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OGMCOAL - Re: Polymer Test Procedure

From: Kevin Lundmark
To: Dana Marrelli; Dave Shaver
Date: 9/16/2010 9:35 AM
Subject: Re: Polymer Test Procedure
CC: Dale Harber; David Hibbs; Farley Wood; Ingrid Campbell; Jeffrey Stud...

Dana.

Thanks for distributing this information to the group. It is indeed encouraging that a method may be available to quantify the polymer concentration in treated water. Having looked through the information, the Division has a few concerns / questions that we'd like to raise for consideration by you and your vendor(s):

- 1) Has NALCO provided you a written method for the test they will be setting up with you at Crandall, or will you be using the WaterSolve method?
- 2) If the WaterSolve procedure will be followed, please clarify the following:
 - a) Will qualitative (Section 3.1) or quantitative (3.2) testing be performed at the mine site, and will samples be sent off-site to the WaterSolve laboratory for quantitative testing?
 - b) For the quantitative test procedures in Appendix A, will the procedure be followed for "Dry Products and Solution Products" (page 4 of 9), or for "Liquid Dispersion or Emulsion Grade Products" (page 6 of 9)? The Nalco 7763 MSDS describes the product as an emulsion.
 - c) The procedure requires solutions to be prepared using "water which is similar in quality to the water present in the sample to be tested". This is a concern especially considering that residual flocculant or coagulant in the treated water may complicate or prevent accurate determinations by this flocculation test. The test method employed should account for residual treatment chemicals.
- 3) The Division also has concerns on how temperature and the presence of suspended solids (including iron sludge) may affect the robustness of this method.
- 4) How will accuracy (detection limit), precision, and bias be evaluated?

Hopefully your vendor has already considered these. Please keep us posted on your schedule for setting up and running the flocculation tests at the site.

Thank you,
Kevin

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>>> "Marrelli, Dana" <dmarelli@coalsource.com> 9/15/2010 1:01 PM >>>

Hello everyone,

I have attached some information on polymer testing that we are currently looking into for use with our flocculent. Any other information you have about this testing would be appreciated.

Thank you,

Dana Marrelli

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