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20 May 1976

MEMORANDUM FOR THE RECORD

SUBJECT: Market Research - Additional Chiller Capacity,  
[REDACTED]

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1. Subsequent to the MAX III outage which occurred during the unusual heat wave experienced in the Metropolitan Area in late April 1976, an urgent requirement was directed from C/RECD, C/[REDACTED] and C/ENG/[REDACTED], to establish sufficient air conditioning availability/reliability for the existing system [REDACTED]. A practical solution to the problem was presented by providing for the installation of redundant air conditioning equipment which would be compatible with existing installed chiller units, as well as allowing rapid integration with the existing facilities' electrical power distribution system and associated air conditioning appurtenances. As a result, a search was initiated to contact and discuss with manufacturers the availability of air conditioning chiller central package units that could meet all established criteria, including installation prior to the 1976 summertime cooling season.

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2. Requirements for the proposed chiller package unit were defined as follows:

Unit to be designed for operation on a 208 Volt, 3 phase, 60 HZ electric power distribution system. Unit to be nominally rated 90 Ton and shall contain dual or more reciprocal compressors, a single chiller complete with air cooled condensers, and manufactured specifically for outside mounting. Unit to allow interconnection with existing air conditioner chillers presently installed on-site with minimum disruption of existing service. Compatibility was further described as having adjustable return water temperature control, low inrush (start up) current, compressor serviceability, automatic recycling pump down, and inherent protection devices. Finally, equipment availability, installation capabilities by suppliers and desired warranties must be considered.

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SUBJECT: Market Research - Additional Chiller Capacity Page 2

25X1A

3. A summary of the results of the search is as follows:

(a) Trane Industries Incorporated: Delivery schedule, minimum of 8 weeks. Can only provide single drive compressor on chiller with the disadvantage of causing substantial current draw down on start up. Quoted cost for installation (less control for integrating with existing Honeywell system) \$44,990.00 through recommended mechanical installer.

(b) General Electric - Only maximum 44 Ton capacity manufactured.

(c) Fedders Corporation - Maximum 86 Ton capacity with 20 weeks lead time.

(d) Carrier - Acceptable unit available with 12 weeks lead time after placement of order.

(e) Lennox Industries - Manufactures only air-to-air unit in required size which is not compatible with existing installed equipment.

(f) Westinghouse - Manufactures only to 33 Ton in demanded requirements which is not sufficient.

(g) York Air Conditioning Incorporated - Can provide 91 Ton unit with 4 compressors meeting all requirements for immediate delivery and installation through recommended mechanical subcontractor. Quoted cost for installation (less controls for interfacing with existing Honeywell system) is

(h) Climatrol - 88 Ton capacity available with 6 week delivery after placement of order. Unit contains single compressor with excessive current draw-down.

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