

Gray, Jeff

From: Purkey, Ronald E
Sent: Wednesday, August 02, 2006 7:44 AM
To: Purkey, Ronald E; Johnson, Linden Printz; Campbell, Linda F; Knight, Tony Alan; Dixon, Melisa D; Lennon, Kendal R; Quinn, James Roy III; McDonald, Cathy L; Varner, Arthur L; Williams, Brian E; Carter, James C Jr; Nelson, Gary R; Rehberg, Robert L
Cc: Olmstead, Chadwick Regan; Hedgecoth, Melissa A; Thompson, Melissa A; Gray, Jeff; Petty, Harold L
Subject: RE: KIF - Ash Pond PH Treatment Meeting of 7/24 - Decisions and Actions

A reminder of the weekly telecon today at 2:30 pm which will focus only on the PH treatment with Tony Knight per item 11 below. Thanks.

Ron

-----Original Message-----

From: Purkey, Ronald E
Sent: Monday, July 24, 2006 6:13 PM
To: Purkey, Ronald E; Johnson, Linden Printz; Campbell, Linda F; Knight, Tony Alan; Dixon, Melisa D; Lennon, Kendal R; Quinn, James Roy III; McDonald, Cathy L; Varner, Arthur L; Williams, Brian E; Carter, James C Jr; Nelson, Gary R; Rehberg, Robert L
Cc: Olmstead, Chadwick Regan; Hedgecoth, Melissa A; Thompson, Melissa A; Lundy, Dennis L; Cahill, Donald Patrick; Gray, Jeff; Petty, Harold L
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2. The project is in the early stages of Phase 1. The team decided that information on the chemistry of the ash pond water (now and future) and the method of treatment based on the chemistry and pond configuration was needed before discipline engineering involvement.
3. Tony Knight will lead the effort to obtain the information in item 2. Tony will have the final information available 8/24/06. The deliverables will be as follows:
 - a. Look at alternatives to CO₂ and NaOH
 - b. Feed rate for CO₂
 - c. Feed rate for NaOH (or other)
 - d. Method of chemical feed recommendations
 - e. Location of chemical feed recommendations
 - f. Safety considerations for all chemicals
 - g. Tank Material recommendations
4. Lindy Johnson stated that, due to meter tolerance, the PH will be kept between 6.2 and 8.8.
5. Linda Campbell will provide Tony Knight the effluent flow from the plant going to the ash pond by 8/2/06.

08/02/2006

6. Ron Purkey will provide to Tony Knight the 10 year 24 hour rainfall runoff from the dredge cells adjacent to the ash pond by 7/31/06.

7. Art Varner provided the short code 001FT35 for the Phase 1 study.

8. The Ash Pond PH treatment must be installed by 9/30/07.

9. A preliminary schedule was developed as follows:

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5/1/07	TANKS DELIVERED
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8/1/07	CONSTRUCTION COMPLETE
8/1-8/31	OPERATIONAL CHECKOUTS
9/1/07	TURNOVER

10. The next team meeting will be at KIF on Thursday 8/31/06 at 1 pm in the Plant Manager's conference room.

11. There will be weekly Wednesday telecons beginning 8/2 at 2:30 pm. The meet me number is 423 751 2428; meet me no. 4820.

If you have any questions or comments on any of the above, please call me at 4820-C. Thanks.

Ron Purkey
 Manager of Civil Engineering
 LP 2G-C

08/02/2006

Gray, Jeff

From: Johnson, Linden Printz
Sent: Wednesday, July 26, 2006 12:48 PM
To: Purkey, Ronald E; Campbell, Linda F; Knight, Tony Alan; Dixon, Melisa D; Lennon, Kendal R; Quinn, James Roy III; McDonald, Cathy L; Varner, Arthur L; Williams, Brian E; Carter, James C Jr; Nelson, Gary R; Rehberg, Robert L
Cc: Olmstead, Chadwick Regan; Hedgecoth, Melissa A; Thompson, Melissa A; Lundy, Dennis L; Cahill, Donald Patrick; Gray, Jeff; Petty, Harold L; Johnson, Linden Printz
Subject: RE: KIF - Ash Pond PH Treatment Meeting of 7/24 - Decisions and Actions

I reviewed the toxicity data that we had and the pH data that we had and there is insufficient data to draw conclusions on low pH values causing historical toxicity test failures at KIF. Based on the one incident I had both sets of data for, the toxicity failure did not appear to be related to low pH because the pH was above 7.5. I think the low end pH set point should be no lower than what I understand the most recent set point to be (6.5). This will help ensure that the actual pH does not go below 6 because of the tolerance of the meter. This is an inexact estimate and may need to be revised later.

Please let me know if you have questions and please pass on to others who may need to have this information. This is the information I said I would have next Monday.

Thanks.

Linden (Lindy) Printz Johnson
Tennessee Valley Authority
Environmental Affairs, LP 5D-C
phone: 423 751 3361
fax: 423 751 7011
email: lpjohnson@tva.gov

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To: Purkey, Ronald E; Johnson, Linden Printz; Campbell, Linda F; Knight, Tony Alan; Dixon, Melisa D; Lennon, Kendal R; Quinn, James Roy III; McDonald, Cathy L; Varner, Arthur L; Williams, Brian E; Carter, James C Jr; Nelson, Gary R; Rehberg, Robert L
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07/27/2006

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Ron Purkey
 Manager of Civil Engineering

07/27/2006

LP 2G-C

07/27/2006

TVA-00006273

Gray, Jeff

From: Hughes, Michael S
Sent: Monday, July 31, 2006 4:10 PM
To: Knight, Tony Alan
Cc: Petty, Harold L; Purkey, Ronald E; Gray, Jeff; Hughes, Michael S
Subject: RE: KIF - Ash Pond PH Treatment Meeting of 7/24 - Decisions and Actions

Tony:

Let me revise this once to correct a mistake! We took another look at the situation and remembered we needed to include the attenuation effect of the discharge pipes from the dredge cell into the ash pond. These two 24" diameter pipes will significantly restrict the peak discharge from the dredge cells.

1. Peak flow (Q) during the 10 year 24 hour storm is 70 CFS thru the 24" diameter pipes.
2. Total volume at the end of the event is 1,523,000 CF remains unchanged.

Thanks,
Mike

-----Original Message-----

From: Hughes, Michael S
Sent: Monday, July 31, 2006 2:14 PM
To: Knight, Tony Alan
Cc: Petty, Harold L; Purkey, Ronald E; Gray, Jeff
Subject: RE: KIF - Ash Pond PH Treatment Meeting of 7/24 - Decisions and Actions

Tony:

From the Dredge cells into the ash pond:

Peak flow (Q) during the 10 year 24 hour storm is 350 CFS.

Total volume at the end of the event is 1,523,000 CF

Thanks,
Mike

-----Original Message-----

From: Petty, Harold L
Sent: Monday, July 31, 2006 2:09 PM
To: Hughes, Michael S
Subject: FW: KIF - Ash Pond PH Treatment Meeting of 7/24 - Decisions and Actions

Please handle.

Thanks,
Lynn

07/31/2006

TVA-00006274

-----Original Message-----

From: Purkey, Ronald E
Sent: Tuesday, July 25, 2006 12:58 PM
To: Petty, Harold L
Subject: RE: KIF - Ash Pond PH Treatment Meeting of 7/24 - Decisions and Actions

both

-----Original Message-----

From: Petty, Harold L
Sent: Monday, July 24, 2006 6:19 PM
To: Purkey, Ronald E
Subject: RE: KIF - Ash Pond PH Treatment Meeting of 7/24 - Decisions and Actions

Peak flow (Q in CFS) or total volume of water (CF) for the 24 hour period?

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From: Purkey, Ronald E
Sent: Monday, July 24, 2006 6:17 PM
To: Petty, Harold L
Subject: FW: KIF - Ash Pond PH Treatment Meeting of 7/24 - Decisions and Actions

Please provide item 6 below to Tony as indicated. Thanks.

Ron

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07/31/2006

TVA-00006275

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Ron Purkey
 Manager of Civil Engineering
 LP 2G-C

Gray, Jeff

To: Shaffer, Douglas P; Dixon, Melisa D; Johnson, Linden Printz
Subject: FW: KIF - Ash Pond PH Treatment Meeting of 7/24 - Decisions and Actions

FYI

Thanks,
Jeff L. Gray
EDS, Civil Engineering
423-751-7693
423-751-6116 (Fax)

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LP 2G-C

07/31/2006

TVA-00006280

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LP 2G-C

07/25/2006

TVA-00006282