

~~ADMINISTRATIVE-INTERNAL USE~~

DATA CENTER OPERATIONS BRANCH

NDS OPERATIONS PROCEDURE MANUAL  
NO. P-A001

SYSTEM SW & HW  
13 April 1983

AIR CONDITIONING PROBLEMS

SYMBOLIC TITLE: N/A  
PROGRAMMER:

~~ADMINISTRATIVE-INTERNAL USE ONLY~~

P-A001

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13 July 1977

MEMORANDUM FOR: All Computer Ops. Personnel

SUBJECT : Procedure in the Event of Air-Conditioning Problems

1. Until the installation of an automatic temperature alarm system, I am asking the shift supervisors and their operators to monitor the computer room temperatures very closely. There is a temperature recorder located on the console in the 1110 computer room, which is to be used as the monitoring device. This recorder requires winding like a clock, and should be wound each morning. The recording chart does not require changing each day, but approximately every three or four days, unless of course there has been recorded a significant temperature change in which case I will require that chart for my records.

2. The following are steps to be immediately taken in the event of a significant temperature change. The chart usually records room temperatures between 72°/73°, so I would suggest that temperature readings of 75° or better are significant. Lower temperatures are not as crucial or critical as higher temperatures, unless they record below 68°:

a. In the event of a significant temperature change, immediately notify myself or the Branch Chief's. We in turn will contact the Logistics Branch, and alert Ron Wootters' section (PSS). After normal duty hours and on weekends the shift supervisor should immediately notify Security.

b. If we are informed that we have lost our air-conditioning, but will be returned to us in 5 or 10 minutes, then begin shutting down all equipment not needed. If the outage will be longer than 10 or 15 minutes then it is suggested you begin to shut down the entire computer systems, and remain down until temperatures have stabilized.

c. If it becomes necessary to go completely down then be sure to notify all persons concerned, Ops. Officers, Univac C.E.'s, etc.

d. In regards to 1782 drums and disk drives the only immediate steps necessary are to lift heads and retract heads, leaving drums and drives rotating.

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U1110

Operating Requirements:

- a. Temperature - 65 degrees F to 80 degrees F.
- b. Humidity - 35% to 70%.

The same design points should be selected as listed for the U494.  
If the false floor is used on air plenum the following design point should be selected.

Temperature - 65 degrees F  $\pm$  2 degrees

Humidity - 60%  $\pm$  5%

Fluctuations of the environment contribute most to unreliable operation, however, operating with a room temperature of 76 degrees F/80 degrees F or a plenum temperature of 70 degrees F/75 degrees F would show their effect.

Thank you for allowing me to be of assistance in this matter.

Sincerely

[Redacted Signature Box]

Account Representative

STAT

RAM:lm

March 2, 1976

Central Intelligence Agency  
Washington, D. C. 20505

STAT

Genlemen:

At your request, the following are Sperry Univac's recommended specifications for your UNIVAC 494 and 1110 equipments.

U494

Operating Requirements:

- a. Temperature 60 degrees F to 80 degrees F.
- b. Relative humidity 30% to 70% not to exceed a dew point of 61 degrees F.

Although it appears at first glance that operating conditions may vary over the entire range, it is not intended to imply that control is not required. A design point should be selected and maintained under normal operation within the following limits:

Temperature -  $\pm 2$  degrees F

Relative Humidity -  $\pm 5\%$

Linear Change - 10 degrees per hr. max.

It is recommended that the following design point be selected.

Temperature - 72 degrees

Humidity - 50%

Non Operating:

- a. Temperature - 50 degrees F to 94 degrees F.
- b. Humidity - 20% to 85% not to exceed a dew point of 67 degrees F.
- c. Linear Change - 20 degrees per hr. max.

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e. On a computer shut-down it is absolutely necessary to call the Univac C.E.'s and inform them of our situation. They should be present to power the computer systems back-up.

STAT

Chief, Computer Operations Section,  
COB/CSD/PSG