

JPT Meeting Summary

Date: August 31, 2006

Time: 1:00 PM

Project: KIF - Ash Pond PH Treatment

DCN:

Purpose: Review Water sampling Results and Start Phase 1B Engineering

Recorded By: Jeff L. Gray

Attendees: The sign in sheet attached

Actions\Discussion:

1. Tony Knight provided a report on the action items he was assigned at the JPT meeting.
 - a. Look at alternatives to CO₂ and NaOH
 - Alternatives to CO₂ that have been evaluated are stack gas emission removal and acid drip systems. Stack gas removal appeared to be a great use of the gas; however, because of the many different constituents that make up the gas, purifying the CO₂ would be very difficult.
 - Acid drip systems are an effective alternative. The main concerns with these types systems are there are no control on flow and safety concerns are moderate. No TVA facility uses the acid drip system. Tony and Roy Quinn will contact companies in the area that have used the acid drip system and give a report on their findings during the telecom meeting September 6th.
 - b. Feed rate for CO₂
 - Approximately 4.2 tons/day
 - c. Feed rate for NaOH (or other) ***this info will come earlier as a result of 4 below - suggest not including or refer to 4 and speed up significantly***
 - Data will be collected this winter to help evaluate what type system will be needed for increasing the pH.
 - d. Method of chemical feed recommendations
 - Because of the high efficiency of the liquid injection over the gaseous injection, the liquid injection is recommended.
 - e. Location of chemical feed recommendations
 - A good location for the chemical feed would be adjacent to or inside the discharge weirs going from the main ash pond into the stilling pond.
 - f. Safety considerations for all chemicals
 - Minimal safety concerns with CO₂. Other chemicals that may be required for raising the pH will be evaluated at a later time.

g. **CO2** Tank Material recommendations

- Carbon Steel Tank

2. KIF Plant wants to get away from using the existing powered lime system to control the pH level. Brian Lankford and Doug Coleman will look into what will be required to upgrade the existing system and report to the JPT during the September 13th telecom meeting.
3. Three phase power is available at KIF for the Ash Pond pH Treatment Project.
4. Chad Olmstead will check with the local utility company to see if any water quality data is available on the Emory River for previous years winter months and report his finding to the JPT September 6th.
5. The Ash Pond water is 5 to 6 feet deep. A gas CO2 system needs 11 feet of water to operate properly. A CO2 injection system similar to the one being installed at JSF will be installed at KIF to lower the ph level.

6. **JPT Members**

Jeff Gray	EDS Civil, Responsible Engineer
Doug Shaffer	RSO&E Mechanical Engineer
Melisa Dixon	RSO&E Civil Site Engineer
Tony Knight	RSO&E Chemical Engineer
Linda Campbell	KIF PA(E)
Chad Olmstead	KIF System Engineer
Bob Rehberg	KIF FGD Manager
Brian Lankford	Operations
Darrel Cross	Electrical Engineering
Lindy Johnson	Environmental Affairs

Note: Bob Rehberg will have an IM person assigned to the JPT.

7. Brian Lankford will ask Linda Wilson to sent Jeff Gray a copy of the current KIF topo Friday September 1st.

Post Meeting Note: The information was not provided.

8. Doug Shaffer will **provide** issue a layout of the KIF Ash Pond pH Treatment System on September 20th.
9. Tony Knight and Roy Quinn will locate information on the WBF sodium hydroxide system and give it to Doug Shaffer by September 11th.
10. The next JPT Meeting at KIF, September 27th, 9:30 AM.

11. Design direction, phase, and schedule

- a. Phase 1 begins immediately with phases 2 and 3 following.
- b. All work completed in 07
- c. Schedule

Date	Deliverable
8/24/06	Chemical Data From Tony Knight
8/31/06	Phase 1B Start With Discipline Engineering
11/15/06	Phase 1 Study Complete
12/1/06	Tank Requisition Issued
2/15/07	Phase 2 DCN Issued
5/1/07	Tank Delivered
5/1/07	Construction Start
8/1/07	Construction Complete
8/1-8/31	Operation Checkouts
9/1/07	Turnover

12. We will have 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.

| *Do you want to add std meeting agenda?*