



MEETING MINUTES

PROJECT: Water Treatment Plant	PAGE: 1 of 2
OWNER: City of Long Beach	PROJECT NUMBER: 08856
MEETING DATE: 2/1/11	CONTRACTOR: Rotschy, Inc.

PRESENT: Rick Gray, City of Long Beach
Gene Miles, City of Long Beach
Casey Danforth, Rotschy, Inc.
Dave Wiebe, PACE Engineers, Inc.

1. COMMENTS ON PREVIOUS MEETING:

- No discussion.

2. SCHEDULE:

- The schedule was discussed in relation to the start-up:
 - A. All electrical work will be completed by February 18th.
 - B. PUD power is scheduled for connection late this week or next week.
 - C. Siemens has a signed contract and should be on-site to re-build the chlorine dioxide generator February 21st.
 - D. With the air compressors on-site, installation and air lines will be completed by February 10th.
 - E. Pall skids, filter racks, and piping connections are complete and ready for testing.
 - F. Testing of Pall equipment by Jerry Hull will resume February 15th-16th.
 - G. WTP start-up is scheduled to begin February 28th through March 18th.
 - H. The only critical path items that aren't secure are the clear-well VTP's and telephone/DSL connections.
 - I. The City has ordered all chemicals needed for start-up and they will be on-site in two weeks.

3. O&M MANUALS::

- No discussion.

4 RFI'S:

- No discussion.

5. PROPOSED CHANGE ORDERS:

- No discussion.

6. CONSTRUCTION ISSUES:

- Rick Gray discussed the clear-well VTP's and shared the performance data provided by Granich Engineering during the design phase of the project. He has discussed this information with Dan Naughton regarding the current status of the pumps being provided by the contractor.
- Rick Gray also discussed the Encore 700 pump that could possibly be used to provide 0.8% chlorine solution to the CHN skid. Rick shared this information with Dan Naughton and he will make a recommendation regarding the pump and possible up-grades in pipe size to the CHN skid.
- Rick Gray met with the Century Tel engineer today and the telephone lines and DSL lines will be installed in the near future.
- Completion of the yard piping and disconnection of a valve were discussed. Casey Danforth is aware of the work that needs to be completed prior to start-up.
- The aluminum wire needed for power to the main impound will arrive by Friday. Northeast Electric intends to pull those wires next week.
- Dave Wiebe will look into larger diameter operating wheels for the CIP butterfly valves. Close to open requires approximately 40 turns. The small wheels cannot be turned easily.

7. CONTRACTOR CONCERNS:

- No discussion.



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8. ENGINEER / CITY CONCERNS:

- No discussion.

9. Q & A:

- No discussion.

10. START-UP SCHEDULE:

- The following tentative start-up schedule is based on information available at this time. It is anticipated that in the next week, deliveries of required materials will firm up, and a more detailed start-up schedule will be provided by Rotschy, Inc.
 1. Pall Corporation on-site participation:
 - a. 1/26 - 1/27 technical support.
 - b. 2/1 – 2/3 set-up membranes.
 - c. 2/15 – 2/16 testing
 - d. 2/28 – 3/18 start-up, technical support/training. Temp gauges, turbidity & pH meters and chlorine analyzers. Air compressors training and maintenance.
 2. Technical support/training:
 - a. 2/24 chlorine generator start-up and training (TMG).
 - b. 2/28 generator start-up and technical training (Kohler??).
 - c. 2/28 chemical feed pump/equipment calibration and training (Furrow Pump).
 - d. 3/1 chlorite analyzer calibration and training (Correct Equipment).
 - e. 3/1 SCM and chlorine dioxide calibration (TAG??).
 - f. 3/2 calibration and training for flow-meters, pressure transmitters, and level indicators (Tourangeau??).
 - g. 3/1 – 3/3 chlorine dioxide generator re-build and training (Siemens).
 3. Chlorination/sanitizing of the clear-well, Pall equipment, and associated piping will be accomplished at the end of the start-up period. The City will provide soluble vitamin C to de-chlorinate the hypo-chlorinated water discharge.