

THE JAMES LEFFEL & CO.

Manufactures of HYDRAULIC TURBINES

1978 Commerce Circle—Springfield, Ohio USA 45504
Office (937) 322-0116 Telefax (937) 322-0467



September 06, 2011

RFI-0028: Proposal of Additional Work, REV A

Contract: W9127N-10-C-0029

Proposal: Additional Work/Supply per 48 13 13.12 26, Items 5, 6, 11, 12 & RFI-0026

This proposal covers additional work stemming from results of findings and government responses to Submittals 48 13 13.12 26 Items 5, 6, 11, & 12 and RFI-0026.

The proposal only addresses work that is extra, or beyond, what is covered by the specification. In other words, where work involved is part of existing contract work or efforts are a direct exchange, no additional costs are including. This is specifically true with the pump bearing housings. No additional costs are extended for painting of the propeller end cap or for new additional hardware, although this work and supply will be performed.

This revised proposal adds the weld build-up and machining of the propeller blade tip diameter, Submittal 48 13 13.12 26 Item 12

Schedule Impact: None

This revised proposal includes costs to accelerate the remaining schedule in order to have Unit 3 ready for water-up NLT February 03, 2012, ahead of the end of a January 23-February 03, 2012 "in water" maintenance period and with Unit 3 close out by February 29, 2012 per current contract.

The above is based on a NTP date of no later than September 14, 2012.

At a minimum, the following additional submittals will be added to the registry under section 48 13 13.12 26:

Additional Shop Refurbishment Plan per RFI-0028

Additional Shop Drawings per RFI-0028

If and as needed, additional NDT personnel qualifications will be submitted

From Submittal 48 13 13.12 26 Item 5

Lower Pump Bearing Housing

\$ 6,104.00

The additional work & costs center around the rework of the lower locating diameter on the housing. The existing worn band will be removed and a new band of bronze or brass prepared and attached. On site measurements have been taken of the bore in the diffuser where this lower diameter fits to assure a close clearance fit.

Additional work here is to weld repair the gouge on the top side of the bearing. Millings from the bearing will be chemically analyzed to determine the material and the gouge will be prepared, weld repaired, and ground smooth where required.

Shop drawings will be prepared and submitted

Breakdown by CLIN:

CLIN0023	Misc Parts & Materials (Incls. Engr Efforts)		\$ 3,994.00
CLIN0025	Misc Welding	6 lbs	\$ 360.00
CLIN0026	Machinist Hire	10 hrs	\$ 950.00
CLIN0028	Skilled Craftsman Hire	4 hrs	\$ 320.00
CLIN0029	General Labor	8 hrs	\$ 480.00

Upper Pump Bearing Housing

\$ 1,304.00

The only additional work & costs is coverage for engineering and preparation of shop drawings of which copies will be submitted.

Breakdown by CLIN:

CLIN0023	Misc Parts & Materials (Incls. Engr Efforts)		\$ 1,304.00
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Propeller Support Ring

\$ 1,688.00

The additional work & costs center around the refurbishment work as recommended in the submittal including: refinishing thickness, true-up of split lines, re-boring, and painting.

Shop drawings will be prepared and submitted

Breakdown by CLIN:

CLIN0023	Misc Parts & Materials (Incls. Engr Efforts)		\$ 928.00
CLIN0026	Machinist Hire	8 hrs	\$ 760.00

From Submittal 48 13 13.12 26 Item 6

Diffuser Cone **\$ 6,179.00**

The additional work & costs center around the rework of the diffuser cone as recommended in the submittal including: machining of split-line, bottom surface, seal bore, and blasting/painting.

Shop drawings will be prepared and submitted

Breakdown by CLIN:

CLIN0023	Misc Parts & Materials (Incls. Engr Efforts)		\$ 3,609.00
CLIN0026	Machinist Hire	22 hrs	\$ 2,090.00
CLIN0029	General Labor	8 hrs	\$ 480.00

Turbine-Gearbox Coupling **\$ 1,726.00**

The additional work & costs center around replacement of the coupling's rubber element.

Breakdown by CLIN:

CLIN0023	Misc Parts & Materials		\$ 1,726.00
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From Submittal 48 13 13.12 26 Item 11

On-site Machining **\$ 8,853.00**

The additional work & costs center around the field machining of the lower pump bearing mounting flange and diffuser cone mounting flange on the diffuser as well as the upper pump bearing mounting flange on the cover plate.

Breakdown by CLIN:

CLIN0023	Misc Parts & Materials (Incls. Engr Efforts)		\$ 4,733.00
CLIN0026	Machinist Hire	8 hrs	\$ 760.00
CLIN0028	Craftsman Hire	42 hrs	\$ 3,360.00

From Submittal 48 13 13.12 26 item 12

Weld / Machine Propeller Blade Tip Diameter \$ 24,799.00

The additional work & costs center around additional welding and machining of the blade tip diameter.

Breakdown by CLIN:

CLIN0023	Misc Parts & Materials (Incls. Engr Efforts)		\$ 1,449.00
CLIN0025	Misc Welding	75 lbs	\$ 4,500.00
CLIN0026	Machinist Hire	50 hrs	\$ 4,750.00
CLIN0029	General Labor	80 hrs	\$ 4,800.00
CLIN0030	Liquid Penetrant	60 hrs	\$ 9,300.00

From RFI-0026

Dresser Couplings & Pipe \$ 5,563.00

The additional work & costs center around additional inspections/measurements of the coupling components and pipes as well as straightening of the out of shape embedded turbine discharge pipe. Additionally, new gaskets will be provided for the couplings.

Breakdown by CLIN:

CLIN0023	Misc Parts & Materials (Incls. Engr Efforts)		\$ 2,683.00
CLIN0028	Skilled Craftsman Hire	36 hrs	\$ 2,880.00

Summary

Total RFI-0028 Rev A proposal: \$56,216.00

Summary by Submittal/RFI:

Per Submittal 48 13 13.12 26 Item 5:	\$ 9,096.00
Per Submittal 48 13 13.12 26 Item 6:	\$ 7,905.00
Per Submittal 48 13 13.12 26 Item 11:	\$ 8,853.00
Per Submittal 48 13 13.12 26 Item 12:	\$ 24,799.00
Per RFI-0026:	\$ 5,563.00

Summary by CLIN:

CLIN 0023:	<i>(Incls. Engr Efforts)</i>	\$ 20,426.00
CLIN 0025:	81 lbs	\$ 4,860.00
CLIN 0026:	98 hrs	\$ 9,310.00
CLIN 0028:	82 hrs	\$ 6,560.00
CLIN 0029:	96 hrs	\$ 5,760.00
CLIN 0030:	60 hrs	\$ 9,300.00

Sincerely,

Jim Ward
Project Manager
The James Leffel & Co.

Attachments:
Cost Estimate Breakdown
Climax Rental (Portable Flange Facer)
AIT Quote (Dodge Coupling Rubber Element)