International Trends in Valuation of Mineral Projects – Standards and Regulations

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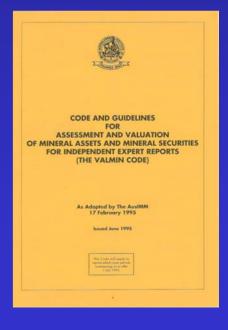
Mineral Property Valuer Ellis International Services, Inc. Denver, Colorado, USA www.minevaluation.com



China Mining, Beijing, 13-15 Nov. 2007

Main Developments of Mineral Valuation Standards – VALMIN Code, Australia

- 1995 first published, by The Australasian Institute of Mining and Metallurgy (AusIMM)
- Introduced important ethical principles:
  - transparency, materiality, competence, and independence
- Major focus on technical assessment of mineral properties
- Enforceable on AusIMM members for financial reporting
- 2005 edition, 23 pages



Main Developments of Mineral Valuation Standards – CIMVal Standards, Canada

- 2003, published by The Canadian Institute of Mining, Metallurgy and Petroleum (CIM)
- the first set of mineral valuation standards to incorporate the three valuation Approaches
  - Cost Approach
  - Market (Sales Comparison) Approach
  - Income (Capitalisation )Approach
- Instructions only for Market Valuation of the Real Property portion of mineral holdings
- 33 pages

STANDARDS AND GUIDELINES FOR VALUATION OF MINERAL PROPERTIES

VAL STANDARDS AND GUIDELINE

SPECIAL COMMITTEE OF THE CANADIAN INSTITUTE OF MINING, METALLURGY AND PETROLEUM ON VALUATION OF MINERAL PROPERTIES (CIMVAL)

> FEBRUARY 2003 (FINAL VERSION)

Main Developments of Mineral Valuation Standards — International Valuation Standards (IVSs)

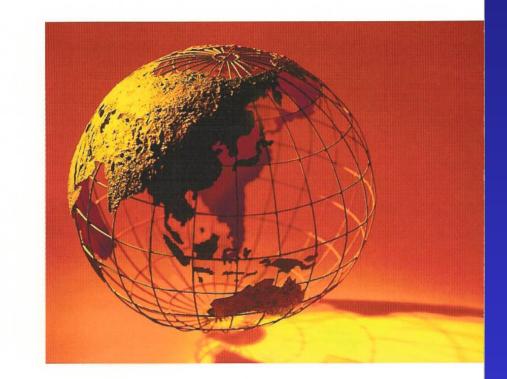
- 2005, the Seventh Edition of the IVSs contains mineral and petroleum valuation standards
  - Published by the International Valuation Standards Committee (IVSC)
- Designed for worldwide use
- Based on comprehensive Generally Accepted Valuation Principles (GAVP)
- 2007, the Eight Edition, 462 pages

International Valuation Standards Seventh Edition 2005





International Valuation Standards Eighth Edition 2007





International Valuation Standards Committee

## International Valuation Standards (IVSs)

- Valuation of all asset types:
  - Real Property
    - Includes mineral rights, mineral deposits, land, buildings
  - Personal Property
    - Includes machinery and equipment, working capital and securities
  - Businesses
    - Includes mine and quarry operating entities
  - Financial Interests
    - Intangible assets, including options to buy or sell real property and personal property

### International Valuation Standards (IVSs)

- Market-based and Non-Market valuations
- Valuations for most purposes
  - Including private sector (non-government) financial reporting (corporate accounting), particularly with the International Financial Reporting Standards (IFRSs)
  - and public sector (government) accounting, particularly with the International Public Sector Accounting Standards (IPSAS)

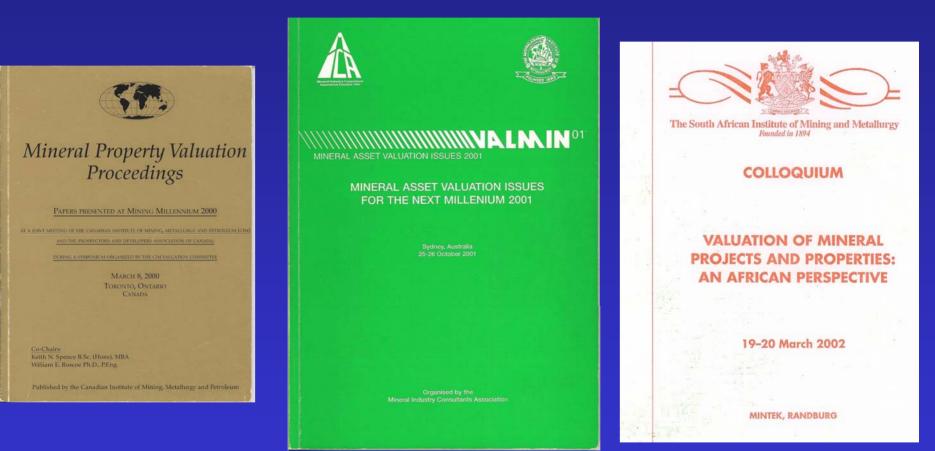
## International Valuation Standards (IVSs)

- Principles-based standards, not rules-based
  - Minimizes loopholes for abuse of standards
  - Minimizes obsolescence with changing legislation, economy, and professional practice
  - The basic principles are common across all professional sectors of valuation
  - Minimizes conflicts of theory, principles, and modes of application between valuation sectors

## International Valuation Standards Committee (IVSC)

- Published the first set of IVSs in 1985
  Mainly for valuation of land and buildings
- United Nations NGO, working closely with World Bank, EU, BIS, OECD, IMF, WTO, Basel Banking Committee
- 50 nations participate in developing and maintaining its standards
  - The IVSs are translated into a number of languages
- China Appraisal Society is a Full Board Member and a significant sponsor

# Participation Globally in Minerals Valuation Conferences



#### Canada 2000

### Australia 2001

### South Africa 2002

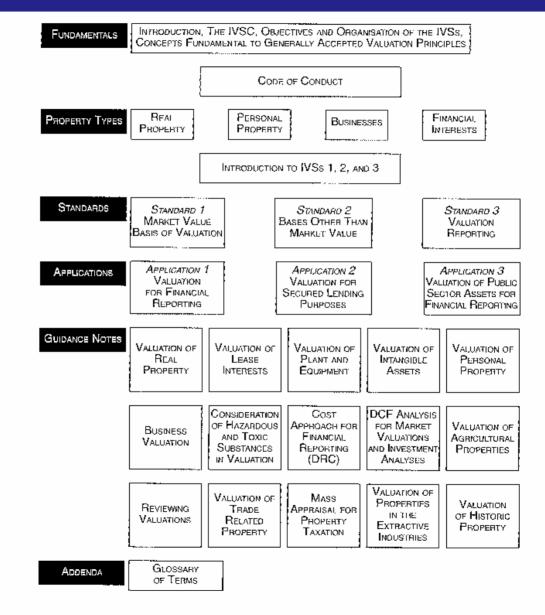
# Participation, United Nations, Geneva



# Need for a Global Extractive Industries Valuation Standard

- Minerals and petroleum companies work internationally
- Minerals and petroleum valuers (appraisers) work internationally
- Companies report internationally to:
  - Securities markets
  - Investors
  - Lenders
- Investors and lenders compare projects internationally
- Governments compete when leasing out or privatizing mineral properties
- 150+ countries need standards
- Required to support *current value* accounting for the extractive industries adopting the IFRSs

### Structure of the IVSs



# **IVSC Undergoing Change**

- Demand for the IVSs and IVSC interpretation support is rapidly increasing
- Increasing needs to support the rapid global adoption of the IFRSs (such as in China)
- In November 2007, changing name to International Valuation Standards Council
- Paid staff replacing volunteer professionals
- A new International Valuation Standards Board within IVSC.

# **IVSC Best Practice Technical Paper**

- IVSC Extractive Industries Technical Paper is scheduled for publication in 2008
  - After three years of development by IVSC's Extractive Industries Task Force
- Provides comprehensive, best practice guidelines for valuations in the extractive industries (minerals and petroleum)
- Explains the application and implications of many of the IVS standards to minerals valuations

# Standards Trends Internationally

- Globalisation is driving global uniformity of standards
  - Global uniformity is necessary in measurement and classification systems for all industry sectors for efficient, competitive international markets
- Global convergence of private sector accounting standards on the IFRSs, supplemented by local guidance.
  - Globalised stockmarkets and banking demand uniform financial reports.
  - In Feb. 2006, China issued 39 new IFRS-based accounting standards for business enterprises.
  - Globalisation demands uniform valuations of assets and liabilities for those reports

# Standards Trends Internationally

- Reduction from approximately 200 minerals and petroleum reserve-resource classification systems worldwide, towards harmonised
   SPE-UNFC-CRIRSCO combined classification
- Merging of valuer certification bodies nationally and internationally, with need for uniform valuer education and certification

# **Minerals Valuation Trends Internationally**

- Globalisation by mining and petroleum companies, commodities markets, stockmarkets, financiers, and professionals working within those, is causing trends towards:
  - uniform minerals and petroleum valuation standards worldwide
    - Supplemented to meet national needs
  - uniform qualifications and competency requirements for minerals and petroleum valuers worldwide
  - Certification or licensing of those valuers by self-regulating organisations with demonstrated enforcement of a strong Code of Ethics.

# **Minerals Valuation Trends Internationally**

- Increasing demand for extractive industries valuers to work across borders
- Growing shortage of competent extractive industries valuers
- Continued proliferation of national/state/provincial certification/license requirements for engineers, geologists, and land valuers
- Inconsistencies in these requirements, lack of reciprocity, and varying land and mineral laws, continue to increase the difficulty for extractive industries valuers to work legally across borders.
  - For example, within the USA, Canada, and Australia
- Barriers to trade in professional services need to be minimized
  - A system of international reciprocity for certification and licensing of qualified persons should be developed

### **Extractive Industries Valuer Education**

- Minerals and petroleum valuation short courses teaching market valuation principles based on the GAVP are rare worldwide
  - No university programs
- No comprehensive textbook is available for teaching such

## **Extractive Industries Valuer Education**

- Comprehensive minerals/petroleum valuer education must be made available
- Instructional materials based on IVSs must be written
- Appropriately qualified instructors must be groomed to teach them
- Continuing education courses are needed

Extractive Industries Valuer Education — Alternatives

- Students and interested professionals can learn much from published professional papers on extractive industries valuation.
  - Some available at: <u>www.mineralsappraisers.org</u> and <u>www.minevaluation.com</u>
- Minerals industry professionals seeking education in market valuation commonly take short courses in real property or business valuation, offered by professional societies and educational institutions.

# Recommendations

- Nations and institutes should not develop their own valuation standards
- Valuation standards setters should adopt the complete set of IVSs by reference (allowing automatic updating), to avoid valuation sector and international conflicts of standards and inappropriate rules
- Supplement the IVSs as needed for local conditions and to provide enforcement of a Code of Ethics
- Support the development of educational materials and courses for student extractive industries valuers
- Remove or lower certification/licensing and other barriers, that prevent or impair entry by qualified and competent extractive industries valuers, to work in their specialization across state and national borders

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