

Reducing Mercury Use in ASGM

Introduction to the draft technical guidance document under development



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Basis of the Tech Document

- UNEP Governing Council Decision 25/5, paragraph 4: strengthen and enhance activities related to artisanal and small scale gold mining
- Purpose: to assist national governments with the development of models for programme design to improve national-level public policy
- Steering Group – presenters plus Partnership Area leads (UNIDO + NRDC)

Structure of the Tech Doc

- Relatively Short so that it is simple, attractive and functional
- Content
 - Control Options – Existing Technologies
 - Access Requirements
 - Operational Requirements
 - Gold Recovery Statistics
 - Social Aspects to Consider
 - Untested Technologies with Potential

Format and timing of the tech doc

- April 2011
 - Static document
 - Posted on web
 - Web based document – Wiki like evolving document
- May 2011
 - Peer Review complete
 - Dissemination Strategy Developed

Field Testing

- Ghana – zero mercury
 - Tanzania – vapour capture
 - Elimination of whole ore amalgamation
 - Retort use
 - Reactivation of mercury
 - Mercury and Cyanide
- Philippines? Peru? Guyana? Indonesia?

Reducing open burning: Vapour Capture

Ms. Budi Susilorini, Indonesia, Blacksmith Institute



Reducing open burning: Retort use

Mr. Rickford Vieira, Guyana, WWF



Reducing open burning: Retort use

Mr. Rickford Vieira, Guyana, WWF



Reactivation of Mercury

Mr. Sumali Agrawal, Indonesia, YTS



Eliminating whole-ore amalgamation

Mr. Manuel Reinoso, Peru, SONAMIPE



Eliminating whole-ore amalgamation

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Avoiding Mercury and Cyanide

Philippines, Banguet Corp.



Avoiding Mercury and Cyanide Philippines, Banguet Corp.



Zero Mercury: Direct Smelting Dr. Jerry Kuma, Ghana, UMAT



Existing Mercury Reduction Technologies

- Reducing open burning: Vapour Capture
 - Ms. Budi Susilorini, Indonesia, Blacksmith Institute
- Reducing open burning: Retort use
 - Mr. Rickford Vieira, Guyana, WWF
- Moving away from mercury whole-ore amalgamation
 - Mr. Manuel Reinoso, Peru, SONAMIPE
- Reactivation of mercury
 - Mr. Sumali Agrawal, Indonesia, YTS
- Avoiding combining mercury and cyanide
 - Mr. Lomino Kaniteng, Philippines, Banguet Corp.
- Zero Mercury Processing by direct smelting
 - Dr. Jerry Kuma, Ghana, UMAT
- Enhanced Gravity; Small Scale Cyanidation (Dr. Kevin Telmer, Canada)

Breakout Groups

1. Questions
2. Discussion
3. Recording
4. Reporting Back