

OIA-14/78
13 February 1978

MEMORANDUM FOR: Chief, Support Staff, NPIC

ATTENTION : [redacted] Logistics Branch, SS/NPIC

SUBJECT : Request for Support - Remote Location of Vacuum Pumps

1. OIA expects delivery of a new comparator about March 15, 1978. A key component of this comparator is a small pump which generates vacuum for the film hold-down system. While every effort has been made to insulate and isolate the noise generated by this pump, the noise level remains unacceptable for normal office conditions. Thus, this pump must be installed in some remote location, outside any occupied office spaces in [redacted]

2. This problem has been the subject of considerable discussion between [redacted] OIA's photogrammetrist, and [redacted] of the Logistics Branch, SS/NPIC. [redacted] have identified a suitable site for this pump on the ground level of [redacted] immediately adjacent to the east wall of [redacted]

3. The installation of the pump will require running a one inch diameter vacuum line of a rigid material (either hard copper or PVC pipe) from the pump site to the comparator located in Room 3N180 (see floor plan, Attachment 1). An electrical conduit running parallel to the vacuum line will be required to carry the necessary wiring to monitor and control the pump from the comparator console. A 220V service will be required at the pump location.

4. The path that the vacuum and control lines would take from the pump to the comparator seems to be un-obstructed. The lines would leave the comparator and run through the ceiling space from Room 3N180 to the east wall of [redacted]. They would then pass through the wall and run straight down the interior wall of [redacted] to the ground level pump location (see Attachment 2).

5. We realize that we are giving you rather short notice on this problem. We first became aware of the need to remotely locate this vacuum pump during the pre-acceptance tests conducted at the contractors facility during the week of 30 January-4 February. The film hold-down system on the comparator was redesigned, which required a higher capacity vacuum pump than originally planned--with the higher capacity pump came the noise pollution problem. We expect delivery of the comparator on 15 March, with acceptance testing scheduled for the week of 20 March--we would greatly appreciate it if the vacuum and control conduit lines could be available by 20 March.

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6. On a separate, but related problem--as you may know, OIA now has one comparator in use with a vacuum pump (of a smaller capacity) remotely located in an interior hallway. Although this pump is smaller and considerably quieter than the large pump discussed above, it generates an objectionable noise level in the hallway and adjacent offices. Relocation of this pump to [redacted] would be highly desirable, and it appears that this could be done in conjunction with the installation of the new pump at only a small increase in cost. Both pumps are physically small and it appears feasible to use shelving to install one above the other so that no additional floor space would be needed in

[redacted] Unfortunately the comparator designs dictate the use of independent isolated vacuum sources, so that use of a single large vacuum pump for both comparators is not possible. The second pump will require a separate vacuum line and control conduit running parallel to those installed for the larger pump discussed in paragraphs 3 and 4 above. The smaller pump also requires a 110V service at the pump location. If you agree on the feasibility of collocating these two vacuum pumps, please include the relocation of our present pump in the work orders for installation of the new pump.

7. [redacted] assistance and your support in the solution of these problems, particularly in view of the rapid response required, is greatly appreciated.

[redacted]
Deputy Director
Imagery Analysis

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Attachments:
As stated

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