

F4.

DEFENCE SIGNALS DIRECTORATE

MINUTE PAPER

REFERENCE:

18/11/2

SUBJECT:

See Sec comment below of 49
~~ADD~~
through
SE 217/8
ADD 21/8

Declassified by ASD - 04/03/2022
Information removed for national
security and/or personal sensitivities

For information:

SM
AP

MARSIK 400 HZ POWER SUPPLY

1. Locations proposed to date for major 400 Hz equipment items are 4th floor plant room (M-G sets) and 2nd floor plant room (isolating transformer) ... - refer to Annex A, Sketch 1. Cable runs are long, and losses high.
2. To reduce cable lengths, space for the M-G sets has now been identified in the 2nd floor plant room, producing a layout as per Annex A, Sketch 2. However, no room can be found for the isolating transformer on the 1st floor level to get it closer to the 400 Hz load.
3. The primary purpose of the transformer, as I understand it, is to provide an isolated power neutral which may be connected to the screened enclosure's earth. The siting at the same physical position of an alternator with isolated neutral offers the same facility directly, rendering the transformer redundant. Its removal would provide major assistance with the problems of 400 Hz regulation and distribution losses quite apart from the savings in cost and space. *1 agree
no
Sec
29/8*
4. Your comment is requested please as to any TEMPEST impact resulting from removal of the transformer.

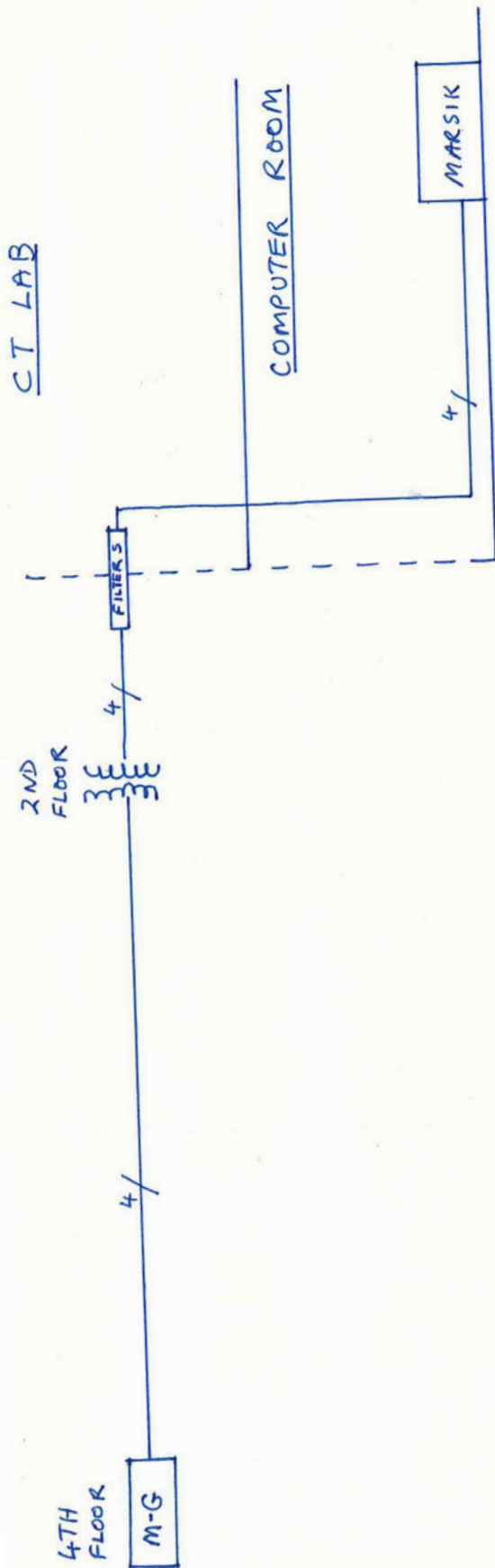
A/STE

17 August 1984

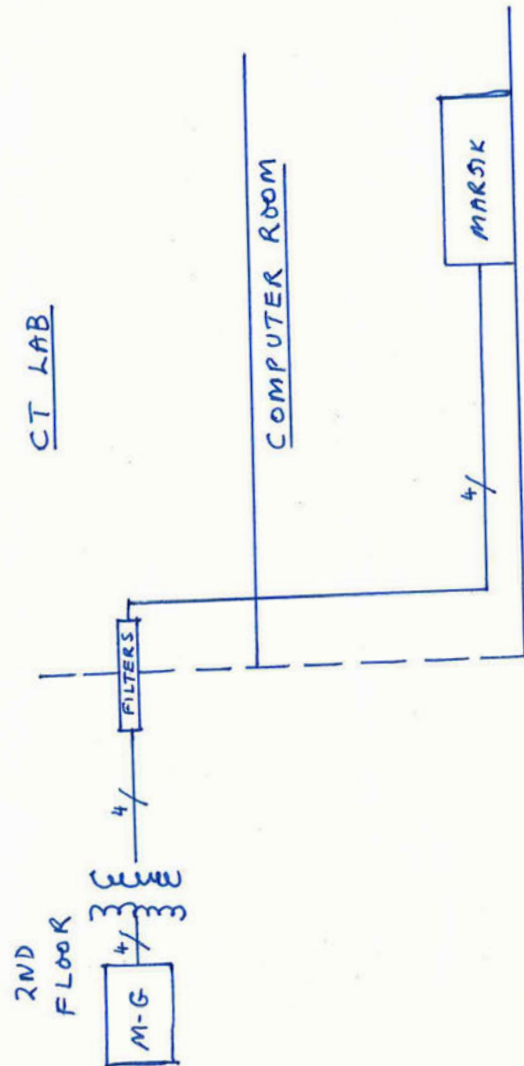
*I have informed A/STE that
the thr as per para 3 is
not reg'd in my view. JSC 29/8*

EX-100-10

ANNEX A
TO STE
MINUTE 18/11/2
OF 17 AUG 84



SKETCH 1



SKETCH 2