

April 27, 2018

Tammy Lambdin
International Support Group
Army Reserve Center VA011
Industrial Park Road
Culpeper, VA 22701

RE: Water Source Heat Pump Replacement

After meeting with the controls contractor and performing a walkthrough at VA011 on April 19th, there were numerous units found inoperable, several of which were known of. In a report dated January 18, 2018, an assessment of all 17 water source heat pumps was conducted aside from HP #13 which wasn't located at that time. In the assessment it was noted that units # 5, 6, 8, and 12 all had leaks. A leak search was performed on those units and none of the leaks could be found. The units would have to be removed from the ceiling and disassembled to do a more intensive leak search.

During the April 19th walkthrough, unit # 13 was found to have no refrigerant as well. Along with the units that have leaks, there were three units found to have bad compressors, units # 4, # 10, and # 17. Unit # 17 was replaced and # 4 had the new compressor installed. Unit # 2 had a stopped-up heat exchanger which was replaced. However, upon startup of unit # 2 it was found to have a bad compressor. The compressor was checked on January 18th and was operational at that time. Also, unit # 16 was found on April 19th to have very little refrigerant in it. On the January 18th assessment, unit # 16 only needed the JW3 jumper cut. It has since lost most of its charge.

Lastly, unit # 14 was found to have very little refrigerant in the circuit. The charge was good on the January 18th assessment. That leaves us with a total of nine units that need extensive repairs. Our recommendation is to replace the units and forego repairs as there is no guarantee that the leaks can be found and it will in all likelihood cost less to replace as opposed to attempting repairs with no guarantee of success. Attached are listed the units and the cost to replace all nine. Let me know if there are any questions or concerns regarding this proposal.



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Units in need of repair/replacement:

Unit # 2 M/N GCH009BGM30CRSS

Unit # 5 M/N GCH018BGM30CRSS

Unit # 6 M/N GCH024BGM30CRSS

Unit # 8 M/N GCH018BGM30CRSS

Unit #10 M/N GCH009BGM30CRSS

Unit #12 M/N GCH024BGM30CRSS

Unit #13 M/N GCH024BGM30CRSS

Unit #14 M/N GCH024BGM30CRSS

Unit #16 M/N GCH009BGM30CRSS

For the sum of.....\$ 28,198.00

Please contact me with any questions or concerns regarding this proposal. Thank you
for allowing us the opportunity to present this to you.

Angel R. Fernandez

Signed: _____

A handwritten signature in black ink, appearing to read 'ARF', is written over a horizontal line.

Accepted: _____