

5 April 1969

Subj: Significant facts concerning SISS ZWLU site survey:

1. During the past year the SISS ZULU data collection system has undergone significant transition from the Historic Analog system to the Futuristic Field-Digitizer system. These shall be described in some detail as follows:

I. HISTORIC ANALOG SYSTEM....

In general the system has had an evolution over a period of over 8 years and has two remote antenna systems capable of training in both azimuth and elevation. The antenna is in the VHF region with (4 over 4) tuned YAGI cross polarized/elements.

The receiving electronics consists of a special purpose Linear-phase type solid state receiver with adaptive thresholder and digitally controlled local oscillator. There are _____each of these receivers connected to each antenna through a special multicoupler. In addition kkm to these Data-Receivers there is another VHF Telemetry receiver used for aiming the antenna to a beacon. The aiming processes are entirely manual and under real-time operator adjustment.

There is a Time-of-day digital timing system and standard frequency oscillator which drives the capstan of the dx magnetic tape recorders as well.



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NOTE TO H.U. LORENZEN 5600

2 April 69.

1. Problem AREAS

- A. Third Floor Work, Request for (On North end of Bld 56). Continued pressure of R & D effort on 56R06-29 has caused this to be farmed out, mostly to HRB-Singer at State College. The NRL team has been forced out of this highly inspiring area mostly due to lack of adequate Laboratory space (400+ square feet of Lab for 4 NRL and 4 HRB-Singer Engineers). This will shrink by the necessity of having a Hallway pass through this vital area when the two rooms are added out on the roof of the present two story addition on the North end of Bld 56.
- B. Not only is the vitalR & D effort going eslewhere, but even more important is the demand for a resident computer like the ones deployed overseas. At this time we are entirely dependant upon the Software support from HRB-Singer and in reality Fred Hellrich should have an NRL team to direct this and an instrumentation complex like those overseas where the the R & D, Documentation, SOP, and Training processes could be efficiently undertaken. This plea for a domestic R & D Site may become a reality if NSG really gets behind this program

It is therefore suggested that when computer is ordered, that we order one for NRL/Domestic R & D site use also. Due to the excess of FY-69 Funds it is also suggested that we purchase an instrument for NSA...while they were highly impressed by their tour at State college, the politics at Ft. Meade make it nearly impossible for them to fund a small computer at a time when they are fostering remote terminals for their own large CDC 6600(s (Still 2 to 3 years away though). We have heard by msg that NSA will pay the bill for \$395 K our of POTTS budgetxxx the Computer part only costs about\$250K. The danger is, do we want to Foster NSA entry xxxxxxxx to this extent into chain of command for directing the computer resource in In the past they are very clever at setting the comportable pace rather than the inspired route. They might just strangle Lt. Potts team with trivial tasks so that the real capability of the digital system would be stunted.

We need your thoughts on the wisdom of this one....

- 2. _____was here Monday on the subject of the "First Design Detail Meting for Mission 7107"...(1) went over the selection of the bands
 - (20) the wisdom of a higher orbit...not needed
 - (3) General Search vs. EOB vs ALERT
 - (4) desire for a digital system NOW...they may want to fund a part of it now to assure that they get it....D6 YOU CONCUR????

