



MEETING MINUTES

PROJECT: Water Treatment Plant	PAGE: 1 of 2
OWNER: City of Long Beach	PROJECT NUMBER: 08856
MEETING DATE: 1/25/11	CONTRACTOR: Rotschy, Inc.

PRESENT: Casey Danforth, Rotschy, Inc.
Darin Kysar, Rotschy, Inc.
Dan Naughton, PACE Engineers, Inc.
Dave Wiebe, PACE Engineers, Inc.
Don Zuern, City of Long Beach
Rick Gray, City of Long Beach
Jake Binoin, City of Long Beach

1. COMMENTS ON PREVIOUS MEETING:

- No discussion.

2. SCHEDULE:

- Casey Danforth provided an updated schedule last week. Schedule was discussed as it relates to the electrical work, and Pall equipment fabrication work in the WTP.

3. SUBMITTALS:

- No discussion.

4. RFI'S:

- No discussion.

5. PROPOSED CHANGE ORDERS:

- Change Order #3 needs to be finalized so that it can go before Council on 2/7/11.

6. CONSTRUCTION ISSUES:

- The vertical turbine pumps, manufactured by American Pump do not meet required performance criteria in the lower flow range. Darin Kysar is working with the manufacturer to determine whether or not the pumps can be brought into compliance. There was a discussion as to whether the pump data would improve at the lower motor RPM levels that will be used due to the VFD's provided.
- The local PUD has equipment it needs to install in the electrical room before start-up. Northeast Electric will coordinate this installation with the PUD.
- All Electrical work/installation of wire for the main WTP feed should be complete this week. It is anticipated that an electrical inspection can be scheduled for February 1st or 2nd.
- Wire for the main impound feed should arrive the week of January 31st.
- A solution for the seismic hold-down bracket problem was discussed. The City believes they have some galvanized 3/8" washers available for the contractor's use. Embedment of the anchorage bolts will be as required in the revised drawing.
- As-built drawings for the civil work that has been completed were discussed. Casey Danforth has kept accurate drawings and will begin red-lining drawings over the next two weeks.
- The need for telephone connections and DSL service was discussed relative to start-up. This is being taken care of by the City.
- Performance requirements for the chemical feed pumps and set points for the various instrumentation equipment is needed prior to start-up. Rick Gray and Jake Binoin will assist in doing this.
- Rick Determined that a small diameter roof vent is needed for the chlorine dioxide equipment. Casey will coordinate this.
- The CHN skid has a neutralization line that will not be used. Rick Gray will try to locate a 2" blind flange to close the line.
- The CHN skid drain will be connected to the hot water tank drain.



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7. CONTRACTOR CONCERNS:

- No discussion.

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. 2/21 – 3/11 start-up, technical support/training. Temp gauges, turbidity & pH meters and chlorine analyzers. Air compressors training and maintenance.
 - d. 2/28 generator start-up.
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.