

April 8, 1965

PROCESSOR DEVELOPMENT PROGRAM

The processor development program was initiated at [] last summer with an extensive work statement for investigation of factors affecting film handling and film developing. It was anticipated that the program would be a continuing one and the work statement included far more work than could be accomplished in one year. A complete program was outlined and categorized by general priority rating to permit [] to tackle the most promising items first.

STAT

Of major importance was the clean room activity. A [] stainless steel clean room was installed []. The purpose was to obtain factual experimental data on how clean an area needed to be for film processing, reproduction, and interpretation. On the one hand, the classical approach of the movie industry and recon squadrons is a very relaxed requirement for cleanliness. On the other hand some of the new government labs have required filtering down to 5 micron particles or less. As the permitted particle size goes down, the pump size, filter size and cost go up drastically. Five micron filtering is much more costly than 25 micron filtering. There is little if any actual data on the effect of particle size.

STAT
STAT

[] started fabrication of the clean room components last summer. The installation at [] began in November, 1964, and was completed in late February, 1965. The room is now being operated by [] to adjust and balance the instrumentation in preparation for final acceptance [].

STAT
STAT

As a result of their struggles with [] believes that clean room specifications need to be much more exacting and detailed. Otherwise it is extremely difficult, if not impossible, to obtain construction and joints adequate for clean room requirements. Procurement and installation of the clean room has taken an inordinate amount of time and the rest of the program has suffered.

STAT

The work on liquid bearings, air bearings, vacuum capstans, etc., got off to a very slow start. For one thing, [] management did not assemble a technical team for

STAT

Declass Review by NGA.

Processor Development Program

April 8, 1965

-2-

STAT
STAT
the work until November, 1964. Some good work is just now starting to come out. In addition to poor manpower programming [redacted] management, one other problem has hampered the program. [redacted] who is in direct technical charge of the program, is unable to communicate directly with the customer due to his clearance status.

STAT
[redacted] was quite disappointed in the level of funding planned for continuation of the work beyond the present contract. They have therefore proposed what is in their opinion a best use of the available funds. They proposed to concentrate their efforts on the clean room studies for a six-month period. I suspect they are correct, but it certainly leaves the rest of the program untouched.

[redacted]

STAT