FINAL COMPLETION REPORT

AngloGold Ashanti Mponeng Gold Plant West Wits

Introduction

This Revised Corrective Action Plan and Final Completion Report presents the evidence to support the successful implementation of Corrective Action Plan 2 (to correct the deficiencies identified in the certification audit of the above plant held in April 2007)

Corrective Action Plan 2

Principle 4 – Operations: Manage cyanide process solutions and waste streams to protect human health and the environment.

Operations Practice 4.1 Implement management and operating systems designed to protect human health and the environment including contingency planning and inspection and preventative maintenance procedures.

Elements 1, 2, & 3 (Maintaining <50 mg/l WAD cyanide)

Deficiencies

- The plant's residue slime occasionally exceeds 50 mg/l WAD cyanide levels

Original Corrective Actions

- Fully commission and optimise spent acid installation.
- Identify triggers that promote increase in WAD cyanide levels.
- Determine the response to the trigger events.
- Determine the relationship between WAD cyanide levels in plant residue, TSF point of deposition and decant point.
- Monitor WAD cyanide levels continuously over a 3 month period.

Additional Work Undertaken

- The site requested an extension of time on the original Corrective Action Plan to undertaken additional test work and investigations to develop and prove sustainable solutions to the WAD cyanide level variations.

Evidence Submitted to the Auditors

- A report detailing the test work, studies and modifications undertaken to more effectively manage cyanide within the operational process. This included reducing the free cyanide set point at the Leach from 140ppm to 100ppm, reducing cyanide strength in the caustic makeup from 0.8% to

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0.6%, defining the cyanide decay rate between the residue tank and the discharge at the TSF as 15ppm WAD, detailing parallel sampling using the Oxitrol WAD cyanide analyser and the Cynoprobe WAD cyanide analyser (demonstrating consistent over-reading by the Oxitrol at levels above 30ppm WAD by as much as 12ppm), and re-routing barren solution addition from the final residue tank to the No 9 Leach Pachuca.

- Summary of monthly WAD cyanide results from October 2007 to March 2008 demonstrating the results of test work and process modifications.
- Evidence of formal communications between the plant and the TSF manager on WAD cyanide measurements.
- Results of tests using the spent acid addition process which triggered the decision to move the barren solution addition point from the residue tank to the No 9 Pachuca.

Discussion

Monitoring indicated that high and variable copper content in the ore had resulted, historically, in an increase in cyanide addition in the process. It was identified that routing of barren solution to the residue tank as a problem resulting in higher WAD cyanide levels towards the end of the process. It was noted that this addition rendered addition of spent acid as a chemical control at this point ineffectual. The re-location of the barren addition to the No 9 Pachuca meant that spent acid could now function as one of the emergency measures to deal with elevated WAD cyanide levels arising from abnormal or emergency conditions.
Investigations on spikes in WAD cyanide levels showed that they were caused by aberrations in monitoring equipment or plant upsets. Investigations also demonstrated that under normal conditions, the plant was able to operate effectively and ensure that WAD cyanide levels discharged at the dam remained sustainably below 50ppm WAD. Furthermore, tests indicated that the Oxitrol analyser may have been, historically, over reading WAD cyanide results by as much as 12ppm at levels above 30ppm WAD. The plant has replaced the Oxitrol with the Cynoprobe, viewing the Cynoprobe as a more accurate method of measuring WAD cyanide levels. It is noted that the Cynoprobe is independently calibrated once per month.

Conclusion

The Lead Auditor, following discussions with the audit team, is satisfied with the corrective actions taken meet the requirements of the corrective action plans and thus enable substantial compliance in this production practice to be revised to Full Compliance.

Arend Hoogervorst
Lead Auditor

Date: 15/4/08

Signature notarised/certified
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