

Region: 5

Location: VA049

CSS #: 21208

Maximo Work Order No.: 10617

Asset #: NA

Date Issued: 10/4/19

Original Description:

Drain building chilled water system and replace with 30% pre mixed glycol. Highly recommended by CMI to protect system Bond Chemical

Repairs Needed:

Proposal to Clean, Drain, and Fill Chill Water System with 465 Gallons of 30% Propylene Glycol mixed with De-ionized water to result in a target freeze point of 7-9 degrees F.

Customer agrees to: Estimated volume of loop being 465 gallons based on chemical addition calculation.

500 total gallons will be provided to fulfill if estimate is off by 10%. If extra glycol exists, it will be placed in mechanical room to replenish system if any repairs or leaks occur. See attached quote for additional detail.

RS Means Line Buildup and Labor Summary (Data Version 2017, Q4):

Quantity	Line Item Number	Description	Labor Hours	Labor Rate/Hr	Materials	Equipment	Total
--	NA	Materials (See attached Detail)	--	--	\$4,900.08	--	\$4,900.08
--	NA	Equipment (See attached Detail)	--	--	--	\$500.00	\$500.00
--	NA	Bond Labor (See attached Detail)	48	92.5	--	--	\$4,440.00
--	NA	TW Onsite Mechanical Assistance	24	80	--	--	\$1,920.00

Estimate Summary:

Labor Hours	Labor Cost	Materials	Equipment	Total Cost	CE Factor	Total Estimate
72	\$7,060.00	\$4,900.08	\$500.00	\$12,460.08	100%	\$12,460.08



December 5, 2019

Adam Colopy
Tidewater
VA-049
6700 Strathmore Rd
North Chesterfield, VA 23237

Proposal to Clean, Drain, and Fill Chill Water System with 465 Gallons of 30% Propylene Glycol mixed with De-ionized water to result in a target freeze point of 7-9 degrees F.

Customer agrees to: Estimated volume of loop being 465 gallons based on chemical addition calculation.

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We Propose:

- Perform site analysis
- Pump in 10 gallons of BOND 8050 closed system cleaner for 12-24 hours
- Drain entire estimated volume of loop 465 gallons.
- Add 465 gallons of glycol to system via an air compressor and 200 feet of $\frac{3}{4}$ " hose. This will yield a target freeze point of 7 to 9 degrees F.
- Perform lab analysis to insure proper freeze point protection.

***Note:** Customer will need to store glycol (outside if necessary) on site for a short time while preparations are made to arrive on site and successfully install glycol.

***Note:** Bond will require an engineering technician from Tidewater to be on site during the cleaning, system draining and glycol addition.

***Note:** Chill Water System circulating pumps need to be turned on for cleaning, and offline for system draining and glycol addition.

***Note:** Customer will be responsible for disposing of empty glycol 55 gallon barrels.

Materials:

440 Gallons Intercool P-300 30% Propylene in 55 Gal Drums--	\$3,610.00
60 Gallons Intercool P-300 30% Propylene in 5 Gal Drums--	\$644.90
10 Gallons of BOND 8050 Closed System Cleaner --	\$125.93
200 feet industrial hose--	\$190.68
Glycol Delivery Lift Gate Charge --	\$60.00

Labor and Equipment Rental:

1 Lead Project Manager -- 24 hours/\$120.00 --	\$2,880.00
1 Assistant Technician -- 24 hours/\$65.00 --	\$1,560.00
Air Compressor Rental --	\$300.00
Air Compressor Delivery and Pickup --	\$200.00

Overnight Accommodations/Food Stipend:

2 Nights Lodging --	\$300.00
3 Days of Food Stipend --	\$300.00
Extra Fuel Surcharge --	\$100.00

<i>Total</i>	\$10,271.51
<i>Tax</i>	\$268.57
<i>Total Inc Tax</i>	\$10,540.08

Bond Water Technologies, Inc.
Acceptance

Tidewater
Acceptance

Signature Jon Miller

Print Jon Miller

Date 12/5/19



QUOTATION

TO: Tidewater VA-049 6700 Strathmore Rd. North Chesterfield, VA 23237	DATE OF QUOTATION: 12/5/19			
Attention: Adam Colopy				
RE: Glycol Material Quotation for VA-049	Terms: Net 30 Days			
	F.O.B. Gaithersburg, MD			
	Delivery:			
	Quotation Firm: 60 Days			
Quantity	Description	Price	% Markup	Amount
440 Gal	Intercool P-300 Propylene 30% mix with De-ionized water. 55 Gallon Drums	\$6.45/gal	20%+tax	\$3,610.00
60 Gal	Intercool P-300 Propylene 30% mix with De-ionized water. 5 Gallon Pails	\$8.45/gal	20%+tax	\$644.90
10 Gal (90 lbs)	BOND 8050 Closed System Cleaner	\$1.10/lb	20%+tax	\$125.93
2 each	100 Foot 3/4" Industrial Hose	\$74.95	20%+tax	\$190.68
Customer Authorization to Purchase Items:	Total Amount of Quotation: Tax Total Including Tax	\$4,476.17 \$268.57 \$4,744.74		

PLEASE DIRECT INQUIRIES REGARDING THIS QUOTATION
to: Jon Miller, CWT at (301) 580-9820

BY: Jon Miller, CWT

