

AVS Project 2004-1, RWP
Construction Meeting Notes
July 12, 2006 – 3:00 P.M. CDT

Tie-in / Shutdown Schedule

- Some additional grouting for the interior pipe joints is needed for Segment 2, which extends from Sta 367+00 to 225+25, before HCP is ready to begin filling this section of pipe with water for the hydrotest. The grouters should finish grouting by this coming weekend and then HCP should start filling the pipe by Monday afternoon.
- Over the next three weeks, HCP plans to grout joints and then fill the non-tested pipe sections with water in preparation for the remaining hydrotests.
- An additional 5-man crew should be coming in next week to assist Gus's crew with the hydrotesting and appurtenance work, as Nick's crew will be leaving this Friday, July 14th.
- HCP mentioned that their concrete subcontractor they hired for the intake vault was planning on arriving on site on July 24th. Their subcontractor indicated they only needed approximately one week to construct the concrete slab for the intake vault. Adding at least one week to allow the concrete to adequately cure, would bring the total time necessary to finish the slab to two weeks. Of course prior to any loading, the concrete strength needs to be at 75% of the 28-day strength of 4000 psi, or 3000 psi.
- After discussing the tie-in/shutdown issue at the meeting, it was decided that the potential target date for the north and south tie-ins should be during the week of August 14th. If this date is indeed targeted, this means the concrete subcontractor is not needed on site until around August 1st. HCP will contact them and see if they would be willing to mobilize a week or so later, so that the existing PCCP would not be suspended from the beam for too long of a period. HCP will notify BEPC and B&W as soon as they have a final schedule configured.
- If the week of August 14th holds true for the tie-ins, during the week of July 24th HCP will plan to expose the top half of pipe for the section of existing PCCP that is to be removed for the north tie-in. This length of PCCP will then be inspected by HCP, BEPC, and B&W to determine the pipe's condition and also see if the pipe is deflected in any way. If everyone concurs that the pipe's condition is conducive enough to continue, HCP will continue with the excavation and they will begin transferring the pipe load from the ground to the beam. Once the PCCP is entirely suspended from the beam, the beam will be inspected and monitored to provide assurance that the beam is supporting the PCCP properly. The beam will be surveyed using a level to determine the amount of vertical deflection, and those values will be compared to the vertical

deflection values that were calculated previously by the beam's design consultant. During the days leading up to the actual tie-ins, this beam and PCCP will be checked at least twice a day by BEPC or B&W.

- The potential future weather conditions will also play a role in finalizing the tie-in date. For now, it looks like the week of August 14th or the week of August 21st will work, depending on the HCP's and their subcontractor's schedule.
- BEPC mentioned that HCP can drain a portion of the existing PCCP at the Intake through a 12" bypass, but the maximum flow is unknown.

Deflected Pipe

- The approximate area of the pipe repairs was from Sta. 333+31 to Sta. 315+48, or 1783 feet. Initially HCP estimated approximately 200 CY of CLSM per 500' length of trench. Actual total quantities are closer to 800 CY of CLSM, for 1304 linear feet of trench. This equates to 307 CY per 500' of length. The initial estimate had CLSM poured only to the springline of the pipe. It was recommended by B&W and BEPC that HCP pour the CLSM to 6" above the springline, and this is more than likely the reason for the additional CLSM. HCP will provide tickets for the actual quantities of CLSM placed in this area, and the man hours and equipment hours were tallied, and will be submitted as well. This area has now been backfilled, and the stulls are being pulled. B&W will confirm the vertical measurements later this week and will report the results. Some dry sand was encountered at the south end that was recompacted.
- HCP did contact American Spiral Weld Pipe (ASWP) and had them verify that elongating the pipe from its existing configuration, would not be detrimental to the pipe, lining or coating materials.

Seeding

- Wayne Eisenbeis was contracted by HCP to do some weed spraying on the south end of the project. It was noted by HCP that he still had some spraying left to do on the south half. Jack Holt and HCP will work with Wayne regarding this issue.
- The seeding should commence this fall.

Miscellaneous

- The interface test station at approximate Sta. 392+50 was installed and backfilled by HCP. This work was coordinated with Oliver-Mercer (O-M) and O-M actually made the connection to their cable, but it was not completed as shown on the plans. O-M stated that this was fine and that they had no concerns. John Jacobs with BEPC/AVS will be contacting Clayton Hoffman of O-M to discuss this interference test station, and explain to them the purpose of the station. The plan is to have O-M send a letter to BEPC regarding this issue.

- BEPC has concluded that flushing the new line prior to service is not necessary.
- Coteau will be providing limited security at the Intake, as long as the fence is not up.
- The damaged (dented) pipe at Sta. 245+00 has been jacked out, and mesh has been welded in but is has not yet been grouted. The grouting should take place this week.
- The insulated trench area at approximate Sta. 413+75 will no longer be needed. Coteau's new haul road will intersect the drainage path now and it will be diverted from the west side via new culverts. B&W, BEPC, and HCP reviewed this issue with Ken Link of Coteau including the long terms plans for the haul road and if drainage will eventually be restored back to the way it was. There currently is at least 7' cover over the pipeline.
- Ken wants the tie-in for Coteau's 6" turnout completed before the new pipe is turned over for service. HCP reported that the materials necessary for the tie-in are all on-site and they will install per the plans and submittal data sometime soon.
- Pipeline installation is now completed, minus the last few pieces at the Intake. HCP will continue with backfilling, topsoil replacement, hydrotesting, and appurtenance work.

Meeting Adjourned @ 4:40 PM CDT

Attendance List

Mark Nelson	BEPC/AVS
Perry Kress	BEPC
Gus Mendez	HCP
Nick Marsicano	HCP
Jared Nessler	HCP
Chris Johnson	B&W
Lee Marlow	B&W
James Landenberger	B&W
Ken Link	COTEAU
Chad Edwards	BEPC/AVS
Joe Bichler	B&W
Mike Birrenkott	ICI
John Jacobs	BEPC/AVS
Doug Rothe	BEPC/AVS
Dennis Melland	BEPC/AVS
Jack Holt	BEPC