CITY OF HOUSTON

Administration and Regulatory Affairs Department
Strategic Purchasing Division

Bill White
Mayor

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December 8, 2009

SUBJECT: Letter of Clarification No. 1
Dry Pit Pump Maintenance, Repair and Replacement Services for the Public Works & Engineering Department

REFERENCE: Invitation to Bid No.: S11-L23436

TO: All Prospective Bidders

This Letter of Clarification is issued for the following reasons:

- **To revise the above referenced solicitation as follows:**

1. In Section "**A**" **remove** pages 5 and 6, of 73 and **replace** with the attached pages 5 and 6 of 73, **Marked Revised December 08, 2009**.

2. In Section "**B**" **remove** pages 11 and 13 and of 73 and **replace** with the attached pages 11 and 13 of 73, **Marked Revised December 08, 2009**.

3. In EXHIBIT "BB" **remove** page 19 of 73 and **replace:** with the attached page 19 of 73, **Marked Revised December 08, 2009**.

4. **Add** EXHIBIT "BB1 and BB2," pages 41A and 41B of 73, **Marked** December 28, 2009.

5. **Electronic Bid Form:**
   Several line items on the electronic bid form have been added; therefore, it is strongly recommended that each bidder review the revised electronic form on the e- bidding site and resubmit their bid based on the line items currently on the electronic bid form.

Note: The changes made as a result of this clarification will invalidate the bidder's on-line bid. Therefore, the bidder should verify the electronic bid form for changes and re-submit its on-line bid.

When issued, Letters of Clarification shall automatically become a part of the bid documents and shall supersede any previous specification and/or provision in conflict with the Letter of Clarification. It is the responsibility of the bidders to ensure that it has obtained all such letters. By submitting a bid on this project, bidders shall be deemed to have received all Letters of Clarification and to have incorporated them into this bid.

If you have any questions or if further clarification is needed regarding this solicitation, please contact me at 832-393-8750.

Sincerely,

Gloria Jordan-King
Sr. Procurement Specialist

Partnering to better serve Houston...

PRE-PERFORMANCE MEETING

Subsequent to contract approval/execution, the contractors shall be required to attend a performance conformance. The Strategic Purchasing Division or the primary user department will host the pre-performance conference. The purpose of the pre-performance conference is for the contractor to introduce his or her project manager to the City staff and for City staff to introduce the contract end-users, contract compliance, and accounts payable representatives

SITE INSPECTION

The City of Houston reserves the right to inspect the bidder's current place of business to evaluate equipment condition and capabilities, staff experience, training and capabilities, and storage capabilities as they relate to the performance of this contract.

The Contractor and its subcontractor(s) shall be ready for the City's "Inspection Team" within 72 hours of a verbal or written notification from the City Purchasing Agent **or** designee.

All tools, all equipment, and the qualified staff required to do the work specified by this contract shall be in place and fully operational and meeting these specifications during a "shop inspection" of the bidder's/contractor's repair facility and its subcontractors.

The Bidder/Contractor shall furnish the City Inspection Team valid documents indicating the facility meets the current OSHA, safety requirements, current EPA, and TNRCC requirements for air and water pollution as related to the equipment at the facility.

FAILURE OF THE BIDDER/CONTRACTOR TO SATISFY THIS REQUIREMENT OF THE CITY INSPECTION SHALL DISQUALIFY THE BIDDER/CONTRACTOR FROM FURTHER CONSIDERATION.

CONTRACTOR'S FACILITY AND INSPECTION

The City intends to inspect the work on its equipment during the course of its repair. This facility shall be equipped to provide the services specified and shall be staffed with qualified personnel. **THIS REQUIREMENT SHALL APPLY TO ALL SUB-CONTRACTORS THAT WILL PERFORM WORK RELATED TO THIS CONTRACT FOR THE CONTRACTOR.**

The successful Bidder shall satisfy the City that the Bidder maintains a repair facility to allow monitoring and inspection of the Contractor's work by User Department Representative (UDR) and/or Contract Technical Representative (CTR), or City of Houston designee. The successful bidder shall maintain a repair facility within one (1) hour driving radius from City Hall located at 901 Bagby, to allow for delivery, pickup, monitoring and inspection of **Dry Pit** at Contractor's location (workplace) by City of Houston Personnel. The City of Houston will monitor the repair of its dry pit pumps on regular basis.

The facility shall meet all Federal, State, and Local Building Codes, regulations of the City of Houston Fire Department and/or local regulations, ordinances, codes, and standards which ***govern such facilities and the equipment therein.***

The facility shall have an area designated as **storage area** for safe storage of the dry pit pump(s) under repair, pump components, and the repaired pump(s) awaiting shipment. This area shall be weather- protected and isolated from teardown, sandblasting, steam cleaning and similar sources of contaminants that could damage the components or the pump(s). The parts and pump assemblies shall be kept off the ground.

The facility shall have an area designated as **teardown area**. The teardown area shall be weather- protected and isolated from storage and assembly areas.

The facility shall have an area designated as **"assembly area."** The assembly area shall be weather protected and isolated from tear-down, sandblasting and similar contaminants that could cause damage to the components or the pump assemblies.

The facility shall have all **the** necessary overhead cranes and/or **"jib"** cranes to handle the pumps equipped with lifting eyes, or similar factory lifting points throughout the repair process. This applies to the Contractor's shop as well as subcontractors' places.

The facility shall have precision V-Blocks or be capable of subcontracting to check the largest size rotor assembly for roundness and run-out, if required. The checking shall be performed using dial indicators.

The facility shall have **balancing machine(s)** to perform dynamic balancing of the largest size rotor assembly. The machine(s) shall provide a printout of the values of "before" and "after" balancing. This equipment may be at the Contractor's shop or at a sub-contractors place.

The facility shall have adequate access for City of Houston vehicles to enter, load, and exit safely without exposing the operator of the vehicle to danger, such as backing in traffic lanes, and crossing medians. This applies to the Contractor's shop.

Each instrument and testing equipment shall bear record of recent calibration. This applies to the Contractor's shop as well as subcontractors' places.

The Contractor shall provide a smoke-free environment for the City Inspector to check the job progress and observe the test-run. This applies to the Contractor's shop as well as sub-contractors' places.

REPAIR TECHNICIANS

The repair technicians of the Contractor shall be qualified, properly trained in repair-recondition of pumps of the type and sizes specified for this contract.

The repair technicians of the Contractor shall have a minimum of three (3) years experience in repair-recondition of pumps of the sizes specified in this contract.

The Contractor shall furnish the resume of the technicians to the City Inspection Team during the Team's visit of the Contractor's facility.

These requirements shall apply to all of the sub-contractors who work for the Contractor.

1.46 At a City location, all machinery and equipment that are undergoing maintenance and repair shall be locked-out/tagged-out (LOTO) to protect against accidental or inadvertent operation when such operation could cause injury to personnel or damage to equipment. Authorized personnel only who may include qualified electricians, mechanics, and operators shall carry out LOTO.

2.0 REPAIR AND REPLACEMENT

2.1 The Contractor shall inspect, repair, and/or troubleshoot the pumps including accessories (sub-assemblies) of the pumps in lieu of replacement unless the repair cost of the pump and or sub-assemblies exceeds seventy (70) percent of the cost for replacing it with a new item. Generally the seventy (70) percent rule applies, but the City reserves the right to purchase or repair units based on pump economic evaluation and various operational considerations.

2.2 The Contractor shall attach quotes/invoices for User Department Representative (UDR) review when submitting work scope. All major components such as impellers, shafts, gears, and gear assembly the repair work scope shall include the cost of a new item as well as the estimated cost to repair such item. Every work scope shall include the purchase price of a new pump identical to the one being repaired.

2.3 The **Contract Technical Representative (CTR)** must approve the purchase of a new unit in lieu of repair.

2.4 Replacement pump and accessories shall be same size and type as the existing ones, unless otherwise authorized in writing by the **Contract Technical Representative (CTR).**

2.5 If the unit is considered to be "non-repairable", the Contractor shall use the schedule in the bid form under "Non-Repairable Shop Cost" to invoice for the work performed by the Contractor to include all costs associated with teardown, reports, and diagnostic.

2.6 Contractor shall use the schedule in the bid form under "Cost to Replace a Unit" to invoice the replacement cost.

3.0 SPECIFIC TASKS AND SCOPE OF WORK

3.1 Upon request from the User Department Representative (UDR) and within one working day the contractor shall inspect the pump at the Wastewater Treatment facility. If repairs can be performed at City facility at the time of inspection, the Contractor shall do the needed repair and release/return the unit to operation.

3.2 Upon request from the User Department Representative (UDR) and within one working day the contractor shall send a crew to perform the field alignment of the pump and the drive of the unit where the City personnel had replaced the drive.

3.3 If the pump can be repaired at City location but additional parts and services are needed, the Contractor shall notify the User Department Representative (UDR) and prepare a scope of the work within forty-eight (48) hours and submit it to the User Department Representative (UDR) for approval. The Contractor, upon receipt of approval, shall complete the repair of the pump within five (5) working days and release/return the unit to operation.

3.4 If the pump cannot be repaired at City location, the Contractor shall notify the User Department Representative (UDR). Within forty-eight (48) hours, the Contractor shall uncouple the unit from the drive, remove from foundation, and load on Contractor's vehicle, and transport/deliver the unit to contractor's repair facility. The Contractor shall ensure that all openings to pipes, inlet and discharge are blocked to prevent entry of rain, dirt, rodents, birds, and crawling animals. The covers for the openings shall be made of metal or plywood of sufficient thickness, strength, rigidity, and shall be secured to resist damage by wind and rainstorm.

3.19 The Contractor shall notify the User Department Representative (UDR) immediately if the Contractor cannot complete the job within the contractually agreed time period of item 3.18. The Contractor shall submit to User Department Representative (UDR) a detailed **written** explanation for the delay with a new schedule to complete the job.

3.20 At all times during the repair process, the Contractor shall maintain City's equipment in a clean and weather protected storage area.

3.21 The shaft assembly shall be checked for total indicated run out (TIR) and recorded on the rotor information sheet. This test shall be carried out on a lathe.

3.22 Shaft seal surface, bearing journals and coupling fit, shall be micrometer checked and recorded on the rotor information sheet.

3.23 End bells and bearing housing critical dimensions shall be micrometer checked and recorded on the mechanical inspection sheet.

3.24 The above measurements shall be submitted to the User Department Representative (UDR), along with other data sheets, during the teardown inspection.

3.25 Replacement bearings shall have an L_{10} rating life in accordance with ANSI/AFBMA equal to or longer that OEM bearing.

3.26 After parts have been repaired, the Contractor shall put together the rotating assembly and balance it. The Contractor shall reassemble the pump, test, seal and paint, as required.

3.27 The Contractor shall prepare the surfaces to be painted to white a "metal finish" by blast cleaning to SSPC-SP5.

3.28 Surface of all units shall be primed and finished, in an approved paint booth, using the pump OEM standard painting system:

3.28.1 The minimum Prime coat thickness shall be 3 mils DFT, **d**ry **f**ilm **t**hickness (DFT).
3.28.2 The minimum finish coat thickness shall be 6 mils DFT, **d**ry **f**ilm **t**hickness (DFT).

3.29 If OEM paint information is not available, the following City of Houston' standard specification for surface coating of pumps and equipment shall be followed:

3.29.1 The primer and finish coats shall be two-component, rust-inhibitive, polyamide-cured epoxy coating with a recoatable finish,
3.29.2 The prime coat shall be Ameron 38P, Tnemec 69, or equal.
3.29.3 The finish coat shall be Ameron 38S, Tnemec 69, or equal.

3.30 No deviation from the paint specification is allowed, unless advance written approval for variance to paint specifications was given by the User Department Representative (UDR).

3.31 The paint color shall be as the OEM standard for such units unless specifically requested otherwise, in written, by the User Department Representative (UDR).

3.32 The Contractor shall return the repaired unit to a City facility, set on foundation, check the leveling of the pump base, couple, precision align the drive / pump / coupling, and reconnect piping. The Contractor shall ensure that all shutdown systems/protections are operational before the test run.

EXHIBIT "BB"

EQUIPMENT and LOCATION / WASTERWATER OPERATIONS

EXHIBIT BB ATTACHMENT DRY PIT PUMP GROUP 1 Fractional HP to 50 HP									
FN	**FACILITY**	**PUMP**	**EI#**	**MANUF**	**MODEL#**	**SERIAL#**	**GPM/HD**	**RPM**	**HP**
6	ALMEDA SIMS	LP3	61966	ITT	250	1-75243-011			50
6	ALMEDA SIMS	WS 1	62043	WEMCO	CE	7893748-2			25
6	ALMEDA SIMS	WS 2	62045	WEMCO	CE	8398573-3			25
6	ALMEDA SIMS	WS3	62047	WEMCO	CE	8396573-1			25
6	ALMEDA SIMS	TSLG 3	62049	GOHMAN RUPP	T4A3-B	795753			10
6	ALMEDA SIMS	TSLG 2	62051	GORMAN RUPP	T4A3-B	791377			10
6	ALMEDA SIMS	TSLG 1	62053	GORMAN HUPP	T4A3-B	795754			10
6	ALMEDA SIMS	NPW 1	62083	AURORA	411-BF	95-07844-1			50
6	ALMEDA SIMS	NPW 2	62083	AURORA	411-BF	95-07844-2			50
6	ALMEDA SIMS	SCM 2	62090	GORMAN RUPP	T4A3-B				
6	ALMEDA SIMS	SCM 1	62092	GORMAN RUPP	T4A3-8				7.5
6	AIMEDA SIMS	SW2	62101	GORMAN RUPP	T4A3-B				20
6	ALMEDA SIMS	SW1	62103	GORMAN RUPP	T4A3-8				20
10	BAYOU TIMBER	1		ALLIS CHALMER					
10	BAYOU TIMBER	2		ALLIS CHALMER					
11	TELEPHONE #1	1		FAIRBANKS	5444C	KZP105711-2	1200	700	15
11	TELEPHONE #1	2		FAIRBANKS	5444C	K2P105711-1	1200	700	
12	BEECHNUT	1		FAIRBANKS		K212069087	770	695	15
12	BEECHNUT	2		FAIRBANKS			770	695	15
13	CONLEY	1		FAIRBANKS	57700		4000		25
13	CONLEY	2		FAIRBANKS	5710	67638	4000		25
14	BERING	1		AURORA		75-10778-1	3000	585	41
14	BERING	2		AURORA		75-10776-2	3000	585	30
16	BISSONNET #1	1	59719	ALLIS CHALMER		1-86559-2-1		695	25
16	BISSONNET #1	2	59721	ALLIS CHALMER		1-86559-1-1		695	10
17	BRADFORD	1		GORMAN RUPP		T3A3-B			
18	WILLOW MEADOW	1		ALLIS CHALMER			750	1159	15
18	WILLOW MEADOW	2		ALLIS CHALMER		1-99323-1-1	750		15
18	WILLOW MEADOW	3		ALLIS CHALMER		1-88337-1-1	750	1150	15
21	STONEY BROOK	1		Z					15

EXHIBIT"BB1"

EQUIPMENT and LOCATION / DRINKING WATER OPERATIONS

EXHIBIT BB1 ATTACHMENT DRY PIT PUMP GROUP 1 Fractional HP to 50 HP									
FN	FACILITY	PUMP/TAG	EI#	MANUF	MODEL#	SERIAL#	GPM/HD	RPM	HP
165	NEWPP	09-P-03	N/A	Netzsch	NM076SYO1LO4K				15
165	NEWPP	09-P-04	N/A	Netzsch	NM076SY01L04K				15
165	NEWPP	09-P-203	N/A	Netzsch	NM076SY01L04K				15
165	NEWPP	09-P204	N/A	Netzsch	NM076SY01L04K				15
165	NEWPP	09-P-03	N/A	Goulds	3196				40
165	NEWPP	09-P-4	N/A	Goulds	3196				40
165	NEWPP	09-P203	N/A	Goulds	3196				40
165	NEWPP	09-P-204	N/A	Goulds	3196				40
165	NEWPP	09-P-01	N/A	Cornell	4NNTL4/M				3
165	NEWPP	09-P-02	N/A	Cornell	4NNTL4/M				3
165	NEWPP	09-P-201	N/A	KSB	SWABLOCK80-250				3
165	NEWPP	09-P-202	N/A	KSB	SWABLOCK80-250				3
165	NEWPP	03-P-08	N/A	Goulds	3180				20
165	NEWPP	03-P-09	N/A	Goulds	3180				20
165	NEWPP	03-P-208	N/A	Goulds	3180				20
165	NEWPP	03-P-209	N/A	Goulds	3180				20
122	SEWPP	BWWP-3171	N/A	Aurora	611				25
122	SEWPP	BWWP-3170	N/A	Auora	611				25
122	SEWPP	TSP-7211	N/A	Vogelsang	VX186				20
122	SEWPP	RSP-7151	N/A	Flygt	3152MT				20
122	SEWPP	RSP-7152	N/A	Flygt	3152MT				20
122	SEWPP	RSP-7154	N/A	Flygt	3152MT				20

EXHIBIT BB1 ATTACHMENT DRY PIT PUMP GROUP 2 Fractional 51 HP to 100 HP									
FN	FACILITY	PUMP/TAG	EI#	MANUF	MODEL#	SERIAL#	GPM/HD	RPM	HP
122	SEWPP	PWP-3181	N/A	Aurora	364A				75
122	SEWPP	PWP-3182	N/A	Aurora	364A				75
122	SEWPP	PWP-3183	N/A	Aurora	364A				75

EXHIBIT BB1 ATTACHMENT DRY PIT PUMP GROUP 3 Fractional 101 HP to 225 HP									
FN	FACILITY	PUMP/TAG	EI#	MANUF	MODEL#	SERIAL#	GPM/HD	RPM	HP
122	SEWPP	PWP-3190	N/A	Aurora	410				125
122	SEWPP	PWP-3191	N/A	Aurora	410				125

EXHIBIT "BB2"

EQUIPMENT and LOCATION / DRINKING WATER OPERATIONS/EAST PLANT

EXHIBIT BB2 ATTACHMENT DRY PIT PUMP GROUP 1									
FN	FACILITY	PUMP/TAG	EI#	MANUF	MODEL#	SERIAL#	GPM/HD	RPM	HP
		601	N/A	Worthington Inc.	4MFC-11	93-33-92618			1800
		602	N/A	Worthington Inc.	4MFC-11	93-33-92618-2			1800
		603	N/A	Worthington Inc.	4MFC-11	93-33-92618-6			1800
		Sludge Transfer Pump	N/A	WEMCO	WD	04317-02			40
		Sludge Transfer Pump	N/A	WEMCO	WD	97W15913			40
		Sludge Transfer Pump	N/A	WEMCO	WD	04317-01			40
		Sludge Transfer Pump	N/A	WEMCO	WD	04317-02			40
		Lime Recirculating Pump	N/A	Watson-marlow/Bredel	O-RP-2021A	20338/19537			N/A
		Lime Recirculating Pump	N/A	Watson-marlow/Bredel	O-RP-2021B	20341/19536			N/A
		Lime Recirculating Pump	N/A						
		Lime Recirculating Pump	N/A						
		Caustic Recirculating Pump	N/A	Dean Pump	1x1-1/2x8 PH 2111	170476			10.5
		Caustic Recirculating Pump	N/A	Dean Pump	1x1-1/2x8 PH 2112	N/A			10.5
		Caustic Recirculating Pump	N/A						
		Caustic Recirculating Pump	N/A						
			N/A						
		Rapid Mix Pump	N/A	Worthington-Dresser	6MF0-11	93-33-92617-1			1800
		Rapid Mix Pump	N/A	Worthington-Dresser	6MF0-11	93-33-92617-2			1800
		Rapid Mix Pump	N/A	Worthington-Dresser	6MF0-11				1800
		Sludge Lift/Metering Stn.	N/A		N/A	N/A			N/A
		Sludge Lift/Metering Stn.	N/A						
		Sludge Lift/Metering Stn.	N/A						
		801	N/A	GE/Worthington Inc.	5CD194 ND803A800-CD368APY				50
		802	N/A	GE/Worthington Inc.	5CD194 ND803A800-CD368APY				50