



To: Tom Sliwinski  
Company: DuPont Experimental Station  
Fax: 302-695-7775

Date: 9-24-07

Dear Tom,

After refrigerant leak tests were performed as part of the annual maintenance on Chillers #8 and #10 it was noted that there might be a substantial loss through the compressor shaft seals. However, this could not be accurately determined until the chillers were running and seal oil leak rates precisely measured.

Over the past few weeks, while on site, I have monitored the quantities and calculated the following leak rates:

- Chiller #8- 3.95ml/hr
- Chiller #10- 14.7ml/hr

The factory recommended max leak rate and signal for shaft seal replacement is 2.23ml/hr. Both chillers are operating passed this range, especially #10, which may quite well be the cause of its substantial refrigerant loss over time.

We offer to furnish the equipment and services specified herein, at prices stated and in accordance with York Service Johnson Controls, Inc. Standard Terms and conditions. *Pricing good for 30 Days from date of proposal.*

York Service is pleased to submit this proposal for your review: The following is a scope of work to be performed at: **Experimental Station Chiller #8.**

**Scope of work to be performed for each Chiller:**

- **Recover refrigerant into central tank**
- **Remove and replace shaft seal**
- **Check Low Speed Thrust**
- **Check Coupling Alignment**
- **Leak Test with nitrogen pressure**
- **Evacuate and Recharge**

**Pricing for this scope of work.....\$ 9636.00**

**NOTE:** From past experience with this type of compressor coupling, we have found that in some cases the coupling center must be cut off. This part is available from our parts warehouse. If needed please add an additional \$2200.00.

York Service is pleased to submit this proposal for your review: The services detailed herein will be by qualified York Factory trained Technicians, between the hours of 8:00 a.m. to 4:30 p.m. Monday through Friday.

Upon your approval, please forward your purchase order to my attention so that work can begin. Any questions please call my cell phone at 302-275-3680 (Fax 302-996-0461)

Regards,

Joe Reilly  
Service Sales Representative

Jeff Collins  
Area Manager Delmarva

Accepted by: \_\_\_\_\_

P.O. \_\_\_\_\_

Date: \_\_\_\_\_