

April 24, 1969

6903-14

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Present:

The main reason for the meeting was the discussion of the foundation.

1. The size and weight of the foundation were established. 6-8 x 11-0 x 7' plus or minus. The weight of the base with the N.R.E. sitting on top amounts to 110 kips.
2. The Young modules of the soil was chosen and the natural frequency of the base was calculated to be 76 cps. This number was far above the range that could prove detrimental.
3. With the establishment of the bases response, we looked at vibration caused by a stage of the equipment and the influence on a "soft" base.
4. It was decided that the concrete base should be as heavy as possible and it should sit on a bag of sand enclosed in polyethylene to prevent intrusion of moisture and silt.
5. The discussion turned to the amount of air and the temperature rise of that air being supplied to CVR 10 and CVR 11. Using general parameters, it was decided to double the air pressure, thereby hoping to double the quantity, thereby halving the temperature rise at the point of use. This will entail higher pressure ducting, humidity control not required previously, and of course, more horsepower.
6. The advent of more and higher pressure air led to the request for more nozzles for possible more hoses as they may be required.
7. The ability to attach and run more hoses at later date led to the requirement that several pipes be placed thru the foundation for future cables, hoses or whatever. These are to be below the grating level.
8. The black box capacity was discussed at length. It was decided that the capacity would be increased. The pressure would be raised. There would also be two different pressure uses.

50 psi - 50 cfm
12-1/2 psi - 25 cfm

Declass Review by
NIMA/DOD

The 50 psi - 50 cfm will have dual instrumentation.
H humidity T temperature

This will be accomplished by having a constant bleed of 2 cfm to atmosphere.

The 12-1/2 psi 25 cfm will also have dual instrumentation.
H humidity T temperature

This will be accomplished by having a constant bleed - 1cfm
to atmosphere.

N.B. The installation of sensing element to be at air outlet
point by

This 25 cfm is piped to 4 outlets, any two of which can be functioning
at one time.

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