



# DEPARTMENT OF THE AIR FORCE

71ST FLYING TRAINING WING  
VANCE AIR FORCE BASE OKLAHOMA

MEMORANDUM FOR AFCEC/CO

10 July 2020

FROM: 71 ISS/CE  
140 Channel Street, Suite 101  
Vance Air Force Base, Oklahoma

SUBJECT: Chiller System Manufacturer Standardization Request

1. The 71<sup>st</sup> Installation Support Squadron, Civil Engineer Flight conducted a series of analyses to justify the use of a sole manufacturer for Heating, Ventilation, and Air Conditioning (HVAC) chiller units. As a result of the analyses, Carrier Corporation has been identified as the requested single manufacturer of chiller systems to be used on Vance Air Force Base, Oklahoma.
2. A comprehensive inventory control analysis was completed by a team comprised of the Civil Engineering Operations Mechanical Engineer and the HVAC shop Work Supervisor. The following data was compiled from this analysis and represents the current chillers in use here at Vance AFB.

| Manufacturer | # Units | Percent of | Component Replacement Value | Average Remaining Service |
|--------------|---------|------------|-----------------------------|---------------------------|
| Carrier      | 20      | 54.1       | \$ 2,077,333.00             | 4.9                       |
| McQuay       | 2       | 5.4        | \$ 157,500.00               | 13                        |
| Trane        | 12      | 32.4       | \$ 1,546,857.00             | 7                         |
| TSI          | 1       | 2.7        | \$ 43,571.00                | 0.1                       |
| York         | 2       | 5.4        | \$ 271,920.00               | 18                        |

3. A supply chain analysis was completed by the Chief of Material Control. Three local companies (Oklahoma City OK, Tulsa OK, and Wichita KS) have been identified that can meet future demand requirements, and there is adequate competition to mitigate fluctuations of component and servicing pricing. Carrier equipment is also listed on the General Services Administration (GSA) contract which pre-determines unit pricing.
4. As shown above, Carrier systems are currently installed on over half of the facilities here on Vance AFB, OK. Given the high percentage on the installation, technicians have significantly more experience and familiarization working with Carrier equipment over the other brands of HVAC manufacturers currently in use on the base. For this reason, Carrier is the logical choice for the sole manufacturer of HVAC systems on Vance AFB.
5. An approval of this initiative will allow the installation to significantly reduce the total cost of ownership to include the initial procurement, subsequent maintenance, and associated training costs

with these systems. An approval memorandum from AFCEC/CO is requested to concur with the above findings.

6. Please refer any questions to me, Mr. Stephen Stimson, DSN 448-6248, [stephen.stimson@us.af.mil](mailto:stephen.stimson@us.af.mil).

7/16/2020

**X** Stephen A. Stimson

Stephen Stimson GS-13 DAF

Functional Director, Civil Engineering

Signed by: STIMSON.STEPHEN.ANDREW.1123032418

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