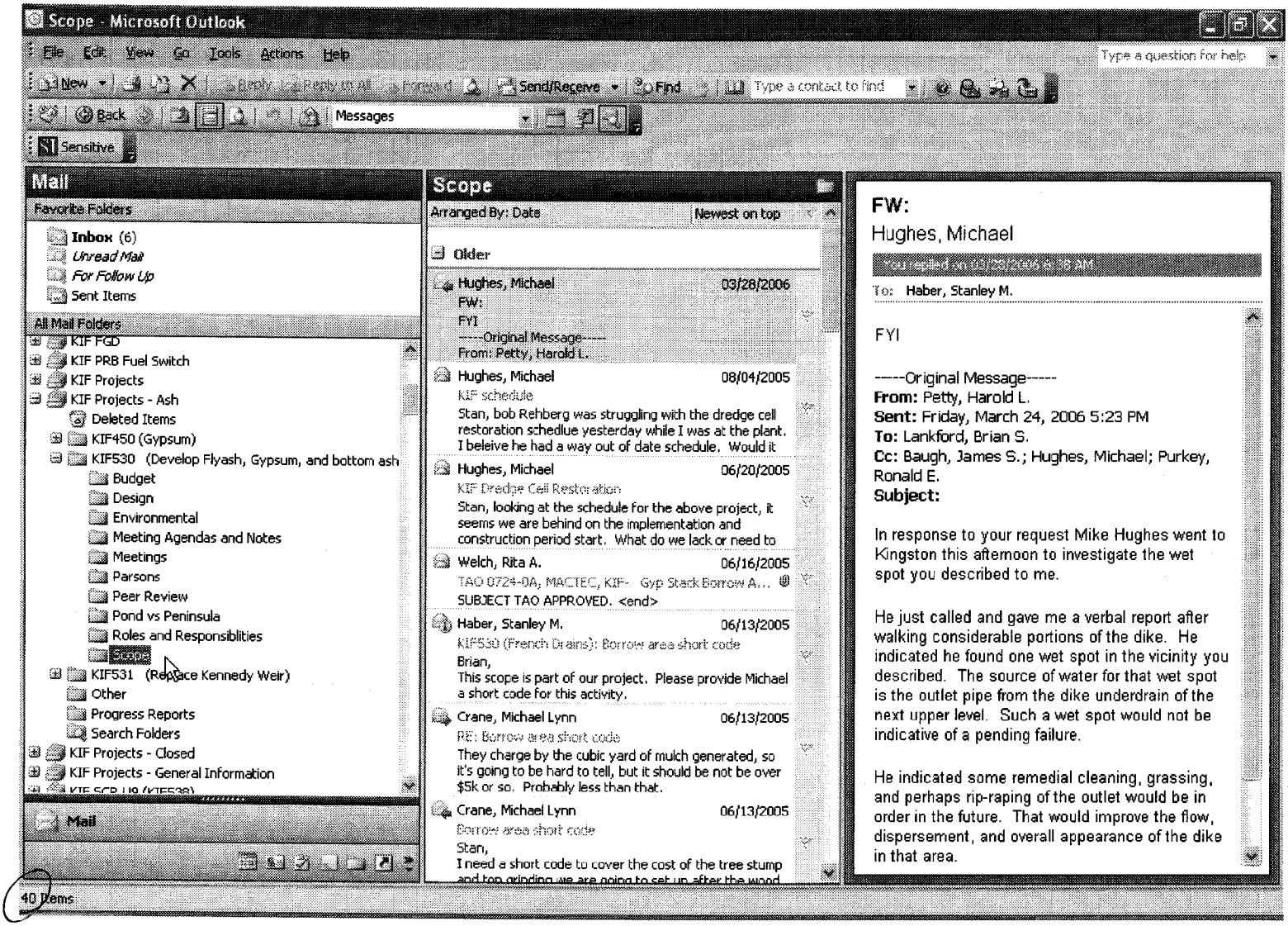
Scope - Microsoft Outlook
File Edit View Go Tools Actions Help
Type a question for help
New
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Type a contact to find
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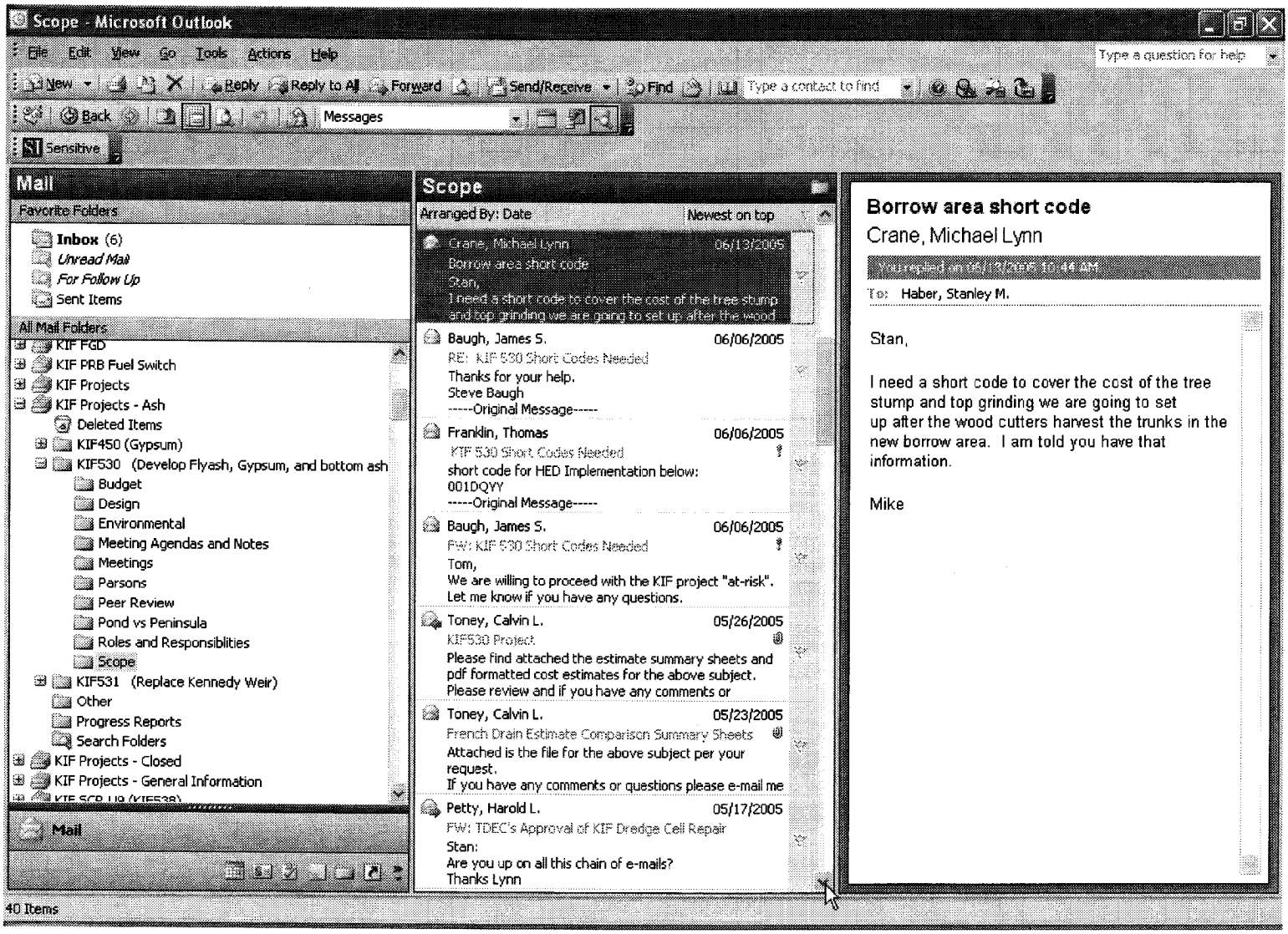
Messages
Sensitive
Mail
Favorite Folders
Inbox (6)
Unread Mail
For Follow Up
Sent Items
All Mail Folders
KIF FGD
KIF PRB Fuel Switch
KIF Projects
KIF Projects - Ash
Deleted Items
KIF450 (Gypsum)
KIF530 (Develop Flyash, Gypsum, and bottom ash
Budget
Design
Environmental
Meeting Agendas and Notes
Meetings
Parsons
Peer Review
Pond vs Peninsula
Roles and Responsiblities
Scope
KIF531 (Replace Kennedy Weir)
Other
Progress Reports
Search Folders
KIF Projects - Closed
KIF Projects - General Information
Mail
40 Items
Scope
Arranged By: Date
Newest on top
Older
Hughes, Michael 03/28/2006
FW:
FYI
-----Original Message-----
From: Petty, Harold L.
Hughes, Michael 08/04/2005
KIF schedule
Stan, bob Rehberg was struggling with the dredge cell restoration schedlue yesterday while I was at the plant. I beleive he had a way out of date schedule. Would it
Hughes, Michael 06/20/2005
KIF Dredge Cell Restoration
Stan, looking at the schedule for the above project, it seems we are behind on the implementation and construction period start. What do we lack or need to
Welch, Rita A. 06/16/2005
TAO 0724-0A; MACTEC; KIF- Gyp Stack Borrow A...
SUBJECT TAO APPROVED. <end>
Haber, Stanley M. 06/13/2005
KIF530 (French Drains): Borrow area short code
Brian,
This scope is part of our project. Please provide Michael a short code for this activity.
Crane, Michael Lynn 06/13/2005
RE: Borrow area short code
They charge by the cubic yard of mulch generated, so it's going to be hard to tell, but it should be not be over $5k or so. Probably less than that.
Crane, Michael Lynn 06/13/2005
Borrow area short code
Stan,
I need a short code to cover the cost of the tree stump and top grinding we are going to set up after the wood
FW:
Hughes, Michael
To: Haber, Stanley M.
FYI
-----Original Message-----
From: Petty, Harold L.
Sent: Friday, March 24, 2006 5:23 PM
To: Lankford, Brian S.
Cc: Baugh, James S.; Hughes, Michael; Purkey, Ronald E.
Subject:
In response to your request Mike Hughes went to Kingston this afternoon to investigate the wet spot you described to me.
He just called and gave me a verbal report after walking considerable portions of the dike. He indicated he found one wet spot in the vicinity you described. The source of water for that wet spot is the outlet pipe from the dike underdrain of the next upper level. Such a wet spot would not be indicative of a pending failure.
He indicated some remedial cleaning, grassing, and perhaps rip-raping of the outlet would be in order in the future. That would improve the flow, dispersement, and overall appearance of the dike in that area.


Scope - Microsoft Outlook
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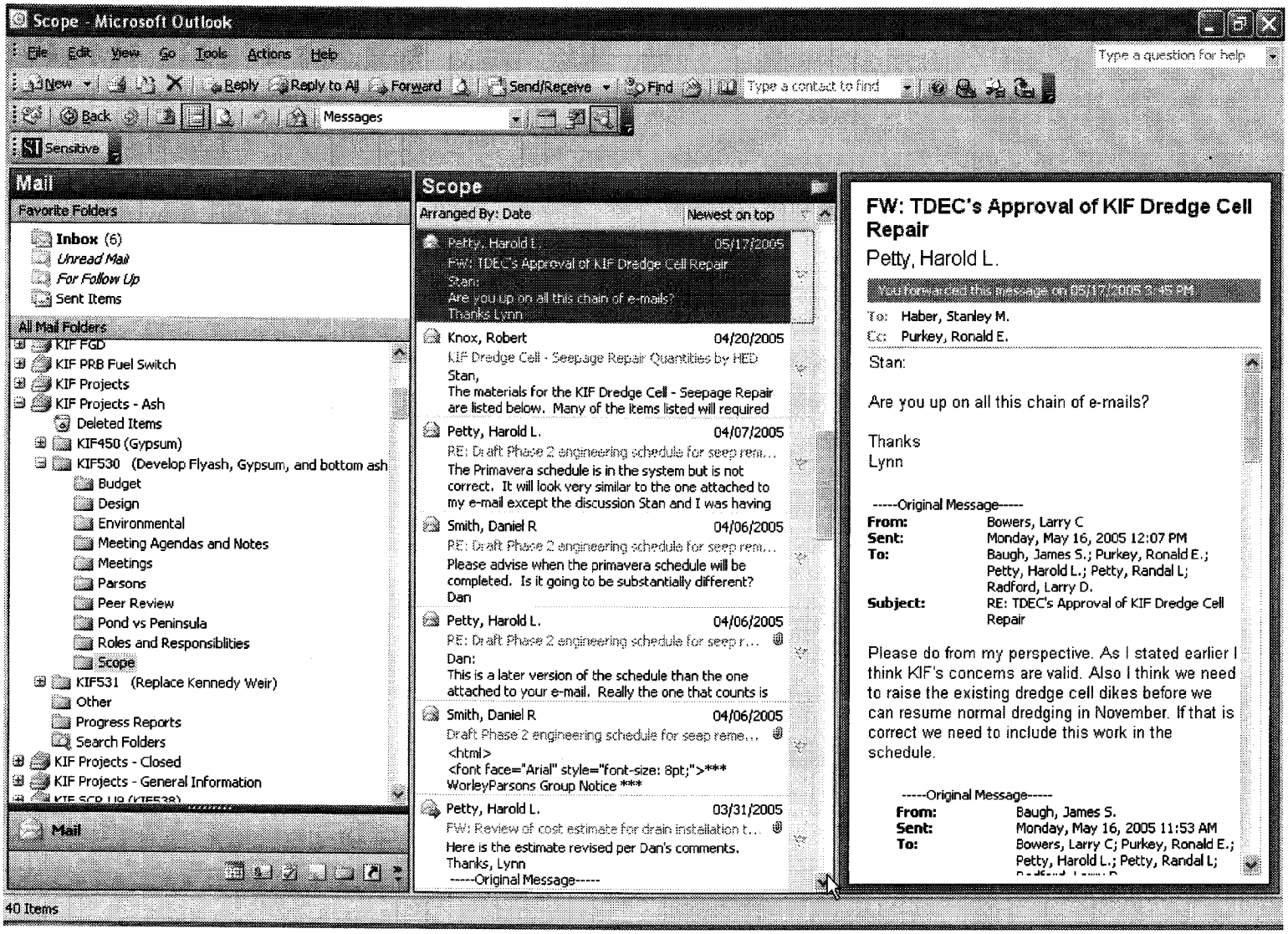
KIF531 (Replace Kennedy Weir)
Other
Progress Reports
Search Folders
KIF Projects - Closed
KIF Projects - General Information
Mail
Scope
Arranged By: Date
Newest on top
Crane, Michael Lynn 06/13/2005
Borrow area short code
Stan,
I need a short code to cover the cost of the tree stump and top grinding we are going to set up after the wood
Baugh, James S. 06/06/2005
RE: KIF 530 Short Codes Needed
Thanks for your help.
Steve Baugh
-----Original Message-----
Franklin, Thomas 06/06/2005
KIF 530 Short Codes Needed
short code for HED Implementation below:
001DQYY
-----Original Message-----
Baugh, James S. 06/06/2005
FW: KIF 530 Short Codes Needed
Tom,
We are willing to proceed with the KIF project "at-risk".
Let me know if you have any questions.
Toney, Calvin L. 05/26/2005
KIF530 Project
Please find attached the estimate summary sheets and pdf formatted cost estimates for the above subject.
Please review and if you have any comments or
Toney, Calvin L. 05/23/2005
French Drain Estimate Comparison Summary Sheets
Attached is the file for the above subject per your request.
If you have any comments or questions please e-mail me
Petty, Harold L. 05/17/2005
FW: TDEC's Approval of KIF Dredge Cell Repair
Stan:
Are you up on all this chain of e-mails?
Thanks Lynn
Borrow area short code
Crane, Michael Lynn
To: Haber, Stanley M.
Stan,
I need a short code to cover the cost of the tree stump and top grinding we are going to set up after the wood cutters harvest the trunks in the new borrow area. I am told you have that information.
Mike
40 Items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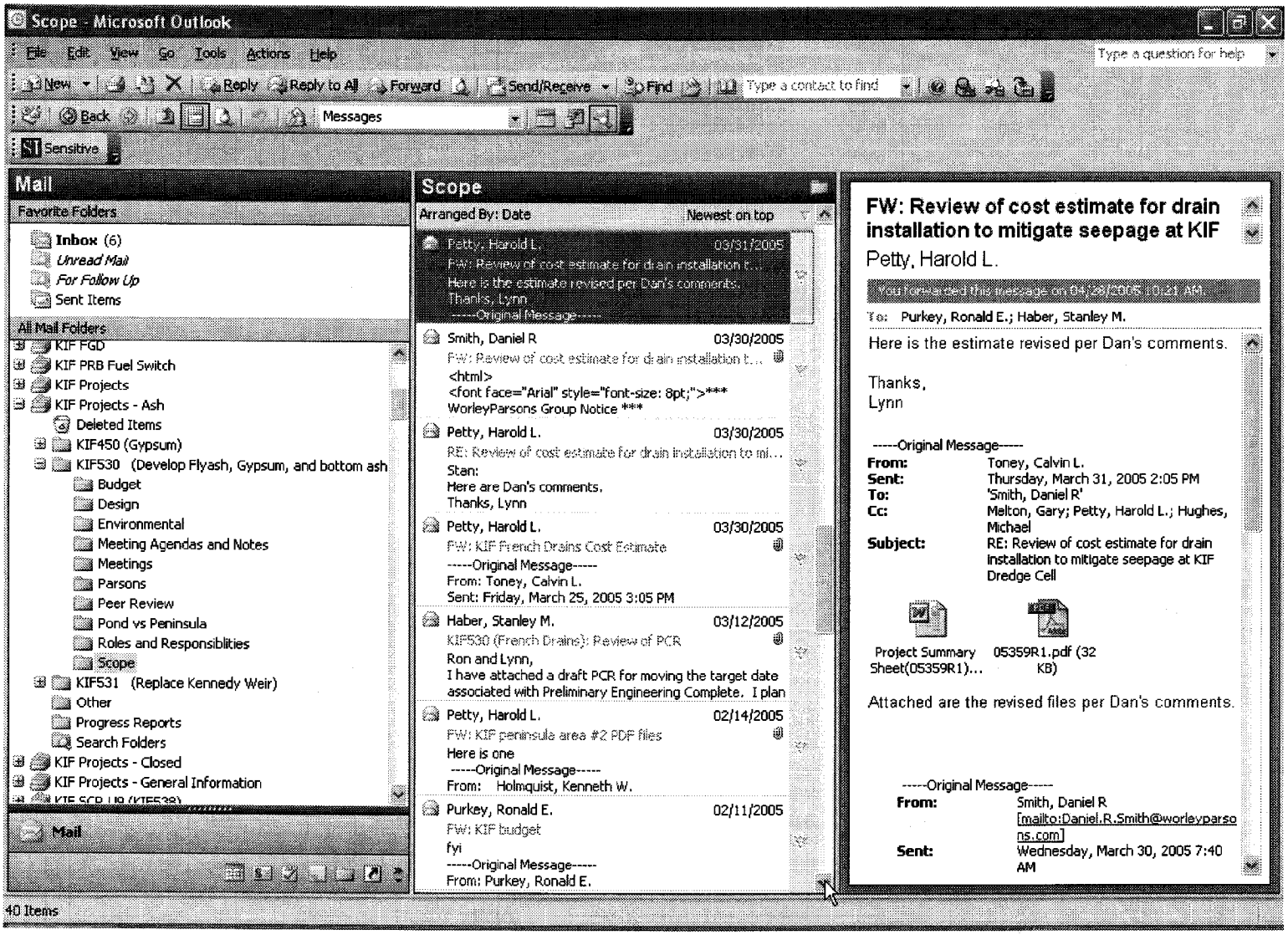
KIF531 (Replace Kennedy Weir)
Other
Progress Reports
Search Folders
KIF Projects - Closed
KIF Projects - General Information
Mail
Scope
Arranged By: Date
Newest on top
Petty, Harold L. 05/17/2005
FW: TDEC's Approval of KIF Dredge Cell Repair
Stan:
Are you up on all this chain of e-mails?
Thanks Lynn
Knox, Robert 04/20/2005
KIF Dredge Cell - Seepage Repair Quantities by HED
Stan,
The materials for the KIF Dredge Cell - Seepage Repair are listed below. Many of the items listed will required
Petty, Harold L. 04/07/2005
RE: Draft Phase 2 engineering schedule for seep rem...
The Primavera schedule is in the system but is not correct. It will look very similar to the one attached to my e-mail except the discussion Stan and I was having
Smith, Daniel R 04/06/2005
RE: Draft Phase 2 engineering schedule for seep rem...
Please advise when the primavera schedule will be completed. Is it going to be substantially different?
Dan
Petty, Harold L. 04/06/2005
RE: Draft Phase 2 engineering schedule for seep r...
Dan:
This is a later version of the schedule than the one attached to your e-mail. Really the one that counts is
Smith, Daniel R 04/06/2005
Draft Phase 2 engineering schedule for seep reme...
<html>
<font face="Arial" style="font-size: 8pt;">***
WorleyParsons Group Notice ***
Petty, Harold L. 03/31/2005
FW: Review of cost estimate for drain installation t...
Here is the estimate revised per Dan's comments.
Thanks, Lynn
-----Original Message-----
FW: TDEC's Approval of KIF Dredge Cell Repair
Petty, Harold L.
You forwarded this message on 05/17/2005 2:45 PM
To: Haber, Stanley M.
Cc: Purkey, Ronald E.
Stan:
Are you up on all this chain of e-mails?
Thanks
Lynn
-----Original Message-----
From: Bowers, Larry C
Sent: Monday, May 16, 2005 12:07 PM
To: Baugh, James S.; Purkey, Ronald E.; Petty, Harold L.; Petty, Randal L; Radford, Larry D.
Subject: RE: TDEC's Approval of KIF Dredge Cell Repair
Please do from my perspective. As I stated earlier I think KIF's concerns are valid. Also I think we need to raise the existing dredge cell dikes before we can resume normal dredging in November. If that is correct we need to include this work in the schedule.
-----Original Message-----
From: Baugh, James S.
Sent: Monday, May 16, 2005 11:53 AM
To: Bowers, Larry C; Purkey, Ronald E.; Petty, Harold L.; Petty, Randal L;
40 Items


Scope - Microsoft Outlook
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Progress Reports
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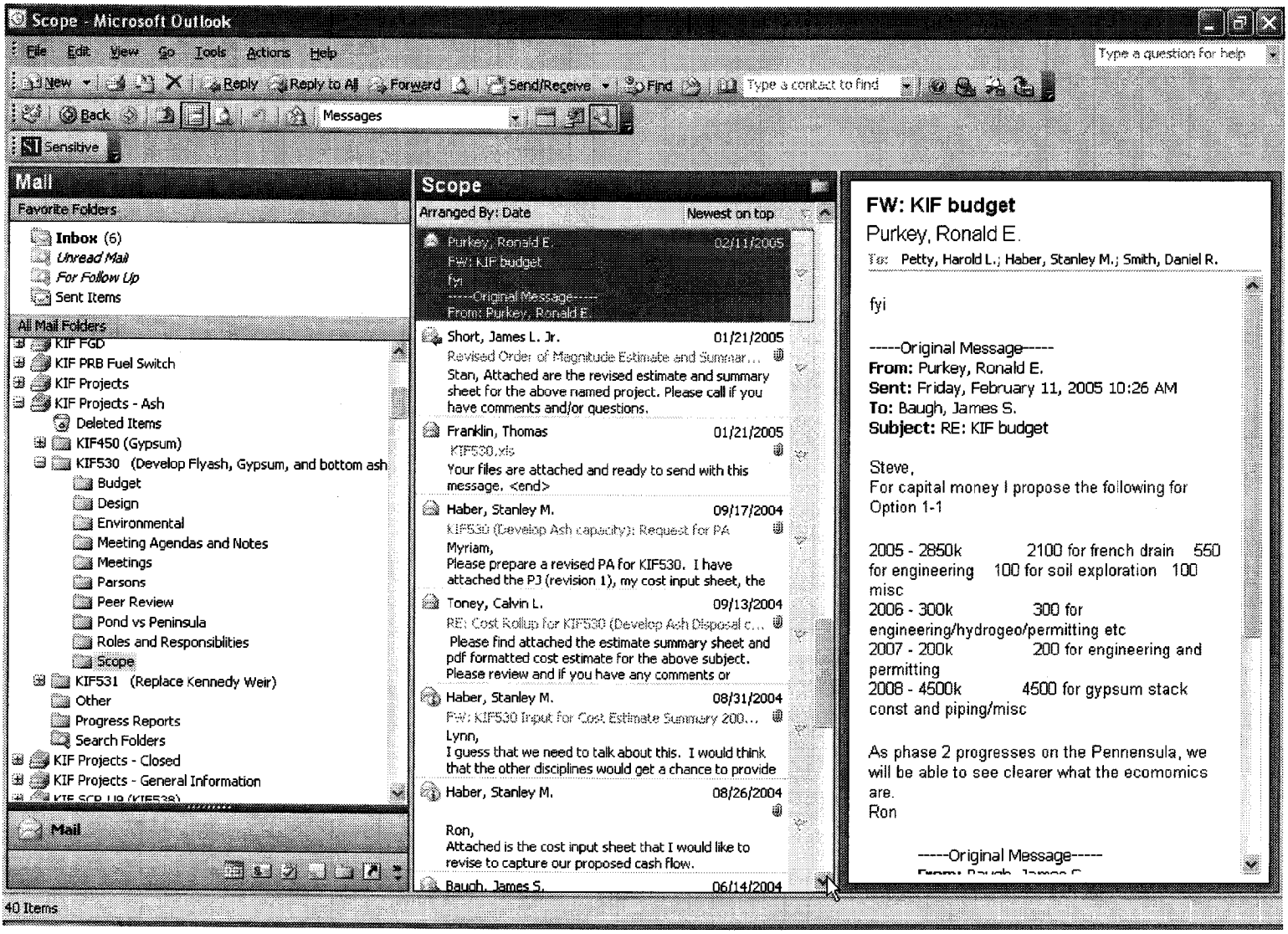
KIF Projects - Closed
KIF Projects - General Information
Mail
Scope
Arranged By: Date
Newest on top
Petty, Harold L. 03/31/2005
FW: Review of cost estimate for drain installation t...
Here is the estimate revised per Dan's comments.
Thanks, Lynn
-----Original Message-----
Smith, Daniel R 03/30/2005
FW: Review of cost estimate for drain installation t...
<html>
<font face="Arial" style="font-size: 8pt;">***
WorleyParsons Group Notice ***
Petty, Harold L. 03/30/2005
RE: Review of cost estimate for drain installation to mi...
Stan:
Here are Dan's comments.
Thanks, Lynn
Petty, Harold L. 03/30/2005
FW: KIF French Drains Cost Estimate
-----Original Message-----
From: Toney, Calvin L.
Sent: Friday, March 25, 2005 3:05 PM
Haber, Stanley M. 03/12/2005
KIF530 (French Drains): Review of PCR
Ron and Lynn,
I have attached a draft PCR for moving the target date associated with Preliminary Engineering Complete. I plan
Petty, Harold L. 02/14/2005
FW: KIF peninsula area #2 PDF files
Here is one
-----Original Message-----
From: Holmquist, Kenneth W.
Purkey, Ronald E. 02/11/2005
FW: KIF budget
fyi
-----Original Message-----
From: Purkey, Ronald E.
FW: Review of cost estimate for drain installation to mitigate seepage at KIF
Petty, Harold L.
You forwarded this message on 04/29/2005 10:31 AM.
To: Purkey, Ronald E.; Haber, Stanley M.
Here is the estimate revised per Dan's comments.
Thanks,
Lynn
-----Original Message-----
From: Toney, Calvin L.
Sent: Thursday, March 31, 2005 2:05 PM
To: 'Smith, Daniel R'
Cc: Melton, Gary; Petty, Harold L.; Hughes, Michael
Subject: RE: Review of cost estimate for drain installation to mitigate seepage at KIF Dredge Cell
Project Summary Sheet(05359R1)...
05359R1.pdf (32 KB)
Attached are the revised files per Dan's comments.
-----Original Message-----
From: Smith, Daniel R [mailto:Daniel.R.Smith@worleyparsons.com]
Sent: Wednesday, March 30, 2005 7:40 AM
40 Items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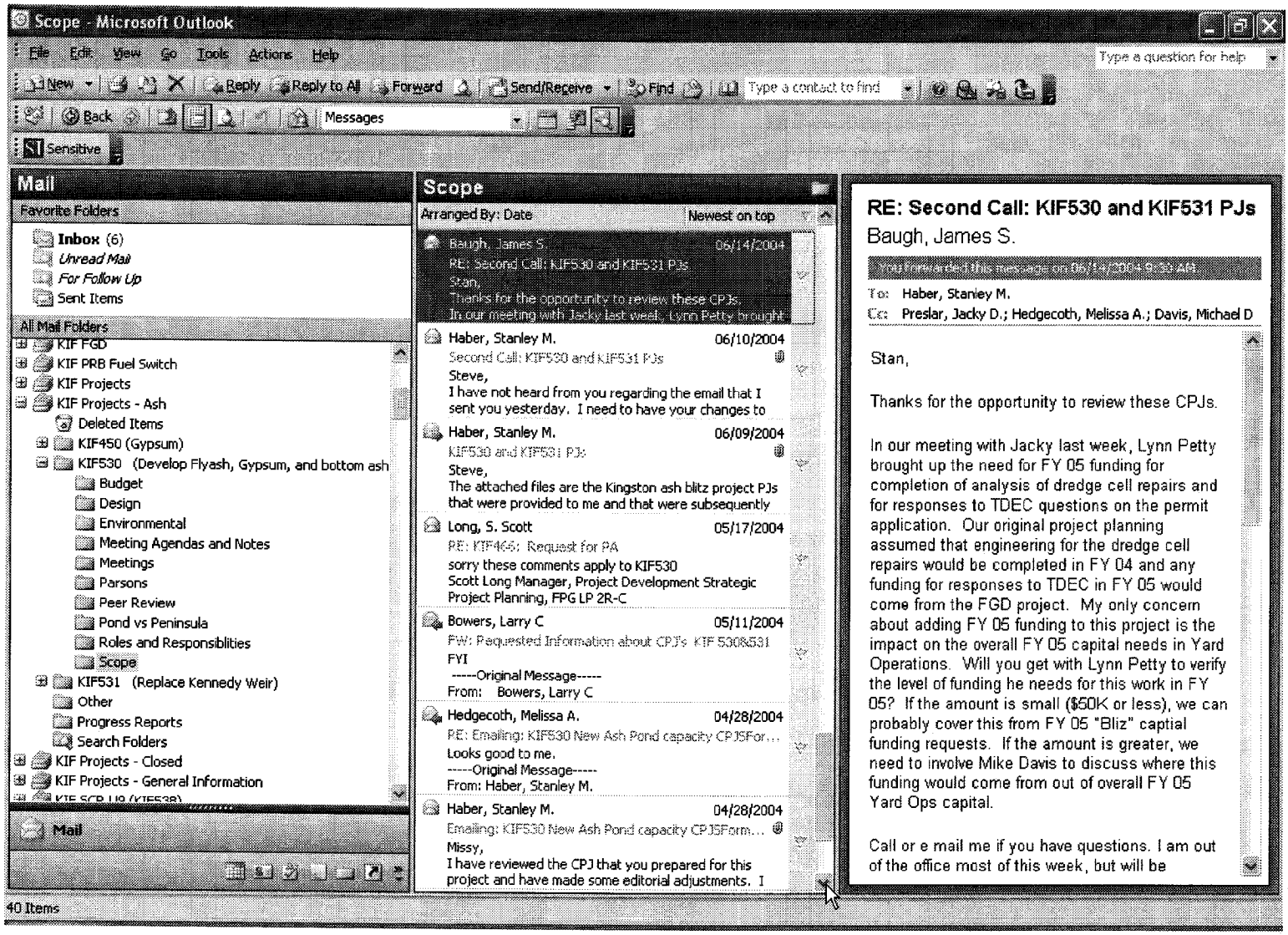
Progress Reports
Search Folders
KIF Projects - Closed
KIF Projects - General Information
Mail
Scope
Arranged By: Date
Newest on top
Purkey, Ronald E. 02/11/2005
FW: KIF budget
fyi
-----Original Message-----
From: Purkey, Ronald E.
Short, James L. Jr. 01/21/2005
Revised Order of Magnitude Estimate and Summar...
Stan, Attached are the revised estimate and summary sheet for the above named project. Please call if you have comments and/or questions.
Franklin, Thomas 01/21/2005
KIF530.xls
Your files are attached and ready to send with this message. <end>
Haber, Stanley M. 09/17/2004
KIF530 (Develop Ash capacity): Request for PA
Myriam,
Please prepare a revised PA for KIF530. I have attached the PJ (revision 1), my cost input sheet, the
Toney, Calvin L. 09/13/2004
RE: Cost Rollup for KIF530 (Develop Ash Disposal c...
Please find attached the estimate summary sheet and pdf formatted cost estimate for the above subject. Please review and if you have any comments or
Haber, Stanley M. 08/31/2004
FW: KIF530 Input for Cost Estimate Summary 200...
Lynn,
I guess that we need to talk about this. I would think that the other disciplines would get a chance to provide
Haber, Stanley M. 08/26/2004
Ron,
Attached is the cost input sheet that I would like to revise to capture our proposed cash flow.
Baugh, James S. 06/14/2004
FW: KIF budget
Purkey, Ronald E.
To: Petty, Harold L.; Haber, Stanley M.; Smith, Daniel R.
fyi
-----Original Message-----
From: Purkey, Ronald E.
Sent: Friday, February 11, 2005 10:26 AM
To: Baugh, James S.
Subject: RE: KIF budget
Steve,
For capital money I propose the following for Option 1-1
2005 - 2850k 2100 for french drain 550 for engineering 100 for soil exploration 100 misc
2006 - 300k 300 for engineering/hydrogeo/permitting etc
2007 - 200k 200 for engineering and permitting
2008 - 4500k 4500 for gypsum stack const and piping/misc
As phase 2 progresses on the Pennensula, we will be able to see clearer what the ecomomics are.
Ron
-----Original Message-----
40 Items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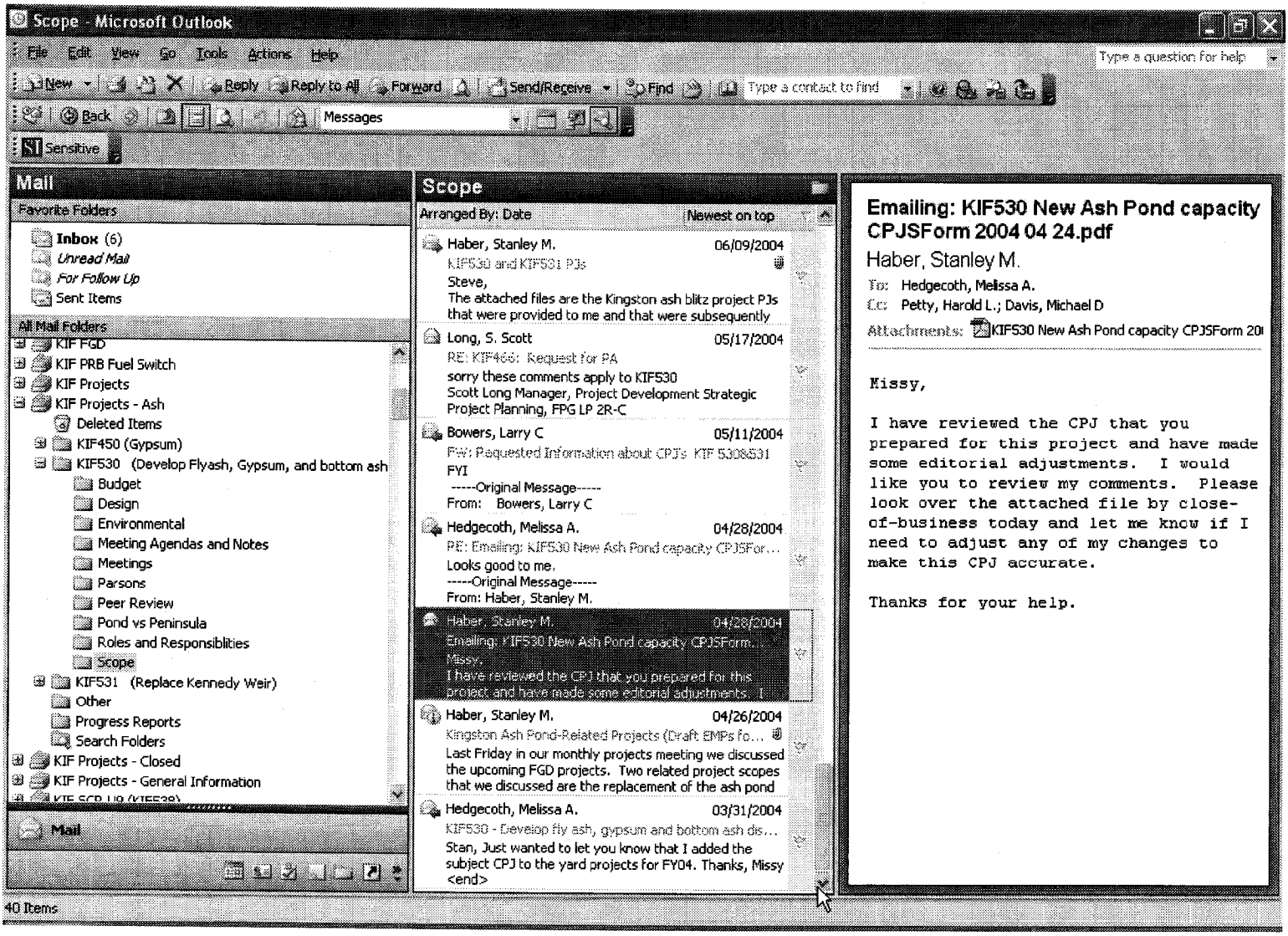
KIF531 (Replace Kennedy Weir)
Other
Progress Reports
Search Folders
KIF Projects - Closed
KIF Projects - General Information
Mail
Scope
Arranged By: Date
Newest on top
Baugh, James S. 06/14/2004
RE: Second Call: KIF530 and KIF531 PJs
Stan,
Thanks for the opportunity to review these CPJs.
In our meeting with Jacky last week, Lynn Petty brought
Haber, Stanley M. 06/10/2004
Second Call: KIF530 and KIF531 PJs
Steve,
I have not heard from you regarding the email that I sent you yesterday. I need to have your changes to
Haber, Stanley M. 06/09/2004
KIF530 and KIF531 PJs
Steve,
The attached files are the Kingston ash blitz project PJs that were provided to me and that were subsequently
Long, S. Scott 05/17/2004
RE: KIF466: Request for PA
sorry these comments apply to KIF530
Scott Long Manager, Project Development Strategic Project Planning, FPG LP 2R-C
Bowers, Larry C 05/11/2004
FW: Requested Information about CPJs KIF 530&531
FYI
-----Original Message-----
From: Bowers, Larry C
Hedgecoth, Melissa A. 04/28/2004
RE: Emailing: KIF530 New Ash Pond capacity CPJSFor...
Looks good to me.
-----Original Message-----
From: Haber, Stanley M.
Haber, Stanley M. 04/28/2004
Emailing: KIF530 New Ash Pond capacity CPJSForm...
Missy,
I have reviewed the CPJ that you prepared for this project and have made some editorial adjustments. I
RE: Second Call: KIF530 and KIF531 PJs
Baugh, James S.
You forwarded this message on 06/14/2004 8:30 AM
To: Haber, Stanley M.
Cc: Preslar, Jacky D.; Hedgecoth, Melissa A.; Davis, Michael D
Stan,
Thanks for the opportunity to review these CPJs.
In our meeting with Jacky last week, Lynn Petty brought up the need for FY 05 funding for completion of analysis of dredge cell repairs and for responses to TDEC questions on the permit application. Our original project planning assumed that engineering for the dredge cell repairs would be completed in FY 04 and any funding for responses to TDEC in FY 05 would come from the FGD project. My only concern about adding FY 05 funding to this project is the impact on the overall FY 05 capital needs in Yard Operations. Will you get with Lynn Petty to verify the level of funding he needs for this work in FY 05? If the amount is small ($50K or less), we can probably cover this from FY 05 "Bliz" captial funding requests. If the amount is greater, we need to involve Mike Davis to discuss where this funding would come from out of overall FY 05 Yard Ops capital.
Call or e mail me if you have questions. I am out of the office most of this week, but will be
40 Items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Haber, Stanley M. 06/09/2004
KIF530 and KIF531 PJs
Steve,
The attached files are the Kingston ash blitz project PJs that were provided to me and that were subsequently
Long, S. Scott 05/17/2004
RE: KIF466: Request for PA
sorry these comments apply to KIF530
Scott Long Manager, Project Development Strategic Project Planning, FPG LP 2R-C
Bowers, Larry C 05/11/2004
FW: Requested Information about CPJs KIF 530&531
FYI
-----Original Message-----
From: Bowers, Larry C
Hedgecoth, Melissa A. 04/28/2004
RE: Emailing: KIF530 New Ash Pond capacity CPJSFor...
Looks good to me.
-----Original Message-----
From: Haber, Stanley M.
Haber, Stanley M. 04/28/2004
Emailing: KIF530 New Ash Pond capacity CPJSForm...
Missy,
I have reviewed the CPJ that you prepared for this project and have made some editorial adjustments. I
Haber, Stanley M. 04/26/2004
Kingston Ash Pond-Related Projects (Draft EMPs fo...
Last Friday in our monthly projects meeting we discussed the upcoming FGD projects. Two related project scopes that we discussed are the replacement of the ash pond
Hedgecoth, Melissa A. 03/31/2004
KIF530 - Develop fly ash, gypsum and bottom ash dis...
Stan, Just wanted to let you know that I added the subject CPJ to the yard projects for FY04. Thanks, Missy
<end>
Emailing: KIF530 New Ash Pond capacity CPJSForm 2004 04 24.pdf
Haber, Stanley M.
To: Hedgecoth, Melissa A.
Cc: Petty, Harold L.; Davis, Michael D
Attachments: KIF530 New Ash Pond capacity CPJSForm 20
Missy,
I have reviewed the CPJ that you prepared for this project and have made some editorial adjustments. I would like you to review my comments. Please look over the attached file by close-of-business today and let me know if I need to adjust any of my changes to make this CPJ accurate.
Thanks for your help.
40 Items

Haber, Stanley M

From: Hughes, Michael
Sent: Tuesday, March 28, 2006 8:37 AM
To: Haber, Stanley M.
Subject: FW:

FYI

-----Original Message-----
From: Petty, Harold L.
Sent: Friday, March 24, 2006 5:23 PM
To: Lankford, Brian S.
Cc: Baugh, James S.; Hughes, Michael; Purkey, Ronald E.
Subject:

In response to your request Mike Hughes went to Kingston this afternoon to investigate the wet spot you described to me.

He just called and gave me a verbal report after walking considerable portions of the dike. He indicated he found one wet spot in the vicinity you described. The source of water for that wet spot is the outlet pipe from the dike underdrain of the next upper level. Such a wet spot would not be indicative of a pending failure.

He indicated some remedial cleaning, grassing, and perhaps rip-raping of the outlet would be in order in the future. That would improve the flow, dispersement, and overall appearance of the dike in that area.

Thanks,
Lynn

Haber, Stanley M

From: Hughes, Michael
Sent: Thursday, August 04, 2005 8:48 AM
To: Haber, Stanley M.
Subject: KIF schedule

Stan, bob Rehberg was struggling with the dredge cell restoration schedlue yesterday while I was at the plant. I beleive he had a way out of date schedule. Would it be okay if I faxed him the latest schedule? Let me know.....

Thanks

Michael S. Hughes, P.E.
Tennessee Valley Authority
FES
1101 Market St.
Chattanooga, TN 37402
LP 2G-C
(423) 751-2783
Cell (423) 364-4891

Haber, Stanley M

From: Hughes, Michael
Sent: Monday, June 20, 2005 8:00 AM
To: Haber, Stanley M.
Subject: KIF Dredge Cell Restoration

Stan, looking at the schedule for the above project, it seems we are behind on the implementation and construction period start. What do we lack or need to get started? If there's anything else I need to do, please let me know.

Thanks,

Michael S. Hughes, P.E.
Tennessee Valley Authority
FES
1101 Market St.
Chattanooga, TN 37402
LP 2G-C
(423) 751-2783
Cell (423) 364-4891

Haber, Stanley M

From: Welch, Rita A.
Sent: Thursday, June 16, 2005 12:59 PM
To: Petty, Harold L.; Purkey, Ronald E.; Haber, Stanley M.
Subject: TAO 0724-0A, MACTEC, KIF- Gyp Stack Borrow Area
Attachments: tao_print_cvr_word.doc

SUBJECT TAO APPROVED.

Proposal Number :

WO/JO Number :

Letter Number :

Scope Change Number : 0A

TENNESSEE VALLEY AUTHORITY
TASK ASSIGNMENT ORDER (TAO)

CONTRACT NUMBER : **00021705**
CONTRACTOR : **MACTEC Engineering**
TASK NUMBER : **Mac - 0724 - 00082**
REVISION NUMBER : 00

LEAD : **Lynn Petty**
TECHNICAL MGR. : **Ron Purkey**
EFFECTIVE BEGIN DATE : **06/13/2005**
CURRENT END DATE : **08/30/2005**
PHASE : **3**

PLANT : **Kingston Fossil Plant**
PROJECT : **Gyp Stack Borrow Area**
TASK DESCRIPTION :
DESCRIPTION OF REVISION: **Initial Authorization.**

FEE TYPE APPLICABLE TO THIS TAO :
_ Performance Award Fee
_ Fixed Price Fee - Managed
Fixed-Percentage Fee ==========> ___ Staff Augmentation ___ Field Support
_ No fee applies to this task

Fixed Percentage Type

TASK SUMMARY

	Previous Revision		Net Change		Total task Authorization
Negotiated Estimated Cost	$0	+	$22,965	=	$22,965
Fixed Fee	$0	+	$0	=	$0
Earned Award Fee To Date	$0	+	$0	=	$0
Available Award Fee	$0	+	$0	=	$0
Total Estimated Price	$0	+	$22,965	=	$22,965

TVA SHORT CODE **001DQYY** PCN _____ LOCATION CODE _____ PERFORMING UNIT

APPROVED BY:

_____ _____
TVA Contract Administrator Date

DISTRIBUTION:

Partner (cc)
Eng.

Lead

6/16/2005

Haber, Stanley M

From: Haber, Stanley M.
Sent: Monday, June 13, 2005 2:40 PM
To: Lankford, Brian S.
Cc: Catlett, James H; Crane, Michael Lynn; Franklin, Thomas
Subject: KIF530 (French Drains): Borrow area short code

Tracking:

Recipient	Delivery
Lankford, Brian S.	Delivered: 06/13/2005 2:40 PM
Catlett, James H	Delivered: 06/13/2005 2:40 PM
Crane, Michael Lynn	Delivered: 06/13/2005 2:40 PM
Franklin, Thomas	Delivered: 06/13/2005 2:40 PM

Brian,

This scope is part of our project. Please provide Michael a short code for this activity.

Thanks.

Stan
-----Original Message-----
From: Crane, Michael Lynn
Sent: Monday, June 13, 2005 10:46 AM
To: Haber, Stanley M.
Subject: RE: Borrow area short code

They charge by the cubic yard of mulch generated, so it's going to be hard to tell, but it should be not be over $5k or so. Probably less than that.

> -----Original Message-----
> **From:** Haber, Stanley M.
> **Sent:** Monday, June 13, 2005 10:44 AM
> **To:** Crane, Michael Lynn
> **Subject:** RE: Borrow area short code
>
> Do you have a cost?
>
> > -----Original Message-----
> > **From:** Crane, Michael Lynn
> > **Sent:** Monday, June 13, 2005 10:37 AM
> > **To:** Haber, Stanley M.
> > **Subject:** Borrow area short code
> >
> > Stan,
> >
> > I need a short code to cover the cost of the tree stump and top grinding we are going to set up after the wood cutters harvest the trunks in the new borrow area. I am told you have that information.
> >
> > Mike

Haber, Stanley M

From: Crane, Michael Lynn
Sent: Monday, June 13, 2005 10:46 AM
To: Haber, Stanley M.
Subject: RE: Borrow area short code

They charge by the cubic yard of mulch generated, so it's going to be hard to tell, but it should be not be over $5k or so. Probably less than that.

-----Original Message-----
From: Haber, Stanley M.
Sent: Monday, June 13, 2005 10:44 AM
To: Crane, Michael Lynn
Subject: RE: Borrow area short code

Do you have a cost?

-----Original Message-----
From: Crane, Michael Lynn
Sent: Monday, June 13, 2005 10:37 AM
To: Haber, Stanley M.
Subject: Borrow area short code

Stan,

I need a short code to cover the cost of the tree stump and top grinding we are going to set up after the wood cutters harvest the trunks in the new borrow area. I am told you have that information.

Mike

Haber, Stanley M

From: Crane, Michael Lynn
Sent: Monday, June 13, 2005 10:37 AM
To: Haber, Stanley M.
Subject: Borrow area short code

Stan,

I need a short code to cover the cost of the tree stump and top grinding we are going to set up after the wood cutters harvest the trunks in the new borrow area. I am told you have that information.

Mike

Haber, Stanley M

From: Baugh, James S.
Sent: Monday, June 06, 2005 2:55 PM
To: Franklin, Thomas
Cc: Haber, Stanley M.; Lankford, Brian S.
Subject: RE: KIF 530 Short Codes Needed

Thanks for your help.

Steve Baugh

-----Original Message-----
From: Franklin, Thomas
Sent: Monday, June 06, 2005 1:01 PM
To: Baugh, James S.; Lankford, Brian S.
Cc: Haber, Stanley M.
Subject: KIF 530 Short Codes Needed
Importance: High

short code for HED Implementation below:

001DQYY

-----Original Message-----
From: Baugh, James S.
Sent: Monday, June 06, 2005 12:08 PM
To: Franklin, Thomas
Cc: Lankford, Brian S.; Haber, Stanley M.
Subject: FW: KIF 530 Short Codes Needed
Importance: High

Tom,

We are willing to proceed with the KIF project "at-risk". Let me know if you have any questions.

Steve Baugh

-----Original Message-----
From: Lankford, Brian S.
Sent: Monday, June 06, 2005 11:41 AM
To: Baugh, James S.
Subject: KIF 530 Short Codes Needed
Importance: High

Steve,

Please forward this e-mail on to Tom Franklin.

HED has started construction on the French Drain System on the dredge cell at KIF without a short code. The reason is that the project has not been PRC approved for a fiscal year over-run of one million dollars, but a total project under-run of approximately fourteen million. I talked to Stan Haber this morning and asked what needed to be done in order to get a short code for the project, and he stated that you needed

to inform Tom Franklin that we are going to proceed with this project "at-risk". This means that a short code needs to be generated so that HED work can be billed without PRC approval of the entire year's expenditures. Most likely, this project will become phase 3 PRC approved after July 17th, but HED cannot wait until after PRC approval to start construction. Please get a short code as soon as possible.

Thanks,

Brian Lankford
423-751-7602 (Chattanooga)
423-838-1789 (Cell)

Haber, Stanley M

From: Franklin, Thomas
Sent: Monday, June 06, 2005 1:01 PM
To: Baugh, James S.; Lankford, Brian S.
Cc: Haber, Stanley M.
Subject: KIF 530 Short Codes Needed
Importance: High

short code for HED Implementation below:

001DQYY

-----Original Message-----
From: Baugh, James S.
Sent: Monday, June 06, 2005 12:08 PM
To: Franklin, Thomas
Cc: Lankford, Brian S.; Haber, Stanley M.
Subject: FW: KIF 530 Short Codes Needed
Importance: High

Tom,

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Steve Baugh

-----Original Message-----
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Sent: Monday, June 06, 2005 11:41 AM
To: Baugh, James S.
Subject: KIF 530 Short Codes Needed
Importance: High

Steve,

Please forward this e-mail on to Tom Franklin.

HED has started construction on the French Drain System on the dredge cell at KIF without a short code. The reason is that the project has not been PRC approved for a fiscal year over-run of one million dollars, but a total project under-run of approximately fourteen million. I talked to Stan Haber this morning and asked what needed to be done in order to get a short code for the project, and he stated that you needed to inform Tom Franklin that we are going to proceed with this project "at-risk". This means that a short code needs to be generated so that HED work can be billed without PRC approval of the entire year's expenditures. Most likely, this project will become phase 3 PRC approved after July 17th, but HED cannot wait until after PRC approval to start construction. Please get a short code as soon as possible.

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423-751-7602 (Chattanooga)
423-838-1789 (Cell)

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Sent: Monday, June 06, 2005 12:08 PM
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Cc: Lankford, Brian S.; Haber, Stanley M.
Subject: FW: KIF 530 Short Codes Needed
Importance: High

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We are willing to proceed with the KIF project "at-risk". Let me know if you have any questions.

Steve Baugh

-----Original Message-----
From: Lankford, Brian S.
Sent: Monday, June 06, 2005 11:41 AM
To: Baugh, James S.
Subject: KIF 530 Short Codes Needed
Importance: High

Steve,

Please forward this e-mail on to Tom Franklin.

HED has started construction on the French Drain System on the dredge cell at KIF without a short code. The reason is that the project has not been PRC approved for a fiscal year over-run of one million dollars, but a total project under-run of approximately fourteen million. I talked to Stan Haber this morning and asked what needed to be done in order to get a short code for the project, and he stated that you needed to inform Tom Franklin that we are going to proceed with this project "at-risk". This means that a short code needs to be generated so that HED work can be billed without PRC approval of the entire year's expenditures. Most likely, this project will become phase 3 PRC approved after July 17th, but HED cannot wait until after PRC approval to start construction. Please get a short code as soon as possible.

Thanks,

Brian Lankford
423-751-7602 (Chattanooga)
423-838-1789 (Cell)

Haber, Stanley M

From: Toney, Calvin L.
Sent: Thursday, May 26, 2005 10:19 AM
To: Haber, Stanley M.; Franklin, Thomas
Subject: KIF530 Project
Attachments: Project Summary Sheet(05410).rtf; 05410.pdf

Please find attached the estimate summary sheets and pdf formatted cost estimates for the above subject.

Please review and if you have any comments or questions call me at x7666 or e-mail me.

Stan,

If everything looks okay with you, would you forward to Brian or let me know and I can forward to him?

Calvin L. Toney
LP 2P-C
Cost Estimator
Phone 751-7666
Fax 751- 4295

KINGSTON FOSSIL PLANT
(KIF530) DREDGE CELL FRENCH DRAINS
(SEEPAGE REPAIR) INCLUDES HED CONSTRUCTION

Estimate Number	05410	**Option:**	0	**PCN Number:**	KIF530
Plant:	KIF	**Revision:**	0	**Estimate Type:**	Detailed
Cost Engineer:	C. L. Toney	**Unit #:**		**Estimate Accuracy:**	+/- 10%
Requesting Engr:	Stan Haber	**Phase:**	3	**Estimate Issue Date**	05/26/05

	Hours	Dollars
Phase I		
Engineering (Sunk Cost)		$489,000
Engineering (Remaining)		$168,000
Partner (Non-Manual)		
Other / Other Organizations		$0
Total Phase I		***$657,000***
Phase II		
Engineering		$0
Long Lead Procurement		$0
Partner (Non-Manual)		
Other / Other Organizations		$0
Total Phase II		***$0***
Phase III		
Construction (Partner)		
Permanent Material		$518,009
Labor (T&L)	17,122.00	$576,510
Labor (Non-Manual)	600.00	$27,600
Equipment		$222,397
Subcontracts		$386,010
Partner Fee		$76,274
Partner Insurance		$0
Escalation		$0
Construction Risk Dollars		$0
Other		$40,200
Total Construction Cost		$1,847,000
Engineering		$52,000
Direct plant support + TVA Other Costs		$0
Project Risk Dollars		$200,000
Other / Other Organizations		$0
Total Phase III		***$2,099,000***
All Phases		
Construction Partner	17,722.00	$1,847,000
Long Lead Procurement		$0
Engineering (Sunk)		$489,000
Engineering (Remaining)		$220,000
Other / Other Organizations		$0
Total Risk Dollars		$200,000
Total Project Costs	**17,722.00**	**$2,756,000**
For Information only Total Environmental		**$0**
For Information only Total Demolition Costs		**$0**

KINGSTON FOSSIL PLANT
(KIF530) DREDGE CELL FRENCH DRAINS
(SEEPAGE REPAIR) INCLUDES HED CONSTRUCTION

Project name	KIF/05410/FRENCH DRAINS
Engineer	Stan Haber
Estimator	C. L. Toney
Project	French Drains
Plant	KIF
Estimate #	05410
PCN #	KIF530
Requesting Engr	Stan Haber
Option	0
Revision	0
Phase	3
Estimate Type	Detailed
Estimate Accuracy	+/- 10%
Est. Issue Date	05/26/05
Funding Type	Capital
Outage(Y/N)	N
Notes	This is total rollup cost estimate. Construction part of estimate provided by HED. Wage rates are per FY2005 craft augmented rates and no escalation is included for wages. Estimate is based on 40 hours per week.
Report format	Sorted by 'Location/Activity' 'Detail' summary

Location	Activity	Description	Takeoff Quantity	Labor Productivity	Labor Quantity	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount
PHASE 3 - HED												
	Installation											
		Construction Labor	1.00 ls	17,122.000	17,122.00 mh	***576,510***	-	-	-	-	576,510.00	576,510
		Non Manual Labor	1.00 ls	600.000	800.00 mh	***27,600***	-	-	-	-	27,600.00	27,600
		Partner Purchased Material	1.00 ls		-	-	***518,009***	-	-	-	518,009.00	518,009
		Construction Heavy Equipment	1.00 ls		-	-	-	-	***217,695***	-	217,695.00	217,695
		Partner Subcontracts	1.00 ls		-	-	-	***386,010***	-	-	386,010.00	386,010
		Construction Tagged & 3rd Party Rental Equipment	1.00 ls		-	-	-	-	***4,702***	-	4,702.00	4,702
		Travel & Living Expenses	1.00 ls		-	-	-	-	-	***5,100***	5,100.00	5,100
		Installation			17,722.00 hrs	**604,110**	**518,009**	**386,010**	**222,397**	**5,100**		**1,735,626**
		PHASE 3 - HED			***17,722.00 hrs***	***604,110***	***518,009***	***386,010***	***222,397***	***5,100***		***1,735,626***

Estimate Totals

Labor	604,110		17,722.000	hrs			
Material	518,009						
Subcontract	386,010						
Equipment	222,397						
Other	5,100						
	1,735,626	1,735,626					
Small Tools Expense P	24,827					L	
Consumables & Expendables P	10,273					L	
	35,100	1,770,726					
TVA-HED - Central Command	76,274					L	
	76,274	1,847,000					
FES Engr - Phase 1(Sunk)	367,000		49.306	% @	42.00	A	8,738
Parsons Engr - Phase 1(Sunk)	122,000		16.391	% @	42.00	A	2,905
FES Engr - Phase 1(Remaining)	72,000		9.673	% @	42.00	A	1,714
Parsons Engr - Ph 1(Remaining)	96,000		12.898	% @	42.00	A	2,286
	657,000	2,504,000					
FES Engr - Phase 3	22,000		2.956	% @	42.00	A	524
Parsons Engr - Phase 3	30,000		4.031	% @	42.00	A	714
	52,000	2,556,000					
Contingency Total Project	200,000					L	
	200,000	2,756,000					
	Total	***2,756,000***					

Haber, Stanley M

From: Toney, Calvin L.
Sent: Monday, May 23, 2005 9:51 AM
To: Haber, Stanley M.
Subject: French Drain Estimate Comparison Summary Sheets
Attachments: CES vs HED Estimate Comparison.xls

Attached is the file for the above subject per your request.

If you have any comments or questions please e-mail me or call me at x7666.

Calvin L. Toney
LP 2P-C
Cost Estimator
Phone 751-7666
Fax 751- 4295

KINGSTON DREDGE CELL FRENCH DRAINS ESTIMATE COMPARISON

CES Original Phase 1 Cost Estimate

Item	Dollars
Engineering	$15,000
Partner (Non-Manual)	
Other / Other Organizations	$0
Total Phase I	***$15,000***
Engineering	$112,258
Long Lead Procurement	$0
Partner (Non-Manual)	
Other / Other Organizations	$0
Total Phase II	***$112,258***
Permanent Material	$469,106
Labor (T&L) 21,187 Mh's	$515,453
Labor (Non-Manual) 2,650 Mh's	$132,500
Equipment	$214,019
Subcontracts	$85,700
Partner Fee	$32,398
Partner Insurance	$19,439
Escalation	$0
Construction Risk Dollars	$0
Other	$34,127
Total Construction Cost	$1,502,742
Engineering	$23,000
Direct plant support + TVA Other Costs	$0
Project Risk Dollars	$0
Other / Other Organizations	$0
Total Phase III	***$1,525,742***
Construction Partner 23,837 Mh's	$1,502,742
Long Lead Procurement	$0
Engineering	$150,258
Other / Other Organizations	$0
Total Risk Dollars	$0
Total Project Costs	**$1,653,000**

HED Phase 3 Cost Estimate

Item	Dollars
Engineering	$15,000
Partner (Non-Manual)	
Other / Other Organizations	$0
Total Phase I	***$15,000***
Engineering	$112,258
Long Lead Procurement	$0
Partner (Non-Manual)	
Other / Other Organizations	$0
Total Phase II	***$112,258***
Permanent Material	$518,009
Labor (T&L) 17,122 Mh's	$576,510
Labor (Non-Manual) 600 Mh's	$27,600
Equipment	$222,397
Subcontracts	$386,010
TVA-HED - Central Command	$75,663
Partner Insurance	$0
Escalation	$0
Construction Risk Dollars	$0
Other	$40,200
Total Construction Cost	$1,846,389
Engineering	$23,000
Direct plant support + TVA Other Costs	$0
Project Risk Dollars	$0
Other / Other Organizations	$0
Total Phase III	***$1,869,389***
Construction Partner 17,722 Mh's	$1,846,389
Long Lead Procurement	$0
Engineering	$150,258
Other / Other Organizations	$0
Total Risk Dollars	$0
Total Project Costs	**$1,996,647**

Haber, Stanley M

From: Petty, Harold L.
Sent: Tuesday, May 17, 2005 10:31 AM
To: Haber, Stanley M.
Cc: Purkey, Ronald E.
Subject: FW: TDEC's Approval of KIF Dredge Cell Repair

Stan:

Are you up on all this chain of e-mails?

Thanks
Lynn

-----Original Message-----
From: Bowers, Larry C
Sent: Monday, May 16, 2005 12:07 PM
To: Baugh, James S.; Purkey, Ronald E.; Petty, Harold L.; Petty, Randal L; Radford, Larry D.
Subject: RE: TDEC's Approval of KIF Dredge Cell Repair

Please do from my perspective. As I stated earlier I think KIF's concerns are valid. Also I think we need to raise the existing dredge cell dikes before we can resume normal dredging in November. If that is correct we need to include this work in the schedule.

-----Original Message-----
From: Baugh, James S.
Sent: Monday, May 16, 2005 11:53 AM
To: Bowers, Larry C; Purkey, Ronald E.; Petty, Harold L.; Petty, Randal L; Radford, Larry D.
Subject: RE: TDEC's Approval of KIF Dredge Cell Repair

If it's ok with you guys, I'll take the lead to pull together an integrated schedule. I'll also take an action item to get us together prior to the Kingston meeting on May 25 to make sure that we are all ok with this integrated schedule.

Thanks,

Steve

-----Original Message-----
From: Bowers, Larry C
Sent: Monday, May 16, 2005 11:10 AM
To: Baugh, James S.; Purkey, Ronald E.; Petty, Harold L.; Petty, Randal L
Subject: FW: TDEC's Approval of KIF Dredge Cell Repair

Didn't see you guys copied. Seems like a good idea.

-----Original Message-----
From: Campbell, Linda F.
Sent: Monday, May 16, 2005 10:56 AM
To: Bowers, Larry C; Radford, Larry D.
Cc: Catlett, James H; Haber, Stanley M.; Settles, James T; Lowery, Kenny R.; Lowery, Kenny R.; Johnson, Lindy P.; Webb, Cynthia O.
Subject: RE: TDEC's Approval of KIF Dredge Cell Repair

Hey Larry and Larry,

I'm a bit concerned that all the obligations associated with the ash pond can not be met in a timely manner. There are several projects that I know of that will be overlapping. One is the fix below, then there is raising the dike on the interim pond, the Kennedy Weir Replacement, developing the new borrow area, and all the additional storm water requirement, plus any others I may not be aware of. As a project develops, there is usually some additional time consuming tasks that were unforeseen. If Jim is to be the lead in all of these projects, I'm concerned he will get overloaded and some tasks may not get completed.

Earl Deskins & I would like to see some timeline for all the projects associated with the ash pond for the next few months. This should include a responsible person for each, approximate time of completion and approximate number of personnel on each project. Earl would prefer a meeting to discuss, but a written plan would probably satisfy him.

Mike Crane, KIF Procurement, will have a contractor here tomorrow to estimate chipping the trees that will need to be removed from the new borrow area.
Thanks,
Linda

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

From: Bowers, Larry C
Sent: Friday, May 13, 2005 4:40 PM
To: Catlett, James H; Baugh, James S.; Haber, Stanley M.; Hedgecoth, Melissa A.; Lankford, Brian S.; Purkey, Ronald E.; Petty, Harold L.; Petty, Randal L; Settles, James T; Radford, Larry D.; Knox, Robert; 'Smith, Daniel R (Reading)'
Cc: Johnson, Lindy P.; Campbell, Linda F.; Smith, Amos L; Park, Gordon G
Subject: TDEC's Approval of KIF Dredge Cell Repair

We have received TDEC's approval of our solid waste permit minor modification request. However TDEC has placed two conditions on that approval that where unexpected. Construction must begin by June 1, 2005 and must be complete by August 31, 2005. Evidently they are very interested in TVA fixing the leak quickly. I have discussed this with Lindy and we can install the wells prior to the stormwater permit being issued so the first date should not be an issue. My question is can we meet the second date. Please let me know your thoughts...

Larry C. Bowers
Senior Solid Waste Specialist
Environmental Affairs
1101 Market Street, LP 5D
Chattanooga, Tn 37402-2801
423-751-4947 Fax: 423-751-7011
Pager: 1-800-283-0028,2421
lcbowers@tva.gov

Haber, Stanley M

From: Knox, Robert
Sent: Wednesday, April 20, 2005 4:06 PM
To: Haber, Stanley M.
Cc: Radford, Larry D.; Lowery, Kenny R.; Jones, Sonja R.; Lankford, Brian S.
Subject: KIF Dredge Cell - Seepage Repair Quantities by HED

Stan,

The materials for the KIF Dredge Cell - Seepage Repair are listed below. Many of the items listed will required additional time to complete the procurement bidding process (approx. 3 weeks). I have marked the items on the list below. A material specification will be required to start the procurement process. Please give me a call if we can provide anything further.

Item	Quantity	Unit	
silt fence	5700	LF	
dewatering structure (CMP)	1	EA	
geotextile/staples non-woven	11500	SY	bid
D50 riprap	19034	TON	bid
curlex	3000	SY	
1032 stone	1760	TON	bid
6" pipe bollards	36	EA	
8" dia. Non-perf. HDPE	2339	LF	bid
8" dia. Perf. HDPE	15760	LF	bid
crushed stone	78	TON	bid
1081 stone	3243	TON	bid
geotextile woven monofilament	12258	SY	bid
composite geonet	32700	SY	unknown
submersible pump	1	EA	unknown
60" dia. Precast manhole	1	EA	unknown
8" dia. Force Main HDPE	2400	LF	bid
electrical power	1	LS	contract to utility?
3" stone	440	TN	bid
chain link fence	4500	LF	bid
personal gate	2	EA	bid
swing gate	2	EA	bid

Thank you,

Robert F. Knox, Civil Engineer
Tennessee Valley Authority
Heavy Equipment Division
cell: (423) 580-0958
office: (423) 751-3808
fax: (423)751-3432

Haber, Stanley M

From: Petty, Harold L.
Sent: Thursday, April 07, 2005 7:48 AM
To: 'Smith, Daniel R'
Cc: Hughes, Michael; Baugh, James S.; Haber, Stanley M.
Subject: RE: Draft Phase 2 engineering schedule for seep remediation at KIF

The Primavera schedule is in the system but is not correct. It will look very similar to the one attached to my e-mail except the discussion Stan and I was having about the need for the CEC being complete before we ask for phase 2/3 approval could have an impact on the way the schedule looks. It will not impact time wise what you or I are doing on the engineering aspect.

Thanks,
Lynn

-----Original Message-----
From: Smith, Daniel R [mailto:Daniel.R.Smith@worleyparsons.com]
Sent: Wednesday, April 06, 2005 7:30 PM
To: Petty, Harold L.
Cc: Hughes, Michael; Baugh, James S.; Haber, Stanley M.
Subject: RE: Draft Phase 2 engineering schedule for seep remediation at KIF

Please advise when the primavera schedule will be completed. Is it going to be substantially different?

Dan

-----Original Message-----
From: Petty, Harold L. [mailto:hlpetty@tva.gov]
Sent: Wednesday, April 06, 2005 11:57 AM
To: Smith, Daniel R; Baugh, James S.; Haber, Stanley M.
Cc: Hughes, Michael
Subject: RE: Draft Phase 2 engineering schedule for seep remediation at KIF

Dan:

This is a later version of the schedule than the one attached to your e-mail. Really the one that counts is the Primavera version.

Thanks,
Lynn

-----Original Message-----
From: Smith, Daniel R [mailto:Daniel.R.Smith@worleyparsons.com]

Sent: Wednesday, April 06, 2005 11:07 AM
To: Baugh, James S.; Haber, Stanley M.
Cc: Petty, Harold L.; Hughes, Michael
Subject: Draft Phase 2 engineering schedule for seep remediation at KIF

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Haber, Stanley M

From: Smith, Daniel R [Daniel.R.Smith@worleyparsons.com]
Sent: Wednesday, April 06, 2005 7:30 PM
To: Petty, Harold L.
Cc: Hughes, Michael; Baugh, James S.; Haber, Stanley M.
Subject: RE: Draft Phase 2 engineering schedule for seep remediation at KIF

Please advise when the primavera schedule will be completed. Is it going to be substantially different?

Dan

-----Original Message-----
From: Petty, Harold L. [mailto:hlpetty@tva.gov]
Sent: Wednesday, April 06, 2005 11:57 AM
To: Smith, Daniel R; Baugh, James S.; Haber, Stanley M.
Cc: Hughes, Michael
Subject: RE: Draft Phase 2 engineering schedule for seep remediation at KIF

Dan:

This is a later version of the schedule than the one attached to your e-mail. Really the one that counts is the Primavera version.

Thanks,
Lynn

-----Original Message-----
From: Smith, Daniel R [mailto:Daniel.R.Smith@worleyparsons.com]

Sent: Wednesday, April 06, 2005 11:07 AM
To: Baugh, James S.; Haber, Stanley M.
Cc: Petty, Harold L.; Hughes, Michael
Subject: Draft Phase 2 engineering schedule for seep remediation at KIF

Haber, Stanley M

From: Petty, Harold L.
Sent: Wednesday, April 06, 2005 11:57 AM
To: 'Smith, Daniel R'; Baugh, James S.; Haber, Stanley M.
Cc: Hughes, Michael
Subject: RE: Draft Phase 2 engineering schedule for seep remediation at KIF

Attachments: KIF - French Drain Schedule.xls

KIF - French Drain Schedule.xl...

Dan:

This is a later version of the schedule than the one attached to your e-mail. Really the one that counts is the Primavera version.

Thanks,
Lynn

-----Original Message-----
From: Smith, Daniel R [mailto:Daniel.R.Smith@worleyparsons.com]
Sent: Wednesday, April 06, 2005 11:07 AM
To: Baugh, James S.; Haber, Stanley M.
Cc: Petty, Harold L.; Hughes, Michael
Subject: Draft Phase 2 engineering schedule for seep remediation at KIF

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Haber, Stanley M

From: Smith, Daniel R [Daniel.R.Smith@worleyparsons.com]
Sent: Wednesday, April 06, 2005 11:07 AM
To: Baugh, James S.; Haber, Stanley M.
Cc: Petty, Harold L.; Hughes, Michael
Subject: Draft Phase 2 engineering schedule for seep remediation at KIF

Attachments: Draft Phase 2 engineering schedule for seep remediation at KIF

Draft Phase 2 engineering sche...


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<html>
<font face="Arial" style="font-size: 8pt;">*** WorleyParsons Group Notice ***
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```

Haber, Stanley M

From: Smith, Daniel R [Daniel.R.Smith@worleyparsons.com]
Sent: Wednesday, April 06, 2005 11:07 AM
To: Baugh, James S.; Haber, Stanley M.
Cc: Petty, Harold L.; Hughes, Michael
Subject: Draft Phase 2 engineering schedule for seep remediation at KIF

Attachments: KIF - French Drain Schedule.xls

This is the draft put together by Lynn Petty - FYI

Please advise of any changes.

KIF - French Drain Schedule.xl...

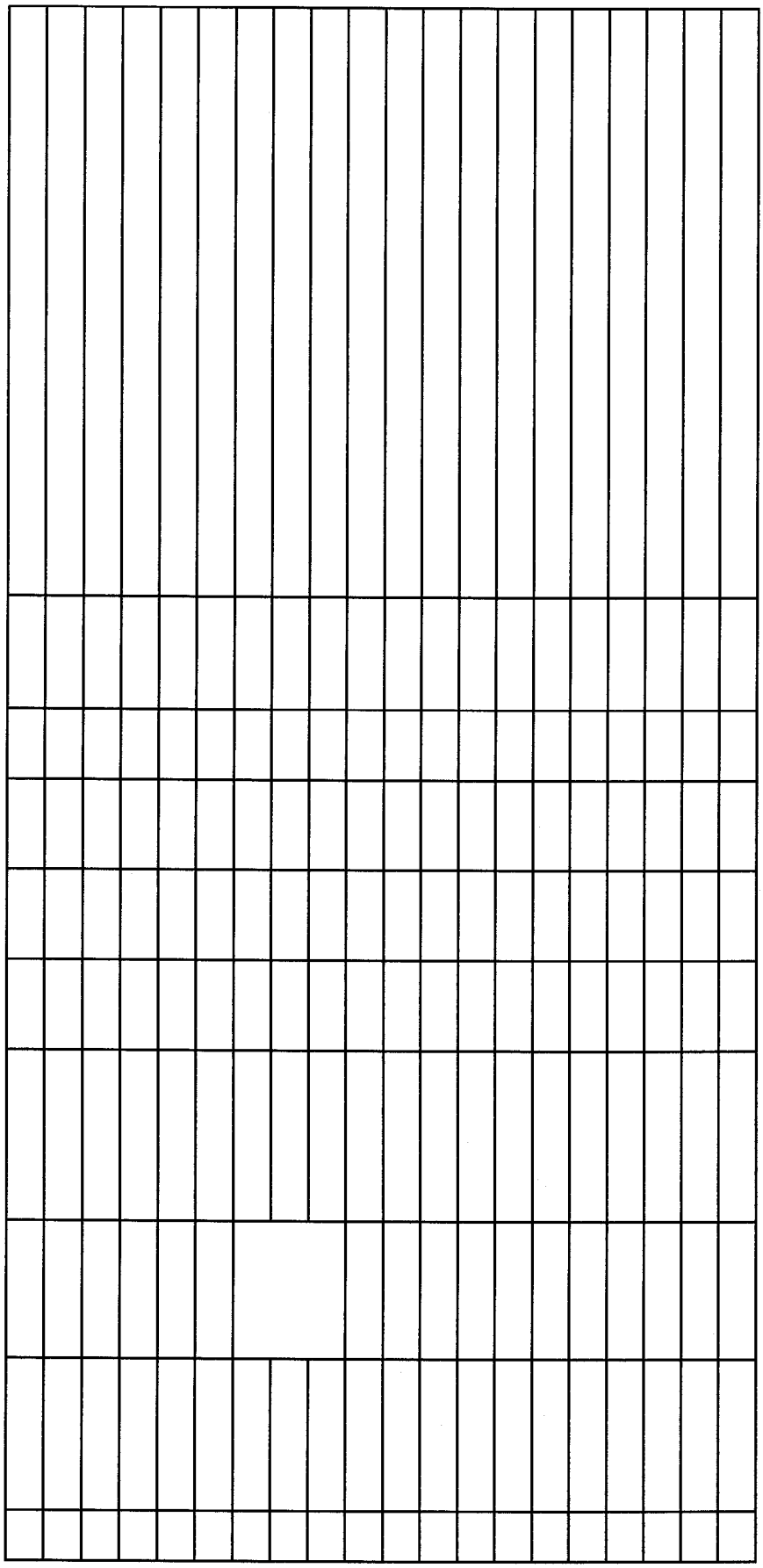
Please note my new email address: Daniel.R.Smith@worleyparsons.com
Daniel R. (Dan) Smith, P.E.
Parsons E & C
633 Chestnut St, Suite 400
Chattanooga, TN 37932
Phone: (423) 757-8088
Fax: (423) 266-0922
Cell: (423) 364-1679
Email: Daniel.R.Smith@worleyparsons.com

SEC	Activity ID	Forecast Start	Forecast Finish	Target	Resp Engr	Prin Engr	Res ID	Bdgt Mhrs	Activity Name

KIF530A - French Drains - Dredge Cell Repair

Preliminary Engineering (Phase 1)									
			28-Mar-05						Quantiities to Calvin Toney
35			29-Mar-05						Initiate CEC for French Drains
35		28-Mar-05	30-Mar-05		CT				Prepare and complete Estimate for Phase 2 & 3
			30-Mar-05						Conduct Phase I Study (French Drains)
			01-Apr-05						FPEP Phase 2/3 approval
Final Engineering (Phase 2)									
			07-Apr-05						Submit DRAFT SWPPP to Envr Affairs
35									
35			15-Apr-05						Submit SWPPP to TDEC
35									Prepare DCN KIF-05-XXXX
35			01-Apr-05						Send Preliminary (10%) Sketches to Plant
35			07-Apr-05						10% DCN Design Review MTG
35									
35			01-May-05						Meet with TDEC
35			07-May-05						Receive TDEC Approval
35									
35									

35									
			13-May-05						Send Preliminary (50/100%) Sketches to Plant
			20-May-05						50/100% DCN Design Review MTG
									Review Cost Estimate (compare PH 2/3 est)
			31-May-05						Complete CEC for French Drains
									ERU Assemble and Distribute KIF -05-XXX
			31-May-05						DCN KIF-05-XXX Issued
			31-May-05						Final Engineering Complete
Implementation (Phase 3)									
		01-Jun-05	31sep05						Ph 3 Project Support Mhrs (Hammock)
			01-Jun-05						Issue HED PA
		01-Jun-05	31sep05						Implementation Field Support
		01-Jun-05	31sep05						Implementation and Construction Period
			31sep05						DCN KIF-05-XXX RTOProject Turnover
		01-Oct-05	15-Nov-05						Closure Process of DCN KIF-05-XXX
			18-Nov-05						ERU Assemble and Distribute KIF-05-XXX
			19-Nov-05						DCN KIF-05-XXX Closed
			31-Dec-05						Verify Benefits and Close Project



Haber, Stanley M

From: Petty, Harold L.
Sent: Thursday, March 31, 2005 3:51 PM
To: Purkey, Ronald E.; Haber, Stanley M.
Subject: FW: Review of cost estimate for drain installation to mitigate seepage at KIF Dredge Cell

Attachments: Project Summary Sheet(05359R1).rtf; 05359R1.pdf

Here is the estimate revised per Dan's comments.

Thanks,
Lynn

-----Original Message-----
From: Toney, Calvin L.
Sent: Thursday, March 31, 2005 2:05 PM
To: 'Smith, Daniel R'
Cc: Melton, Gary; Petty, Harold L.; Hughes, Michael
Subject: RE: Review of cost estimate for drain installation to mitigate seepage at KIF Dredge Cell


Project Summary Sheet(05359R1)...


05359R1.pdf (32 KB)

Attached are the revised files per Dan's comments.

-----Original Message-----
From: Smith, Daniel R [mailto:Daniel.R.Smith@worleyparsons.com]
Sent: Wednesday, March 30, 2005 7:40 AM
To: Toney, Calvin L.
Cc: Melton, Gary; Petty, Harold L.; Hughes, Michael
Subject: Review of cost estimate for drain installation to mitigate seepage at KIF Dredge Cell

Comments are directed at the detailed estimate (location) except where noted.

02 - Access Road - this is an allowance to address wear and tear on the existing road.

05 - Place additional riprap - this quantity should be 4000 tons, not 9450 tons.

06 - Add additional cost of transformer replacement (see attachment)

Also, for phase 3 engineering cost, assume 3% of construction cost (10% is too high).

An additional comment would be that the phase 1 and phase 2 costs are already appropriated. I'll defer to Lynn/Mike as to whether these should be included in the estimate or not. If they want to recoup the costs for engineering spent (or appropriated to be spent) already during this FY, they have that information. Or, if they want to leave what you have as an allowance, ok by me.

Please contact me if you have any questions.

<< Message: RE: KIF French Drains Cost Estimate >>

Please note new email address: Daniel.R.Smith@worleyparsons.com
Daniel R. (Dan) Smith, P.E.
Parsons E & C Phone: (423) 757-8088
633 Chestnut St, Suite 400 Fax: (423) 266-0922
Chattanooga, TN 37450 Cell: (423) 364-1679 Email: Daniel.R.Smith@worleyparsons.com

KINGSTON FOSSIL PLANT
(KIF530) DREDGE CELL FRENCH DRAINS
(SEEPAGE REPAIR)

Estimate Number	05359R1	**Option:**	0	**PCN Number:**	KIF530
Plant:	KIF	**Revision:**	1	**Estimate Type:**	Conceptual
Cost Engineer:	C. L. Toney	**Unit #:**		**Estimate Accuracy:**	+/- 30%
Requesting Engr:	S. M. Haber	**Phase:**	1	**Estimate Issue Date**	3/31/2005

	Hours	Dollars
Phase I		
Engineering		$15,000
Partner (Non-Manual)		
Other / Other Organizations		$0
Total Phase I		***$15,000***
Phase II		
Engineering		$112,258
Long Lead Procurement		$0
Partner (Non-Manual)		
Other / Other Organizations		$0
Total Phase II		***$112,258***
Phase III		
Construction (Partner)		
Permanent Material		$469,106
Labor (T&L)	21,186.85	$515,453
Labor (Non-Manual)	2,650.00	$132,500
Equipment		$214,019
Subcontracts		$85,700
Partner Fee		$32,398
Partner Insurance		$19,439
Escalation		$0
Construction Risk Dollars		$0
Other		$34,127
Total Construction Cost		$1,502,742
Engineering		$23,000
Direct plant support + TVA Other Costs		$0
Project Risk Dollars		$0
Other / Other Organizations		$0
Total Phase III		***$1,525,742***
All Phases		
Construction Partner	23,836.85	$1,502,742
Long Lead Procurement		$0
Engineering		$150,258
Other / Other Organizations		$0
Total Risk Dollars		$0
Total Project Costs	**23,836.85**	**$1,653,000**
For Information only Total Environmental		**$0**
For Information only Total Demolition Costs		**$0**

KINGSTON FOSSIL PLANT
(KIF530) DREDGE CELL FRENCH DRAINS
(SEEPAGE REPAIR)

Project name	KIF/05359R1/FRENCH DRAINS
Engineer	DAN SMITH
Estimator	C. L. Toney
Labor rate table	KIF 40 ST 2005
Equipment rate table	TVA Equipment
Project	French Drains
Plant	KIF
Estimate #	05359R1
PCN #	KIF530
Requesting Engr	S. M. Haber
Option	0
Revision	1
Phase	1
Estimate Type	Conceptual
Estimate Accuracy	+/- 30%
Est. Issue Date	3/31/2005
Funding Type	Capital
Outage(Y/N)	N
Notes	Estimate Assummptions: All costs are based in 2005 dollars. Single phase power for pump installed for dredge cell seepage retrofit. 3-phase power is assumed not to be required. Existing pumps will be reused. Engineering (including TVA over sight, subcontracts, and addilional geotechnical investigation) - assumes 10% of construction costs. Estimate has been revised to reflect comments from Dan Smith e-mail on March 30, 2005.
Report format	Sorted by 'Location/Activity' 'Detail' summary

Location	Activity	Description	Takeoff Quantity	Labor Productivity	Labor Quantity	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount
01												
	Erosion Controls/S P											
		Erect Silt Fence	4,500.00 lf	0.069	308.57 mh	7,532	2,223	-	1,399	-	2.48	11,154
		Strip 1 Foot Soil Off Of Slope (Temporary Stockpile)	911.00 cy	0.025	22.78 mh	591	-	-	712	-	1.43	1,303
		Excavate 3:1 Slope In Ash Slope To Provide Space For Pond	800.00 cy	0.120	96.00 mh	2,408	-	-	880	-	4.11	3,288
		Excavate For Temporary Sediment Pond / Permanent Pond	1,400.00 cy	0.103	144.00 mh	3,612	-	-	1,320	-	3.52	4,932
		Install Temporary Pond Dewatering Structure	1.00 ea	64.000	64.00 mh	1,680	2,000	-	304	-	4,184.34	4,184
		Place Temporary Geotextile&Staple To Side Of Pond Next To Dredge Cell	611.00 sy	0.065	39.72 mh	951	2,352	-	99	-	5.57	3,402
		D50 6" Riprap For Temporary Check Dams	84.00 tn	0.400	33.60 mh	844	1,008	-	530	-	28.36	2,382
		Replace 1 Foot Of Soil On Slope Adjacent To Pond	911.00 cy	0.160	145.76 mh	3,656	-	-	1,336	-	5.48	4,992
		Seed And Mulch Replaced Soil	1.00 ac	36.000	36.00 mh	923	1,000	-	780	-	2,703.15	2,703
		Curlex Blanket	3,000.00 sy	0.020	60.00 mh	1,436	1,320	-	150	-	0.97	2,906
		Erosion Controls/S P			**950.42 hrs**	**23,834**	**9,903**		**7,510**			**41,247**
		01			***950.42 hrs***	***23,834***	***9,903***		***7,510***			***41,247***
02												
	Access Road (Gravel)											
		Allowance To Maintain Wear And Tear On Existing Road	***1.00 lot***		-	-	-	-	-	-	***0.00***	***0***
		1032 Crushed Stone Base 3" Depth (110 pcf)	1,760.00 tn	0.120	211.20 mh	5,804	15,708	-	2,033	-	13.38	23,545
		Access Road (Gravel)			**211.20 hrs**	**5,804**	**15,708**		**2,033**			**23,545**
		02			***211.20 hrs***	***5,804***	***15,708***		***2,033***			***23,545***
03												
	Instl Drns/Swan Pond											
		6" Dia Pipe Bollards	36.00 ea	1.500	54.00 mh	1,307	7,200	-	360	-	246.32	8,867
		Strip 1 Foot Cover (Drainage System Installation)	11,745.00 cy	0.020	234.90 mh	6,098	-	-	7,341	-	1.14	13,439
		8" Dia Non-Perf HDPE Corrugated Tubing Lateral Outlet Pipes (EL. 775)	632.00 lf	0.200	126.40 mh	2,890	1,194	-	526	-	7.29	4,610
		Crushed Stone, Bedding 6" Depth	21.00 tn	0.500	10.50 mh	254	196	-	35	-	23.13	486
		8" Dia Non-Perf HDPE Corrugated Tubing Lateral Outlet Pipes (EL. 780)	779.00 lf	0.200	155.80 mh	3,562	1,472	-	649	-	7.30	5,682
		Crushed Stone, Bedding 6" Depth	26.00 tn	0.500	13.00 mh	315	243	-	43	-	23.13	601
		8" Dia Non-Perf HDPE Corrugated Tubing Lateral Outlet Pipes (EL. 796)	926.00 lf	0.200	185.60 mh	4,243	1,754	-	773	-	7.30	6,769
		Crushed Stone, Bedding 6" Depth	31.00 tn	0.500	15.50 mh	375	290	-	52	-	23.13	717
		Cut For 8" Dia Non-Perforated HDPE (1,083 bcy)	1,300.00 cy	0.200	260.00 mh	6,295	-	-	2,167	-	6.51	8,461
		Backfill For 8" Dia Non-Perforated HDPE (758 bcy)	910.00 cy	0.250	227.50 mh	5,508	-	-	2,675	-	8.99	8,183
		Cut For 8" Dia Perforated HDPE (7,296 bcy)	8,755.00 cy	0.200	1,751.00 mh	42,392	-	-	14,592	-	6.51	56,984
		Backfill For 8" Dia Perforated HDPE (5,107 bcy)	6,129.00 cy	0.250	1,532.25 mh	37,096	-	-	18,019	-	8.99	55,115
		8" Dia Perforated HDPE Perimeter Underdrain (EL. 765)	4,275.00 lf	0.200	855.00 mh	19,545	8,080	-	3,559	-	7.30	31,184
		1081 Crushed Stone	808.00 tn	0.150	121.20 mh	2,934	7,211	-	1,010	-	13.81	11,156
		Geotextile Woven Monofilament	3,325.00 sy	0.021	68.40 mh	1,637	6,620	-	228	-	2.55	8,485
		8" Dia Perforated HDPE Perimeter Underdrain (EL. 775)	4,045.00 lf	0.200	809.00 mh	18,494	7,645	-	3,367	-	7.29	29,506
		1081 Crushed Stone	765.00 tn	0.150	114.75 mh	2,778	6,628	-	956	-	13.81	10,562
		Geotextile Woven Monofilament	3,146.00 sy	0.021	64.71 mh	1,549	6,264	-	216	-	2.55	8,028
		8" Dia Perforated HDPE Perimeter Underdrain (EL. 780)	3,800.00 lf	0.200	760.00 mh	17,374	7,182	-	3,164	-	7.30	27,719
		1081 Crushed Stone	718.00 tn	0.150	107.70 mh	2,607	6,408	-	898	-	13.81	9,913
		Geotextile Woven Monofilament	2,956.00 sy	0.021	60.80 mh	1,455	5,885	-	203	-	2.55	7,544
		8" Dia Perforated HDPE Perimeter Underdrain (EL. 796)	3,640.00 lf	0.200	728.00 mh	16,642	6,880	-	3,030	-	7.30	26,552
		1081 Crushed Stone	688.00 tn	0.150	103.20 mh	2,498	6,140	-	860	-	13.81	9,499
		Geotextile Woven Monofilament	2,831.00 sy	0.021	58.23 mh	1,394	5,637	-	194	-	2.55	7,225
		Instl Drns/Swan Pond			**8,417.45 hrs**	**199,241**	**93,130**		**64,917**			**357,288**
		03			***8,417.45 hrs***	***199,241***	***93,130***		***64,917***			***357,288***
04												
	Install Comp Geonet											
		Between 765 & 775 Bench	***1.00 lot***		-	-	-	-	-	-	***0.00***	***0***
		Strip 1 Foot Soil And Stockpile	10,000.00 cy	0.020	200.00 mh	5,192	-	-	6,250	-	1.14	11,442
		Place Composite Geonet	32,700.00 sy	0.050	1,635.00 mh	39,134	161,865	-	4,088	-	6.27	205,086
		Place 1 Foot Soil	10,000.00 cy	0.060	600.00 mh	15,050	-	-	5,500	-	2.06	20,550
		Place Thickened Soil Layer At Toe To Tie Into Ditch	1,000.00 cy	0.100	100.00 mh	2,508	-	-	917	-	3.43	3,425
		Seed And Mulch Replaced Soil	6.00 ac	36.000	216.00 mh	5,539	6,000	-	4,680	-	2,703.15	16,219
		Install Comp Geonet			**2,751.00 hrs**	**67,423**	**167,865**		**21,434**			**256,722**
		04			***2,751.00 hrs***	***67,423***	***167,865***		***21,434***			***256,722***
05												
	Instl Riprap Ditches											
		Final Grading Of Ditches (Allowance)	250.00 cy	0.096	24.00 mh	581	-	-	200	-	3.12	781
		Over Excavate Ditch For Riprap	8,040.00 cy	0.200	1,608.00 mh	38,930	-	-	20,100	-	7.34	59,030
		Install Non-Woven Needlepunched Geotextile, 8 oz	1,000.00 sy	0.016	16.00 mh	383	1,375	-	53	-	1.81	1,811
		Place D50 9" Riprap	9,500.00 tn	0.320	3,040.00 mh	76,365	114,000	-	47,979	-	25.09	238,344
		Place Additional Riprap At Toe	4,000.00 tn	0.320	1,280.00 mh	32,154	48,000	-	20,202	-	25.09	100,355
		Instl Riprap Ditches			**5,968.00 hrs**	**148,412**	**163,375**		**88,534**			**400,321**
		05			***5,968.00 hrs***	***148,412***	***163,375***		***88,534***			***400,321***
06												
	Const Permanent Pond											
		Submersible Pumping Station Equipment Package	***1.00 lot***		-	-	-	-	-	-	***0.00***	***0***

Location	Activity	Description	Takeoff Quantity	Labor Productivity	Labor Quantity	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount
	Const Permanent Pond											
		Relocate Submersible Pumps	2.00 ea	40.000	80.00 mh	2,619	-	-	556	-	1,587.79	3,176
		Install New Submersible Pump	1.00 ea	30.000	30.00 mh	982	1,539	-	209	-	2,729.84	2,730
		Remove Existing Temporary Dewatering Structure	1.00 ls	48.000	48.00 mh	1,216	-	-	440	-	1,655.80	1,656
		60" Diameter Precast Concrete Manhole (15 Ft Depth)	1.00 ea	60.000	60.00 mh	1,523	3,000	-	458	-	4,980.96	4,981
		Cut For 8" Dia Forced Main HDPE (1,111 bcy)	1,333.00 cy	0.200	266.60 mh	6,454	-	-	2,222	-	6.51	8,676
		8" Dia Forced Main HDPE Perimeter Underdrain (EL. 763)	2,400.00 lf	0.200	480.00 mh	10,973	4,536	-	1,998	-	7.30	17,507
		1081 Crushed Stone	264.00 tn	0.150	39.60 mh	959	2,356	-	330	-	13.81	3,645
		Backfill For 8" Dia Forced Main HDPE (778 bcy)	934.00 cy	0.250	233.50 mh	5,653	-	-	2,746	-	8.99	8,399
		Allowance For Electrical Scope Of Pumps Relocation	1.00 lot		-	-	-	15,000	-	-	15,000.00	15,000
		Geolextile (Line Pond To Minimize Erosion)	889.00 sy	0.018	16.00 mh	383	1,173	-	40	-	1.80	1,597
		3" Stone (Line Pond To Minimize Erosion)	440.00 tn	0.096	42.24 mh	1,121	3,927	-	660	-	12.97	5,708
		Chain Link Fence (5' Fence With 3 Strands Of Barbed Wire Along Top)	4,500.00 lf		-	-	-	67,500	-	-	15.00	67,500
		Personal Gates	2.00 ea		-	-	-	700	-	-	350.00	700
		Swing Gates	2.00 ea		-	-	-	2,500	-	-	1,250.00	2,500
		Const Permanent Pond			**1,295.94 hrs**	**31,884**	**16,532**	**85,700**	**9,658**			**143,774**
		06			***1,295.94 hrs***	***31,884***	***16,532***	***85,700***	***9,658***			***143,774***
07												
	Erosion Cntrls/B Pit											
		Erect Silt Fence	1,200.00 lf	0.069	82.28 mh	2,009	593	-	373	-	2.48	2,974
		Final Seeding	2.00 ac	36.000	72.00 mh	1,846	2,000	-	1,560	-	2,703.15	5,406
		Erosion Cntrls/B Pit			**154.28 hrs**	**3,855**	**2,593**		**1,933**			**8,381**
		07			***154.28 hrs***	***3,855***	***2,593***		***1,933***			***8,381***
xCONST FACILITY												
	Construct Facilities											
		Mobilize, Drug Test, Misc Other, & Demobilize	1.00 ls	1,438.553	1,438.55 mh	35,000	-	-	18,000	0	53,000.00	53,000
		Construct Facilities			**1,438.55 hrs**	**35,000**			**18,000**			**53,000**
		xCONST FACILITY			***1,438.55 hrs***	***35,000***			***18,000***			***53,000***
zNON MANUAL												
	Non-Manual											
		Non Manual	1.00 ls	2,650.000	2,650.00 mh	132,500	-	-	-	-	132,500.00	132,500
		Non-Manual			**2,650.00 hrs**	**132,500**						**132,500**
		zNON MANUAL			***2,650.00 hrs***	***132,500***						***132,500***

Estimate Totals

Labor	647,953		23,836.845	hrs		
Material	469,106					
Subcontract	85,700					
Equipment	214,019		8,116.086	hrs		
	1,416,778	1,416,778				
Small Tools Expense	9,534		0.450	$/hr	H	
Consumables & Expendables	20,618		4.000	%	C	
Office Supplies & Expense	3,975		3.000	%	C	
	34,127	1,450,905				
Partner Insurance (FY05)	19,439		3.000	%	C	
Partner Award Fee (FY05)	32,398		5.000	%	C	
	51,837	1,502,742				
Fossil Engineering - Phase 1	15,000		0.874	% @ 72.00	A	208
	15,000	1,517,742				
Fossil Engineering - Phase 2	112,258		6.541	% @ 72.00	A	1,559
	112,258	1,630,000				
Fossil Engineering - Phase 3	23,000		1.340	% @ 72.00	A	319
	23,000	1,653,000				
Rounding					L	
		1,653,000				
	Total	***1,653,000***				

Haber, Stanley M

From: Smith, Daniel R [Daniel.R.Smith@worleyparsons.com]
Sent: Wednesday, March 30, 2005 9:09 AM
To: Haber, Stanley M.
Subject: FW: Review of cost estimate for drain installation to mitigate seepage at KIF Dredge Cell

Attachments: FW: Review of cost estimate for drain installation to mitigate seepage at KIF Dredge Cell

FW: Review of cost estimate fo...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<html>
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```

Haber, Stanley M

From: Smith, Daniel R [Daniel.R.Smith@worleyparsons.com]
Sent: Wednesday, March 30, 2005 9:09 AM
To: Haber, Stanley M.
Subject: FW: Review of cost estimate for drain installation to mitigate seepage at KIF Dredge Cell

Attachments: RE: KIF French Drains Cost Estimate

Stan, here is the attachment.

Dan

-----Original Message-----
From: Smith, Daniel R
Sent: Wednesday, March 30, 2005 7:40 AM
To: 'Toney, Calvin'
Cc: Melton, Gary; 'Petty, H. L.'; 'Hughes, Mike'
Subject: Review of cost estimate for drain installation to mitigate seepage at KIF Dredge Cell

Comments are directed at the detailed estimate (location) except where noted.

02 - Access Road - this is an allowance to address wear and tear on the existing road.

05 - Place additional riprap - this quantity should be 4000 tons, not 9450 tons.

06 - Add additional cost of transformer replacement (see attachment)

Also, for phase 3 engineering cost, assume 3% of construction cost (10% is too high).

An additional comment would be that the phase 1 and phase 2 costs are already appropriated. I'll defer to Lynn/Mike as to whether these should be included in the estimate or not. If they want to recoup the costs for engineering spent (or appropriated to be spent) already during this FY, they have that information. Or, if they want to leave what you have as an allowance, ok by me.

Please contact me if you have any questions.

RE: KIF French Drains Cost Est...

Please note new email address: Daniel.R.Smith@worleyparsons.com
Daniel R. (Dan) Smith, P.E.
Parsons E & C
633 Chestnut St, Suite 400
Chattanooga, TN 37450
Phone: (423) 757-8088
Fax: (423) 266-0922
Cell: (423) 364-1679
Email: Daniel.R.Smith@worleyparsons.com

Haber, Stanley M

From: Tolen, Ronald [Ronald.Tolen@worleyparsons.com]
Sent: Monday, March 28, 2005 4:04 PM
To: Smith, Daniel R
Subject: RE: KIF French Drains Cost Estimate
Attachments: KIF 3-28-05.doc

Dan,

The attached memo is documenting my conversation with Steve Ladd (HUB) on the cost of the transformer changeout it required. It appears that the transformer in place will be sufficient though. Anyway the price is $498 (see Memo)

Ron

From: Smith, Daniel R
Sent: Monday, March 28, 2005 11:08 AM
To: Melton, Gary; Tolen, Ronald
Subject: FW: KIF French Drains Cost Estimate

Please review the appropriate sections of the cost estimate relative to your discipline. I need your comments by the COB today.

thanks

Dan
-----Original Message-----
From: Toney, Calvin L. [mailto:cltoney@tva.gov]
Sent: Friday, March 25, 2005 3:05 PM
To: Petty, Harold L.; Hughes, Michael; Smith, Daniel R
Subject: KIF French Drains Cost Estimate

Please review and if you have any comments or questions call me at x7666 or e-mail me.

Calvin L. Toney
LP 2P-C
Cost Estimator
Phone 751-7666
Fax 751- 4295

PARSONS E & C

TELEPHONE AND CONFERENCE MEMORANDUM

PROJECT: KIF Seepage Intercept Project | **DATE: 3-28-05**

BY: Ron Tolen | **JOB NO.: 51020101**

PAGE: 1 OF 1

Phone No.: 865-882-3242 x235 | **FILE NO:**

TELEPHONE CALL [X] | **CONFERENCE: [ ]**

WITH: Steve Ladd

ORGANIZATIONS: Harriman Utilities (HUB)

SUBJECT: 240/120Vac Transformer powering Seepage Intercept Project & Nextel Tower

---

I talked with Steve about the transformer that is currently powering the Sump Pumps. Steve did confirm that it was a 15kVA and would be sufficient to power a 200A service (we have a 100A panel installed now). This should be sufficient for our system, even if we doubled the number of pumps that we now have. In the instance we did upsize the installation beyond that, Steve said the only charge would be for a 25kVA transformer and he quoted a budgetary price of $498. There is a good possibility that they will not charge anything, but we should use the budgetary quote in case they have a charge.

Haber, Stanley M

From: Petty, Harold L.
Sent: Wednesday, March 30, 2005 9:04 AM
To: Haber, Stanley M.
Cc: Melton, Gary; Hughes, Michael; 'Smith, Daniel R'; Toney, Calvin L.
Subject: RE: Review of cost estimate for drain installation to mitigate seepage at KIF Dredge Cell

Stan:

Here are Dan's comments.

Thanks,
Lynn

-----Original Message-----
From: Smith, Daniel R [mailto:Daniel.R.Smith@worleyparsons.com]
Sent: Wednesday, March 30, 2005 7:40 AM
To: Toney, Calvin L.
Cc: Melton, Gary; Petty, Harold L.; Hughes, Michael
Subject: Review of cost estimate for drain installation to mitigate seepage at KIF Dredge Cell

Comments are directed at the detailed estimate (location) except where noted.

02 - Access Road - this is an allowance to address wear and tear on the existing road.

05 - Place additional riprap - this quantity should be 4000 tons, not 9450 tons.

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Also, for phase 3 engineering cost, assume 3% of construction cost (10% is too high).

An additional comment would be that the phase 1 and phase 2 costs are already appropriated. I'll defer to Lynn/Mike as to whether these should be included in the estimate or not. If they want to recoup the costs for engineering spent (or appropriated to be spent) already during this FY, they have that information. Or, if they want to leave what you have as an allowance, ok by me.

Please contact me if you have any questions.

<< Message: RE: KIF French Drains Cost Estimate >>

Please note new email address: Daniel.R.Smith@worleyparsons.com
Daniel R. (Dan) Smith, P.E.
Parsons E & C Phone: (423) 757-8088
633 Chestnut St, Suite 400 Fax: (423) 266-0922
Chattanooga, TN 37450 Cell: (423) 364-1679 Email: Daniel.R.Smith@worleyparsons.com

Haber, Stanley M

From: Petty, Harold L.
Sent: Wednesday, March 30, 2005 9:02 AM
To: Haber, Stanley M.
Subject: FW: KIF French Drains Cost Estimate
Attachments: Project Summary Sheet(05359).rtf; 05359.pdf

-----Original Message-----
From: Toney, Calvin L.
Sent: Friday, March 25, 2005 3:05 PM
To: Petty, Harold L.; Hughes, Michael; Smith, Daniel R.
Subject: KIF French Drains Cost Estimate

Please review and if you have any comments or questions call me at x7666 or e-mail me.

Calvin L. Toney
LP 2P-C
Cost Estimator
Phone 751-7666
Fax 751- 4295

KINGSTON FOSSIL PLANT
(KIF530) DREDGE CELL FRENCH DRAINS
(SEEPAGE REPAIR)

Estimate Number	05359	**Option:**	0	**PCN Number:**	KIF530
Plant:	KIF	**Revision:**	0	**Estimate Type:**	Conceptual
Cost Engineer:	C. L. Toney	**Unit #:**		**Estimate Accuracy:**	+/- 30%
Requesting Engr:	S. M. Haber	**Phase:**	1	**Estimate Issue Date**	3/25/2005

	Hours	Dollars
Phase I		
Engineering		$17,000
Partner (Non-Manual)		
Other / Other Organizations		$0
Total Phase I		***$17,000***
Phase II		
Engineering		$125,704
Long Lead Procurement		$0
Partner (Non-Manual)		
Other / Other Organizations		$0
Total Phase II		***$125,704***
Phase III		
Construction (Partner)		
Permanent Material		$534,506
Labor (T&L)	23,050.31	$562,262
Labor (Non-Manual)	2,880.00	$144,000
Equipment		$243,544
Subcontracts		$83,300
Partner Fee		$35,313
Partner Insurance		$21,188
Escalation		$0
Construction Risk Dollars		$0
Other		$37,183
Total Construction Cost		$1,661,296
Engineering		$24,000
Direct plant support + TVA Other Costs		$0
Project Risk Dollars		$0
Other / Other Organizations		$0
Total Phase III		***$1,685,296***
All Phases		
Construction Partner	25,930.31	$1,661,296
Long Lead Procurement		$0
Engineering		$166,704
Other / Other Organizations		$0
Total Risk Dollars		$0
Total Project Costs	**25,930.31**	**$1,828,000**
For Information only Total Environmental		**$0**
For Information only Total Demolition Costs		**$0**

03/25/2005 2:59:10 PM

KINGSTON FOSSIL PLANT
(KIF530) DREDGE CELL FRENCH DRAINS
(SEEPAGE REPAIR)

Project name	KIF/05359/FRENCH DRAINS
Engineer	DAN SMITH
Estimator	C. L. Toney
Labor rate table	KIF 40 ST 2005
Equipment rate table	TVA Equipment
Project	French Drains
Plant	KIF
Estimate #	05359
PCN #	KIF530
Requesting Engr	S. M. Haber
Option	0
Revision	0
Phase	1
Estimate Type	Conceptual
Estimate Accuracy	+/- 30%
Est. Issue Date	3/24/2005
Funding Type	Capital
Outage(Y/N)	N
Notes	Estimate Assummptions: All costs are based in 2005 dollars. Single phase power for pump installed for dredge cell seepage retrofit. 3-phase power is assumed not to be required. Existing pumps will be reused. Engineering (including TVA over sight, subcontracts, and additional geotechnical investigation) - assumes 10% of construction costs.
Report format	Sorted by 'Location/Activity' 'Detail' summary

Location	Activity	Description	Takeoff Quantity	Labor Productivity	Labor Quantity	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount
01												
	Erosion Controls/S P											
		Erect Silt Fence	4,500.00 lf	0.069	308.57 mh	7,532	2,223	-	1,399	-	2.48	11,154
		Strip 1 Foot Soil Off Of Slope (Temporary Stockpile)	911.00 cy	0.025	22.78 mh	591	-	-	712	-	1.43	1,303
		Excavate 3:1 Slope In Ash Slope To Provide Space For Pond	800.00 cy	0.120	96.00 mh	2,408	-	-	880	-	4.11	3,288
		Excavate For Temporary Sediment Pond / Permanent Pond	1,400.00 cy	0.103	144.00 mh	3,612	-	-	1,320	-	3.52	4,932
		Install Temporary Pond Dewatering Structure	1.00 ea	64.000	64.00 mh	1,880	2,000	-	304	-	4,184.34	4,184
		Place Temporary Geotextile&Staple To Side Of Pond Next To Dredge Cell	611.00 sy	0.065	39.72 mh	951	2,352	-	99	-	5.57	3,402
		D50 6" Riprap For Temporary Check Dams	84.00 tn	0.400	33.60 mh	844	1,008	-	530	-	28.36	2,382
		Replace 1 Foot Of Soil On Slope Adjacent To Pond	911.00 cy	0.160	145.76 mh	3,656	-	-	1,336	-	5.48	4,992
		Seed And Mulch Replaced Soil	1.00 ac	36.000	36.00 mh	923	1,000	-	780	-	2,703.15	2,703
		Curlex Blanket	3,000.00 sy	0.020	60.00 mh	1,436	1,320	-	150	-	0.97	2,906
		Erosion Controls/S P			**950.42 hrs**	**23,834**	**9,903**		**7,510**			**41,247**
		01			***950.42 hrs***	***23,834***	***9,903***		***7,510***			***41,247***
02												
	Access Road (Gravel)											
		1032 Crushed Stone Base 3" Depth (110 pcf)	1,760.00 tn	0.120	211.20 mh	5,804	15,708	-	2,033	-	13.38	23,545
		Access Road (Gravel)			**211.20 hrs**	**5,804**	**15,708**		**2,033**			**23,545**
		02			***211.20 hrs***	***5,804***	***15,708***		***2,033***			***23,545***
03												
	Instl Drns/Swan Pond											
		6" Dia Pipe Bollards	36.00 ea	1.500	54.00 mh	1,307	7,200	-	360	-	246.32	8,867
		Strip 1 Foot Cover (Drainage System Installation)	11,745.00 cy	0.020	234.90 mh	6,098	-	-	7,341	-	1.14	13,439
		8" Dia Non-Perf HDPE Corrugated Tubing Lateral Outlet Pipes (EL. 775)	632.00 lf	0.200	126.40 mh	2,890	1,194	-	526	-	7.29	4,610
		Crushed Stone, Bedding 6" Depth	21.00 tn	0.500	10.50 mh	254	196	-	35	-	23.13	486
		8" Dia Non-Perf HDPE Corrugated Tubing Lateral Outlet Pipes (EL. 780)	779.00 lf	0.200	155.80 mh	3,562	1,472	-	649	-	7.30	5,682
		Crushed Stone, Bedding 6" Depth	26.00 tn	0.500	13.00 mh	315	243	-	43	-	23.13	601
		8" Dia Non-Perf HDPE Corrugated Tubing Lateral Outlet Pipes (EL. 796)	928.00 lf	0.200	185.60 mh	4,243	1,754	-	773	-	7.30	6,769
		Crushed Stone, Bedding 6" Depth	31.00 tn	0.500	15.50 mh	375	290	-	52	-	23.13	717
		Cut For 8" Dia Non-Perforated HDPE (1,083 bcy)	1,300.00 cy	0.200	260.00 mh	6,295	-	-	2,167	-	6.51	8,461
		Backfill For 8" Dia Non-Perforated HDPE (758 bcy)	910.00 cy	0.250	227.50 mh	5,508	-	-	2,675	-	8.99	8,183
		Cut For 8" Dia Perforated HDPE (7,296 bcy)	8,755.00 cy	0.200	1,751.00 mh	42,392	-	-	14,592	-	6.51	56,984
		Backfill For 8" Dia Perforated HDPE (5,107 bcy)	6,129.00 cy	0.250	1,532.25 mh	37,096	-	-	18,019	-	8.99	55,115
		8" Dia Perforated HDPE Perimeter Underdrain (EL. 765)	4,275.00 lf	0.200	855.00 mh	19,545	8,080	-	3,559	-	7.30	31,184
		1081 Crushed Stone	808.00 tn	0.150	121.20 mh	2,934	7,211	-	1,010	-	13.81	11,156
		Geotextile Woven Monofilament	3,325.00 sy	0.021	68.40 mh	1,637	6,620	-	228	-	2.55	8,485
		8" Dia Perforated HDPE Perimeter Underdrain (EL. 775)	4,045.00 lf	0.200	809.00 mh	18,494	7,645	-	3,367	-	7.29	29,506
		1081 Crushed Stone	765.00 tn	0.150	114.75 mh	2,776	6,828	-	956	-	13.81	10,562
		Geotextile Woven Monofilament	3,146.00 sy	0.021	64.71 mh	1,549	6,264	-	216	-	2.55	8,028
		8" Dia Perforated HDPE Perimeter Underdrain (EL. 780)	3,800.00 lf	0.200	760.00 mh	17,374	7,182	-	3,164	-	7.30	27,719
		1081 Crushed Stone	718.00 tn	0.150	107.70 mh	2,607	6,408	-	898	-	13.81	9,913
		Geotextile Woven Monofilament	2,956.00 sy	0.021	60.80 mh	1,455	5,885	-	203	-	2.56	7,544
		8" Dia Perforated HDPE Perimeter Underdrain (EL. 796)	3,640.00 lf	0.200	728.00 mh	16,642	6,880	-	3,030	-	7.30	26,552
		1081 Crushed Stone	688.00 tn	0.150	103.20 mh	2,498	6,140	-	860	-	13.81	9,499
		Geotextile Woven Monofilament	2,831.00 sy	0.021	58.23 mh	1,394	5,637	-	194	-	2.55	7,225
		Instl Drns/Swan Pond			**8,417.45 hrs**	**199,241**	**93,130**		**64,917**			**357,288**
		03			***8,417.45 hrs***	***199,241***	***93,130***		***64,917***			***357,288***
04												
	Install Comp Geonet											
		Between 765 & 775 Bench	***1.00 lot***		-	-	-	-	-	-	***0.00***	***0***
		Strip 1 Foot Soil And Stockpile	10,000.00 cy	0.020	200.00 mh	5,192	-	-	6,250	-	1.14	11,442
		Place Composite Geonet	32,700.00 sy	0.050	1,635.00 mh	39,134	161,865	-	4,088	-	6.27	205,086
		Place 1 Foot Soil	10,000.00 cy	0.060	600.00 mh	15,050	-	-	5,500	-	2.06	20,550
		Place Thickened Soil Layer At Toe To Tie Into Ditch	1,000.00 cy	0.100	100.00 mh	2,508	-	-	917	-	3.43	3,425
		Seed And Mulch Replaced Soil	6.00 ac	36.000	216.00 mh	5,539	6,000	-	4,680	-	2,703.15	16,219
		Install Comp Geonet			**2,751.00 hrs**	**67,423**	**167,865**		**21,434**			**256,722**
		04			***2,751.00 hrs***	***67,423***	***167,865***		***21,434***			***256,722***
05												
	Instl Riprap Ditches											
		Final Grading Of Ditches (Allowance)	250.00 cy	0.096	24.00 mh	581	-	-	200	-	3.12	781
		Over Excavate Ditch For Riprap	8,040.00 cy	0.200	1,608.00 mh	38,930	-	-	20,100	-	7.34	59,030
		Install Non-Woven Needlepunched Geotextile, 8 oz	1,000.00 sy	0.016	16.00 mh	383	1,375	-	53	-	1.81	1,811
		Place D50 9" Riprap	9,500.00 tn	0.320	3,040.00 mh	76,365	114,000	-	47,979	-	25.09	238,344
		Place Additional Riprap At Toe	9,450.00 tn	0.320	3,024.00 mh	75,963	113,400	-	47,726	-	25.09	237,089
		Instl Riprap Ditches			**7,712.00 hrs**	**192,221**	**228,775**		**116,058**			**537,055**
		05			***7,712.00 hrs***	***192,221***	***228,775***		***116,058***			***537,055***
06												
	Const Permanent Pond											
		Submersible Pumping Station Equipment Package	***1.00 lot***		-	-	-	-	-	-	***0.00***	***0***
		Relocate Submersible Pumps	2.00 ea	40.000	80.00 mh	2,619	-	-	556	-	1,587.79	3,176
		Install New Submersible Pump	1.00 ea	30.000	30.00 mh	982	1,539	-	209	-	2,729.84	2,730

Location	Activity	Description	Takeoff Quantity	Labor Productivity	Labor Quantity	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount
	Const Permanent Pond											
		Remove Existing Temporary Dewatering Structure	1.00 ls	48.000	48.00 mh	1,216	-	-	440	-	1,655.80	1,656
		60" Diameter Precast Concrete Manhole (15 Ft Depth)	1.00 ea	60.000	60.00 mh	1,523	3,000	-	458	-	4,980.96	4,981
		Cut For 8" Dia Forced Main HDPE (1,111 bcy)	1,333.00 cy	0.200	266.60 mh	6,454	-	-	2,222	-	6.51	8,676
		8" Dia Forced Main HDPE Perimeter Underdrain (EL. 763)	2,400.00 lf	0.200	480.00 mh	10,973	4,536	-	1,998	-	7.30	17,507
		1081 Crushed Stone	264.00 tn	0.150	39.60 mh	959	2,356	-	330	-	13.81	3,645
		Backfill For 8" Dia Forced Main HDPE (778 bcy)	934.00 cy	0.250	233.50 mh	5,653	-	-	2,746	-	8.99	8,399
		Allowance For Electrical Scope Of Pumps Relocation	1.00 lot		-	-	-	12,600	-	-	12,600.00	12,600
		Geotextile (Line Pond To Minimize Erosion)	889.00 sy	0.018	16.00 mh	383	1,173	-	40	-	1.80	1,597
		3" Stone (Line Pond To Minimize Erosion)	440.00 tn	0.096	42.24 mh	1,121	3,927	-	660	-	12.97	5,708
		Chain Link Fence (5' Fence With 3 Strands Of Barbed Wire Along Top)	4,500.00 lf		-	-	-	67,500	-	-	15.00	67,500
		Personal Gates	2.00 ea		-	-	-	700	-	-	350.00	700
		Swing Gates	2.00 ea		-	-	-	2,500	-	-	1,250.00	2,500
		Const Permanent Pond			**1,295.94 hrs**	**31,884**	**16,532**	**83,300**	**9,658**			**141,374**
		06			***1,295.94 hrs***	***31,884***	***16,532***	***83,300***	***9,658***			***141,374***
07												
	Erosion Cntrls/B Pit											
		Erect Silt Fence	1,200.00 lf	0.069	82.28 mh	2,009	593	-	373	-	2.48	2,974
		Final Seeding	2.00 ac	36.000	72.00 mh	1,846	2,000	-	1,560	-	2,703.15	5,406
		Erosion Cntrls/B Pit			**154.28 hrs**	**3,855**	**2,593**		**1,933**			**8,381**
		07			***154.28 hrs***	***3,855***	***2,593***		***1,933***			***8,381***
xCONST FACILITY												
	Construct Facilities											
		Mobilize, Drug Test, Misc Other, & Demobilize	1.00 ls	1,558.016	1,558.02 mh	38,000	-	-	20,000	0	58,000.00	58,000
		Construct Facilities			**1,558.02 hrs**	**38,000**			**20,000**			**58,000**
		xCONST FACILITY			***1,558.02 hrs***	***38,000***			***20,000***			***58,000***
zNON MANUAL												
	Non-Manual											
		Non Manual	1.00 ls	2,880.000	2,880.00 mh	144,000	-	-	-	-	144,000.00	144,000
		Non-Manual			**2,880.00 hrs**	**144,000**						**144,000**
		zNON MANUAL			***2,880.00 hrs***	***144,000***						***144,000***

Estimate Totals

Labor	706,262		25,930.308	hrs			
Material	534,506						
Subcontract	83,300						
Equipment	243,544		8,573.470	hrs			
	1,567,612	1,567,612					
Small Tools Expense	10,373		0.450	$/hr		H	
Consumables & Expendables	22,490		4.000	%		C	
Office Supplies & Expense	4,320		3.000	%		C	
	37,183	1,604,795					
Partner Insurance (FY05)	21,188		3.000	%		C	
Partner Award Fee (FY05)	35,313		5.000	%		C	
	56,501	1,661,296					
Fossil Engineering - Phase 1	17,000		0.911	% @	72.00	A	236
	17,000	1,678,296					
Fossil Engineering - Phase 2	125,704		6.733	% @	72.00	A	1,746
	125,704	1,804,000					
Fossil Engineering - Phase 3	24,000		1.286	% @	72.00	A	333
	24,000	1,828,000					
Rounding						L	
		1,828,000					
	Total	***1,828,000***					

Haber, Stanley M

From: Haber, Stanley M.
Sent: Saturday, March 12, 2005 9:55 AM
To: Purkey, Ronald E.; Petty, Harold L.
Cc: Waldrep, Roger T.; Smith, H. Michael
Subject: KIF530 (French Drains): Review of PCR
Attachments: KIF530 PCR 002 R0.doc

Ron and Lynn,

I have attached a draft PCR for moving the target date associated with Preliminary Engineering Complete. I plan on discussing this in Waterfall on Monday. Please look over this PCR and let me know Monday morning if you have any comments.

Thanks.

Stan

CHANGE REQUEST

CR # **KIF530 002 R0**

PART 1: General Information

PART 1A: PROJECT & INITIATOR INFORMATION

Project Title: KIF530: Develop Dry Fly Ash/Bottom Ash Capacity Location /Units: Yard
DCN # NA PA # PCN # KIF530 WO # Other Ref

Check One: ☒ Capital ☐ Job Order ☐ O&M ☐ Other:

Comments:

Initiator Name: Stan Haber Position: PROJECT ENG Date: 03/12/05

PART 1B: REQUESTED CHANGE

Move the target date associated with the activity "Preliminary Engineering Complete (French Drain)" as indicated below.

PART 1C: CAUSE FOR CHANGE

☐ Constructability Issue (Interference)
☐ Design Deficiency or Error
☐ Rework
☐ Insufficient Craft Labor
☐ Improve Operability / Maintainability
☐ Inadequate Scope Definition
☐ Inadequate Resource Planning/Dedication
☒ Other

Other Cause or Explanation : French drain study requires data collection that will not be collected or analyzed in a manner that supports the present target date.

PART 1D: JUSTIFICATION

Engineering of French Drains will not be complete until April 29, 2005.

PART 1E: CLASSIFICATION

Change Is: ☐ Elective ☒ Required Has Work Associated With This Change Begun? ☐ No ☒ Yes (Explain Below)
Is Limited Approval Needed Prior To Full Approval: No ☒ Yes -Amount Needed: Date Needed:
Comment / Explanation: Project is in the study phase.

PART 2: Initiating Organization Approval

Line Manager: Roger Waldrep Date:	Department Manager : Dennis Lundy Date:

PART 3: Impacts

PART 3A: SCHEDULE IMPACT

Targeted Milestones Affected By This Change:	Current Date	Requested Date
Activity LDKAK530PC (Preliminary Engineering Complete)	31 MAR 05	29 APR 05

PART 3 B: COST IMPACT

Change In Manhours: 0 Change In $: $0 ☐ Detail Est and/or Org Breakdown Info Attached
Comments:

PART 3C: OTHER IMPACTS

☐ Claimed Benefit
☐ Constructability
☐ Craft Labor
☐ EDR, EA, or EIS
☐ Engineering
☐ Equipment Life
☐ Field Support
☐ Material Contract
☐ O&M Cost
☐ O&M Manpower
☐ ORI Milestone
☐ Performance
☐ Permits
☐ Project Churn
☐ Safety
☐ Subcontractor
☐ Other

Comments / Explanation:

PART 4: Final Approval

FPEP Approval Required : ☒ No Yes ☐ Date Obtained
☐ Approve ☐ Approved (No Additional Funding) ☐ Limited Approval (See Comments) ☐ Reject

Authorizing Signature: Title: Date:
Comments:

CHANGE REQUEST

CR # **KIF530 002 R0**

PART 5: Review (Optional)

PART 5A: RECOMMENDED ACTION

Name	Job Title	Approve	Reject[1]	Limited Approval[1]	Date
1- Stan Haber	Project Engineer	☒	☐	☐	
2-	Principal Engineer	☐	☐	☐	
3- Roger Waldrep	Manager, Project Engineering	☐	☐	☐	
4- Dennis Lundy	Manager, FE&TS EDS	☐	☐	☐	
5-		☐	☐	☐	
6-		☐	☐	☐	
7-		☐	☐	☐	
8-		☐	☐	☐	

☐ Information Attached

1 – Provide Comments If Rejected or Limited Approval

PART 5B: COMMENTS

Reviewer 1	
Reviewer 2	
Reviewer 3	
Reviewer 4	
Reviewer 5	
Reviewer 6	
Reviewer 7	
Reviewer 8	

PART 6: Cost Breakdown (Optional)

PART 6A: CONSTRUCTION PARTNER

PA # Work Order # PCS: PM/PE:

Cost Type	MHs	Dollars	Cost Type	MHs	Dollars	Cost Type	MHs	Dollars
Craft Labor			Heavy Equipment			Consumables		
Staff			Tagged Tools			Office Supplies		
Travel/Living Expenses			Small Tools			TVA Subs		
Partner Subcontracts			Materials			OCIP		
Fee			Other-See Estimate					

PART 6B: ENGINEERING

TVA Engineering	MHs	Dollars	Engineering Partner	MHs	Dollars	Other	Dollars
Mechanical			Mechanical			Long Lead Material	
Electrical			Electrical			Other:	
Civil			Civil			Other:	
Other:			Other:			Other:	
Other:			Other:			Other:	

Haber, Stanley M

From: Petty, Harold L.
Sent: Monday, February 14, 2005 11:26 AM
To: Bowers, Larry C; Haber, Stanley M.; Purkey, Ronald E.
Subject: FW: KIF peninsula area #2 PDF files

Attachments: KIF_gypsomPile_homesView.pdf

Here is one

-----Original Message-----
From: Holmquist, Kenneth W.
Sent: Friday, February 11, 2005 12:24 PM
To: Petty, Harold L.
Cc: McCollough, Major C.
Subject: RE: KIF peninsula area #2 PDF files

Lynn,

Here is the image. This image is a theoretical view looking from the houses across the river toward the pile. The pile that is depicted here is based on the proposed pile as shown in "SK PR0637 C09.dwg". The maximum elevation is about 950'.

Please let me know if this does not meet the need. What short code should I charge this work to?

KIF_gypsomPile_ho
mesView.pdf (...

Thanks,
Ken

-----Original Message-----
From: Petty, Harold L.
Sent: Monday, February 07, 2005 9:50 AM
To: Holmquist, Kenneth W.
Cc: Robinson, Dave W; Purkey, Ronald E.; McCollough, Major C.
Subject: RE: KIF peninsula area #2 PDF files

My Bad.... I forgot to attach the pdf file.

Thanks,
Lynn << File: kingston view desired.pdf >>

-----Original Message-----
From: Petty, Harold L.
Sent: Monday, February 07, 2005 8:56 AM
To: Holmquist, Kenneth W.
Cc: Robinson, Dave W; Purkey, Ronald E.; McCollough, Major C.
Subject: RE: KIF peninsula area #2 PDF files

This is a neat view and now that I have seen it I want it in addition to what we are really looking for!

What we really need is something like this but viewed from the houses across the lake.

Please see the attached pdf file. The red arrow shows the view desired.

I understand that a photo from across the lake was taken and this has been done before somewhere.

Thanks,
Lynn

-----Original Message-----
From: Holmquist, Kenneth W.
Sent: Friday, February 04, 2005 5:20 PM
To: Petty, Harold L.
Cc: Robinson, Dave W; Purkey, Ronald E.; McCollough, Major C.
Subject: RE: KIF peninsula area #2 PDF files

Lynn,

I created the attached image using ArcGIS software and the proposed CAD drawing of the pile. Please let me know if this image is what you need of if you need something else.
<< File: KIF_3dView.gif >>
Thanks,
Ken

-----Original Message-----
From: Petty, Harold L.
Sent: Friday, February 04, 2005 3:00 PM
To: Holmquist, Kenneth W.
Cc: Robinson, Dave W; Purkey, Ronald E.
Subject: RE: KIF peninsula area #2 PDF files

Ken:

I have been asked to run a photo and I believe one of your guys can help me find it. Dave gave me your name as a possible source.

I understand that a photo of the peninsula at Kingston was taken and the Gypsum Stack was drawn in as a projection of what it would look like upon completion. This is a view from the lake or from across the lake and not an aerial photo with contour lines.

Your help in running this down would be appreciated.

Thanks,
Lynn

-----Original Message-----
From: Robinson, Dave W
Sent: Friday, February 04, 2005 12:26 PM
To: Petty, Harold L.
Subject: FW: KIF peninsula area #2 PDF files

This the best that I have. This is the area that was looked at for cultural resources and wetlands. Ken may have what you are looking for.

-----Original Message-----
From: Holmquist, Kenneth W.
Sent: Friday, August 09, 2002 3:14 PM
To: Carter, Roy V.; Robinson, Dave W; Smith, Amos L
Cc: Mccollough, Major C.
Subject: KIF peninsula area #2 PDF files

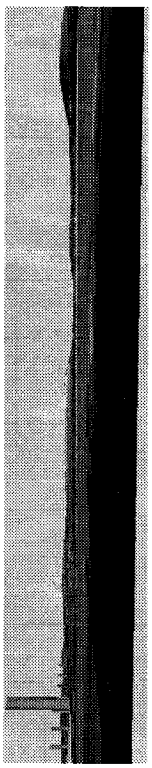
All,

Attached are PDF files of the second area of interest on the Kingston peninsula that I mistakenly left out of the group of files I sent out Tuesday of this week.

<< File: BRF_KIF_penninsula-2_DRG.pdf >> << File: BRF_KIF_penninsula-2_image.pdf >>
Thank you,

Ken Holmquist -- TVA Geographic Information and Engineering
Email: kwholmquist@tva.gov

Telephone: 423-751-2720 FAX: 423-751-2463
TVA Mail Stop: MR 2T-C
1101 Market St., Chattanooga, TN 37402-2801



Haber, Stanley M

From: Purkey, Ronald E.
Sent: Friday, February 11, 2005 2:24 PM
To: Petty, Harold L.; Haber, Stanley M.; Smith, Daniel R.
Subject: FW: KIF budget

fyi

-----Original Message-----
From: Purkey, Ronald E.
Sent: Friday, February 11, 2005 10:26 AM
To: Baugh, James S.
Subject: RE: KIF budget

Steve,
For capital money I propose the following for Option 1-1

2005 - 2850k	2100 for french drain	550 for engineering	100 for soil exploration	100 misc	
2006 - 300k	300 for engineering/hydrogeo/permitting etc				
2007 - 200k	200 for engineering and permitting				
2008 - 4500k	4500 for gypsum stack const and piping/misc				

As phase 2 progresses on the Pennensula, we will be able to see clearer what the ecomomics are.
Ron

> -----Original Message-----
> **From:** Baugh, James S.
> **Sent:** Friday, February 11, 2005 8:47 AM
> **To:** Purkey, Ronald E.
> **Subject:** KIF budget
>
> Per our conversation this morning, the KIF budget is as follows:
>
> 2005 - 1625k
> 2006 - 1505k
> 2007 - 5045k
> 2008 - 8000k
>
> Steve Baugh
> Fuel By-Products and Properties
> LP 5G-C
> (423) 751-6137

Haber, Stanley M

From: Short, James L. Jr.

Sent: Friday, January 21, 2005 1:56 PM

To: Haber, Stanley M.

Subject: Revised Order of Magnitude Estimate and Summary Sheet for KIF530, Develop Dry Fly Ash, Gypsum, and Bottom Ash Disposal

Attachments: 04542R1.pdf; 04542R1.doc

Stan,
Attached are the revised estimate and summary sheet for the above named project.
Please call if you have comments and/or questions.

James L. Short
Cost Estimator
LP 2P - C
(423) 751-2747
Fax (423) 751-4295
jlshort@TVA.gov

Kingston Fossil Plant
Develop Fly Ash, Gypsum, and Bottom Ash Storage
Revision 1

Project name	Kingston
Engineer	Stan Haber
Estimator	James Short
Project	Ash & Gypsum Storage
Plant	KIF
Estimate #	04542R1
PCN #	KIF530
Requesting Engr	Stan Haber
Option	0
Revision	0
Phase	1
Estimate Type	Order Of Magnitude
Estimate Accuracy	+/- 50%
Est. Issue Date	1/21/2005
Funding Type	Capital
Outage(Y/N)	N
Notes	Cost based on information supplied by the project engineer. Estimate accuracy level as determined by the project engineer. Do not use the craft manhours shown in this estimate for any purpose. They are DUMMY NUMBERS required for the calculation of engineering costs.
Report format	Sorted by 'Location/Activity' 'Detail' summary

Location	Activity	Description	Takeoff Quantity	Labor Man Hrs	Labor Quantity	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount
PHASE 2												
	Long Lead Materials											
		Materials - 1	1.00 ls		-	-	400,000	-	-	-	400,000.00	400,000
		Materials - 2	1.00 ls		-	-	6,500,000	-	-	-	6,500,000.00	6,500,000
		Long Lead Materials					**6,900,000**					**6,900,000**
	Partner											
		GUBMK / HED (Estimate)	1.00 ls		-	-	-	-	-	15,000	15,000.00	15,000
		Partner								**15,000**		**15,000**
		PHASE 2					***6,900,000***			***15,000***		***6,915,000***
PHASE 3												
	Implementation											
		GUBMK Installation	1.00 ls			***40,000***	-	-	-	-	40,000.00	40,000
		Turnkey Installation	1.00 ls		-	-	-	######	-	-	7,605,000.00	7,605,000
		DUMMY ITEM	1.00 ls	1,000.000	1,000.00	***0***	-	-	-	-	0.01	0
		Implementation			**1,000.00**	**40,000**		**7,605,000**				**7,645,000**
		PHASE 3			***1,000.00***	***40,000***		######				***7,645,000***

Estimate Totals

Labor	40,000	40,000		1,000.000	hrs		
Material	6,900,000	6,900,000					
Subcontract	7,605,000	7,605,000					
Other	15,000	15,000					
	14,560,000	14,560,000	14,560,000				
Engineered Materials - Ph 2	6,900,000			100.000 %		C	
Adjustment - Engr Materials	(6,900,000)			(100.000) %		C	
			14,560,000				
FPG Proj Engr - Phase 1	6,300			14.887 % @		42.32 A	149
FPG Civil Engr - Phase 1	40,950			97.500 % @		42.00 A	975
Non-TVA Engr - Phase 1	394,992			269.619 % @		146.50 A	2,696
FPG Proj Cntrls - Sch - Ph 1	5,040			12.000 % @		42.00 A	120
FPG Proj Cntrls - Cost - Ph 1	5,040			12.000 % @		42.00 A	120
FPG Cost Estimating - Phase 1	5,250			12.500 % @		42.00 A	125
Phase 1 Project Discovery	39,984					L	
Phase 1 Plant Support	5,000					L	
	502,556		15,062,556				
FPG Proj Engr - Phase 2	69,960			20.000 % @		349.80 A	200
FPG Mech Engr - Phase 2	8,400			20.000 % @		42.00 A	200
FPG Elec Engr - Phase 2	8,400			20.000 % @		42.00 A	200
FPG Civil Engr - Phase 2	12,600			30.000 % @		42.00 A	300
Non-TVA Engr - Phase 2	370,560			600.000 % @		61.76 A	6,000
FPG Proj Controls - Phase 2	3,360			8.000 % @		42.00 A	80
FPG Cost Estimating - Phase 2	1,008			2.400 % @		42.00 A	24
FPG Engr Records - Phase 2	672			1.600 % @		42.00 A	16
Phase 2 Plant Support	3,000					L	
	477,960		15,540,516				
FPG Proj Engr - Phase 3	97,310			22.000 % @		442.32 A	220
FPG Mech Engr - Phase 3	8,400			20.000 % @		42.00 A	200
FPG Elec Engr - Phase 3	8,400			20.000 % @		42.00 A	200
FPG Civil Engr - Phase 3	12,600			30.000 % @		42.00 A	300
Non-TVA Engr - Phase 3	425,558			575.000 % @		74.01 A	5,750
FPG Proj Controls - Phase 3	1,680			4.000 % @		42.00 A	40
FPG Engr Records - Phase 3	1,008			2.400 % @		42.00 A	24
Phase 3 Plant Support	80,000					L	
	634,956		16,175,472				
Phase 1 Sunk Cost	200,000					L	
	200,000		16,375,472				
Rounding	(472)					L	
	(472)		16,375,000				
	Total		***16,375,000***				

Kingston Fossil Plant
Develop Fly Ash, Gypsum, and Bottom Ash Storage
Revision 1

Estimate	04542R1	**Option:** 0	**PCN Number:**	KIF530	
Plant:	KIF	**Revision:** 0	**Estimate Type:**	Order Of Magnitude	
Cost Engineer:	James Short	**Unit #:**	**Estimate Accuracy:**	+/- 50%	
Requesting	Stan Haber	**Phase:** 1	**Estimate Issue**	1/21/2005	

Phase I	**Hours**	**Dollars**
Engineering		$457,572
Partner (Non-Manual)		
Other / Other Organizations		$244,984
Total Phase I		***$702,556***
Phase II		
Engineering		$474,960
Long Lead Procurement		$6,900,000
Partner (Non-Manual)		$15,000
Other / Other Organizations		$3,000
Total Phase II		***$7,392,960***
Phase III		
Construction (Partner)		
Permanent Material		$0
Labor (T&L)	1,000.00	$40,000
Labor (Non-Manual)		
Equipment		$0
Subcontracts		$7,605,000
Partner Fee		$0
Partner Insurance		$0
Escalation		$0
Construction Risk Dollars		$0
Other		$0
Total Construction Cost		$7,645,000
Engineering		$554,956
Direct plant support + TVA Other Costs		$0
Project Risk Dollars		($472)
Other / Other Organizations		$80,000
Total Phase III		***$8,279,484***
All Phases		
Construction Partner	1,000.00	$7,660,000
Long Lead Procurement		$6,900,000
Engineering		$1,487,488
Other / Other Organizations		$327,984
Total Risk Dollars		($472)
Total Project Costs	**1,000.00**	**$16,375,000**
For Information only Total Environmental		**$0**
For Information only Total Demolition Costs		**$0**

01/21/2005 1:46:49 PM

Haber, Stanley M

From: Franklin, Thomas
Sent: Friday, January 21, 2005 1:41 PM
To: Haber, Stanley M.
Subject: KIF530.xls

Attachments: KIF530.xls

KIF530.xls (55 KB)

Your files are attached and ready to send with this message.

KINGSTON FOSSIL PLANT

KIF–DEVELOP FLY ASH, GYPSUM, & BOTTOM ASH DISPOSAL CAPACITY

PCN: KIF530

CURRENT PHASE: 1 EST. TYPE:
OUTAGE: N/A EST. ACCURACY:

Responsible Unit	**18758**
Location/Unit	**4500**
Functional Account	**EC0681**

	WORK PACKAGE	ACTIVE SHORT CODES		FORECAST Pr Yrs	FY05	FY06	FY07	FY08	TOTAL	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
PHASE I			**PHASE I (STUDY)**																			
	KIF530A-01	001D9VR	**FES**	200	239			0	439						108	89	12	10	10	10		**239**
	KIF530A-02		**PLANT SUPPORT**	0	5			0	5					1	1	1	1	1				**5**
	KIF530A-03		**PARSONS**	0	218			0	218				60	60	60	38						**218**
	KIF530A-04		**PROJECT DISCOVERY**	0	40			0	40							10	10	10	10			**40**
			TOTAL STUDY PHASE	**200**	**502**	**0**	**0**	**0**	**702**													
PHASE II			**PHASE II (DESIGN)**																			
	KIF530B-01		**FES**		50	95	330	0	475			10	10	10	10	10						**50**
	KIF530B-02		**PARSONS**		0			0	0													**0**
	KIF530B-03		**PARTNER ESTIMATE**	0	15			0	15							15						**15**
	KIF530B-04		**PLANT SUPPORT**	0	3			0	3				3									**3**
	KIF530B-05		**LONG LEAD MTLS**	0	200	200	2,500	4,000	6,900									50			150	**200**
			CONTINGENCY	0	0			0	0													
			TOTAL PHASE II	**0**	**268**	**295**	**2,830**	**4,000**	**7,393**													
PHASE III			**PHASE III**																			
	KIF530C-01		**FES**		50	55	215	235	555								10	10	10	10	10	**50**
	KIF530C-02		**INSTALLATION (TURNKEY)**		785	1,135	1,960	3,725	7,605								55	180	180	180	190	**785**
	KIF530C-03		**PLANT SUPPORT**		20	20	20	20	80								4	4	4	4	4	**20**
	KIF530C-04		**CUBMK**	0	0		20	20	40													**0**
	KIF530C-05			0	0			0	0													**0**
			CONTINGENCY	0	0			0	0													
			TOTAL PHASE III	**0**	**855**	**1,210**	**2,215**	**4,000**	**8,280**													
TOTAL PROJECT				**200**	**1,625**	**1,505**	**5,045**	**8,000**	**16,375**	**0**	**0**	**10**	**73**	**71**	**179**	**163**	**92**	**265**	**214**	**204**	**354**	**1,625**

Project Engineer: Michael E. Mason (751-6927)
Project Control Engineer: Gene Painter (751-4475)

KIF530.xls
mem, 03/14/2009

Haber, Stanley M

From: Haber, Stanley M.

Sent: Friday, September 17, 2004 9:12 AM

To: Auguste, Myriam B.

Cc: Halicks, David R.; Long, S. Scott; Davis, Michael D; Hedgecoth, Melissa A.; Baugh, James S.; Purkey, Ronald E.; Petty, Harold L.; Rehberg, Robert L.; Holmes, James B.; Catlett, James H; Tolliver, Sherry D.

Subject: KIF530 (Develop Ash capacity): Request for PA

Attachments: KIF530 Input for Cost Estimate Summary 2004 09 09 R0.xls; KIF530 CPJSForm 2004 09 16 r1.pdf; Project Summary Sheet(04513) 2004 08 16.rtf; Estimate(04513) 2004 08 16.pdf

Myriam,

Please prepare a revised PA for KIF530. I have attached the PJ (revision 1), my cost input sheet, the cost estimate, and the cost rollup for your use.

Stan

1	**KIF530: Develop Fly Ash, Gypsum, and Bottom Ash Storage**									
2	**Phase/Activity**	**FY04**	**FY05**	**FY06**	**FY07**	**FY08**		**Totals**	**Prv Yrs**	
3										
4										
5	**Phase 1**									
6	Engineering	200	195					395		
7	PE/PC/PS		12					12		
8	Plant Support		5					5		
9	PSS - Inspection							0		
10										
11	**Total Phase 1**	**200**	**212**	**0**	**0**	**0**		**412**		
12										
13	**Phase 2**									
14										
15	Engineering (Systems and EDS)	0	30	70	300	0		400		
16										
17	PE/PC/PS	0	20	25	30	0		75		
18										
19	GUBMK/HED (estimate)	0	15	0	0	0		15		
20	Plant Support	0	3	0	0	0		3		
21										
22	Long Lead Material (LLM)									
23	*blank*	0	200	200		0		400		
24	*blank*	0	0		2500	4000		6500		
25	*total LLM*	0	200	200	2500	4000		6900		
26										
27	**Total Phase 2**	**0**	**268**	**295**	**2830**	**4000**		**7393**		
28										

1	**KIF530: Develop Fly Ash, Gypsum, and Bottom Ash Storage**									
2	**Phase/Activity**	**FY04**	**FY05**	**FY06**	**FY07**	**FY08**		**Totals**	**Prv Yrs**	
29	**Phase 3**									
30										
31	Engineering	0	25	30	200	200		455		
32										
33	PE/PC/PS	0	25	25	15	35		100		
34										
35	Plant Support	0	20	20	20	20		80		
36										
37	Installation (x)									
38	*GUBMK*	0	0	0	20	20		40		
39	*blank*	0	0	0	0	0		0		
40	*Total GUBMK*	0	0	0	20	20		40		
41										
42	*Turnkey Installation*	0	1075	1,135	1960	3725		7895		
43	*blank*	0	0	0	0	0		0		
44	*Total*	0	1075	1135	1960	3725		7895		
45										
46	*Asbestos abatement (GUBMK)*	0	0	0	0	0		0		
47										
48	*Total Installation*	0	1075	1135	1980	3745		7935		
49										
50	**Total Phase 3**	**0**	**1145**	**1210**	**2215**	**4000**		**8570**		
51										
52	**Total: All Phases**	**200**	**1625**	**1505**	**5045**	**8000**		**16375**		
	Current funding	200	75	100	8000	8000		16375		
	Differential	**0**	**1550**	**1405**	**-2955**	**0**		**0**		
	Assumptions:									
	1. Original project PJ was for a DFA system; Design and installation of system was to be by turnkey contractor; scope similar to CUF dry fly ash system.									
	2. Design of BOP interfaces will be by FE&TS									
	3. FE&TS Lead will be Civil Department									
	4. An outage will be required for some BOP interface tie-ins									
	5. Ph 1 eng includes Peer review ($50k), study of deep french drains ($70k), answering permit questions ($75k)									

Capital Project Justification Form

Project Name	Project ID	Rev#
KIF--DEVELOP FLY ASH, GYPSUM & BOTTOM ASH DISPOSAL CAPACITY	KIF530	1

CSF: Achieve excellence in the Asset optimization and production processes.

I. Project Description

Organization

Owner: FPG
Lead: Yard Operations

Location

Loc: KIF

Technical Contact

Name: HEDGECOTH,MELISSA A
Phone: 423/751-6426

Responsible Mgr

Name: DAVIS,MICHAEL D
Phone: 423/751-7864

Project

Type: Capital
Cat: ASSET PRESERVATION
Prgm: No Program

	Estimated	Actual
Start Date:	07/30/2003	
In-Srvc Date:	09/30/2008	
Outage Date:		

Problem Description

Analysis of recent dike failure in the existing dredge cells has raised uncertainties regarding the current long-term disposal plans for fly ash and bottom ash. An emergency cell was developed (O&M) which will provide a maximum of three years of fly ash and bottom ash capacity. In addition, planned scrubbers for Kingston will produce an additional high-volume by-product which may be co-disposed with fly ash and bottom ash beginning in FY 2009.

Project Scope

Expansion of dredge cell adjacent to existing dredge cell by construction of a new dike. Scope will also include development of a waste stack for flyash, bottom ash and gypsum within the existing perimeter dikes of the active ash disposal area.

Perform detailed analysis to determine the overall structural, environmental, and operational viability of continuing to raise and dredge to the existing dredge cells, considering the recent failure along Swan Pond road and the saturation of the lower dikes along the backwaters of the Emory river.

Perform engineering analysis and collect field data as required to develop a detailed design for maximizing the disposal capacity of fly ash, bottom ash and gypsum on the existing ash pond complex at the Kingston Fossil Plant while maintaining the required Free Water Volume. The detailed design should consider economic, structural, environmental and operational issues and impacts associated with long term ash disposal. The engineering suitability of ash currently produced at Kingston for storage in an engineered stack should be verified through testing (if this has not already been satisfactorily completed). A part II permit package is to be submitted to Environmental Affairs.

Scope will also include the design, materials procurement, and installation as necessary to support the engineering study findings.

Performance Measurement

Permitted disposal capacity for fly ash and bottom ash by FY 2007. Permitted disposal capacity for gypsum by FY 2009.

Other Options/Alternatives

Reduce or discontinue plant operations such that no ash is produced, or locate an existing off-site permitted disposal area and pay a tipping fee to haul all of Kingston's ash there.

Reason For Change

R1: Change in project cost (R0 was based on a dry fly ash system, no construction until FY07). New project cash flow represents development of ash and gypsum disposal capacities with design and construction starting in FY05.

Capital Project Justification Form

Project Name	Project ID	Rev#
KIF--DEVELOP FLY ASH, GYPSUM & BOTTOM ASH DISPOSAL CAPACITY	KIF530	1

CSF: Achieve excellence in the Asset optimization and production processes.

News Release

N/A

Capital Project Justification Form

Project Name	Project ID	Rev#
KIF--DEVELOP FLY ASH, GYPSUM & BOTTOM ASH DISPOSAL CAPACITY	KIF530	1

CSF: Achieve excellence in the Asset optimization and production processes.

II. Project Economic Evaluation

COST		ECONOMIC INDICATORS	
SUNK CAPITAL PROJECTS:	$0	**NPV:**	$8,579.0
SUNK O&M PROJECTS:	$0	**PI:**	1.825
REMAINING COST:	$15,942	**IRR:**	42.0
TOTAL COST:	$15,942	**SIMPLE PAYBACK:**	6
ESTIMATE TYPE:	Conceptual	**BASE YEAR:**	2004

Year	Capital Cost	O&M Cost	Total Benefit	O&M Base Increase	Environmental Cost
SUNK	0	0	0	0	
OUT YEARS	0	0	0	0	
2004	200	0	0	0	0
2005	1,625	0	0	0	0
2006	1,505	0	0	0	0
2007	5,045	0	5,000	0	0
2008	7,567	0	5,000	0	0
2009	0	0	5,000	0	0
2010	0	0	5,000	0	0
2011	0	0	5,000	0	0
2012	0	0	5,000	0	0
2013	0	0	5,000	0	0
2014	0	0	5,000	0	0
2015	0	0	5,000	0	0
2016	0	0	5,000	0	0
2017	0	0	0	0	0
2018	0	0	0	0	0
2019	0	0	0	0	0
2020	0	0	0	0	0
2021	0	0	0	0	0
2022	0	0	0	0	0
2023	0	0	0	0	0

Capital Project Justification Form

Project Name	Project ID	Rev#
KIF--DEVELOP FLY ASH, GYPSUM & BOTTOM ASH DISPOSAL CAPACITY	KIF530	1

CSF: Achieve excellence in the Asset optimization and production processes.

II. Project Economic Evaluation

	Cost Assumptions	Risks
1.	$7,805K engineering and procurement cost.	No similar projects.
2.	$8,132K Implementation cost.	Conceptual estimate (no similar projects)
3.	No significant marketing or utilization of ash or gypsum will take place. Waste production (cubic yards per year): Fly Ash = 410,000 Bottom Ash = 90,000 Gypsum = 750,000	Based on historical data (ash) and similar projects (gypsum).
4.	The existing dredge cells and ponds shall be utilized to the extent possible to obtain an additional ten years of disposal capacity.	Support of plant business plan.

	Benefit Assumptions	Risks
1.	Haul fly ash and bottom ash offsite to an existing permitted disposal site @ $10/ton for 500,000 tons per year = $5,000k per year for ten years.	Assumes a disposal site can be found within 30 miles of the plant which could handle 500,000 tons per year.

Capital Project Justification Form

Project Name | **Project ID** | **Rev#**

KIF--DEVELOP FLY ASH, GYPSUM & BOTTOM ASH DISPOSAL CAPACITY | KIF530 | 1

CSF: Achieve excellence in the Asset optimization and production processes.

II. Project Economic Evaluation

Project EconEval

Benefit Input Section **Unit:** 70 **Base Calc Year:** 2004

Fiscal Year	Heat Rate Imprvmn	Forced Outage Hours	Forced Derating MW	Forced Derating HRS	MWHL	O&M Base Increase ($000's)	O&M Base Savings ($000's)	Other Benefits Savings ($000's)	Outage Duration Reduction (HRS)	Project Cost ($000's)
2004	0	0	0	0	0	0	0	0	0	200
2005	0	0	0	0	0	0	0	0	0	2,058
2006	0	0	0	0	0	0	0	0	0	1,505
2007	0	0	0	0	0	0	0	5,000	0	5,045
2008	0	0	0	0	0	0	0	5,000	0	7,567
2009	0	0	0	0	0	0	0	5,000	0	0
2010	0	0	0	0	0	0	0	5,000	0	0
2011	0	0	0	0	0	0	0	5,000	0	0
2012	0	0	0	0	0	0	0	5,000	0	0
2013	0	0	0	0	0	0	0	5,000	0	0
2014	0	0	0	0	0	0	0	5,000	0	0
2015	0	0	0	0	0	0	0	5,000	0	0
2016	0	0	0	0	0	0	0	5,000	0	0
2017	0	0	0	0	0	0	0	0	0	0
2018	0	0	0	0	0	0	0	0	0	0
2019	0	0	0	0	0	0	0	0	0	0
2020	0	0	0	0	0	0	0	0	0	0
2021	0	0	0	0	0	0	0	0	0	0
2022	0	0	0	0	0	0	0	0	0	0

Capital Project Justification Form

Project Name
KIF--DEVELOP FLY ASH, GYPSUM & BOTTOM ASH DISPOSAL CAPACITY

Project ID
KIF530

Rev#
1

CSF: Achieve excellence in the Asset optimization and production processes.

II. Project Economic Evaluation

Project EconEval(continued)

Benefit Value Section **Unit:** 70 **Base Calc Year:** 2004

Fiscal Year	Heat Rate Benefit	MWH Improve In (000's)	Unit EFOR Impact	System EFOR Impact	O&M Base Savings ($000's)	Other Benefits Savings	Outage Redctns Savings In ($000's)	Benefit Value In ($000's)
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0	0
2006	0	0	0	0	0	0	0	0
2007	0	0	0	0	0	5,000	0	5,000
2008	0	0	0	0	0	5,000	0	5,000
2009	0	0	0	0	0	5,000	0	5,000
2010	0	0	0	0	0	5,000	0	5,000
2011	0	0	0	0	0	5,000	0	5,000
2012	0	0	0	0	0	5,000	0	5,000
2013	0	0	0	0	0	5,000	0	5,000
2014	0	0	0	0	0	5,000	0	5,000
2015	0	0	0	0	0	5,000	0	5,000
2016	0	0	0	0	0	5,000	0	5,000
2017	0	0	0	0	0	0	0	0
2018	0	0	0	0	0	0	0	0
2019	0	0	0	0	0	0	0	0
2020	0	0	0	0	0	0	0	0
2021	0	0	0	0	0	0	0	0
2022	0	0	0	0	0	0	0	0

Kingston Fossil Plant
Develop Fly Ash, Gypsum & Bottom Ash Disposal Capacity
Development of a waste stack for fly ash, bottom ash

Estimate Number:	04513	**Option:**	0	**PCN Number:**	KIF530
Plant:	KIF	**Revision:**	0	**Estimate Type:**	Conceptual
Cost Engineer:	Sys. Eng.	**Unit #:**		**Estimate Accuracy:**	+/- 30%
Requesting Engr:	S. M. Haber	**Phase:**	1	**Estimate Issue Date:**	08/16/2004

	Hours	Dollars
Phase I		
Engineering		$270,000
Partner (Non-Manual)		
Other / Other Organizations		$5,000
Total Phase I		***$275,000***
Phase II		
Engineering		$425,000
Long Lead Procurement		$8,000,000
Partner (Non-Manual)		$35,000
Other / Other Organizations		$25,000
Total Phase II		***$8,485,000***
Phase III		
Construction (Partner)		
Permanent Material		$0
Labor (T&L)		$40,000
Labor (Non-Manual)		
Equipment		$0
Subcontracts		$7,085,000
Partner Fee		$0
Partner Insurance		$0
Escalation		$0
Construction Risk Dollars		$0
Other		$0
Total Construction Cost		$7,125,000
Engineering		$450,000
Direct plant support + TVA Other Costs		$40,000
Project Risk Dollars		$0
Other / Other Organizations		$0
Total Phase III		***$7,615,000***
All Phases		
Construction Partner		$7,160,000
Long Lead Procurement		$8,000,000
Engineering		$1,145,000
Other / Other Organizations		$70,000
Total Risk Dollars		$0
Total Project Costs		**$16,375,000**
For Information only Total Environmental		**$0**
For Information only Total Demolition Costs		**$0**

Kingston Fossil Plant
Develop Fly Ash, Gypsum & Bottom Ash Disposal Capacity
Development of a waste stack for flyash, bottom ash & gypsum.

Project name	Ash Disposal
Estimator	Sys. Eng.
Plant	KIF
Estimate #	04513
PCN #	KIF530
Requesting Engr	S. M. Haber
Option	0
Revision	0
Phase	1
Estimate Type	Conceptual
Estimate Accuracy	+/- 30%
Est. Issue Date	08/16/2004
Funding Type	Capital
Report format	Sorted by 'Location/Activity' 'Detail' summary

Location	Activity	Description	Takeoff Quantity	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Amount
KIF									
	Ash System								
		Material (Blank)	1.00 ls		8,000,000	-	-	-	8,000,000
		Craft Labor (GUMBK)	1.00 ls	40,000		-	-	-	40,000
		GUMBK (Ph II)	1.00 ls			-	-	35,000	35,000
		Plant Support (Ph III)	1.00 ls			-	-	40,000	40,000
		Turnkey Installation	1.00 ls			7,085,000	-	-	7,085,000

Estimate Totals

Labor	40,000		1,086.366	hrs		
Material	8,000,000					
Subcontract	7,085,000					
Other	75,000					
	15,200,000	15,200,000				
Engineered Materials - Ph 2	8,000,000		100.000 %		C	
Adjustment - Engr Materials	(8,000,000)		(100.000) %		C	
		15,200,000				
Environmental Costs			100.000 %		C	
Adjustment Environmental			(100.000) %		C	
		15,200,000				
Demolition Costs			100.000 %		C	
Adjustment Demolition			(100.000) %		C	
		15,200,000				
FPG Engineering - Phase 1	250,000		547.917 % @	42.00	A	5,952
FPG Proj Engr - Phase 1	17,312		37.942 % @	42.00	A	412
FPG Estimating - Phase 1	1,008		2.209 % @	42.00	A	24
FPG Proj Contrl - Phase 1	1,680		3.682 % @	42.00	A	40
Plant Support - Phase 1	5,000				L	
	275,000	15,475,000				
FPG Engineering - Phase 2	370,000		810.917 % @	42.00	A	8,810
FPG Proj Engr - Phase 2	49,960		109.496 % @	42.00	A	1,190
FPG Estimating Phase 2	1,008		2.209 % @	42.00	A	24
FPG Proj Contrl - Phase 2	3,360		7.364 % @	42.00	A	80
FPG Records - Phase 2	672		1.473 % @	42.00	A	16
Plant Support - Phase 2	25,000				L	
	450,000	15,925,000				
FPG Engineering - Phase 3	400,000		876.667 % @	42.00	A	9,524
FPG Proj Engr - Phase 3	47,312		103.692 % @	42.00	A	1,126
FPG Proj Contrl - Phase 3	1,680		3.682 % @	42.00	A	40
FPG Records - Phase 3	1,008		2.209 % @	42.00	A	24
	450,000	16,375,000				
	Total	***16,375,000***				

Haber, Stanley M

From: Toney, Calvin L.
Sent: Monday, September 13, 2004 2:19 PM
To: Haber, Stanley M.
Cc: Harless, J. Larry
Subject: RE: Cost Rollup for KIF530 (Develop Ash Disposal capacity)
Attachments: Project Summary Sheet(04542).rtf; 04542.pdf

Please find attached the estimate summary sheet and pdf formatted cost estimate for the above subject.

Please review and if you have any comments or questions call me at x7666 or e-mail me.

-----Original Message-----
From: Harless, J. Larry
Sent: Monday, September 13, 2004 10:12 AM
To: Toney, Calvin L.
Cc: Haber, Stanley M.
Subject: FW: Cost Rollup for KIF530 (Develop Ash Disposal capacity)

Calvin,

Do a cost rollup for Stan. Also don't forget to get Jeff's input on the hours for PCS.
-----Original Message-----
From: Haber, Stanley M.
Sent: Friday, September 10, 2004 1:57 PM
To: Harless, J. Larry
Cc: Auguste, Myriam B.; Long, S. Scott; Halicks, David R.; Davis, Michael D
Subject: Cost Rollup for KIF530 (Develop Ash Disposal capacity)

Larry,

Would you be able to provide a cost roll-up for KIF530 for me? I have attached my project input sheet and an engineering cost sheet for your use.

Thanks.

Stan

KINGSTON FOSSIL PLANT
DEVELOP FLY ASH, GYPSUM, AND BOTTOM ASH STORAGE
(KIF530) PHASE 1 APPROVAL COST ESTIMATE

Estimate Number	04542	**Option:**	0	**PCN Number:**	KIF530
Plant:	KIF	**Revision:**	0	**Estimate Type:**	Order Of Magnitude
Cost Engineer:	C. L. Toney	**Unit #:**		**Estimate Accuracy:**	+/- 50%
Requesting Engr:	S. Haber	**Phase:**	1	**Estimate Issue Date**	09/13/2004

	Hours	Dollars
Phase I		
Engineering		$407,000
Partner (Non-Manual)		
Other / Plant Support		$5,000
Total Phase I		***$412,000***
Phase II		
Engineering		$475,000
Long Lead Procurement		$6,900,000
Partner (Non-Manual)		$15,000
Other / Plant Support		$3,000
Total Phase II		***$7,393,000***
Phase III		
Construction (Partner)		
Permanent Material		$0
Labor (T&L)	1,000.00	$40,000
Labor (Non-Manual)		
Equipment		$0
Subcontracts (Turnkey)		$7,895,000
Partner Fee		$0
Partner Insurance		$0
Escalation		$0
Construction Risk Dollars		$0
Other		$0
Total Construction Cost		$7,935,000
Engineering		$555,000
Direct plant support + TVA Other Costs		$0
Project Risk Dollars		$0
Other / Plant Support		$80,000
Total Phase III		***$8,570,000***
All Phases		
Construction Partner	1,000.00	$7,950,000
Long Lead Procurement		$6,900,000
Engineering		$1,437,000
Other / Plant Support		$88,000
Total Risk Dollars		$0
Total Project Costs	**1,000.00**	**$16,375,000**
For Information only Total Environmental		**$0**
For Information only Total Demolition Costs		**$0**

KINGSTON FOSSIL PLANT
DEVELOP FLY ASH, GYPSUM, AND BOTTOM ASH STORAGE
(KIF530) PHASE 1 APPROVAL COST ESTIMATE

Project name	KIF/04542/ASH STORAGE
Engineer	Stan Haber
Estimator	C. L. Toney
Project	Ash
Plant	KIF
Estimate #	04542
PCN #	KIF530
Requesting Engr	S. Haber
Option	0
Revision	0
Phase	1
Estimate Type	Order Of Magnitude
Estimate Accuracy	+/- 50%
Est. Issue Date	09/13/2004
Funding Type	Capital
Notes	All cost for this estimate was provided by (PE) Stan Haber.
Report format	Sorted by 'Location/Activity' 'Detail' summary

Location	Activity	Description	Takeoff Quantity	Labor Productivity	Labor Quantity	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount
PHASE 2												
	Long Lead Materials											
		Materials - 1	1.00 ls		-	-	400,000	-	-	-	400,000.00	400,000
		Materials - 2	1.00 ls		-	-	6,500,000	-	-	-	6,500,000.00	6,500,000
		Long Lead Materials			**hrs**		**6,900,000**					**6,900,000**
	Partner											
		GUBMK / HED (Estimate)	1.00 ls		-	-	-	-		15,000	15,000.00	15,000
		Partner			**hrs**					**15,000**		**15,000**
		PHASE 2			***hrs***		***6,900,000***			***15,000***		***6,915,000***
PHASE 3												
	Implementation											
		GUBMK Installation	1.00 ls	1,000.000	1,000.00 mh	***40,000***	-	-	-	-	40,000.00	40,000
		Turnkey Installation	1.00 ls		-	-	-	7,895,000	-	-	7,895,000.00	7,895,000
		Implementation			**1,000.00 hrs**	**40,000**		**7,895,000**				**7,935,000**
		PHASE 3			***1,000.00 hrs***	***40,000***		***7,895,000***				***7,935,000***

Estimate Totals

Labor	40,000		1,000.000	hrs		
Material	6,900,000					
Subcontract	7,895,000					
Other	15,000					
	14,850,000	14,850,000				
Engineered Materials - Ph 2	6,900,000		100.000	%	C	
Adjustment - Engr Materials	(6,900,000)		(100.000)	%	C	
		14,850,000				
FPG Proj Engr - Phase 1	9,310		22.000	% @	42.32 A	220
FPG Mech Engr - Phase 1	4,200		10.000	% @	42.00 A	100
FPG Elec Engr - Phase 1	4,200		10.000	% @	42.00 A	100
FPG Civil Engr - Phase 1	10,080		24.000	% @	42.00 A	240
Non-TVA Engr - Phase 1	376,505		257.000	% @	146.50 A	2,570
FPG Proj Controls - Phase 1	1,680		4.000	% @	42.00 A	40
FPG Cost Estimating - Phase 1	1,008		2.400	% @	42.00 A	24
	406,983	15,256,983				
FPG Proj Engr - Phase 2	69,960		20.000	% @	349.80 A	200
FPG Mech Engr - Phase 2	8,400		20.000	% @	42.00 A	200
FPG Elec Engr - Phase 2	8,400		20.000	% @	42.00 A	200
FPG Civil Engr - Phase 2	12,600		30.000	% @	42.00 A	300
Non-TVA Engr - Phase 2	370,560		600.000	% @	61.76 A	6,000
FPG Proj Controls - Phase 2	3,360		8.000	% @	42.00 A	80
FPG Cost Estimating - Phase 2	1,008		2.400	% @	42.00 A	24
FPG Engr Records - Phase 2	672		1.600	% @	42.00 A	16
	474,960	15,731,943				
FPG Proj Engr - Phase 3	97,310		22.000	% @	442.32 A	220
FPG Mech Engr - Phase 3	8,400		20.000	% @	42.00 A	200
FPG Elec Engr - Phase 3	8,400		20.000	% @	42.00 A	200
FPG Civil Engr - Phase 3	12,600		30.000	% @	42.00 A	300
Non-TVA Engr - Phase 3	425,558		575.000	% @	74.01 A	5,750
FPG Proj Controls - Phase 3	1,680		4.000	% @	42.00 A	40
FPG Engr Records - Phase 3	1,008		2.400	% @	42.00 A	24
	554,956	16,286,899				
Phase 1 Plant Support	5,000				L	
	5,000	16,291,899				
Phase 2 Plant Support	3,000				L	
	3,000	16,294,899				
Phase 3 Plant Support	80,000				L	
	80,000	16,374,899				
	Total	***16,374,899***				

Haber, Stanley M

From: Haber, Stanley M.
Sent: Tuesday, August 31, 2004 4:09 PM
To: Petty, Harold L.
Subject: FW: KIF530 Input for Cost Estimate Summary 2004 08 26 R0.xls
Attachments: KIF530 Input for Cost Estimate Summary 2004 08 26 R0.xls

Tracking:

Recipient	Delivery
Petty, Harold L.	Delivered: 08/31/2004 4:09 PM

Lynn,

I guess that we need to talk about this. I would think that the other disciplines would get a chance to provide a number for their support of this phase 1.

Stan
-----Original Message-----
From: Purkey, Ronald E.
Sent: Thursday, August 26, 2004 1:10 PM
To: Haber, Stanley M.; Hedgecoth, Melissa A.
Cc: Petty, Harold L.; Powell, Ronald D.
Subject: KIF530 Input for Cost Estimate Summary 2004 08 26 R0.xls

My revisions in bold. Call Lynn if you wish to discuss logic

Ron

1	**KIF530: Develop Fly Ash, Gypsum, and Bottom Ash Storage**									
2	**Phase/Activity**	**FY04**	**FY05**	**FY06**	**FY07**	**FY08**		**Totals**	**Prv Yrs**	
3										
4										
5	**Phase 1**									
6	Engineering	200	**70**					270		
7	PE/PC/PS		**20**					20		
8	Plant Support		5					5		
9	PSS - Inspection							0		
10										
11	Total Phase 1	200	95	0	0	0		295		
12										
13	**Phase 2**									
14										
15	Engineering (Systems and EDS)	0	**150**	70	300	0		520		
16										
17	PE/PC/PS	0	**25**	25	30	0		80		
18										
19	GUBMK/HED (estimate)	0	0		35	0		35		
20	Plant Support	0	0	5	20	0		25		
21										
22	Long Lead Material (LLM)									
23	*blank*	0	0			0		0		
24	*blank*	0	0		4000	4000		8000		
25	*total LLM*	0	0	0	4000	4000		8000		
26										
27	Total Phase 2	0	175	100	4385	4000		8660		
28										

1	**KIF530: Develop Fly Ash, Gypsum, and Bottom Ash Storage**									
2	**Phase/Activity**	**FY04**	**FY05**	**FY06**	**FY07**	**FY08**		**Totals**	**Prv Yrs**	
29	**Phase 3**									
30										
31	Engineering	0	**20**	0	200	200		420		
32										
33	PE/PC/PS	0	**10**	0	15	35		60		
34										
35	Plant Support	0	**20**	0	20	20		60		
36										
37	Installation (x)									
38	*GUBMK*	0	**800**	0	20	20		840		
39	*blank*	0	0	0	0	0		0		
40	*Total GUBMK*	0	800	0	20	20		840		
41										
42	*Turnkey Installation*	0	0	0	3360	0		3360		
43	*blank*	0	0	0	0	0		0		
44	*Total*	0	0	0	3360	3725		7085		
45										
46	*Asbestos abatement (GUBMK)*	0	0	0	0	0		0		
47										
48	*Total Installation*	0	800	0	3380	3745		7925		
49										
50	Total Phase 3	0	850	0	3615	4000		8465		
51										
52	**Total: All Phases**	200	1120	100	8000	8000		17420		
	Assumptions:									
	1. Design and installation of system will be by turnkey contractor; scope similar to CUF dry fly ash system.									
	2. Design of BOP interfaces will be by FE&TS									
	3. FE&TS Lead will be Civil Department									
	4. An outage will be required for some BOP interface tie-ins									

Haber, Stanley M

From: Haber, Stanley M.
Sent: Thursday, August 26, 2004 12:00 PM
To: Purkey, Ronald E.
Cc: Petty, Harold L.; Powell, Ronald D.
Attachments: KIF530 Input for Cost Estimate Summary 2004 08 26 R0.xls

Tracking:

Recipient	Delivery
Purkey, Ronald E.	Delivered: 08/26/2004 12:00 PM
Petty, Harold L.	Delivered: 08/26/2004 12:00 PM
Powell, Ronald D.	Delivered: 08/26/2004 12:00 PM

Ron,

Attached is the cost input sheet that I would like to revise to capture our proposed cash flow.

Stan

1	**KIF530: Develop Fly Ash, Gypsum, and Bottom Ash Storage**								
2	**Phase/Activity**	**FY04**	**FY05**	**FY06**	**FY07**	**FY08**	**Totals**	**Prv Yrs**	
3									
4									
5	**Phase 1**								
6	Engineering	200	50				250		
7	PE/PC/PS		20				20		
8	Plant Support		5				5		
9	PSS - Inspection						0		
10									
11	Total Phase 1	200	75	0	0	0	275		
12									
13	**Phase 2**								
14									
15	Engineering (Systems and EDS)	0	0	70	300	0	370		
16									
17	PE/PC/PS	0	0	25	30	0	55		
18									
19	GUBMK/HED (estimate)	0	0		35	0	35		
20	Plant Support	0	0	5	20	0	25		
21									
22	Long Lead Material (LLM)								
23	*blank*	0	0			0	0		
24	*blank*	0	0		4000	4000	8000		
25	*total LLM*	0	0	0	4000	4000	8000		
26									
27	Total Phase 2	0	0	100	4385	4000	8485		
28									

1	**KIF530: Develop Fly Ash, Gypsum, and Bottom Ash Storage**									
2	**Phase/Activity**	**FY04**	**FY05**	**FY06**	**FY07**	**FY08**		**Totals**	**Prv Yrs**	
29	**Phase 3**									
30										
31	Engineering	0	0	0	200	200		400		
32										
33	PE/PC/PS	0	0	0	15	35		50		
34										
35	Plant Support	0	0	0	20	20		40		
36										
37	Installation (x)									
38	*GUBMK*	0	0	0	20	20		40		
39	*blank*	0	0	0	0	0		0		
40	*Total GUBMK*	0	0	0	20	20		40		
41										
42	*Turnkey Installation*	0	0	0	3360	0		3360		
43	*blank*	0	0	0	0	0		0		
44	*Total*	0	0	0	3360	3725		7085		
45										
46	*Asbestos abatement (GUBMK)*	0	0	0	0	0		0		
47										
48	*Total Installation*	0	0	0	3380	3745		7125		
49										
50	Total Phase 3	0	0	0	3615	4000		7615		
51										
52	**Total: All Phases**	200	75	100	8000	8000		16375		
	Assumptions:									
	1. Design and installation of system will be by turnkey contractor; scope similar to CUF dry fly ash system.									
	2. Design of BOP interfaces will be by FE&TS									
	3. FE&TS Lead will be Civil Department									
	4. An outage will be required for some BOP interface tie-ins									

Haber, Stanley M

From: Baugh, James S.
Sent: Monday, June 14, 2004 6:50 AM
To: Haber, Stanley M.
Cc: Preslar, Jacky D.; Hedgecoth, Melissa A.; Davis, Michael D
Subject: RE: Second Call: KIF530 and KIF531 PJs

Stan,

Thanks for the opportunity to review these CPJs.

In our meeting with Jacky last week, Lynn Petty brought up the need for FY 05 funding for completion of analysis of dredge cell repairs and for responses to TDEC questions on the permit application. Our original project planning assumed that engineering for the dredge cell repairs would be completed in FY 04 and any funding for responses to TDEC in FY 05 would come from the FGD project. My only concern about adding FY 05 funding to this project is the impact on the overall FY 05 capital needs in Yard Operations. Will you get with Lynn Petty to verify the level of funding he needs for this work in FY 05? If the amount is small ($50K or less), we can probably cover this from FY 05 "Bliz" captial funding requests. If the amount is greater, we need to involve Mike Davis to discuss where this funding would come from out of overall FY 05 Yard Ops capital.

Call or e mail me if you have questions. I am out of the office most of this week, but will be checking voice and e mail.

Thanks,

Steve

-----Original Message-----
From: Haber, Stanley M.
Sent: Thursday, June 10, 2004 2:24 PM
To: Baugh, James S.
Cc: Preslar, Jacky D.
Subject: Second Call: KIF530 and KIF531 PJs

Steve,

I have not heard from you regarding the email that I sent you yesterday. I need to have your changes to these projects by Monday. They need to be part of the FPG package that is presented in the June PRC meeting.

Thanks.

Stan
-----Original Message-----
From: Haber, Stanley M.
Sent: Wednesday, June 09, 2004 1:10 PM
To: Baugh, James S.
Cc: Bowers, Larry C; Petty, Harold L.; Hedgecoth, Melissa A.; Davis, Michael D; Rehberg, Robert L.; Holmes, James B.; Tolliver, Sherry D.
Subject: KIF530 and KIF531 PJs

Steve,

The attached files are the Kingston ash blitz project PJs that were provided to me and that were subsequently submitted for SVP approval at the Kingston project review meeting of 5/21. Please let me know if you have any changes that you will be making to either of them.

Stan

Haber, Stanley M

From: Haber, Stanley M.
Sent: Thursday, June 10, 2004 2:24 PM
To: Baugh, James S.
Cc: Preslar, Jacky D.
Subject: Second Call: KIF530 and KIF531 PJs
Attachments: KIF530 CPJSForm. 2004 05 19pdf.pdf; KIF531 CPJSForm 2004 05 11.pdf

Steve,

I have not heard from you regarding the email that I sent you yesterday. I need to have your changes to these projects by Monday. They need to be part of the FPG package that is presented in the June PRC meeting.

Thanks.

Stan
-----Original Message-----
From: Haber, Stanley M.
Sent: Wednesday, June 09, 2004 1:10 PM
To: Baugh, James S.
Cc: Bowers, Larry C; Petty, Harold L.; Hedgecoth, Melissa A.; Davis, Michael D; Rehberg, Robert L.; Holmes, James B.; Tolliver, Sherry D.
Subject: KIF530 and KIF531 PJs

Steve,

The attached files are the Kingston ash blitz project PJs that were provided to me and that were subsequently submitted for SVP approval at the Kingston project review meeting of 5/21. Please let me know if you have any changes that you will be making to either of them.

Stan

Capital Project Justification Form

Project Name	Project ID	Rev#
KIF--DEVELOP FLY ASH, GYPSUM & BOTTOM ASH DISPOSAL CAPACITY	KIF530	0

CSF: Achieve excellence in the Asset optimization and production processes.

I. Project Description

Organization
Owner: FPG
Lead: Yard Operations

Location
Loc: KIF

Technical Contact
Name: HEDGECOTH,MELISSA A
Phone: 423/751-6426

Responsible Mgr
Name: DAVIS,MICHAEL D
Phone: 423/751-7864

Project
Type: Capital
Cat: ASSET PRESERVATION
Prgm: No Program

	Estimated	Actual
Start Date:	07/30/2003	
In-Srvc Date:	09/30/2008	
Outage Date:		

Problem Description

Analysis of recent dike failure in the existing dredge cells has raised uncertainties regarding the current long-term disposal plans for fly ash and bottom ash. An emergency cell was developed (O&M) which will provide a maximum of three years of fly ash and bottom ash capacity. In addition, planned scrubbers for Kingston will produce an additional high-volume by-product which may be co-disposed with fly ash and bottom ash beginning in FY 2009.

Project Scope

Expansion of dredge cell adjacent to existing dredge cell by construction of a new dike. Scope will also include development of a waste stack for flyash, bottom ash and gypsum within the existing perimeter dikes of the active ash disposal area.

Perform detailed analysis to determine the overall structural, environmental, and operational viability of continuing to raise and dredge to the existing dredge cells, considering the recent failure along Swan Pond road and the saturation of the lower dikes along the backwaters of the Emory river.

Perform engineering analysis and collect field data as required to develop a detailed design for maximizing the disposal capacity of fly ash, bottom ash and gypsum on the existing ash pond complex at the Kingston Fossil Plant while maintaining the required Free Water Volume. The detailed design should consider economic, structural, environmental and operational issues and impacts associated with long term ash disposal. The engineering suitability of ash currently produced at Kingston for storage in an engineered stack should be verified through testing (if this has not already been satisfactorily completed). A part II permit package is to be submitted to Environmental Affairs.

Scope will also include the design, materials procurement, and installation as necessary to support the engineering study findings.

Performance Measurement

Permitted disposal capacity for fly ash and bottom ash by FY 2007. Permitted disposal capacity for gypsum by FY 2009.

Other Options/Alternatives

Reduce or discontinue plant operations such that no ash is produced, or locate an existing off-site permitted disposal area and pay a tipping fee to haul all of Kingston's ash there.

Reason For Change

New project.

Capital Project Justification Form

Project Name	Project ID	Rev#
KIF--DEVELOP FLY ASH, GYPSUM & BOTTOM ASH DISPOSAL CAPACITY	KIF530	0

CSF: Achieve excellence in the Asset optimization and production processes.

News Release

N/A

Capital Project Justification Form

Project Name	Project ID	Rev#
KIF--DEVELOP FLY ASH, GYPSUM & BOTTOM ASH DISPOSAL CAPACITY	KIF530	0

CSF: Achieve excellence in the Asset optimization and production processes.

II. Project Economic Evaluation

COST		ECONOMIC INDICATORS	
SUNK CAPITAL PROJECTS:	$0	**NPV:**	$8,864.0
SUNK O&M PROJECTS:	$0	**PI:**	1.877
REMAINING COST:	$16,300	**IRR:**	53.0
TOTAL COST:	$16,300	**SIMPLE PAYBACK:**	6
ESTIMATE TYPE:	Order of Magnitude	**BASE YEAR:**	2004

Year	Capital Projects	O&M Projects	Benefit	O&M Base	Environ. Cost
SUNK	0	0	0	0	
OUT YEARS	0	0	0	0	
2004	200	0	0	0	0
2005	0	0	0	0	0
2006	100	0	0	0	0
2007	8,000	0	5,000	0	0
2008	8,000	0	5,000	0	0
2009	0	0	5,000	0	0
2010	0	0	5,000	0	0
2011	0	0	5,000	0	0
2012	0	0	5,000	0	0
2013	0	0	5,000	0	0
2014	0	0	5,000	0	0
2015	0	0	5,000	0	0
2016	0	0	5,000	0	0
2017	0	0	0	0	0
2018	0	0	0	0	0
2019	0	0	0	0	0
2020	0	0	0	0	0
2021	0	0	0	0	0
2022	0	0	0	0	0
2023	0	0	0	0	0

Capital Project Justification Form

Project Name	Project ID	Rev#
KIF--DEVELOP FLY ASH, GYPSUM & BOTTOM ASH DISPOSAL CAPACITY	KIF530	0

CSF: Achieve excellence in the Asset optimization and production processes.

II. Project Economic Evaluation

	Cost Assumptions	Risks
1.	Engineering = $200k in FY 04; $100k in FY 06.	Based on similar projects.
2.	Implementation (Develop by-product handling system.)= $8,000k in FY 07; $8,000k in FY 08.	Conceptual estimate for turn-key system.
3.	No significant marketing or utilization of ash or gypsum will take place. Waste production (cubic yards per year): Fly Ash = 410,000 Bottom Ash = 90,000 Gypsum = 750,000	Based on historical data (ash) and similar projects (gypsum).
4.	The existing dredge cells and ponds shall be utilized to the extent possible to obtain an additional ten years of disposal capacity.	Support of plant business plan.

	Benefit Assumptions	Risks
1.	Haul fly ash and bottom ash offsite to an existing permitted disposal site @ $10/ton for 500,000 tons per year = $5,000k per year for ten years.	Assumes a disposal site can be found within 30 miles of the plant which could handle 500,000 tons per year.

Capital Project Justification Form

Project Name	Project ID	Rev#
KIF - REPLACE KENNEDY WEIR	KIF531	0

CSF: Manage the environmental and safety impacts TVA's operations have on employees and the region.

I. Project Description

Organization

Owner: FPG
Lead: Yard Operations

Location

Loc: Kingston Fossil Plant

Technical Contact

Name: HEDGECOTH,MELISSA A
Phone: 423/751-6426

Responsible Mgr

Name: DAVIS,MICHAEL D
Phone: 423/751-7864

Project

Type: Capital
Cat: REGULATORY
Prgm: No Program

	Estimated	Actual
Start Date:	10/01/2004	
In-Srvc Date:	09/30/2005	
Outage Date:		

Problem Description

The weirs that discharges from the active ash pond to the stilling pond are a field design rather than a TVA standard engineered design. The weir configuration is not known, which inhibits the ability to accurately determine and report pond free water volume in accordance with the plant NPDES permit requirements. The discharge side of the weirs are equipped with control gates that require manual manipulation and adjustment based on precipitation and dredging activities. This activity is hazardous due to the location, physical requirements for performing work, and risk to employees should equipment failure occur. It should be noted that equipment failure could also cause a water surge that would likely result in dike overtopping and an REE.

Project Scope

Abandon the existing weirs and install a TVA standard engineered design weir that requires no manual intervention or operation.

Performance Measurement

Ash pond free water volume accurately determined and reported. No water surges that result in dike overtopping and REEs as measured for the first 120 days following implementation. No reportable employee safety incidents as measured by the first 120 days following project implementation.

Other Options/Alternatives

Continue to manually opperate the system as-is, placing employees at risk should equipment fail, and risking water surges that might overtop the dike and result in REEs.

Reason For Change

New project.

News Release

No Information Available

Capital Project Justification Form

Project Name	Project ID	Rev#
KIF - REPLACE KENNEDY WEIR	KIF531	0

CSF: Manage the environmental and safety impacts TVA's operations have on employees and the region.

II. Project Economic Evaluation

COST		ECONOMIC INDICATORS	
SUNK CAPITAL PROJECTS:	$0	**NPV:**	-$250.0
SUNK O&M PROJECTS:	$0	**PI:**	0
REMAINING COST:	$250	**IRR:**	0.0
TOTAL COST:	$250	**SIMPLE PAYBACK:**	20
ESTIMATE TYPE:	Order of Magnitude	**BASE YEAR:**	2005

Year	Capital Projects	O&M Projects	Benefit	O&M Base	Environ. Cost
SUNK	0	0	0	0	
OUT YEARS	0	0	0	0	
2005	250	0	0	0	0
2006	0	0	0	0	0
2007	0	0	0	0	0
2008	0	0	0	0	0
2009	0	0	0	0	0
2010	0	0	0	0	0
2011	0	0	0	0	0
2012	0	0	0	0	0
2013	0	0	0	0	0
2014	0	0	0	0	0
2015	0	0	0	0	0
2016	0	0	0	0	0
2017	0	0	0	0	0
2018	0	0	0	0	0
2019	0	0	0	0	0
2020	0	0	0	0	0
2021	0	0	0	0	0
2022	0	0	0	0	0
2023	0	0	0	0	0
2024	0	0	0	0	0

Capital Project Justification Form

Project Name	Project ID	Rev#
KIF - REPLACE KENNEDY WEIR	KIF531	0

CSF: Manage the environmental and safety impacts TVA's operations have on employees and the region.

II. Project Economic Evaluation

Cost Assumptions	Risks
1. Abandon existing weirs in place; design, procure materials, and install TVA standard Design Weirs - $250k	Based upon similar project costs.
2. Assumes that an additional $150K of funding for this scope is provided by the FGD program.	

Benefit Assumptions	Risks
1. Ash pond free water volume accurately determined and reported.	
2. No water surges leading to dike overtopping and REEs as measured by the first 120 days following project implementation.	
3. No reportable employee safety incidents associated with operation or maintenance of the system as measured by the first 120 days following project implementation.	

Haber, Stanley M

From: Haber, Stanley M.

Sent: Wednesday, June 09, 2004 1:10 PM

To: Baugh, James S.

Cc: Bowers, Larry C; Petty, Harold L.; Hedgecoth, Melissa A.; Davis, Michael D; Rehberg, Robert L.; Holmes, James B.; Tolliver, Sherry D.

Subject: KIF530 and KIF531 PJs

Attachments: KIF530 CPJSForm. 2004 05 19pdf.pdf; KIF531 CPJSForm 2004 05 11.pdf

Tracking:

Recipient	Delivery	Read
Baugh, James S.	Delivered: 06/09/2004 1:10 PM	
Bowers, Larry C	Delivered: 06/09/2004 1:10 PM	
Petty, Harold L.	Delivered: 06/09/2004 1:10 PM	
Hedgecoth, Melissa A.	Delivered: 06/09/2004 1:10 PM	
Davis, Michael D	Delivered: 06/09/2004 1:10 PM	Read: 06/09/2004 1:42 PM
Rehberg, Robert L.	Delivered: 06/09/2004 1:10 PM	
Holmes, James B.	Delivered: 06/09/2004 1:10 PM	
Tolliver, Sherry D.	Delivered: 06/09/2004 1:10 PM	

Steve,

The attached files are the Kingston ash blitz project PJs that were provided to me and that were subsequently submitted for SVP approval at the Kingston project review meeting of 5/21. Please let me know if you have any changes that you will be making to either of them.

Stan

Capital Project Justification Form

Project Name	Project ID	Rev#
KIF--DEVELOP FLY ASH, GYPSUM & BOTTOM ASH DISPOSAL CAPACITY	KIF530	0

CSF: Achieve excellence in the Asset optimization and production processes.

I. Project Description

Organization
Owner: FPG
Lead: Yard Operations

Location
Loc: KIF

Technical Contact
Name: HEDGECOTH,MELISSA A
Phone: 423/751-6426

Responsible Mgr
Name: DAVIS,MICHAEL D
Phone: 423/751-7864

Project
Type: Capital
Cat: ASSET PRESERVATION
Prgm: No Program

	Estimated	Actual
Start Date:	07/30/2003	
In-Srvc Date:	09/30/2008	
Outage Date:		

Problem Description

Analysis of recent dike failure in the existing dredge cells has raised uncertainties regarding the current long-term disposal plans for fly ash and bottom ash. An emergency cell was developed (O&M) which will provide a maximum of three years of fly ash and bottom ash capacity. In addition, planned scrubbers for Kingston will produce an additional high-volume by-product which may be co-disposed with fly ash and bottom ash beginning in FY 2009.

Project Scope

Expansion of dredge cell adjacent to existing dredge cell by construction of a new dike. Scope will also include development of a waste stack for flyash, bottom ash and gypsum within the existing perimeter dikes of the active ash disposal area.

Perform detailed analysis to determine the overall structural, environmental, and operational viability of continuing to raise and dredge to the existing dredge cells, considering the recent failure along Swan Pond road and the saturation of the lower dikes along the backwaters of the Emory river.

Perform engineering analysis and collect field data as required to develop a detailed design for maximizing the disposal capacity of fly ash, bottom ash and gypsum on the existing ash pond complex at the Kingston Fossil Plant while maintaining the required Free Water Volume. The detailed design should consider economic, structural, environmental and operational issues and impacts associated with long term ash disposal. The engineering suitability of ash currently produced at Kingston for storage in an engineered stack should be verified through testing (if this has not already been satisfactorily completed). A part II permit package is to be submitted to Environmental Affairs.

Scope will also include the design, materials procurement, and installation as necessary to support the engineering study findings.

Performance Measurement

Permitted disposal capacity for fly ash and bottom ash by FY 2007. Permitted disposal capacity for gypsum by FY 2009.

Other Options/Alternatives

Reduce or discontinue plant operations such that no ash is produced, or locate an existing off-site permitted disposal area and pay a tipping fee to haul all of Kingston's ash there.

Reason For Change

New project.

Capital Project Justification Form

Project Name	Project ID	Rev#
KIF--DEVELOP FLY ASH, GYPSUM & BOTTOM ASH DISPOSAL CAPACITY	KIF530	0

CSF: Achieve excellence in the Asset optimization and production processes.

News Release

N/A

Capital Project Justification Form

Project Name	Project ID	Rev#
KIF--DEVELOP FLY ASH, GYPSUM & BOTTOM ASH DISPOSAL CAPACITY	KIF530	0

CSF: Achieve excellence in the Asset optimization and production processes.

II. Project Economic Evaluation

COST		ECONOMIC INDICATORS	
SUNK CAPITAL PROJECTS:	$0	**NPV:**	$8,864.0
SUNK O&M PROJECTS:	$0	**PI:**	1.877
REMAINING COST:	$16,300	**IRR:**	53.0
TOTAL COST:	$16,300	**SIMPLE PAYBACK:**	6
ESTIMATE TYPE:	Order of Magnitude	**BASE YEAR:**	2004

Year	Capital Projects	O&M Projects	Benefit	O&M Base	Environ. Cost
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2012	0	0	5,000	0	0
2013	0	0	5,000	0	0
2014	0	0	5,000	0	0
2015	0	0	5,000	0	0
2016	0	0	5,000	0	0
2017	0	0	0	0	0
2018	0	0	0	0	0
2019	0	0	0	0	0
2020	0	0	0	0	0
2021	0	0	0	0	0
2022	0	0	0	0	0
2023	0	0	0	0	0

Capital Project Justification Form

Project Name	Project ID	Rev#
KIF--DEVELOP FLY ASH, GYPSUM & BOTTOM ASH DISPOSAL CAPACITY	KIF530	0

CSF: Achieve excellence in the Asset optimization and production processes.

II. Project Economic Evaluation

	Cost Assumptions	Risks
1.	Engineering = $200k in FY 04; $100k in FY 06.	Based on similar projects.
2.	Implementation (Develop by-product handling system.)= $8,000k in FY 07; $8,000k in FY 08.	Conceptual estimate for turn-key system.
3.	No significant marketing or utilization of ash or gypsum will take place. Waste production (cubic yards per year): Fly Ash = 410,000 Bottom Ash = 90,000 Gypsum = 750,000	Based on historical data (ash) and similar projects (gypsum).
4.	The existing dredge cells and ponds shall be utilized to the extent possible to obtain an additional ten years of disposal capacity.	Support of plant business plan.

	Benefit Assumptions	Risks
1.	Haul fly ash and bottom ash offsite to an existing permitted disposal site @ $10/ton for 500,000 tons per year = $5,000k per year for ten years.	Assumes a disposal site can be found within 30 miles of the plant which could handle 500,000 tons per year.

Capital Project Justification Form

Project Name	Project ID	Rev#
KIF - REPLACE KENNEDY WEIR	KIF531	0

CSF: Manage the environmental and safety impacts TVA's operations have on employees and the region.

I. Project Description

Organization

Owner: FPG
Lead: Yard Operations

Location

Loc: Kingston Fossil Plant

Technical Contact

Name: HEDGECOTH,MELISSA A
Phone: 423/751-6426

Responsible Mgr

Name: DAVIS,MICHAEL D
Phone: 423/751-7864

Project

Type: Capital
Cat: REGULATORY
Prgm: No Program

	Estimated	Actual
Start Date:	10/01/2004	
In-Srvc Date:	09/30/2005	
Outage Date:		

Problem Description

The weirs that discharges from the active ash pond to the stilling pond are a field design rather than a TVA standard engineered design. The weir configuration is not known, which inhibits the ability to accurately determine and report pond free water volume in accordance with the plant NPDES permit requirements. The discharge side of the weirs are equipped with control gates that require manual manipulation and adjustment based on precipitation and dredging activities. This activity is hazardous due to the location, physical requirements for performing work, and risk to employees should equipment failure occur. It should be noted that equipment failure could also cause a water surge that would likely result in dike overtopping and an REE.

Project Scope

Abandon the existing weirs and install a TVA standard engineered design weir that requires no manual intervention or operation.

Performance Measurement

Ash pond free water volume accurately determined and reported. No water surges that result in dike overtopping and REEs as measured for the first 120 days following implementation. No reportable employee safety incidents as measured by the first 120 days following project implementation.

Other Options/Alternatives

Continue to manually opperate the system as-is, placing employees at risk should equipment fail, and risking water surges that might overtop the dike and result in REEs.

Reason For Change

New project.

News Release

No Information Available

Capital Project Justification Form

Project Name	Project ID	Rev#
KIF - REPLACE KENNEDY WEIR	KIF531	0

CSF: Manage the environmental and safety impacts TVA's operations have on employees and the region.

II. Project Economic Evaluation

COST		ECONOMIC INDICATORS	
SUNK CAPITAL PROJECTS:	$0	**NPV:**	-$250.0
SUNK O&M PROJECTS:	$0	**PI:**	0
REMAINING COST:	$250	**IRR:**	0.0
TOTAL COST:	$250	**SIMPLE PAYBACK:**	20
ESTIMATE TYPE:	Order of Magnitude	**BASE YEAR:**	2005

Year	Capital Projects	O&M Projects	Benefit	O&M Base	Environ. Cost
SUNK	0	0	0	0	
OUT YEARS	0	0	0	0	
2005	250	0	0	0	0
2006	0	0	0	0	0
2007	0	0	0	0	0
2008	0	0	0	0	0
2009	0	0	0	0	0
2010	0	0	0	0	0
2011	0	0	0	0	0
2012	0	0	0	0	0
2013	0	0	0	0	0
2014	0	0	0	0	0
2015	0	0	0	0	0
2016	0	0	0	0	0
2017	0	0	0	0	0
2018	0	0	0	0	0
2019	0	0	0	0	0
2020	0	0	0	0	0
2021	0	0	0	0	0
2022	0	0	0	0	0
2023	0	0	0	0	0
2024	0	0	0	0	0

Capital Project Justification Form

Project Name	Project ID	Rev#
KIF - REPLACE KENNEDY WEIR	KIF531	0

CSF: Manage the environmental and safety impacts TVA's operations have on employees and the region.

II. Project Economic Evaluation

Cost Assumptions

1. Abandon existing weirs in place; design, procure materials, and install TVA standard Design Weirs - $250k

2. Assumes that an additional $150K of funding for this scope is provided by the FGD program.

Risks

Based upon similar project costs.

Benefit Assumptions

1. Ash pond free water volume accurately determined and reported.

2. No water surges leading to dike overtopping and REEs as measured by the first 120 days following project implementation.

3. No reportable employee safety incidents associated with operation or maintenance of the system as measured by the first 120 days following project implementation.

Risks

Haber, Stanley M

From: Long, S. Scott
Sent: Monday, May 17, 2004 11:19 AM
To: Haber, Stanley M.
Subject: RE: KIF466: Request for PA

sorry these comments apply to KIF530

Scott Long
Manager, Project Development
Strategic Project Planning, FPG
LP 2R-C
423-751-7282

-----Original Message-----
From: Haber, Stanley M.
Sent: Monday, May 17, 2004 10:42 AM
To: Long, S. Scott
Subject: RE: KIF466: Request for PA

Scott,

Are you refererring to KIF466 or to KIF531?

Stan

-----Original Message-----
From: Long, S. Scott
Sent: Monday, May 17, 2004 10:20 AM
To: Haber, Stanley M.
Subject: RE: KIF466: Request for PA

Need program code assigned.
Change perf measurement dates to "end of FY06 and end of FY08"
Payback is 6 years.
Cost assumption states yearly production of ash in CUBIC YARDS but benefits talk about same production numbers in TONS. Reverify units to make sure benefits align with cost philosophy.

Scott Long
Manager, Project Development
Strategic Project Planning, FPG
LP 2R-C
423-751-7282

-----Original Message-----
From: Haber, Stanley M.
Sent: Friday, May 14, 2004 3:23 PM
To: Auguste, Myriam B.
Cc: Rehberg, Robert L.; Aslinger, Randy T.; Deskins, Earl L; Halicks, David R.; Holmes, James B.; Tolliver, Sherry D.; Gray, Deming; Long, S. Scott
Subject: KIF466: Request for PA

Myriam,

Please generate a PA for the attached PJ in suppport of our FPEP review of FY06 projects on 5/21/04.

Thanks.

Stan
751.3838

Haber, Stanley M

From: Bowers, Larry C
Sent: Tuesday, May 11, 2004 3:20 PM
To: Haber, Stanley M.
Subject: FW: Requested Information about CPJ's KIF 530&531

FYI

-----Original Message-----
From: Bowers, Larry C
Sent: Tuesday, May 11, 2004 3:14 PM
To: Campbell, Linda F.
Cc: Petty, Harold L.; Baugh, James S.; Smith, Amos L; Park, Gordon G; Johnson, Lindy P.
Subject: Requested Information about CPJ's KIF 530&531

As we discussed, the CPJ for Project KIF530 is for $200,000 to fund the Yards' share of the cost for design and permitting of the lateral expansion of the landfill operations into the active ash cell. This expansion will include the interim dredge cell, future ash capacity and future gypsum capacity. The FGD project will play for the balance of this work. This project will provide permitted capacity for both ash and gypsum until 2025 to 2030.

KIF531 is for replacement of the "Kennedy" weir. The justification for this project from the CPJ is given below:

"The weirs that discharges from the active ash pond to the stilling pond are a field design rather than a TVA standard engineered design. The
weir configuration is not known, which inhibits the ability to accurately determine and report pond free water volume in accordance with the plant
NPDES permit requirements. The discharge side of the weirs are equipped with control gates that require manual manipulation and adjustment
based on precipitation and dredging activities. This activity is hazardous due to the location, physical requirements for performing work, and risk
to employees should equipment failure occur. It should be noted that equipment failure could also cause a water surge that would likely result
in dike overtopping and an REE."

The things that I would add to the above would be the following:

1. The lateral expansion discussed in KIF530 will necessitate the raising of the dike between the ash and stilling ponds and the replacement of this weir.
2. The method used to raise and lower the water level,i.e., adjusting the guillotine value at the weir outfall is not sound engineering practice and greatly increases the chance of weir failure.
3. Given how close we are on FWV, it is critical that we are allowed to count any available water volume. The EPA guidance on FWV did not anticipate that a weir like this would be in use because in most cases the top of the weir is only slightly below the water surface elevation not a matter of feet as is the case with this weir.

Larry C. Bowers
Senior Solid Waste Specialist
Environmental Affairs
1101 Market Street, LP 5D
Chattanooga, Tn 37402-2801
423-751-4947 Fax: 423-751-7011
Pager: 1-800-283-0028,2421
lcbowers@tva.gov

Haber, Stanley M

From: Bowers, Larry C
Sent: Tuesday, May 11, 2004 3:20 PM
To: Haber, Stanley M.
Subject: FW: Requested Information about CPJ's KIF 530&531

FYI

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Sent: Tuesday, May 11, 2004 3:14 PM
To: Campbell, Linda F.
Cc: Petty, Harold L.; Baugh, James S.; Smith, Amos L; Park, Gordon G; Johnson, Lindy P.
Subject: Requested Information about CPJ's KIF 530&531

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based on precipitation and dredging activities. This activity is hazardous due to the location, physical requirements for performing work, and risk
to employees should equipment failure occur. It should be noted that equipment failure could also cause a water surge that would likely result
in dike overtopping and an REE."

The things that I would add to the above would be the following:

1. The lateral expansion discussed in KIF530 will necessitate the raising of the dike between the ash and stilling ponds and the replacement of this weir.
2. The method used to raise and lower the water level,i.e., adjusting the guillotine value at the weir outfall is not sound engineering practice and greatly increases the chance of weir failure.
3. Given how close we are on FWV, it is critical that we are allowed to count any available water volume. The EPA guidance on FWV did not anticipate that a weir like this would be in use because in most cases the top of the weir is only slightly below the water surface elevation not a matter of feet as is the case with this weir.

Larry C. Bowers
Senior Solid Waste Specialist
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1101 Market Street, LP 5D
Chattanooga, Tn 37402-2801
423-751-4947 Fax: 423-751-7011
Pager: 1-800-283-0028,2421
lcbowers@tva.gov

Haber, Stanley M

From: Hedgecoth, Melissa A.
Sent: Wednesday, April 28, 2004 2:47 PM
To: Haber, Stanley M.
Subject: RE: Emailing: KIF530 New Ash Pond capacity CPJSForm 2004 04 24.pdf

Looks good to me.

-----Original Message-----
From: Haber, Stanley M.
Sent: Wednesday, April 28, 2004 10:17 AM
To: Hedgecoth, Melissa A.
Cc: Petty, Harold L.; Davis, Michael D
Subject: Emailing: KIF530 New Ash Pond capacity CPJSForm 2004 04 24.pdf

Missy,

I have reviewed the CPJ that you prepared for this project and have made some editorial adjustments. I would like you to review my comments. Please look over the attached file by close-of-business today and let me know if I need to adjust any of my changes to make this CPJ accurate.

Thanks for your help.

Haber, Stanley M

From: Haber, Stanley M.
Sent: Wednesday, April 28, 2004 10:17 AM
To: Hedgecoth, Melissa A.
Cc: Petty, Harold L.; Davis, Michael D
Subject: Emailing: KIF530 New Ash Pond capacity CPJSForm 2004 04 24.pdf

Attachments: KIF530 New Ash Pond capacity CPJSForm 2004 04 24.pdf

KIF530 New Ash Pond capacity C...

Missy,

I have reviewed the CPJ that you prepared for this project and have made some editorial adjustments. I would like you to review my comments. Please look over the attached file by close-of-business today and let me know if I need to adjust any of my changes to make this CPJ accurate.

Thanks for your help.

Capital Project Justification Form

Project Name	Project ID	Rev#
KIF--DEVELOP FLY ASH, GYPSUM & BOTTOM ASH DISPOSAL CAPACITY	KIF530	0

CSF: Achieve excellence in the Asset optimization and production processes.

I. Project Description

Organization

Owner: FPG
Lead: Yard Operations

Location

Loc: KIF

Technical Contact

Name: HEDGECOTH,MELISSA A
Phone: 423/751-6426

Responsible Mgr

Name: DAVIS,MICHAEL D
Phone: 423/751-7864

Project

Type: Capital
Cat: ASSET PRESERVATION
Prgm: No Program

	Estimated	Actual
Start Date:	07/30/2003	
In-Srvc Date:	09/30/2008	
Outage Date:		

Problem Description

Analysis of recent dike failure in the existing dredge cells has raised uncertainties regarding the current long-term disposal plans for fly ash and bottom ash. An emergency cell was developed (O&M) which will provide a maximum of three years of fly ash and bottom ash capacity. In addition, planned scrubbers for Kingston will produce an additional high-volume by-product which may be co-disposed with fly ash and bottom ash beginning in FY 2009.

Project Scope

Expansion of dredge cell adjacent to existing dredge cell by construction of a new dike. Scope will also include development of a waste stack for flyash bottom ash, and gypsum within the existing perimeter dikes of the active ash disposal area.

Perform detailed analysis to determine the overall structural, environmental, and operational viability of continuing to raise and dredge to the existing dredge cells, considering the recent failure along Swan Pond road and the saturation of the lower dikes along the backwaters of the Emory river.

Perform engineering analysis and collect field data as required to develop a detailed design for maximizing the disposal capacity of fly ash, bottom ash, and gypsum on the existing ash pond complex at the Kingston Fossil Plant while maintaining the required Free Water Volume. The detailed design should consider economic, structural, environmental, and operational issues and impacts associated with long term ash disposal. The engineering suitability of ash currently produced at Kingston for storage in an engineered stack should be verified through testing (if this has not already been satisfactorily completed). A part II permit package is to be submitted to Environmental Affairs.

Scope will also include the design, materials procurement, and installation as necessary to support the engineering study findings.

Performance Measurement

Permitted disposal capacity for fly ash and bottom ash by FY 2007. Permitted disposal capacity for gypsum by FY 2009.

Other Options/Alternatives

Reduce or discontinue plant operations such that no ash is produced, or locate an existing off-site permitted disposal area and pay a tipping fee to haul all of Kingston's ash there.

Reason For Change

New project.

Capital Project Justification Form

Project Name	Project ID	Rev#
KIF--DEVELOP FLY ASH, GYPSUM & BOTTOM ASH DISPOSAL CAPACITY	KIF530	0

CSF: Achieve excellence in the Asset optimization and production processes.

News Release

No Information Available

Capital Project Justification Form

Project Name
KIF--DEVELOP FLY ASH, GYPSUM & BOTTOM ASH DISPOSAL CAPACITY

Project ID KIF530 **Rev#** 0

CSF: Achieve excellence in the Asset optimization and production processes.

II. Project Economic Evaluation

COST		ECONOMIC INDICATORS	
SUNK CAPITAL PROJECTS:	$0	**NPV:**	$8,864.0
SUNK O&M PROJECTS:	$0	**PI:**	1.877
REMAINING COST:	$16,300	**IRR:**	53.0
TOTAL COST:	$16,300	**SIMPLE PAYBACK:**	6
ESTIMATE TYPE:	Order of Magnitude	**BASE YEAR:**	2004

Year	Capital Projects	O&M Projects	Benefit	O&M Base	Environ. Cost
SUNK	0	0	0	0	
OUT YEARS	0	0	0	0	
2004	200	0	0	0	0
2005	0	0	0	0	0
2006	100	0	0	0	0
2007	8,000	0	5,000	0	0
2008	8,000	0	5,000	0	0
2009	0	0	5,000	0	0
2010	0	0	5,000	0	0
2011	0	0	5,000	0	0
2012	0	0	5,000	0	0
2013	0	0	5,000	0	0
2014	0	0	5,000	0	0
2015	0	0	5,000	0	0
2016	0	0	5,000	0	0
2017	0	0	0	0	0
2018	0	0	0	0	0
2019	0	0	0	0	0
2020	0	0	0	0	0
2021	0	0	0	0	0
2022	0	0	0	0	0
2023	0	0	0	0	0

Capital Project Justification Form

Project Name	Project ID	Rev#
KIF--DEVELOP FLY ASH, GYPSUM & BOTTOM ASH DISPOSAL CAPACITY	KIF530	0

CSF: Achieve excellence in the Asset optimization and production processes.

II. Project Economic Evaluation

	Cost Assumptions	Risks
1.	Engineering = $200k in FY 04; $100k in FY 06.	Based on similar projects.
2.	Implementation (Develop by-product handling system.)= $8,000k in FY 07; $8,000k in FY 08.	Conceptual estimate for turn-key system.
3.	No significant marketing or utilization of ash or gypsum will take place. Waste production (cubic yards per year): Fly Ash = 410,000 Bottom Ash = 90,000 Gypsum = 750,000	Based on historical data (ash) and similar projects (gypsum).
4.	The existing dredge cells and ponds shall be utilized to the extent possible to obtain an additional ten years of disposal capacity.	Support of plant business plan.

	Benefit Assumptions	Risks
1.	Haul fly ash and bottom ash offsite to an existing permitted disposal site @ $10/ton for 500,000 tons per year = $5,000k per year for ten years.	Assumes a disposal site can be found within 30 miles of the plant which could handle 500,000 tons per year.

Haber, Stanley M

From: Haber, Stanley M.

Sent: Monday, April 26, 2004 9:14 AM

To: Deskins, Earl L; Gray, Deming; Holmes, James B.; Nelson, Gary R.; Campbell, Linda F.; Rehberg, Robert L.; Nale, Leslie W.

Cc: Keller, Darlene; Petty, Harold L.; Powell, Ronald D.; Miller, Evelyn C.; Hedgecoth, Melissa A.; Smith, Daniel R.

Subject: Kingston Ash Pond-Related Projects (Draft EMPs for KIF530 and KIF531)

Attachments: KIF530 EMP_Appendix H.doc; KIF531 EMP_Appendix H.doc

Tracking:

Recipient	Delivery
Deskins, Earl L	Delivered: 04/26/2004 9:15 AM
Gray, Deming	Delivered: 04/26/2004 9:15 AM
Holmes, James B.	Delivered: 04/26/2004 9:15 AM
Nelson, Gary R.	Delivered: 04/26/2004 9:15 AM
Campbell, Linda F.	Delivered: 04/26/2004 9:15 AM
Rehberg, Robert L.	Delivered: 04/26/2004 9:15 AM
Nale, Leslie W.	Delivered: 04/26/2004 9:15 AM
Keller, Darlene	Delivered: 04/26/2004 9:14 AM
Petty, Harold L.	Delivered: 04/26/2004 9:14 AM
Powell, Ronald D.	Delivered: 04/26/2004 9:14 AM
Miller, Evelyn C.	Delivered: 04/26/2004 9:14 AM
Hedgecoth, Melissa A.	Delivered: 04/26/2004 9:14 AM
Smith, Daniel R.	

Last Friday in our monthly projects meeting we discussed the upcoming FGD projects. Two related project scopes that we discussed are the replacement of the ash pond weirs (KIF531) and the development of dry fly ash storage (KIF530). At this point in time I think that the draft EMPs give a clearer picture of the proposed scope than the PJs do. I am attaching the draft EMPs for these two projects for your information and comment.

Please let me know if you have any questions.

Stan Haber
751.3838
423.580.4830

Project Environmental Management Plan Outline

Prepared by: S.M. Haber/R. D. Powell Date: 4/15/04

1. Detail Description of Project:

KIF530: Scope will include expansion of dredge cell adjacent to existing dredge cell by construction of a new dike (CEC #5718). Scope also includes develpment of a waste stack for flyash, bottom ash, and gypsum within the existing perimeter dikes of the active ash disposal area (involving a future environmental assessment.)

		Environmental Concern? YES	Environmental Concern? NO	Control Measures to be used
2. Potential environmental issues				
A.	**Air**			
1.	Fugitive Emissions:	☒	☐	control of dusting
2.	Open Burning:	☐	☒	_____
3.	New Source Review:	☐	☒	_____
4.	Other: _____	☐	☒	_____
B.	**Water**			
1.	Site / Erosion Control:	☒	☐	for waste stacks and dike slopes
2.	Sewage:	☐	☒	_____
3.	Contaminated Runoff:	☐	☒	runoff will be controlled within diked area
4.	Process Wastewater (adding pollutants or rerouting flows):	☐	☒	_____
5.	Potentially affect:			
5a.	Surface Water:	☐	☒	_____
5b.	Groundwater:	☐	☒	stack will have less impact than existing ash pond
5c.	Drinking Water Supply or Potable Water:	☐	☒	_____
5d.	Wild or Scenic Rivers or Their Tributaries:	☐	☒	_____

Project Environmental Management Plan Outline

		Environmental Concern? YES	Environmental Concern? NO	Control Measures to be used
5e.	Stream on the Nationwide Rivers Inventory:	☐	☒	_____
5f.	Wetlands, Waterflow, Stream Channels, ditches or Stream Banks:	☐	☒	_____
5g.	100-Year Floodplain:	☐	☒	_____
5h.	Unique or Aquatic Habitat:	☐	☒	_____
6.	Other: _____	☐	☒	_____
C.	**Solid Waste**			
1.	Garbage:	☐	☒	_____
2.	Construction/Demolition Waste:	☐	☒	_____
3.	Clearing Waste:	☐	☒	_____
4.	Sandblasting Waste:	☐	☒	_____
5.	Oil Contaminated Waste:	☐	☒	_____
6.	Other (e.g., sand, glass, etc.): _____	☐	☒	_____
D.	**Hazardous Waste**			
1.	Painting Waste (solvents, etc.):	☐	☒	_____
2.	Sandblasting Waste (Hazardous):	☐	☒	_____
3.	Degreasing Solvents:	☐	☒	_____
4.	Corrosive Wastes (acids, caustics):	☐	☒	_____
5.	Pesticides:	☐	☒	_____
6.	Other: _____	☐	☒	_____
E.	**Asbestos**			
1.	Insulation Waste:	☐	☒	_____
2.	Roofing Waste:	☐	☒	_____
3.	Floor Tile Waste:	☐	☒	_____

Project Environmental Management Plan Outline

		Environmental Concern? YES	Environmental Concern? NO	Control Measures to be used
4.	Other: _____	☐	☒	_____
F.	**PCB**			
1.	Handling & Storage:	☐	☒	_____
2.	Liquid Waste Disposal:	☐	☒	_____
3.	Equipment Disposal:	☐	☒	_____
4.	Contaminated Debris Disposal:	☐	☒	_____
5.	Other (capacitors, transformers, etc.): _____	☐	☒	_____
G.	**SPCC/BMP**			
1.	Fuel/Lube/Insulating oil Storage:	☐	☒	_____
2.	Oil Transfer (Procedure):	☐	☒	_____
3.	Other: _____	☐	☒	_____
H.	**Underground Storage Tanks (UST's)**			
1.	Contaminated Soil:	☐	☒	_____
2.	Tank Disposal:	☐	☒	_____
3.	Other: _____	☐	☒	_____
I.	**Above-ground Storage Tanks (AST's)**			
1.	Contaminated Soil:	☐	☒	_____
2.	Tank Disposal:	☐	☒	_____
3.	Other: _____	☐	☒	_____
J.	**Plant or Animal**			
1.	Potentially affect:			
	Endangered, threatened ,or Special Status Species:	☐	☒	_____
	Migratory bird populations:	☐	☒	_____

Project Environmental Management Plan Outline

		Environmental Concern? YES	Environmental Concern? NO	Control Measures to be used
	Unique or important terrestrial habitat:	☐	☒	_____
2.	Potentially take prime or unique farmland out of production:	☐	☒	_____
3.	Contribute to the spread of exotic or invasive species:	☐	☒	_____
K.	**Other:**			
1.	Potentially affect:			
	Ecologically critical areas, federal, state, or local park lands, national or state forests, wilderness areas, scenic areas, management wildlife areas, recreational areas, greenways, or trails:	☐		_____
	Historic structures, historic sites, Native American religious or Cultural properties, or archaeological sites:	☐		_____

Project Environmental Management Plan Outline

3.		Environmental Permits/Notifications	Permit Received? Y	Permit Received? N	Type	Date of Notification
	A.	Air:	☐	☒	____	____
	B.	Water:	☒	☐	NPDES	Verify no impact to discharge permits
	C.	Hazardous Waste:	☐	☒	____	____
	D.	Asbestos:	☐	☒	____	____
	E.	PCB:	☐	☒	____	____
	F.	UST's / AST's:	☐	☒	____	____
	G.	Solid Waste:	☒	☐	____	Going from wet pond to dry stack
	H.	Other (i.e., Spill Notification): ____	☐	☒	____	____

4.		Employee Training	Required? Y	Required? N	Provided / Verified
	A.	Hazardous Waste	☐	☒	____
	B.	Asbestos Competent Person	☐	☒	____
	C.	Emergency Spill/ Prevention	☐	☒	____
	D.	OSHA 1910.120	☐	☒	____
	E.	Other (e.g., Ammonia Awareness): ____	☐	☒	____

5. Emergency Response

Is the Site Emergency Response Plan adequate for this project? If not, a copy of any required additions must be attached to this plan.	Yes ☒	No ☐
Are all environmental concerns addressed in a generic CEC (see Appendix E)? If not, prepare a project-specific CEC.	Yes ☐	No ☒
Do project activities result in environmental concerns?	Yes ☒	No ☐
Are all Appendix E?	Yes ☐	No ☒

Project Environmental Management Plan Outline

If not, prepare a project-specific CEC.

Is a CEC required for this project? Yes ☒ No ☐

	Signatures	**Date**
Project Initiator/Manager:	_____	_____
Site PA(E):	_____	_____
Other Signatures: (as appropriate)	_____	_____
Filed in EDMS	_____	_____

Project Environmental Management Plan Outline

Prepared by: S.M. Haber/R. D. Powell Date: 4/15/04

1. Detail Description of Project:

KIF531: Scope includes replacement of existing weirs (total of 2; skimmer structure to be removed where applicable, and the weirs sealed and abandoned in place). The water level in the pond will need to be drawn down such that the top of the weir is exposed.

It also includes the design and installation of a new weir system. The new system will use a standard TVA weir/skimmer design. Provisions will be made to route the existing lime injection system to the new weir system. Weirs for the new system will be located in the southeast corner of the main ash pond, close to the stilling pond. The height of the stilling basin weirs will need to be raised as part of this project (final height TBD). Piping (permanent) will be installed across the dike separating the main ash pond from the stilling basin to allow the main ash pond to drain into the stilling basin.

The need for an emergency overflow weir in the dike between the main ash pond and the stilling basin, and an emergency weir on the outer dike from the stilling basin to the intake structure will be assessed.

Sheet piling (temporary) will be installed to allow the area where the new weirs will be installed to be pumped out. The existing weirs and limestone injection system will be left in service until the replacement system is installed and functional.

		Environmental Concern? YES	Environmental Concern? NO	Control Measures to be used
2. Potential environmental issues				
A.	**Air**			
1.	Fugitive Emissions:	☐	☒	_____
2.	Open Burning:	☐	☒	_____
3.	New Source Review:	☐	☒	_____
4.	Other: _____	☐	☒	_____
B.	**Water**			
1.	Site / Erosion Control:	☐	☒	_____
2.	Sewage:	☐	☒	_____
3.	Contaminated Runoff:	☐	☒	_____

Project Environmental Management Plan Outline

		Environmental Concern? YES	Environmental Concern? NO	Control Measures to be used
4.	Process Wastewater (adding pollutants or rerouting flows):	☐	☒	_____
5.	Potentially affect:			
5a.	Surface Water:	☐	☒	_____
5b.	Groundwater:	☐	☒	_____
5c.	Drinking Water Supply or Potable Water:	☐	☒	_____
5d.	Wild or Scenic Rivers or Their Tributaries:	☐	☒	_____
5e.	Stream on the Nationwide Rivers Inventory:	☐	☒	_____
5f.	Wetlands, Waterflow, Stream Channels, ditches or Stream Banks:	☐	☒	_____
5g.	100-Year Floodplain:	☐	☒	_____
5h.	Unique or Aquatic Habitat:	☐	☒	_____
6.	Other: _____	☐	☒	_____
C.	**Solid Waste**			
1.	Garbage:	☐	☒	_____
2.	Construction/Demolition Waste:	☐	☒	_____
3.	Clearing Waste:	☐	☒	_____
4.	Sandblasting Waste:	☐	☒	_____
5.	Oil Contaminated Waste:	☐	☒	_____
6.	Other (e.g., sand, glass, etc.): _____	☐	☒	_____
D.	**Hazardous Waste**			
1.	Painting Waste (solvents, etc.):	☐	☒	_____
2.	Sandblasting Waste (Hazardous):	☐	☒	_____
3.	Degreasing Solvents:	☐	☒	_____

Project Environmental Management Plan Outline

		Environmental Concern? YES	Environmental Concern? NO	Control Measures to be used
4.	Corrosive Wastes (acids, caustics):	☐	☒	_____
5.	Pesticides:	☐	☒	_____
6.	Other: _____	☐	☒	_____
E.	**Asbestos**			
1.	Insulation Waste:	☐	☒	_____
2.	Roofing Waste:	☐	☒	_____
3.	Floor Tile Waste:	☐	☒	_____
4.	Other: _____	☐	☒	_____
F.	**PCB**			
1.	Handling & Storage:	☐	☒	_____
2.	Liquid Waste Disposal:	☐	☒	_____
3.	Equipment Disposal:	☐	☒	_____
4.	Contaminated Debris Disposal:	☐	☒	_____
5.	Other (capacitors, transformers, etc.): _____	☐	☒	_____
G.	**SPCC/BMP**			
1.	Fuel/Lube/Insulating oil Storage:	☐	☒	_____
2.	Oil Transfer (Procedure):	☐	☒	_____
3.	Other: _____	☐	☒	_____
H.	**Underground Storage Tanks (UST's)**			
1.	Contaminated Soil:	☐	☒	_____
2.	Tank Disposal:	☐	☒	_____
3.	Other: _____	☐	☒	_____
I.	**Above-ground Storage Tanks (AST's)**			

Project Environmental Management Plan Outline

		Environmental Concern? YES	Environmental Concern? NO	Control Measures to be used
1.	Contaminated Soil:	☐	☒	_____
2.	Tank Disposal:	☐	☒	_____
3.	Other: _____	☐	☒	_____
J.	**Plant or Animal**			
1.	Potentially affect:			
	Endangered, threatened ,or Special Status Species:	☐	☒	_____
	Migratory bird populations:	☐	☒	_____
	Unique or important terrestrial habitat:	☐	☒	_____
2.	Potentially take prime or unique farmland out of production:	☐	☒	_____
3.	Contribute to the spread of exotic or invasive species:	☐	☒	_____
K.	**Other:**			
1.	Potentially affect:			
	Ecologically critical areas, federal, state, or local park lands, national or state forests, wilderness areas, scenic areas, management wildlife areas, recreational areas, greenways, or trails:	☐		_____
	Historic structures, historic sites, Native American religious or Cultural properties, or archaeological sites:	☐		_____

Project Environmental Management Plan Outline

3.		Environmental Permits/Notifications	Permit Received? Y	Permit Received? N	Type	Date of Notification
	A.	Air:	☐	☒	____	____
	B.	Water:	☐	☒	____	Discharge point to stilling pool only changed
	C.	Hazardous Waste:	☐	☒	____	____
	D.	Asbestos:	☐	☒	____	____
	E.	PCB:	☐	☒	____	____
	F.	UST's / AST's:	☐	☒	____	____
	G.	Solid Waste:	☐	☒	____	____
	H.	Other (i.e., Spill Notification): ____	☐	☒	____	____

4.		Employee Training	Required? Y	Required? N	Provided / Verified
	A.	Hazardous Waste	☐	☒	____
	B.	Asbestos Competent Person	☐	☒	____
	C.	Emergency Spill/ Prevention	☐	☒	____
	D.	OSHA 1910.120	☐	☒	____
	E.	Other (e.g., Ammonia Awareness): ____	☐	☒	____

5. Emergency Response

Is the Site Emergency Response Plan adequate for this project? If not, a copy of any required additions must be attached to this plan.	Yes ☒	No ☐
Are all environmental concerns addressed in a generic CEC (see Appendix E)? If not, prepare a project-specific CEC.	Yes ☐	No ☒
Do project activities result in environmental concerns?	Yes ☐	No ☒
Are all Appendix E?	Yes ☐	No ☒

Project Environmental Management Plan Outline

If not, prepare a project-specific CEC.

Is a CEC required for this project? Yes ☒ No ☐

	Signatures	**Date**
Project Initiator/Manager:	_____	_____
Site PA(E):	_____	_____
Other Signatures: (as appropriate)	_____	_____
Filed in EDMS	_____	_____

Haber, Stanley M

From: Hedgecoth, Melissa A.

Sent: Wednesday, March 31, 2004 2:38 PM

To: Haber, Stanley M.

Subject: KIF530 - Develop fly ash, gypsum and bottom ash disposal capacity

Stan,
Just wanted to let you know that I added the subject CPJ to the yard projects for FY04.
Thanks,
Missy