

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DISTRIBUTION OF SCSRs TESTED BY COMMODITY

Commodity	SCSR Model / Type						Number of Mines
	BWSCSR			LDSCSRs			
	AfroxPac 35i	Draeger Oxyboks K35 /K35A	Roxy40	DEZEGA SSS-1PV KS	Draeger Oxy6000	Ocenco EBA6.5	
Coal	39	218	95	3	42	6	46
Diamond	33	18	0	0	0	0	5
Gold	522	56	195	0	2	0	46
Platinum	984	10	478	0	0	0	69
Others	187	25	36	0	0	0	32
Total	1 765	327	804	3	44	6	198

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SCSR INCIDENTS

❑ A total of **27 incidents** occurred during testing of SCSRs in the laboratory

❖ **AfroxPac35i**

- Three self-ignitions and one protective casing release lever

❖ **Draeger Oxyboks K35 / K35A**

- Torn air tube – (1 SCSR)

❖ **Roxy40**

- Rubber materials degradation (14 SCSRs)
- Defective Pressure Relief Valve (7 SCSRs)
- Loose mouthpiece (1 SCSR)

❑ **Overall failure rate – 0,93%**



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SCSR INCIDENTS

AfroxPac35i

SCSR self-ignitions (3 SCSRs)



Protective casing release lever (1 SCSR)



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SCSR INCIDENTS

Draeger Oxyboks K35A – 1 incident

Torn air tube



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SCSR INCIDENTS

Roxy40 – 22 incidents

Rubber Materials degradation (14)



Defective Pressure Relief Valve (7)



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COMPLIANCE

❑ Compliance levels

- ✓ Level 1 – mines with excellent SCSR controls and infrastructures.
- ✓ Level 2 – mines with sufficient SCSR controls and infrastructures.
- ✓ Level 3 – mines with insufficient SCSR controls and infrastructures.

❑ 198 mines participated in the 2025 annual monitoring programme

- ✓ Level 1 – 6 mines
- ✓ Level 2 - 172 mines
- ✓ Level 3 - 20 mines

- 2 mines practiced multi-shifting of SCSRs

16.2.3 Sole Allocation of a Body Worn Self-Contained Self-Rescuer

The employer must take reasonably practicable measures to ensure that any **BWSCSR** supplied to any employee in terms of sub regulations 16.2.1 and 16.2.2, must be allocated to the employee for that employee's sole use for the duration of the deployment of that **SCSR** at the mine or until that **SCSR** becomes defective and the employee is issued with another **SCSR** as required by these regulations.

- 6 mines continued to use obsolete SCSRs

16.3 No Defective, Obsolete or Unauthorised Self-Contained Self-Rescuer to be issued for use

"**Obsolete SCSR**" means any Self-Contained Self-Rescuer that is older than ten years from date of manufacturing;

- 12 mines – poor record keeping (Chapter 16.4.4)

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ONGOING CONFORMITY ASSESSMENT (BATCH TESTING)

- ❑ Batch testing is conducted in accordance SANS 1737

Table A.1 — Allocation of quantities for sample sizes and testing

1	2	3	4	5	6	7
Batch or lot size, units	Sample size, units	Visual inspection (5.1.2)	Leak-tightness of protective casing (5.5.1)	Breathing simulator (5.10 at 35 L/min)	Number of defectives	
		Allocation of quantities for testing			Accept	Reject
1 – 90	3	3	3	1	0	1
91 – 280	5	5	5	2	0	1
281 – 500	7	7	7	3	0	1
502 – 1 200	9	9	9	4	0	1

NOTE Larger batch sizes should be divided into several of the batch sizes listed above.
Example: A batch size of 1 600 is divided into two batches, one batch of 1 200 units and one batch of 400 units. The number of samples to be drawn is therefore $9 + 7 = 16$.

Amdt 1

- ❑ 48 SCSR batches were tested and found compliant
 - These batches represents 58 000 new SCSRs introduced in the industry

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THE END

QUESTIONS?

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