Top Secret [redacted]

PROPOSED AGENDA
FOR
NWL/NRL/NAVOCEANO BRIEFING
FOR
PM-16 CAPT GEIGER
16 MARCH 1971

I. Introduction. . . . . .

II. Interrelationships of Program "C" and Existing Geodetic Systems . . . . .

III. Requirements and Capabilities . . . .

IV. Program "C" Past, Present and Future. Lee Hammarstrom

V. Data Fitting/Geodetic Simulation. . .

VI. Summary . . . . . Reid Mayo

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NWL

FY

71 Demonstration of Improved Mathematical Model. 150K
3 man years @ 33K, Computer 50K

72 Optimization of techniques for operational processing.
Define preliminary calibration grid.
Provide geodetic community with sample solutions from test.
Study characteristics of sources.
1. Accuracy vs type
2. Weapon System Associated

Study tactical possibilities
5 man years @ 33K = 165K
Computer 115K
280K

73 Demonstrate fully operational system.
Develop models for refraction correction.
Develop models for system bias correction.
Doppler utilization.
Provide final calibration grid.
5 man years @ 35K = 175K
Computer = 150K
325K

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NOTES RELATIVE TO NWL BRIEFING FOR CAPT GEIGER/ [redacted] 16 Mar 71.

LEE:

We must provide the sharp perspective for Capt Geiger so that he is not concerned that the improvements have been available for a long time and that they were not exploited. Rather he should see that there has been a steady deliberate improvement in the accuracy of POPPY..... beginning with the A-to-D installation in early 67, the Phase Linear Receiver design in 67-68, the Initial Operational capability of the Computer to locate emitters and then later on to report these on a rapid response to Fleet Units and now we are on the threshold of stepping into a new world with the Second Generation Computer system for POPPY....

At the same time that the [redacted] ground station hardware and software systems have been improved in accuracy and timeliness and productivity there have been steady improvements in the manner that Ephemeris information [redacted] is disseminated and utilized and Generated for POPPY.

Now for the Future the opportunity is available to improve all areas each with its own unique type of treatment so that the overall aggregate effect is to vastly improve the emitter location accuracy so that locations of Geodetic Quality will result for selected type radar targets...those which have been selected as the geodetic grid for reference purposes to assist the PHOTO Community in the deep interior of the Soviet Union. If we can identify and locate iteratively these Bench mark emitters to an accuracy of better than 500 feet the knowledge of their location will be useful in establishing a grid to tie all the smaller photo survey pieces together.

Lee: We must present the Error Budget concisely and clearly so that these errors are not embarassing to us for not having solved them in the past.

In My SUMMARY
four points are to be ;made:

1. HOW, WHO, WHETHER, WHEN } COMORIX IS TO BE BRIEFED???

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2. As the community has viewed this from the vantage point of extending [redacted] so should it oneday assess the possibility of extending our Mission. However in the interim we must not spend their money toward this goal. Therefore we must lean toward the support from NAVY 6.2 Exploratory Development and different people at NRL [redacted] supporting this effort.

3. By independant funding and support through the PM-16 office we shou[redacted]o demonstrate the degree of improvement using [redacted] and either Soviet Targets or 7107 and [redacted] with CONUS [redacted] latter case only if the interference at [redacted] will sustain the measurements. This presumes that the experience level of [redacted] can Hack it

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