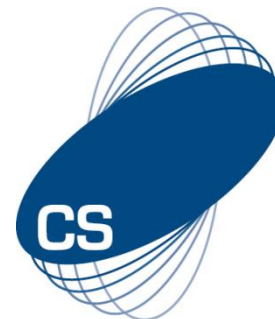


7th International Mines Rescue Competition

Summary Presentation

**Southern Mines Rescue Station and
NRE Gujarat No1 Mine**

November 11 &12, 2010 , Wollongong, Australia



Mines Rescue
Established 1926

PROUD SPONSORS



Coal Services
Australia

**International Mines Rescue
Competition**

Dräger



Peabody



**SPARKE
HELMORE
LAWYERS**



History

- 1999** Louisville, Kentucky, USA
- 2000** Las Vegas, Nevada USA
- 2002** Reno, Nevada USA
- 2004** Głogów, Poland
- 2006** Pingdingshan, China
- 2008** Reno, Nevada, USA
- 2010** Wollongong, Australia



Mines Rescue
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Content

Challenges

Strategy

Events

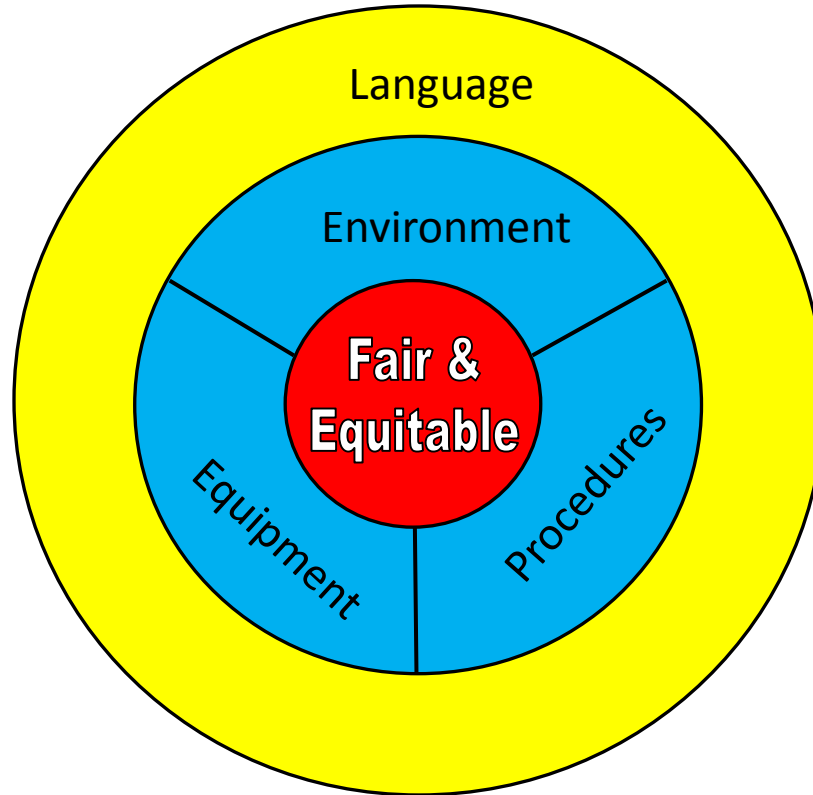
Observations

Recommendations



Mines Rescue
Established 1926

Challenges



Challenges



Challenges



Overall Strategy

Determine and define “Key elements” of program

Competition

Philosophy

Communication

Communicate, Communicate, Communicate

Events

Competition Information

Location

Reference Material

Ancillary

Transport

Accommodation

Functions

Station visits

Ensure adequate resourcing



Timeline -2010

27 Jan Coal Services Board Decision

25 Feb Notification of Competition– “Expression of interest” closes 16 April

260 days

8 Mar Accommodation and function rooms booked

16 Apr **9 teams** “Expression of Interest” deadline closes – 3 Polish, 1 English, 2 Chinese, 1 Ukrainian, 1 Indian, 1 Russian

210 days

30 Apr “Competition Information” and Registration forms distributed

196 days

24 May “Reference Material” sent out

172 days

7 June Invitations to compete confirmed to 2 NSW and 2 QLD teams

158 days

30 June **12 teams** for “Team Registrations”

135 days

14 July **14 teams** “Registry” teams confirmed

121 days

28 July **15 teams** Collieries team confirmed

107 days

4 Aug **16 teams** team confirmed

100 days

6 Nov Teams begin to arrive

11 Nov Competition Begins



Competition Week

Tourist Activities



Competition Week

Evening Functions



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Established 1926

Competition Week

Familiarisation Sessions



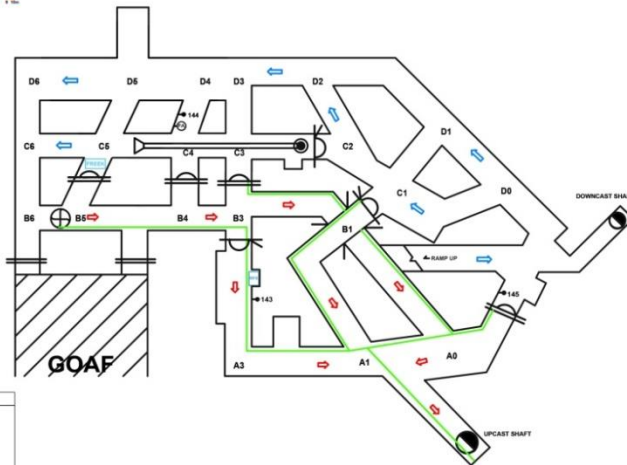
Competition Week



Inductions & Briefings

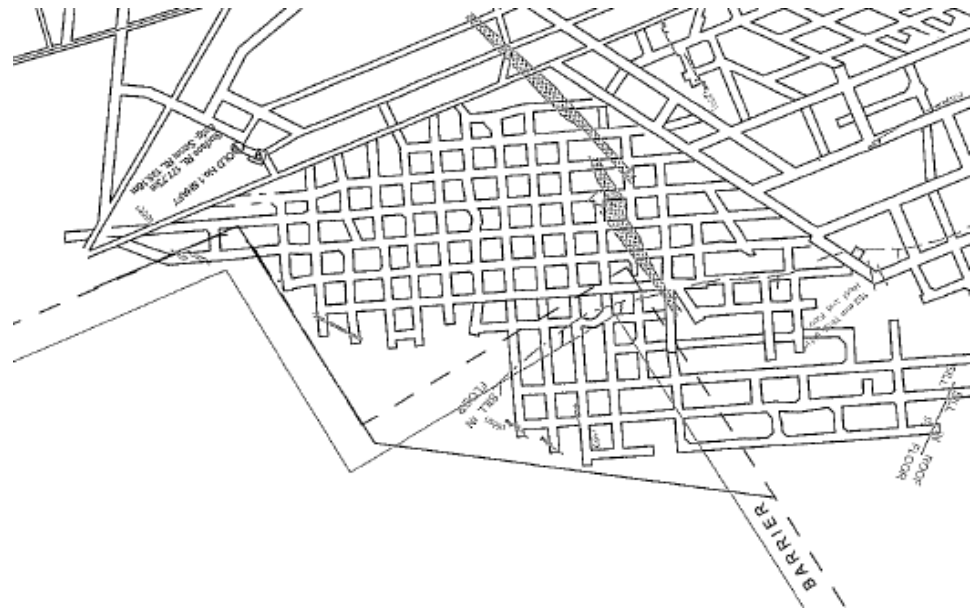


N Southern Main Colliery



Legend

⊕	First Aid	⊖	Regulator
☎	Telephone	⊞	CABA Refill
⊞	Fan	—	Lifeline
●	Shaft	↔	Intake Air
—	Stopping	↔	Return Air
⊞	Door	⊞	Crossing
⊞	Bin		

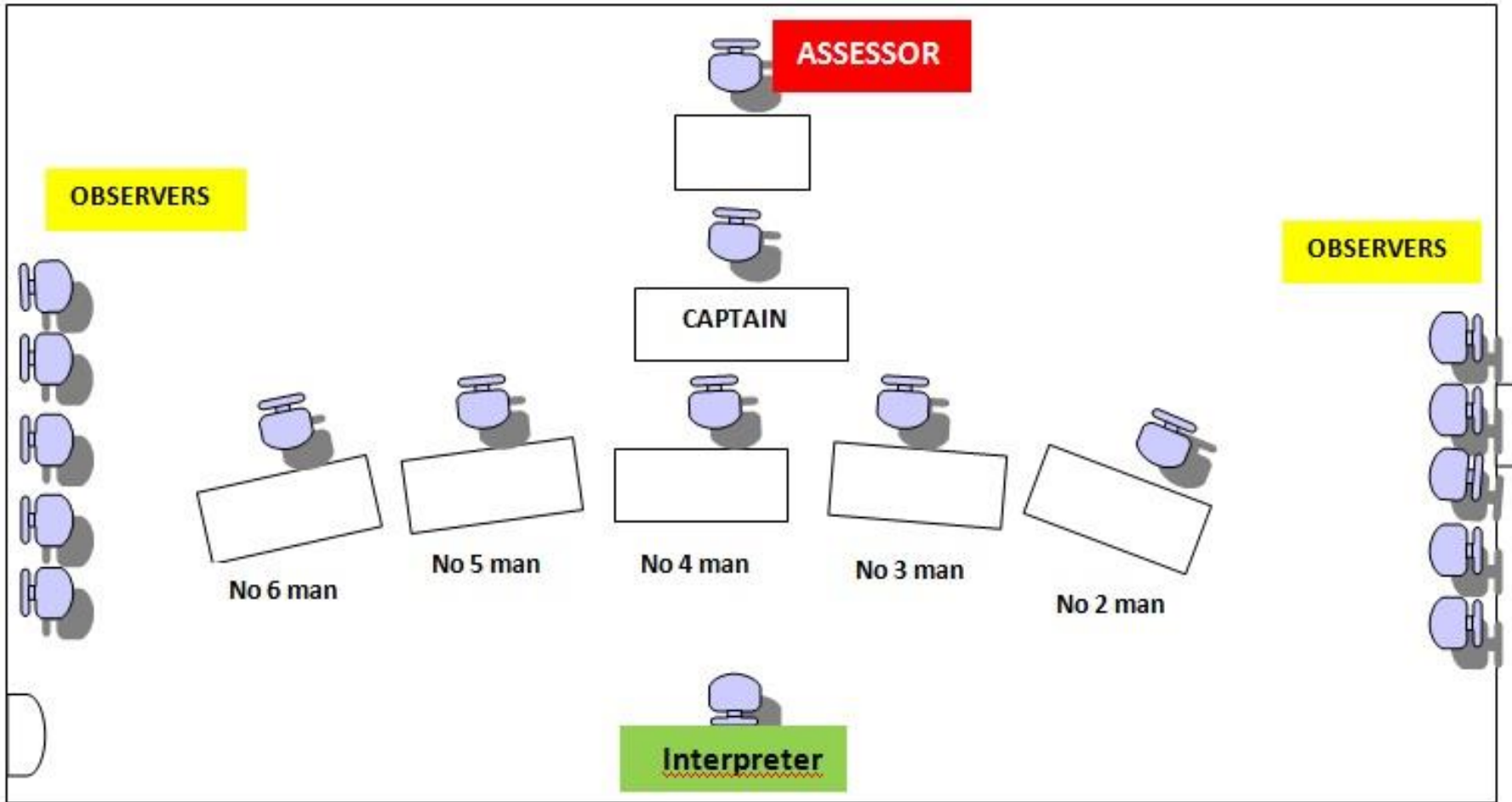


Benchman

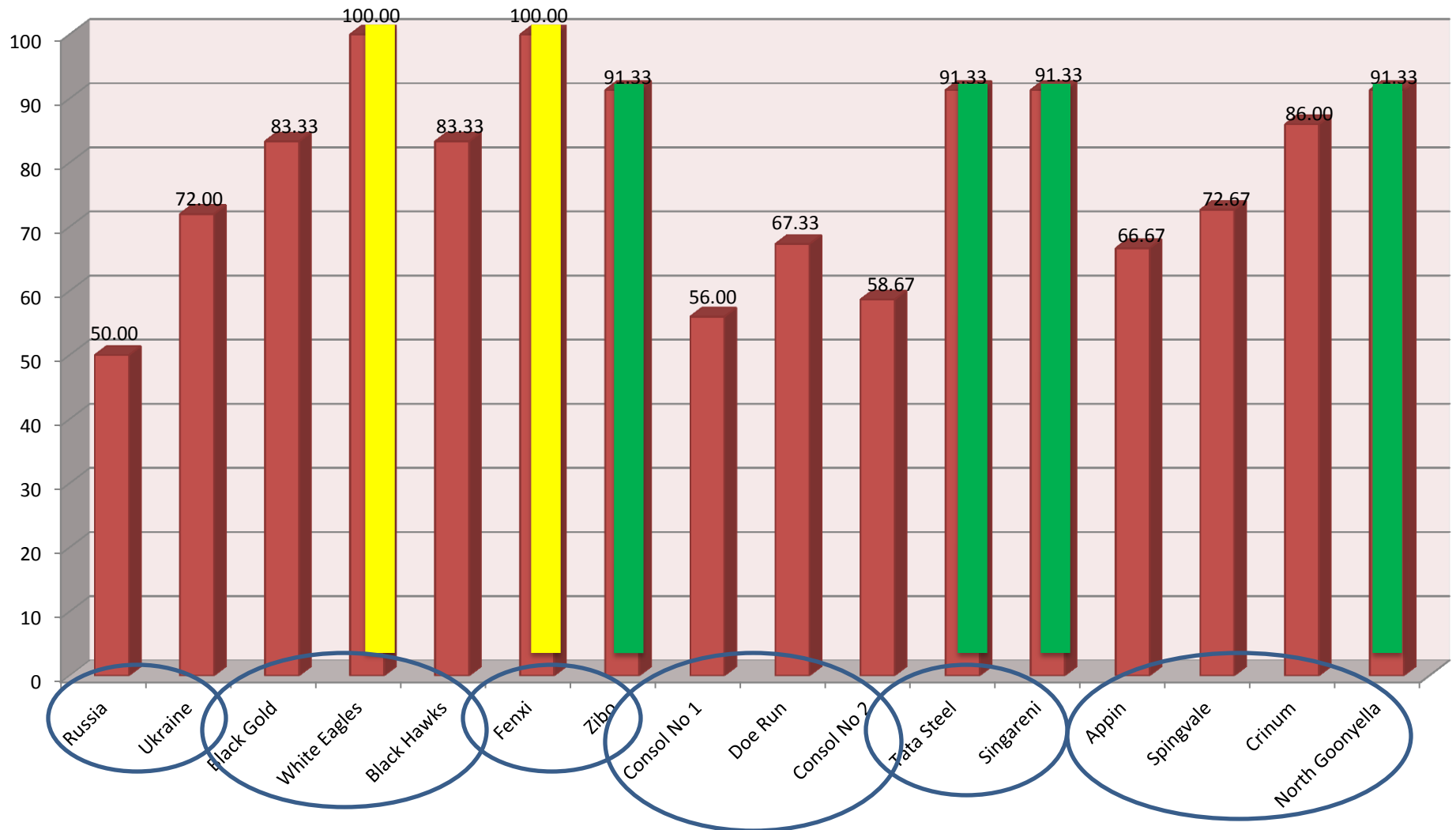


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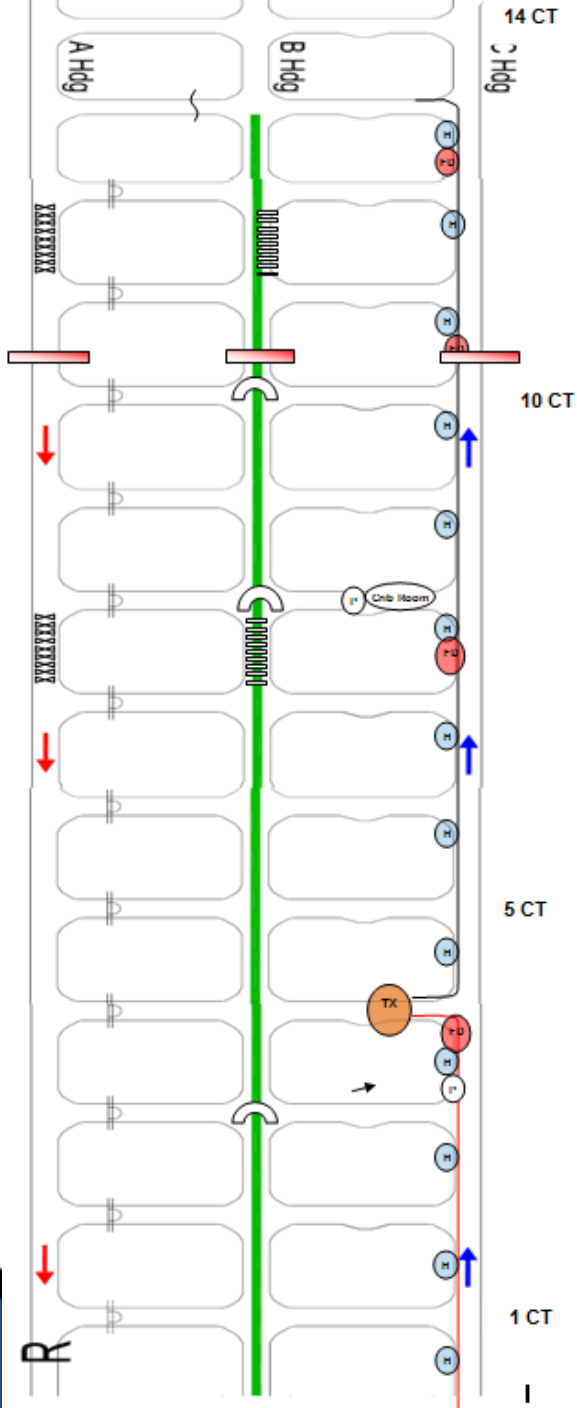
Theory Exercise



Theory Exercise – Final Scores



Virtual Reality - Domes



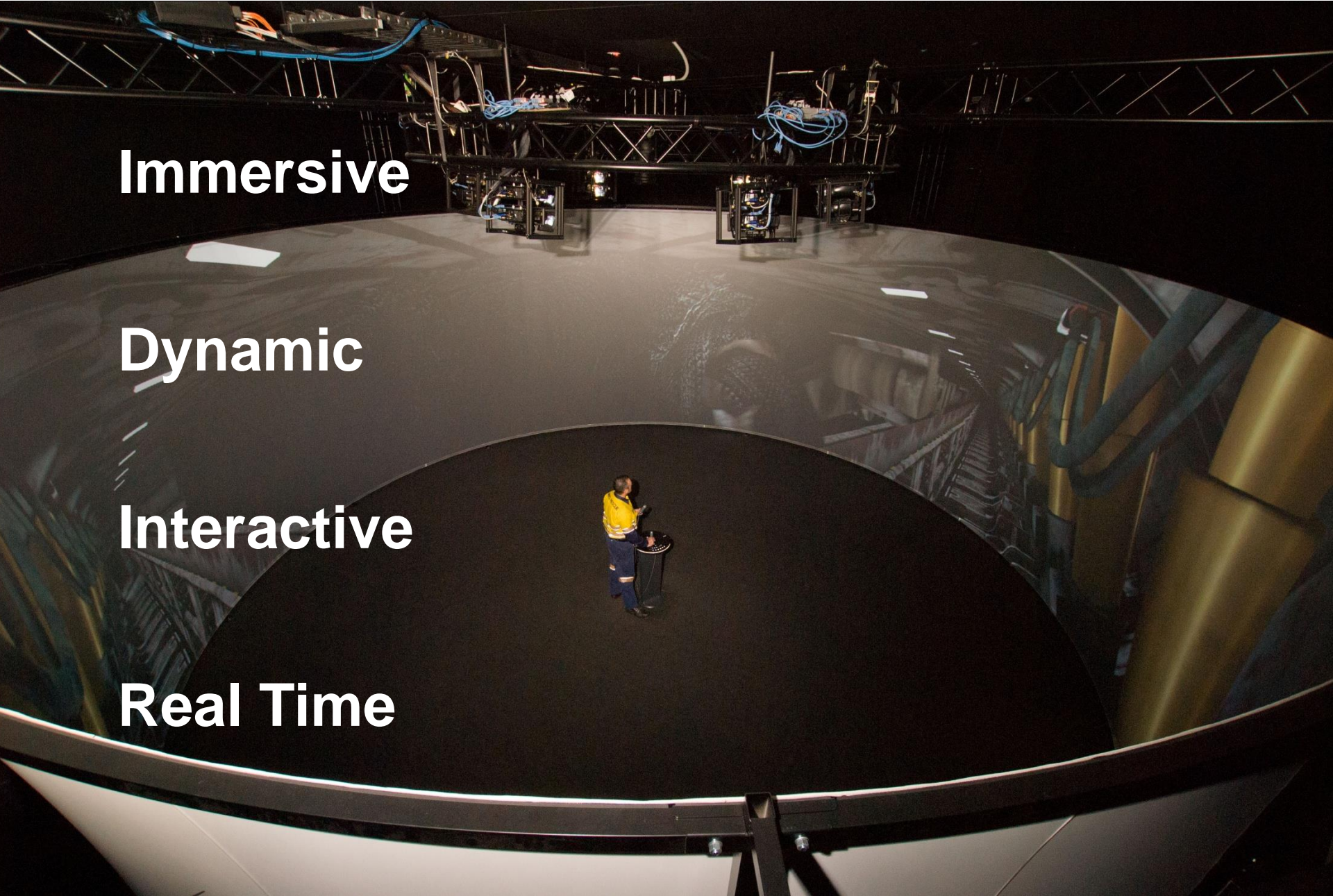
Virtual Reality – 360 Theatre

Immersive

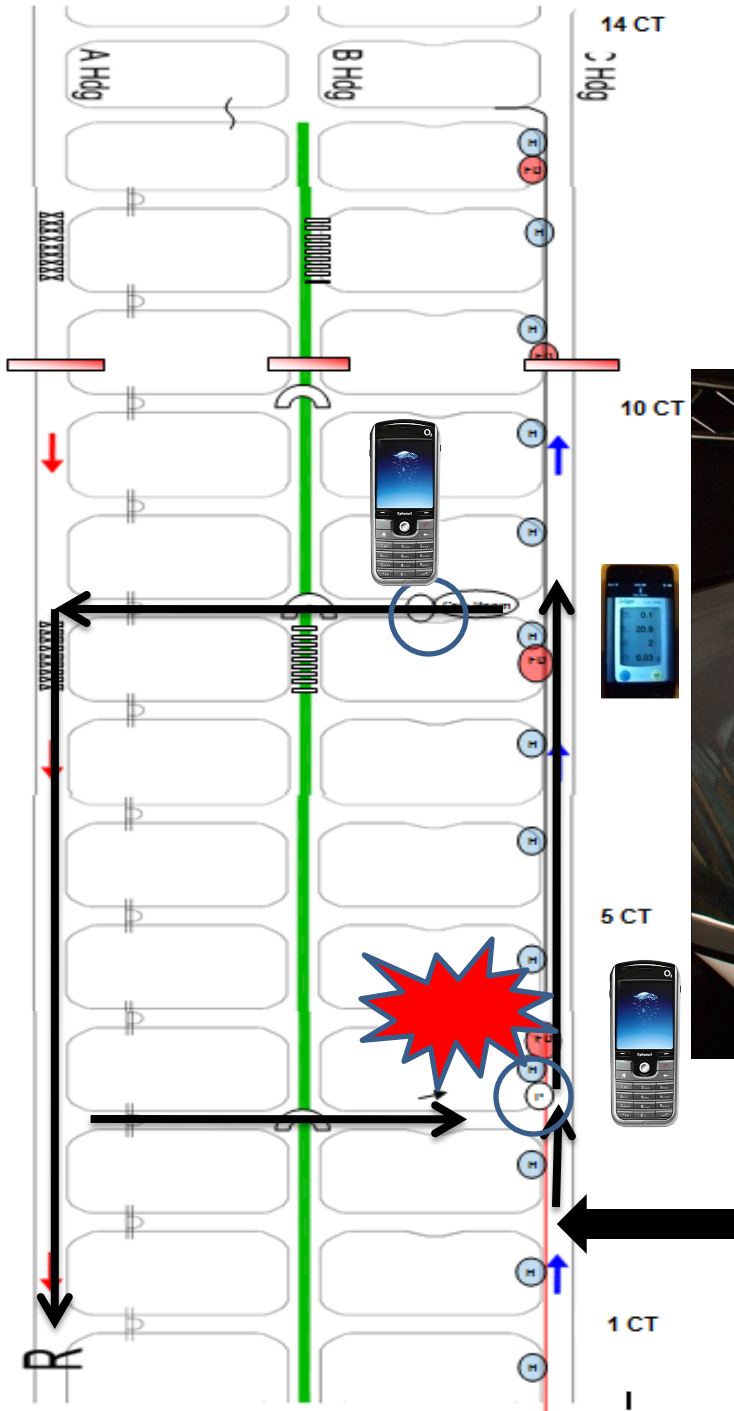
Dynamic

Interactive

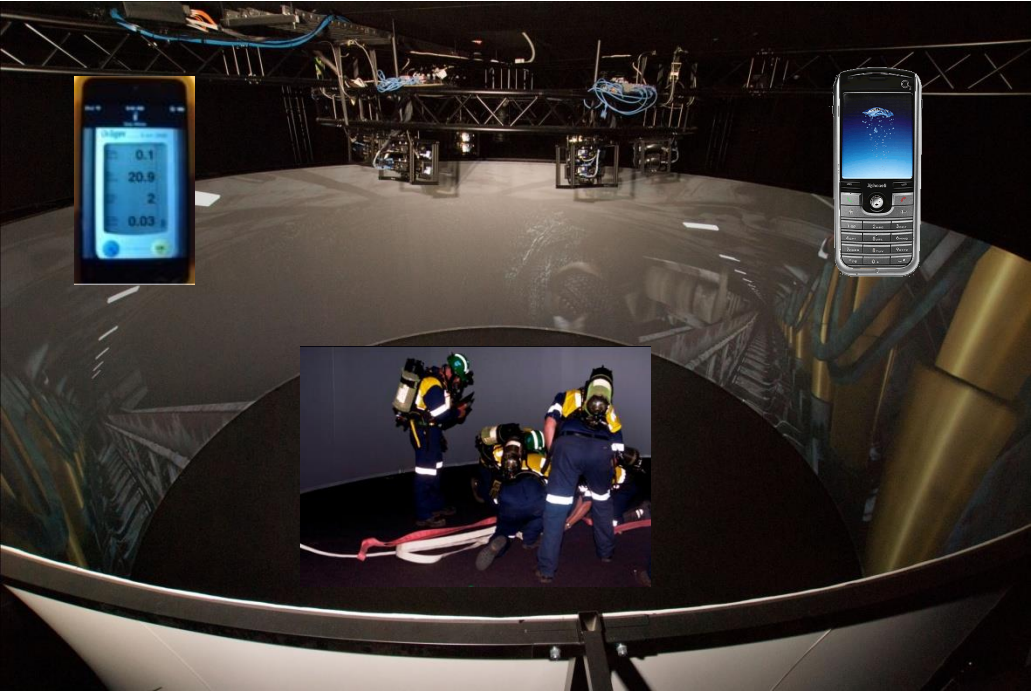
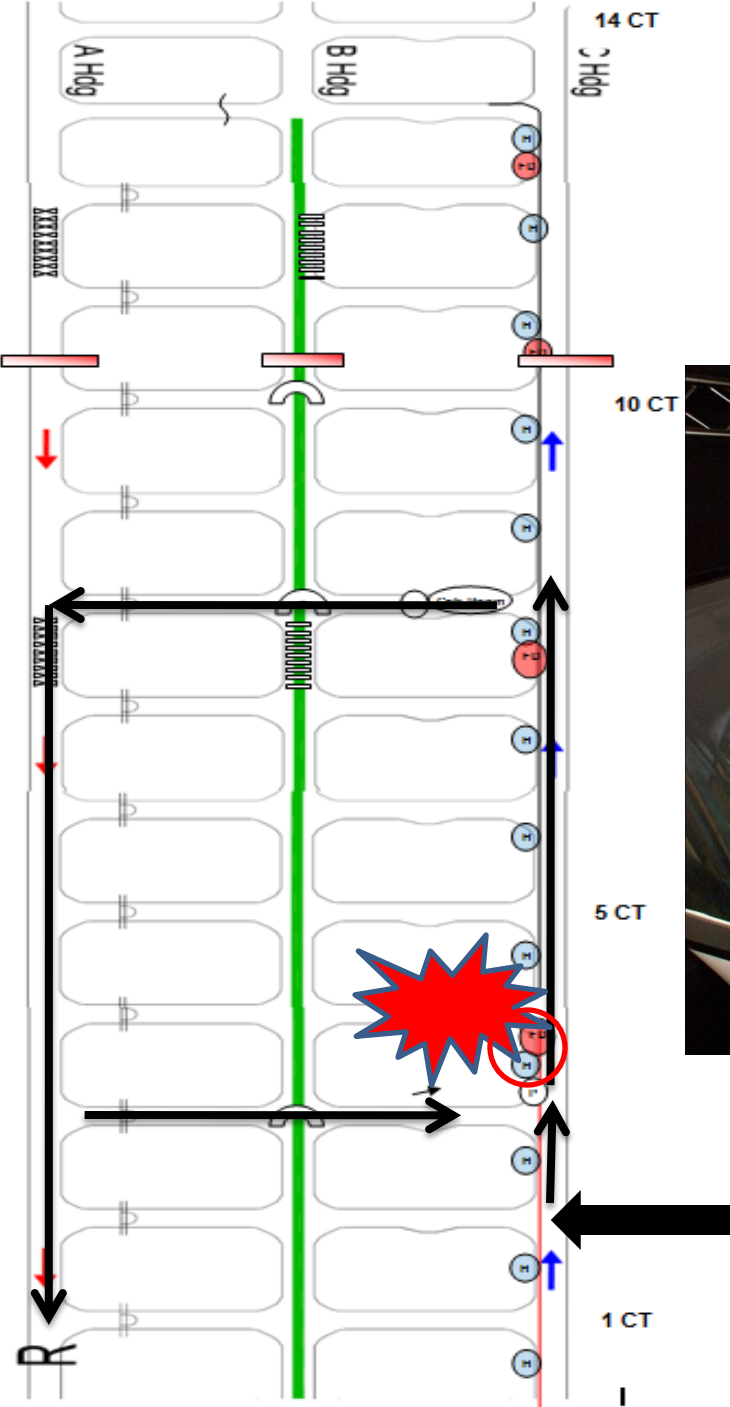
Real Time



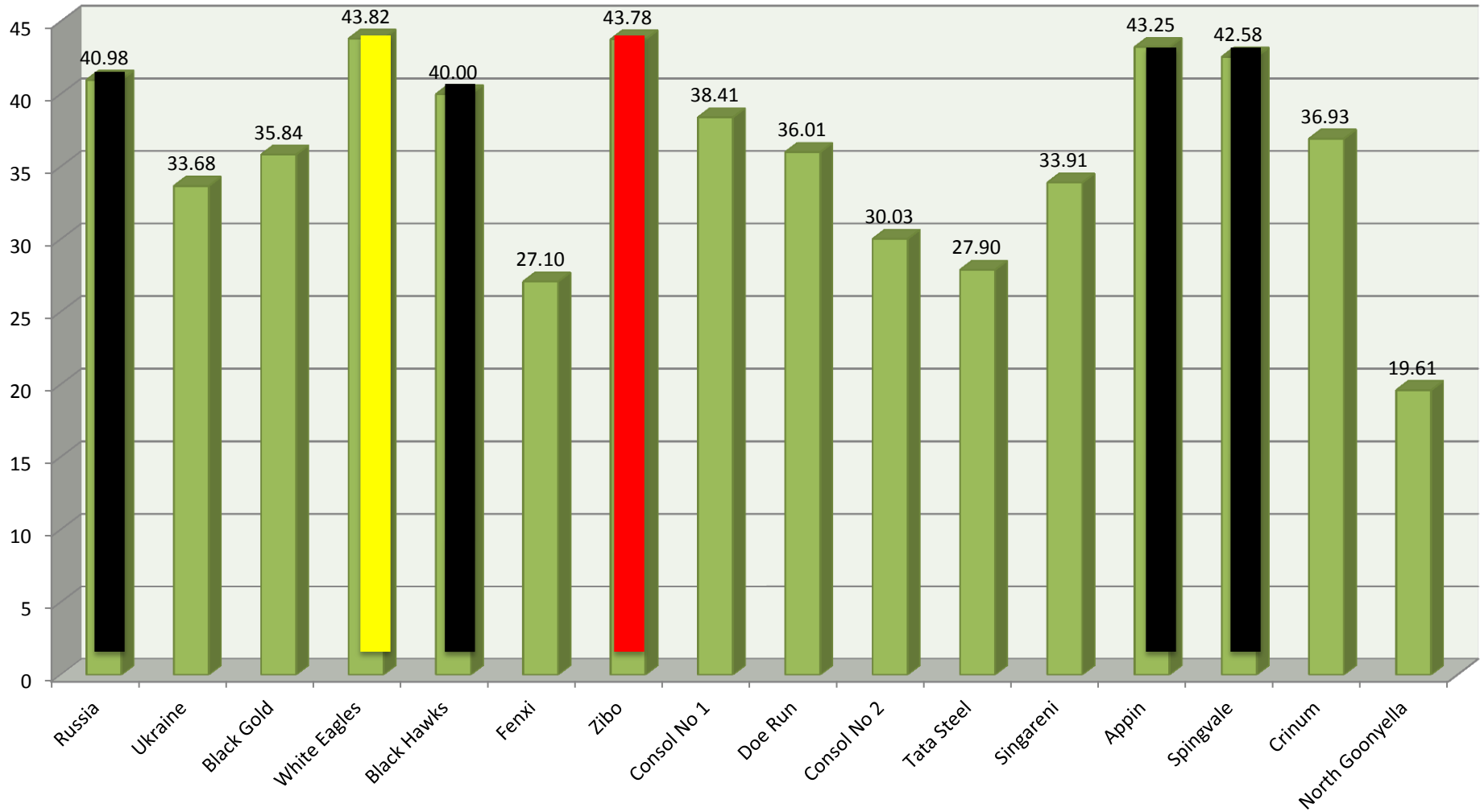
Virtual Reality 360 Theatre



Virtual Reality 360 Theatre



Virtual Reality – Final Scores

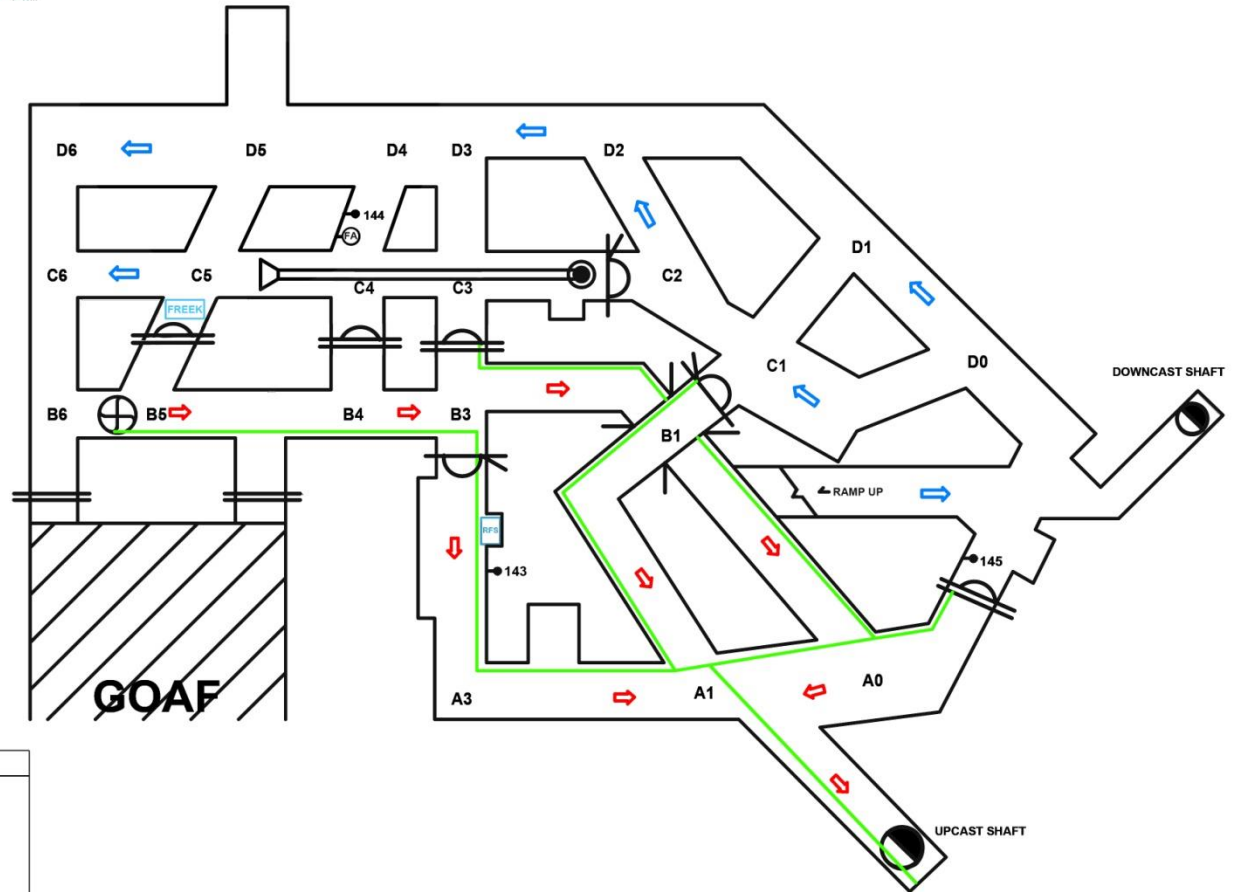


Station Underground



Southern Main Colliery

Scale: 0 1 2 3 4 5 6 7 8 9 10m



Legend			
	First Aid		Regulator
	Telephone		CABA Refill
	Fan		Lifeline
	Shaft		Intake Air
	Stopping		Return Air
	Door		Crossing
	Bin		

Station Underground









Mines Rescue
Established 1926



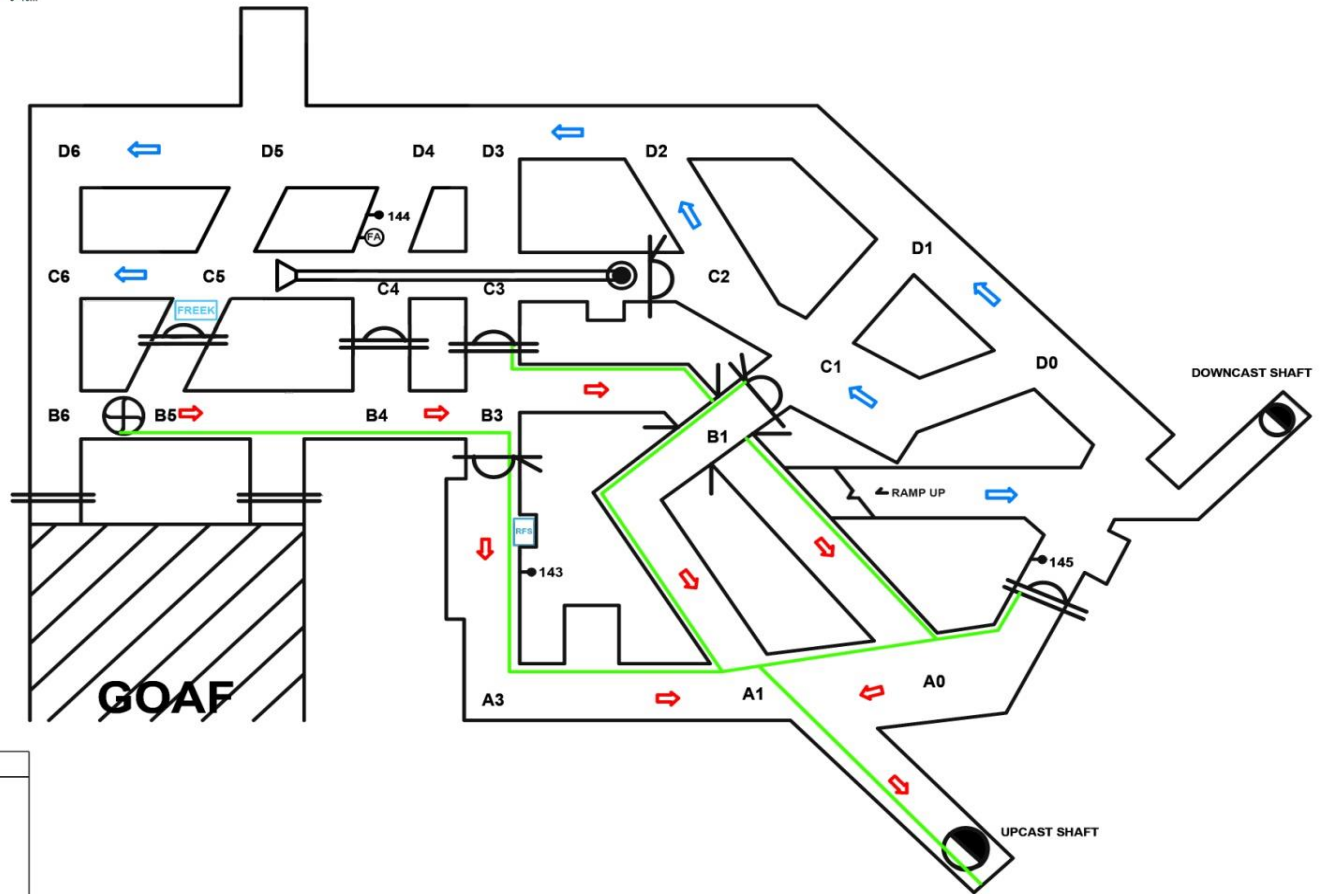


Station Underground



Southern Main Colliery

Scale: 0 1 2 3 4 5 6 7 8 9 10m



Legend

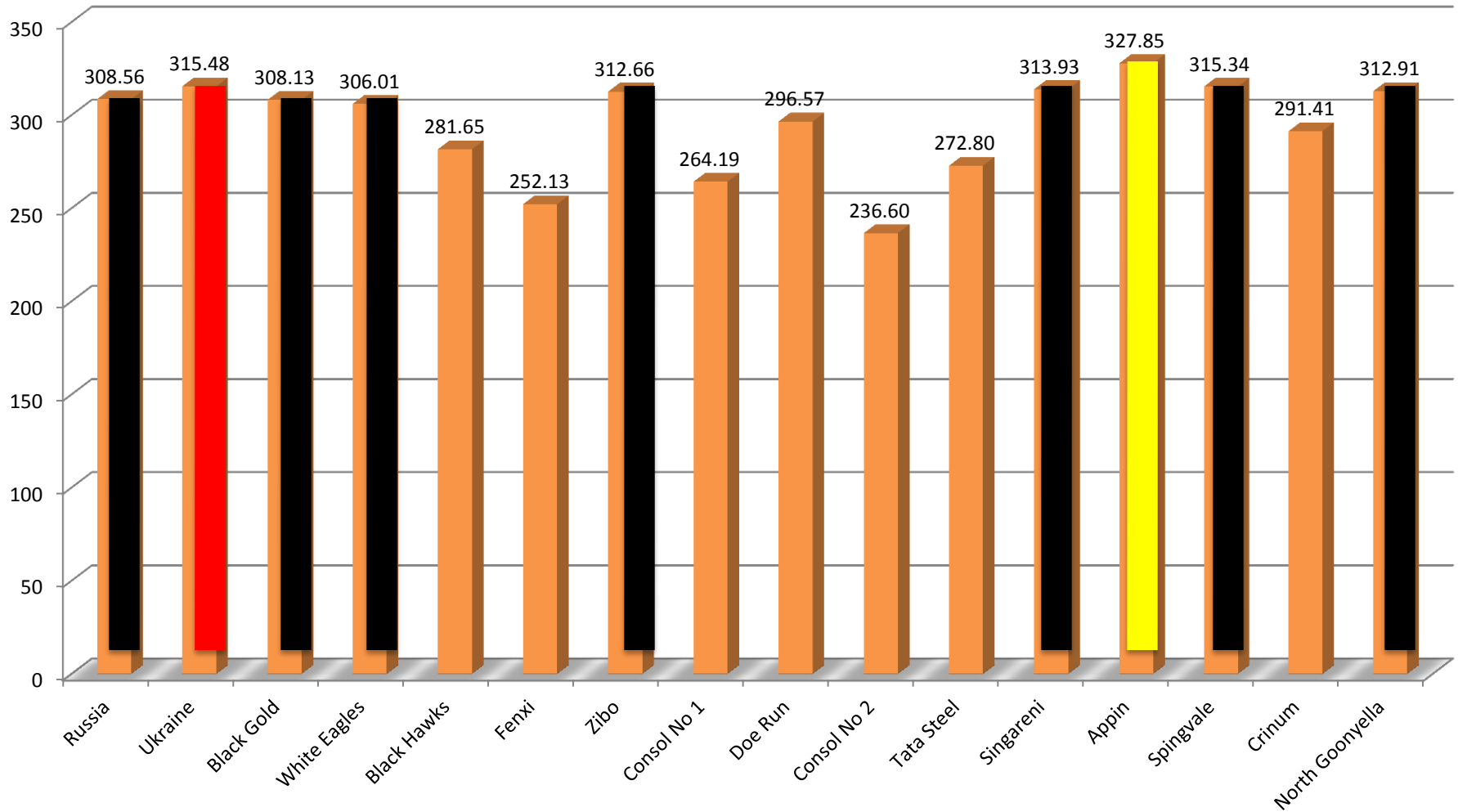
	First Aid		Regulator
	Telephone		CABA Refill
	Fan		Lifeline
	Shaft		Intake Air
	Stopping		Return Air
	Door		Crossing
	Bin		

Station Underground





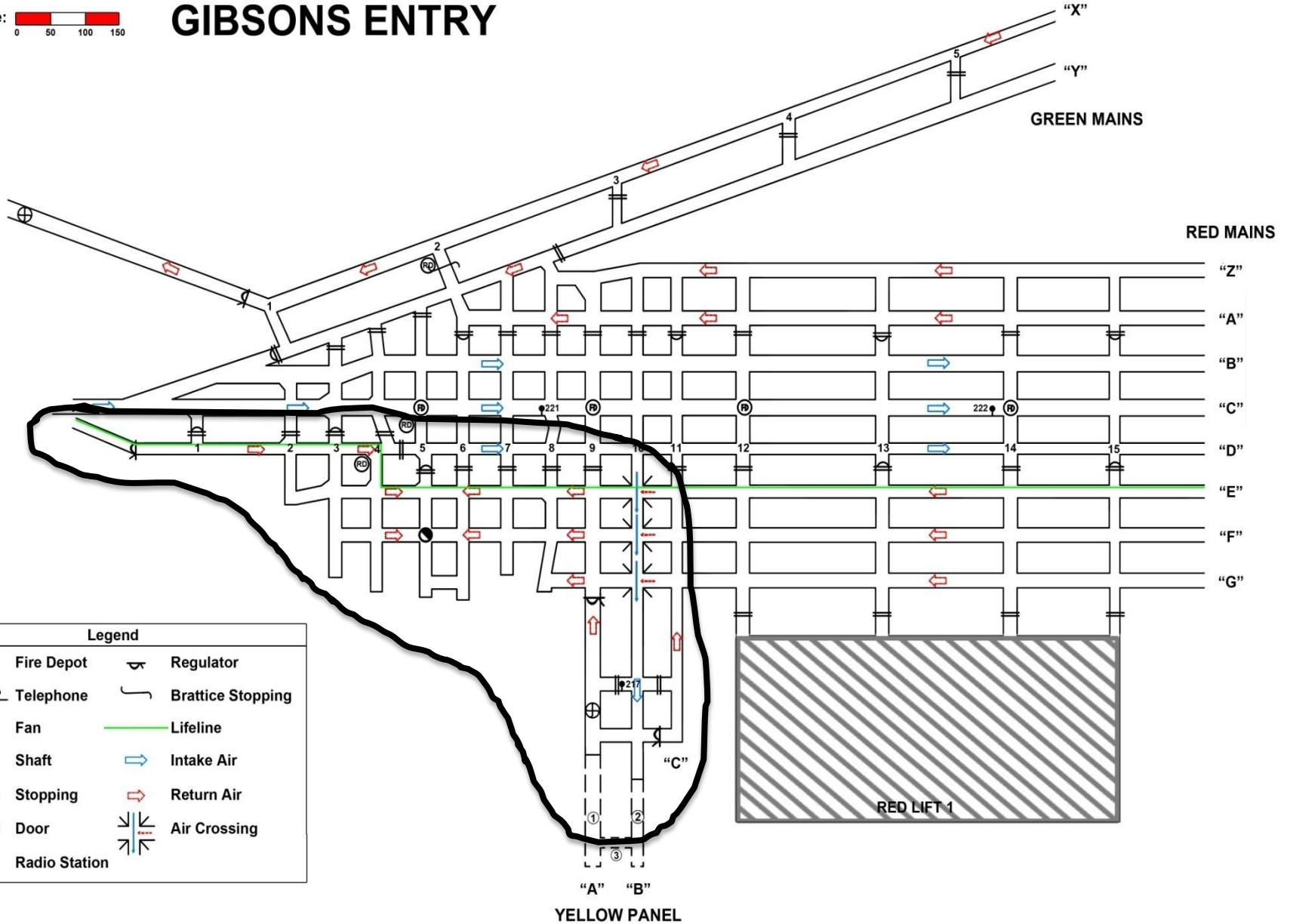
Station Underground– Final Scores



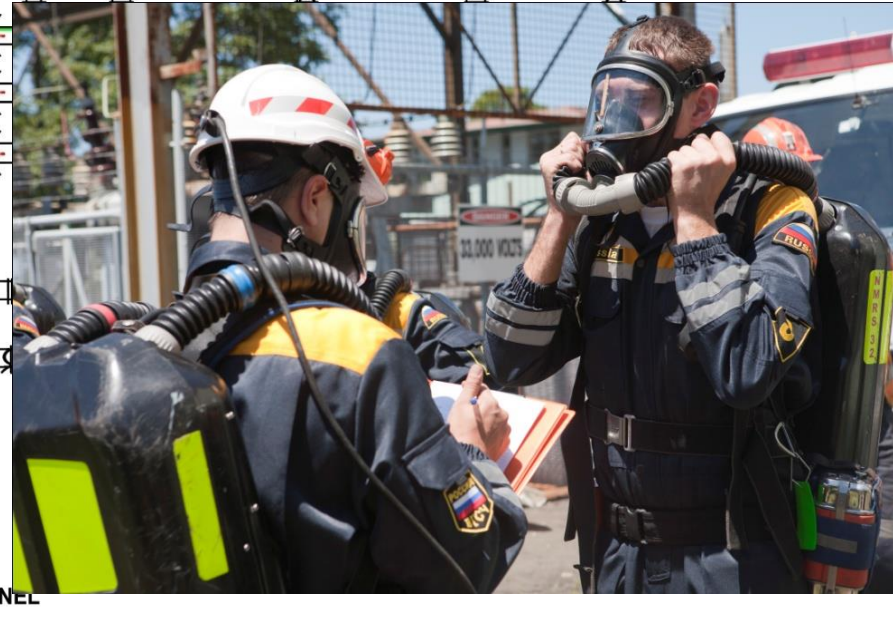
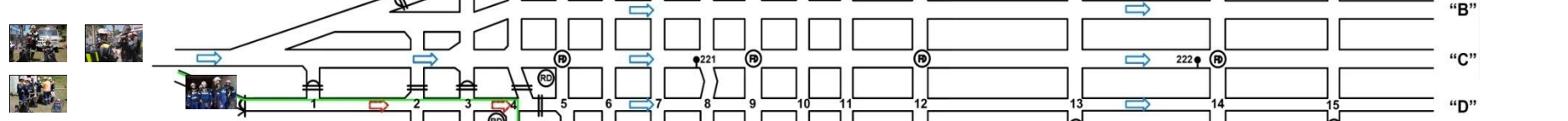


Scale: 0 50 100 150

NRE No.1 GIBSONS ENTRY



Legend	



PANEL

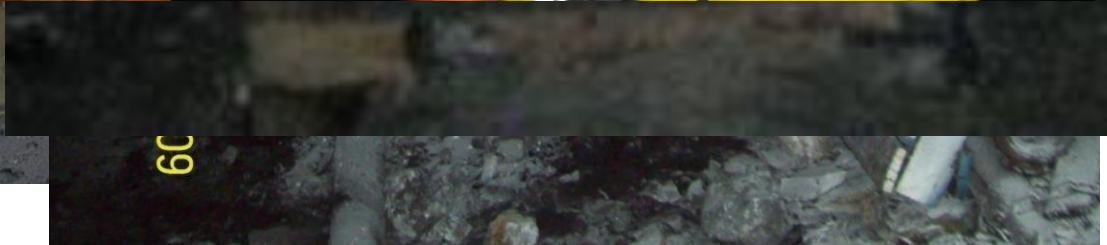


NRE No.1 GIBSONS ENTRY

Scale: 0 50 100 150



- Fire
- Tel
- Far
- Sh
- Sto
- Do
- Ra





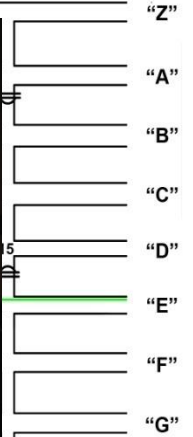
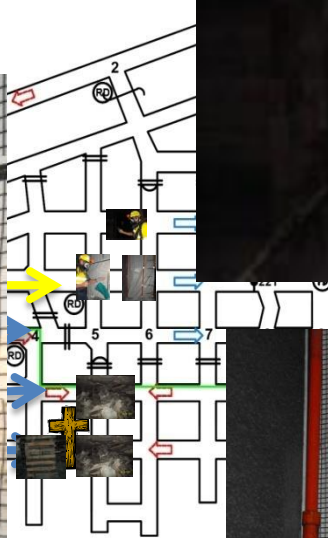
Scale: 0 50 100 150

NRE No.1 GIBSONS ENTRY



MAINS

RED MAINS



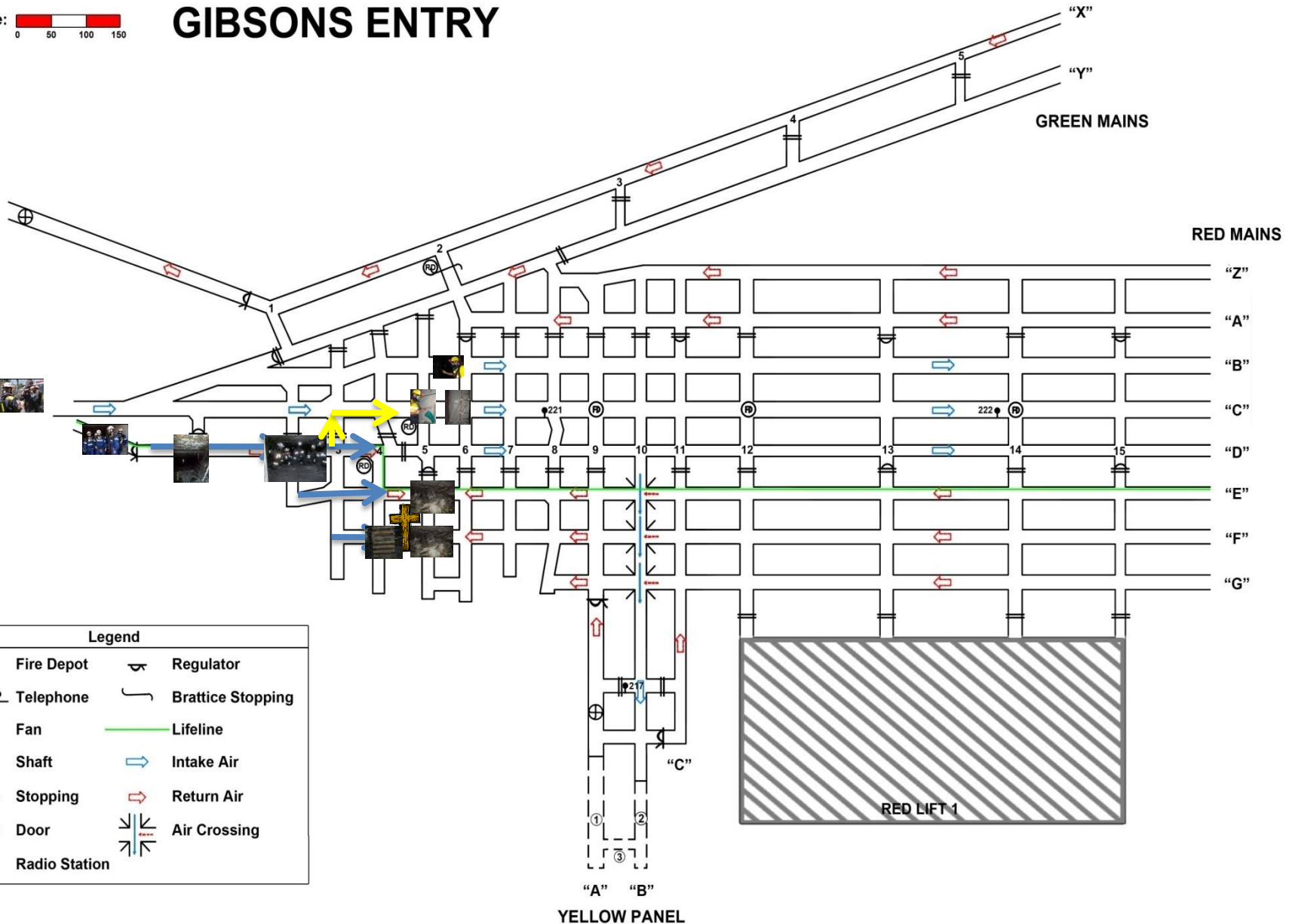
LIFT 1

Radio Station



NRE No.1 GIBSONS ENTRY

Scale: 0 50 100 150

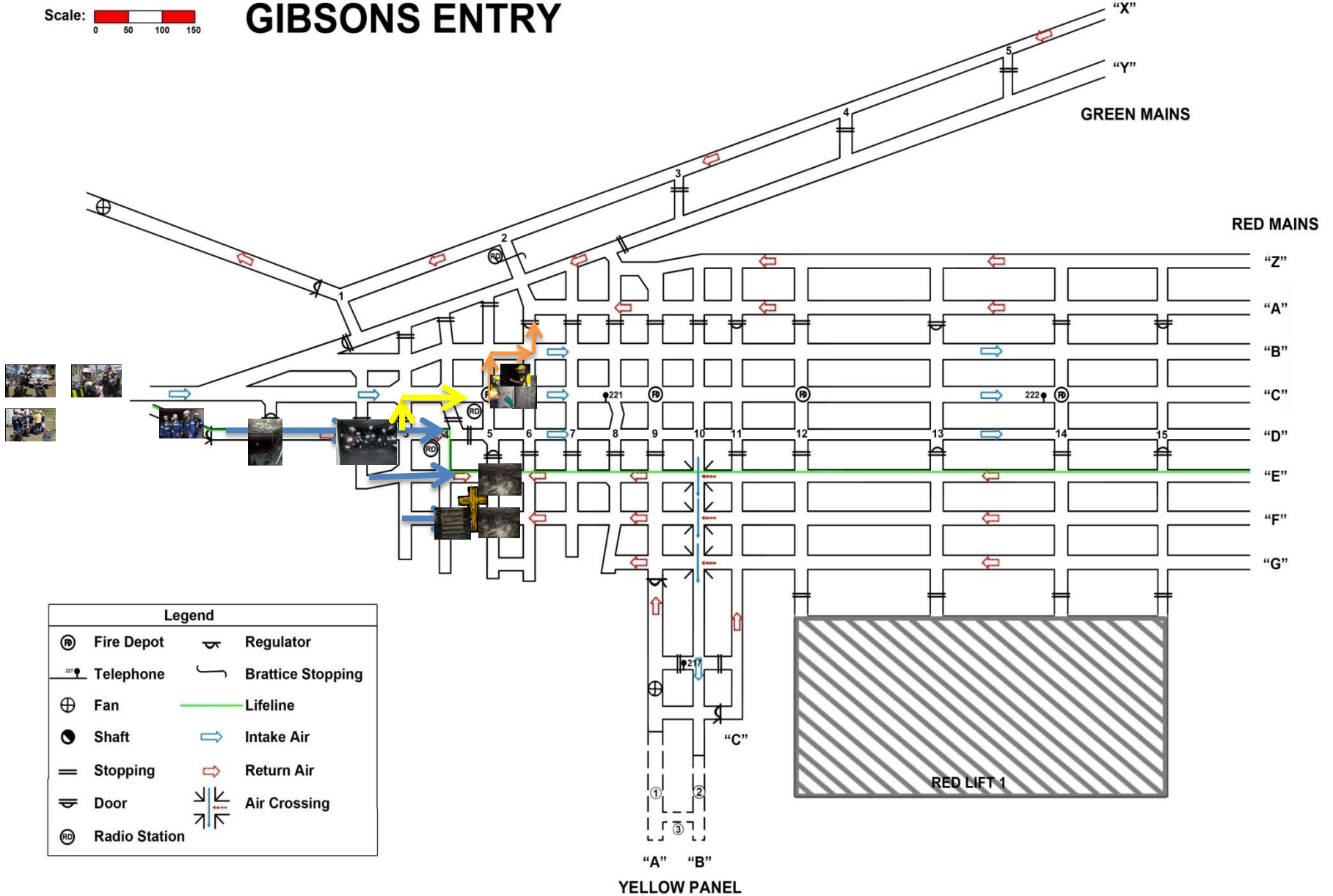


Legend	



Scale: 0 50 100 150

NRE No.1 GIBSONS ENTRY

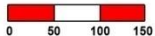


Legend

- | | | | |
|--|---------------|--|-------------------|
| | Fire Depot | | Regulator |
| | Telephone | | Brattice Stopping |
| | Fan | | Lifeline |
| | Shaft | | Intake Air |
| | Stopping | | Return Air |
| | Door | | Air Crossing |
| | Radio Station | | |



NRE No.1 GIBSONS ENTRY

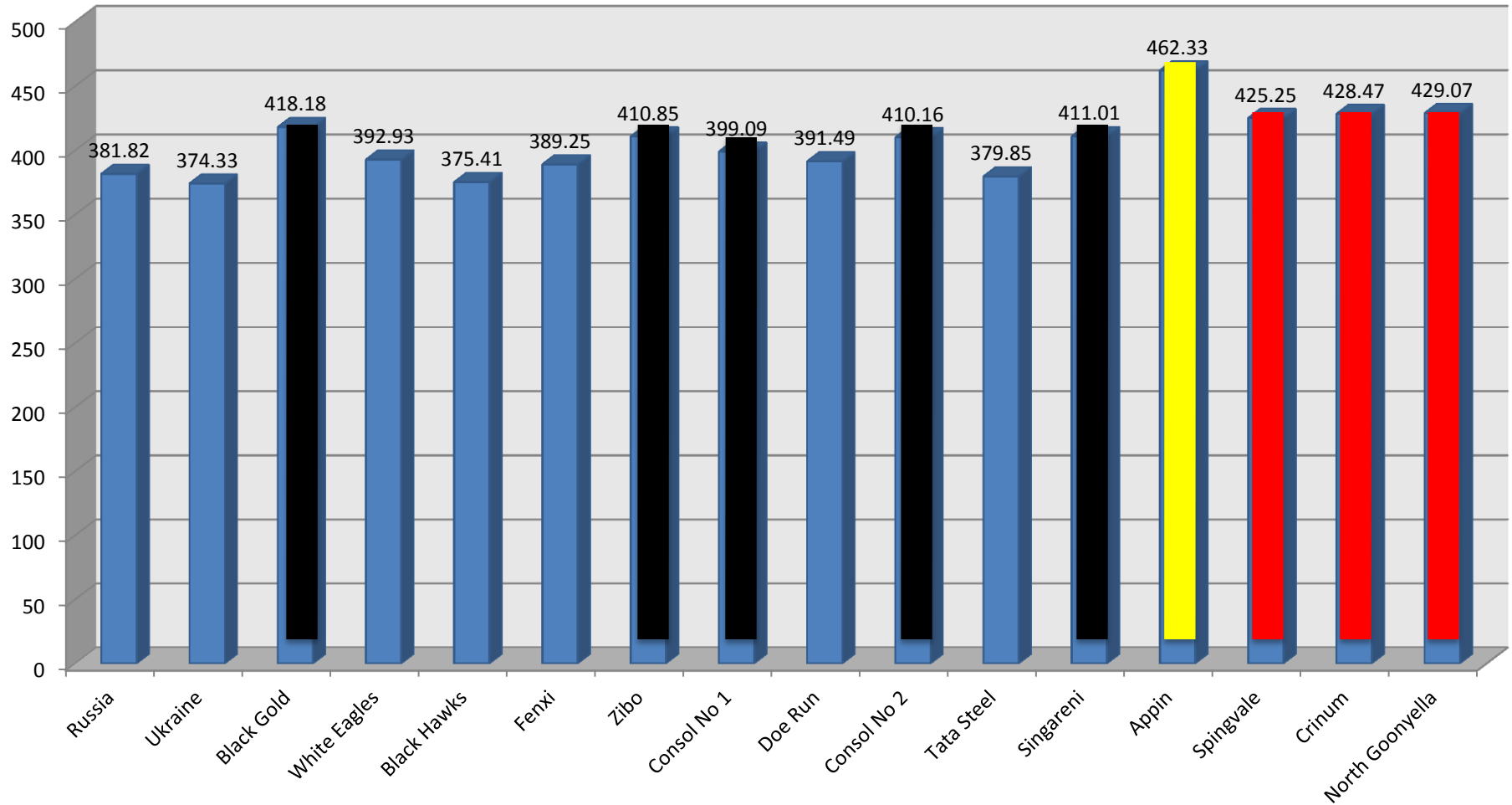
Scale:  0 50 100 150



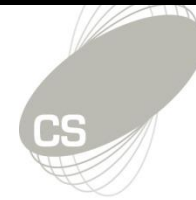
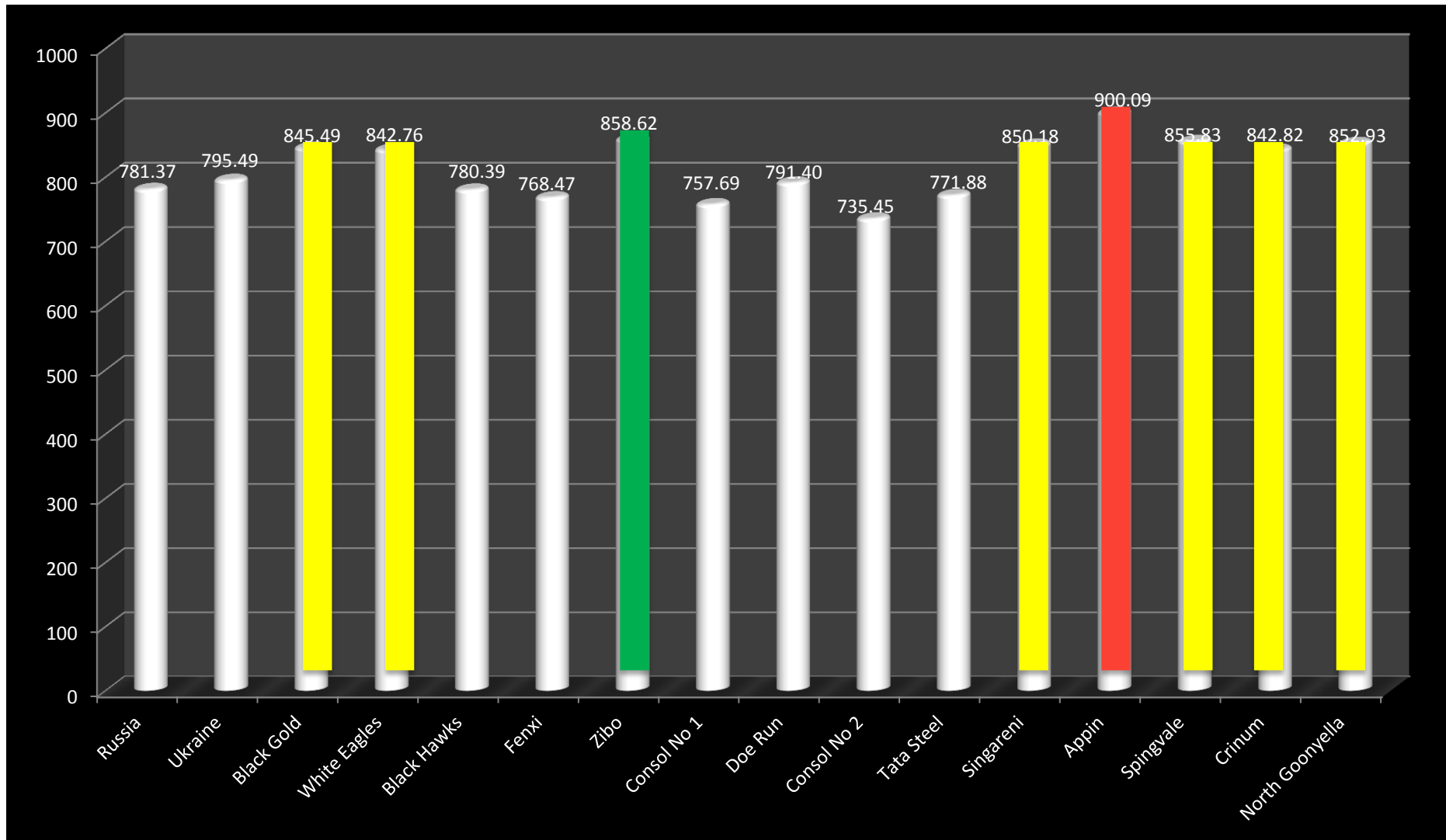
-  Fire Detector
-  Telephone
-  Fan
-  Shaft
-  Stopping
-  Door
-  Radio



NRE Underground– Final Scores



OVERALL TOTAL– Final Scores



Observations

- CSPL teamwork was very effective in delivering quality outcomes
- Venue was good – assessors should be accommodated separate from competitors
- Chinese dressage was impeccable – need to capture examples of best practice on video.
- Priorities can vary, eg with Station exercise – for coal based teams fire was the priority, whilst for metalliferous teams it was the patients



Observations

- Australian Captains role is seen as team safety and ensuring set tasks are completed (not to physically do task)
- Teams use of designated clip board for carrying of mine plan worked well
- Most teams failed to assess the fire
- Teams tended to "rush through" exercises
- All teams need to improve their ability to multitask – this can be improved by having the captain maintain an overall perspective of the situation and team deployment
- Concept of flowing from one exercise to another worked well.



Recommendations

- Ensure adequate "set –up" time (would always like more!)
- Design and use "team feedback form" on completion of competition
- Understand gift exchange process/ cultural differences – focused on making competition run well but could have done more in understanding nuances of teams expectations and protocols
- Inform local businesses of event, (visitors and language barriers)
- Stress physical nature of exercises
- Consider more use of "written" instructions to foreign speaking teams rather than verbal instructions
- Each team should have a social liason
- Use of visual aids to teach techniques is recommended (e.g breach a stopping, donning Mars, CSE to CABA changeover, CABA donning, etc)



Feedback

"Thanks again for the best contest in which we have participated. All of you deserve to be proud of what has been accomplished.."

Bob Roscoe, VP Mining/General Manager, Doe Run SEMO Mining and Milling Operations – USA

"They came back so happy. They were all so praise for you for the excellent arrangements and for the concept of the competitions"

D.Baidya, Superintendent, Mines Rescue, Singareni Collieries Company Limited – India

"Just a short note of appreciation on behalf of the North Goonyella Mines Rescue Team... your team ran a excellent comp, the boys thoroughly enjoyed the competition especially the VR"

Peter Purdie, Mines Rescue Coordinator/Fire Officer, North Goonyella Coal Mine, Peabody Energy Australia

"Firstly may I thank you for a great competition which we attended as non-competitors, it was good to see other teams from around the world competing to such a high standard and competence level"

Stuart Richardson - Station Officer/Training Manager (UK)

"On behalf of the Ukrainian team I'd like to thank you for the excellent organization of the event and warm hospitality!"

Yuriy Spivak DZGA Sales Director (Ukraine)

"Our Team enjoyed the competition and we believe that it was a great learning experience for our mine rescue team members. We believe that competitions build and reinforce the skills needed in the mining industry to help keep everyone safe and healthy."

Karonica Brice, Safety Manager, The Doe Run Co, SEMO Division

"We all had a wonderful experience in Australia especially for all competitors who went abroad for the first time. The competition was so well organized and innovative, we all have learnt a lot. "

Mr. Wang Guangyuan, Section Officer, State Administration of Work Safety, P. R. China



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Established 1926