Possum Point Power Station CCB Pond Closures
Project Meeting Minutes

Date:	Feb 27, 2015
Project No.:	C150132.00
Project Title:	Possum Point Power Station CCB Pond Closures
Meeting:	**Constructability Meeting with Glover**
Meeting Date:	Feb 25, 2015
Location:	GAI Richmond Office

Attendees:

Company	Representative	Phone	Fax / Email	Present
GAI Consultants, Inc.	Don Spaeder	412.476.2000, x1404	d.spaeder@gaiconsultants.com	Call in
GAI Consultants, Inc.	John Klamut	724.421.6740	j.klamut@gaiconsultants.com	x
GAI Consultants, Inc.	Mike Lott	804.270.9357, x2511	m.lott@gaiconsultants.com	x
GAI Consultants, Inc.	Kenneth Kinder	304.926.8100, x2608	k.kinder@gaiconsultants.com	Call in
GAI Consultants, Inc.	Tyler Hays	804.270.9357, x2516	t.hays@gaiconsultants.com	x
GAI Consultants, Inc.	Jan Starceski	412-476-2000 x1536	j.starceskiys@gaiconsultants.com	Call in
Dominion	Bob Jackson	804.389.8381	bob.jackson@dom.com	x
Dominion	John Cima	804.273.3045	john.cima@dom.com	x
Glover	John Glover	252.536.2660	jglover@gloverconstruction.com	x
Glover	Mark Glover	252.536.2660		x
Glover	Alen Eudy	252.536.2660	aeudy@gloverconstruction.com	x

Main Discussion Points:

1) **<u>Pond E</u>**

   a) Mechanical vs. Hydraulic Dredging

      i) Glover stated they can mechanically transfer ash from Pond D to Pond E using excavators and Volvo dump trucks. Glover estimates that they can clean close E within 180 days AFNTP. They stated that pond dewatering can begin immediately which would benefit overall project schedule.

      ii) Mechanical dredging may need additional permits

      iii) Hydraulic dredging may impact ability to clean close within 180 days and dewater Pond D on schedule

   b) Will ash need to be hauled offsite?

      i) If ash not transferred to Pond D by Aug 31, it will need to be hauled offsite

gai consultants transforming ideas into reality®

ii) Transferred to other landfills by truck, rail, or barge. Glover rough estimated this cost at around $80/ton tipping fee + hauling cost x 100,000 tons = $8,000,000 - $10,000,000

iii) Possible landfills that will accept flyash may include Waste Management landfills in Charles City County and Waverly, VA, possibly other DOM power plants with an open ash disposal facility such as Chesterfield Power Station, Clover Power Station

c) Access road improvements

i) Temporary ramp will be needed for mechanical dredging

d) Full clean closure vs. partitioned closure

i) Partitioning may be used to allow for water treatment in clean closed area

ii) Partitioning may be used to treat Pond D waters during dewatering

iii) Treatment system may be set up to filter water from metals pond and stormwater/ash laden water from pond E and D disturbance.

2) <u>Pond D</u>

a) Ash transfer from E

b) Dewatering strategies

i) Modifying outfall

ii) Pumping

iii) Use Well points and underdrains to dewater

iv) Adding ash from E and fill

c) Capping needs and strategies

i) Fill from excess soil in dam embankment

ii) Prefer to bring in all fill from onsite borrow area

iii) Bring in offsite soil if necessary, use 13 cy per on-road truck

iv) Sequence cap in 10 acre sections

v) Construct Cap from North to South

vi) Limits of Ash may extend under fill in the northern section of the pond, may need to use historical information to identify limits of capping.

vii) Use clean closed portion of Pond E to treat stormwater runoff from pond E.

3) <u>Pond ABC</u>

a) Clearing and capping strategies

i) Adding soil fill over the entire ABC site vs cut/fill and grading ash

b) Sanitary line relocation is probably required

c) Additional ash dumping area northwest of pond C may need to be moved or capped.

d) Transmission line clearance

e) Stormwater will need to be treated (new sediment pond or filter system) for grading activity.

f) Trees and vegetation must be cleared and grubbed from existing pond dikes per agreement between DOM and DCR

4) Schedule

a) Schedule Updates

i) Additional construction tasks

ii) Add deliverable deadlines

b) Time frame changes

i) Ash transfer timeframe extended to Aug 31

5) General Discussion

a) Estimated 70 acres of liner for closure cap (pond D – 56 acres, pond ABC – 14 acres)

b) Estimated 300,000 – 500,000 cyd of soil will be needed from on-site/off-site borrow pit for closure

c) Estimated dredging cost $4.75/cy – $5.00/cy + mobilization + demobilization

6) Action Items

a) GAI- Temporary access ramp layout and elevation for mechanical transfer of ash from E to D

b) GAI – Coordinate with Oula to discuss permit requirements for new access ramp with PWC

c) Glover- Provide mechanical ash transfer proposal

d) GAI/Glover provide budget cost estimates for the project to DOM by March 13, 2015