



COMMITTEE FOR MINERAL RESERVES
INTERNATIONAL REPORTING STANDARDS

CIM – Canadian Institute of Mining, Metallurgy and Petroleum

Paul Bankes November 20, 2013

- **Update of “CIM Definition Standards”**
- Global Mining Standards and Guidelines
- CIM Best Practice Guidelines

Committee Mandate:

- Unlike other CRIRSCO codes, NI43-101 references the “CIM Definition Standards” for major reserve and resource definitions, definition guidance and classification schemes.
- CIM Council created the CIM - Standing Committee on Mineral Reserve and Mineral Resource Definitions to:
 - maintain and update the “CIM Definition Standards”
 - represent the CIM on CRIRSCO

- Over time, the major definitions maintained by CRIRSCO members have drifted from the common 1997 definitions
- CIM Definition Standards
 - last major update November 2005
 - update in 2010 included Feasibility and Pre-feasibility
- Over the last two years, the Standing Committee has modified *draft* definitions and guidance for the 10 definitions currently referenced to the CIM.
- The revised *draft* definitions address recent changes in NI43-101, CSA, CRIRSCO and UN requests.

The 10 revised *draft* definitions are listed below:

Pre-Feasibility Study

Measured Mineral Resource

Feasibility Study

Mineral Reserve

Modifying Factors

Probable Mineral Reserve

Mineral Resource

Proven (Proved) Mineral Reserve

Inferred Mineral Resource

Indicated Mineral Resource

- The Standing Committee has worked with CIM staff to develop a process for Industry and CIM member consultation.
Status:
 - ✓ CIM staff completed Web Site where members shared comments
 - ✓ Sent notice to advise CIM members of process.
 - ✓ Published an article and “call to web” in CIM Magazine – May issue
 - ✓ 90 day period for member and industry consultation - May to August
 - Incorporate and respond to comments - September to December

- The Standing Committee has received a very favorable response to the proposed revisions to the *draft* definitions. In almost all cases, the industry comments:
 - Proposed minor revisions to the current *draft* wording.
 - Requested additional CIM definition clarification and guidance.
- The results from the industry consultation have been distilled into 27 comments and suggestions which are being investigated by the committee.

Pre-Feasibility Study	-	1 comment
Feasibility Study	-	1 comment
Modifying Factors	-	4 comments
Mineral Resource	-	9 comments
Inferred Resource	-	9 comments
Indicated Resource	-	<i>no issues</i>
Measured Resource	-	1 comment
Mineral Reserve	-	1 comment
Probable Reserve	-	1 comment
Proven Reserve	-	<i>no issues</i>

- Update of “CIM Definition Standards”
- **Global Mining Standards and Guidelines**
- CIM Best Practice Guidelines

Global Mining Standards
and Guidelines Group



Global mining collaboration on solutions to common industry problems, needs & technology through standards, guidelines, & best practices.

Objectives:

1. Centre of facilitation
2. Information & knowledge
3. Identification/utilization of existing standards & practices
4. Drive/support standards & guidelines development where value is identified

Member Companies: 28
Participating Companies: 98
Members-at-large: 400

Budget: \$260K (2013)
Member Companies (@\$5000)
Partners (@\$25,000)

Global Outreach

- ✓ Canada, USA, Australia, South Africa
- ❖ South American Strategy



Current Projects

Unified Shovel Interface and API



- ✓ Access to onboard real time systems and data
- ✓ Operational data requirements and common KPIs
- ✓ Underground Communications Infrastructure
- ✓ Leading Indicators practical guidelines to support ICMM document
- ✓ Energy consumption in communitation
- ✓ Strategic development

Topics for Discussion

- Update of “CIM Definition Standards”
- Global Mining Standards and Guidelines
- **CIM Best Practice Guidelines**

CIM - Best Practice Committee

- The Committee is developing industry guidance for the preparation of “Feasibility” and “Prefeasibility studies”.
- Committee has begun the first major update of “Best Practice Guidelines” since 2005.