

8-31-06

KIF Ash Pond PH CONTROL

- Introduction

- Tony reviewed

- Choose CO₂ as method for KIF

- Treating with acid drip would require addition

- Fewer safety issues with CO₂ instead of acid.

Tony - Look to see who has experience with acid drip system.

- Sulfuric Acid vs CO₂ cost for system

- Can we make acid drip system work.

- No system now in TVA.

- - Lot Risk for having Acid drip system.

- - Wed Tony will look@ acid drip system
Reg' ^{also} will help Tony

- Plant want to get away from powdered lime
- Max flow rate use 4.2 ton/day

Emory River

- Will use previous years data to design system for alkalinity.
for try to get data from City of
Harrison Water Co.

→ 3 Phase power is available @ KIF
from ammonia fan.
480V

- 30 Amp

- Watt Bar Fossil Pond

Sodium Hydrox

Chad will check with locate utility on
~~Jonda Campbell~~ water quality data.

- Water Depth 5 or 6 feet, gas need 11 feet

if injected in trench must monitor
pH in pond.

→ • inject near outfall before goes into stilling pond.

If use acid must provide tie back system
1/2 million dollars.

CO₂ vs ACID

↓
TO lower
pH.

Sodium Hydroxide to raise pH

- JPT

• RE - Jeff Gray

• "

- Lindy

- Chad Olmstead

- System

- Bob Reiberg

- Brian Hankford

- Tony

- Lisa

- Parsons → Darrel

= Pant F m from Bob

8/30/06

- Brian to work with Doug Coleman to look @ upgrading the existing lime system to raise pH system. ✓

Tank

- Doug Layerts



3 weeks for Layerts

Topo data of pond

- Brian Hankford → Linda Wilson, topo data
- Next mtg @ plant 9/27/06 @ 9:30
- Ray/Tony pull up WBF NaOH if give to Doug