CITY OF PACIFICA COUNCIL AGENDA SUMMARY REPORT January 28, 2008

AGENDA ITEM NO. 17

SUBJECT:

Authorize Additional Budget Authority of \$69,344.00 for the ATAD Digester Modification Project for the repair of the Sequencing Batch Reactor Tank No. 2 (SBR-2) at the Calera Creek Water Recycling Plant.

ORIGINATED BY:

Public Works Department - Wastewater Division

DISCUSSION:

On November 28, 2007, the City Council at their Special Meeting, approved the purchase order for the Sequencing Batch Reactor Tank No. 2 (SBR-2) Jet Aeration equipment, additional budget authority of \$123,057.00 to purchase this equipment, and a change order with Power Engineering from their original ATAD Digester Modification Project contract to install this equipment and construct the necessary repairs needed.

The sequencing batch reactor (SBR) is a fill-and-draw activated sludge system for wastewater treatment. In this system, wastewater is added to a single "batch" reactor, treated to remove undesirable components, and then discharged. Equalization, aeration, and clarification can all be achieved using a single batch reactor. However, to optimize the performance of the system, two or more batch reactors are used in a predetermined sequence of operations (*EPA 832-F-99-073*, September 1999, US Environmental Protection Agency Office of Water, Washington, DC). The Calera Creek Water Recycling Plant (CCWRP) uses 5 SBR tanks to keep up with the community's demand.

On October 2008, the air and mixing header in SBR-2 broke apart. The manufacturer, Siemens Water Technologies (Siemens), assessed the damages and ordered the parts and equipment needed. Siemens notified staff that the parts and equipment will arrive around February 4, 2008. Because of the importance that the SBR-2 be repaired as soon as possible, it is more economical and time wise to have Power Engineering install this equipment and perform necessary repairs since they are already at the site constructing the ATAD Digester Modification Project.

The past big storm was a challenge to the CCWRP with only 4 SBR tanks working. However, with hard work and attentiveness of the CCWRP staff during this nightmarish time, no major problem came up. We were lucky.

SBR-2 needs to be repaired and working as soon as possible to restore the full functionality to the SBR system.

FISCAL IMPACTS:

Authorize Additional Budget Authority of \$(Amount will be available at the Council Meeting) for ATAD Digester Modification Project for the repair of the Sequencing Batch Reactor Tank No. 2 (SBR-2) at the Calera Creek Water Recycling Plant. – Page 2

The Council had approved \$447,000 contract with Power Engineering Contractors, Inc for the ATAD Digester Modification Project. An additional budget authority of \$69,344.00 for the proposed Change Order to install the SBR-2 equipments and perform the necessary repair is needed

ATTACHMENTS:

• Change Order No. 2 for the ATAD Digester Modification Project with Power Engineering Contractors, Inc.

COUNCIL ACTION REQUESTED:

Authorize Additional Budget Authority of \$\$69,344.00 for ATAD Digester Modification Project for the repair of the Sequencing Batch Reactor Tank No. 2 (SBR-2) at the Calera Creek Water Recycling Plant.

CHANGE ORDER

Owner:	City of Pacifica	Change Order NO.: 1 ISSUANCE DATE: JANUARY 29, 2008		
PROJECT:	ATAD Digester Modification			
Project	-	AMOUNT: \$69,344		
The Contrac	ct is changed as follows: SBR-2 Repair (See Exhibit "A")			
Contractor aga	rees to furnish all labor, materials, equipment th the Contract Documents, except as specifie	and services to perform the work descrid in this Change Order.	bed above, in	
a)The Origi	nal Contract Price was		447,000.00	
b) Net Change in the Contract Price by previously authorized change orders			\$19,750.00	
c) Contract Price before this Change Order			466,750.00	
	69,344.00			
d) Amount of this Change Ordere) The new Contract Price including this Change Order is			536,094.00	
f) The Original Contract Time was				
g) Net change in Contract Time by previously authorized Change Orders				
h) Contract Time before this Change Order				
i) This Change Order increases/decreases the Contract Time Days0				
j) The new Contract Time is			90 working days	
k) The new date for Completion as a result of this Change Order is			June 1, 2008	
The adjustments to the Contract Price and Contract Time in this Change Order include all costs, including direct, indirect, consequential, and overhead (field and home office) costs, related to the Change described above. By signing this Change Order, Contractor agrees to accept the amount of the adjustment to the Contract Price, and the adjustment of the Contract Time, as payment in full for all costs, including direct, indirect, consequential, and overhead (field and home office) costs, related to the Change described above. This Change Order is valid when signed on behalf of the Owner. Receipt is to be acknowledged by the signature of the Architect, the Contractor, and any other entity designated above.				
The City of Pa	acifica.	Contractor:		
		Ву:		
Stephen Rhoo	les, City Manager	Power Engineering		
Ву:				
Dave Gromm Wastewater	, Deputy Director of Public Works			





January 24, 2008

Via e-mail

City of Pacifica Waste Water Division 700 Coast Highway Pacifica, CA 94044 650-738-7472

Attn: Dave Gromm

Subj: SBR Pipe Repair

Dear Mr. Gromm

Power Engineering is pleased to provide a quote to provide all labor, equipment, and supervision necessary for the SBR piping repair. Our lump sum quote for the work is \$69,344. I have broken down the scope of work on the following page.

This quote is based on my site visit and discussions between you, your staff and I. I have listed our assumptions on the following page for your review.

Should you have any questions, please do not hesitate to contact me at 510-337-3800 x235.

Sincerely;

Power Engineering Contractors, Inc.

Kelly Blythe

Project Manager

attachments

Exclusions

- 1. Regulatory permitting by others.
- 2. Testing by others.
- 3. Hazardous materials handling or removal.

Scope of Work

- Mobilize project.
- 2. Remove damaged pipe from digester. Disposal by others.
- 3. Remove existing pipe supports from digester. Disposal by others.
- 4. Place owner supplied pipe and supports into digester.
- 5. Install new pipe supports.
- 6. Install new pipe.
- 7. Complete field make-up of butt joints per Siemens' specifications.
- 8. Make up 20" flanged connection.
- 9. Allow for inspection by Owner's rep/supplier.
- 10. Install top coat on butt joints after approval of supplier.
- 11. Weld in new owner supplied angle iron into new supports.
- 12. Weld off all bolted connections (4 per support) on support.
- 13. Demobilize project.

Assumptions

- 1. Engineering design by others.
- 2. Drawings provided by Siemens (41008008-1000-(M-103)-1) and City of Pacifica (SBR 2 Repair).
- 3. All material unless noted supplied by owner.
- 4. No utilities are to be removed or relocated.
- 5. PEC to supply epoxy for support anchors, and 20" SS316 Bolt-up kit w/ FF neoprene gasket.
- 6. Tank cleaning by others.
- 7. Lights and ventilation by others.
- 8. This is a non-permit required confined space (once lit and ventilated). PEC will supply a top man and all confined space gear for the work.

Budget

Mobilize/Demobilize Project Demo Existing Pipe and Supports New Pipe and Supports into Digester Install New Pipe Supports Install New Pipe Gel Coat Joints	1,178 3,285 1,650 16,256 31,635 8,840
Weld up Pipe Supports	<u>6,500</u>
Total	69,344