

KIF Ash Pond PH Treatment JPT Telecom Meeting Summary

Date: September 20th, 2006

Time: 2:30 PM

Project: KIF - Ash Pond PH Treatment

DCN:

Purpose: Weekly Project Update

Recorded By: Jeff L. Gray

Actions\Discussion:

1. Doug Shaffer, Tony Knight, and Melisa Dixon are currently looking at systems to lower and raise Ash Pond pH level. RSO&E Chemical Engineer Nareshkumar B. Handagama (Naresh) is evaluating the water quality test data provided by KIF, Harriman Utility Company, and Lindy Johnson (e.g. coal yard runoff area limited alkalinity and hardness data from skimmer wall, etc.). Naresh will complete his study by Friday, September 22, and give Doug and Melisa his conceptual recommendations for lowering or raising the ash pond pH level. Doug and Melisa will provide a preliminary layout of the proposed Ash Pond treatment systems to Jeff Gray Monday September 25 for distributing to the JPT. Naresh will attend the next JPT meeting at KIF to discuss his work.

The following options are being considered to raise or lower the pH level.

Lower

CO2 pressurized solution feed system
Acid injection

Raise

Dry lime injection
Liquid lime injection
Other chemical injection (sodium hydroxide, etc...)

2. Darrel Cross will walk down the site and report on what power is available after he gets power requirement information from Doug Shaffer.
3. Per the JPT request at the August 31st meeting, Brian Lankford and Doug Coleman along with Bob Rehberg investigated what would be required to upgrade the existing powdered lime pH control system. The existing system is beyond repair. The JPT decided to proceed with its plans to install new systems to control the ash pond pH level.
5. The pH control systems will be designed using the limited information available. The system will be installed, monitored, and adjusted to meet the requirements of KIF.
6. We will have a brief telecom meeting September 27th (2:30 PM). The meeting ID number is 7693.
7. The next JPT meeting at KIF will be September 29th, 9:30 AM in the Plant Managers Conference Room. The meeting ID number is 7693 for those who can't attend the meeting in person.

KIF Ash Pond PH Treatment Weekly Telecom Meeting
September 13, 2006
2:30 PM

Agenda

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|-------|--|-------------------------------|
| I. | Review of data from local utility on Emory River water quality for previous years winter months. | Chad Olmstead |
| II. | Review of cost to upgrade the existing powdered lime system to control pH level | Brian Lankford
Doug Colman |
| III. | Review of information obtained from companies with acid drip systems installed. | Tony Knight &
Roy Quinn |
| IV. | Do we need to install equipment to raise the pH level? | Tony Knight |
| V. | WBF Sodium Hydroxide System | Tony Knight &
Roy Quinn. |
| VI. | What did you do last week/what is planned this week? | Tony Knight |
| VII. | What did you do last week/what is planned this week? | Doug Shaffer |
| VIII. | What did you do last week/what is planned this week? | Melisa Dixon |
| IX. | What did you do last week/what is planned this week? | Jeff Gray |
| X. | Questions\Comments | All |

Reminder

Weekly telecom meetings on Wednesday's at 2:30 PM. The meeting ID number is 4820. Please let Jeff Gray know (via e-mail) by 9:00 AM on the day of the meeting if you have items you would like to add to the meeting agenda.

1. Tony Knight, Doug Shaffer, Melisa Dixon and Roy Quinn went to WBF to look at the NaOH system they have installed to control the pH level. The water stream treated at WBF is much smaller than the water stream will be treating at KIF. Per Tony Knight below are the pros and cons for installing an acid drip system.

Pros:
Small Capital Cost

Cons:
No control

JPT Telecom Meeting Summary

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Actions\Discussion:

1. Tony Knight, Doug Shaffer, Melisa Dixon and Roy Quinn went to WBF to look at the NaOH system they have installed to control the pH level. The water stream treated at WBF is much smaller than the water stream will be treating at KIF. Per Tony Knight below are the pros and cons for installing an acid drip system.

Pros:

Small Capital Cost
Effective

Cons:

No control
Valves need replacing annually
Safety Concerns (eyewash, safety shower requirements)

2. Doug Shaffer, Tony Knight, and Melisa Dixon are currently looking at systems to lower and raise Ash Pond pH level. Doug Shaffer will provide a layout of the proposed Ash Pond treatment systems by September 22nd.
3. Darrel Cross will walk down the site and report on what power is available at the site for the Ash Pond pH control system at the September 27th JPT meeting.
4. Brian Lankford and Doug Coleman were not available for the telecom meeting. They were asked August 31st to look into what will be required to upgrade the existing powdered lime pH control system and report to their finding to the JPT during the September 13th telecom meeting. The information was not received. Brian and Doug, please provide the information during our telecom meeting September 20th.
5. The next JPT Meeting at KIF will be September 27th, 9:30 AM.
6. Chad Olmstead provided the JPT with a copy of information he received from the local utility company on the Emory River water quality data for the winter of 2005 (10/05 - 04/06). Linda Campbell provided the JPT data on the KIF Ash Pond pH level from 2000 until current time. JPT members agreed sufficient data wasn't available to justify postponing installing the system to lower the Ash Pond pH level.