

NRL RESPONSE TO THE SORS Committee request for a briefing by NAVY regarding the NAVY request to utilize NRP resources for Ocean Surveillance.

The general Trend for POPPY has been to make steady improvements in SPACECRAFT & COLLECTION SYSTEMS together so that the product will be improved without the [] getting too great. NRL has by consistent improvement in the collection systems reduced the observational accuracy (in the TIME DOMAIN) of the data by a factor of over [] during the past ^{1 1/2} years ~~xxxxx~~. []

2. Converting the Analog data to Digital before any recording. Thus the time address of each pulse is established before the time information has suffered the distortions of a recording media.
3. Instrumentation errors of both payload and ground station have now been calibrated, measured and taken into account where ever possible by use of System Calibration signals recorded on each data tape.
4. Real Time Diagnostic Quality-Control has provided a consistency of data quality which has not been attained in any program to date.
5. The most essential element of the improvements in the POPPY system has been the outstanding tenacious and dedicated technical accomplishments attained by the [] Team, under the leadership of Lt. Ron Potts who will now give you the details of how the Accuracy, Timeliness and Productivity elements of the Ocean Surveillance potential have developed to date and what the potential is for further improvements in the future. I give you Lt. POTTS.....

Bye 059318 94

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~~Secret~~ [redacted] Mar 1969
ASPECTS of the 19 March SORS briefing.....

1. The report by Cokefair indicated that the members could not accept, the ACCURACY, TIMELINESS OR PRODUCTIVITY which were offered in the presentation.

Lt POTTS can do much toward influencing their confidence but it is our mandate to provide him with Graphics, Maps, printouts, viewgraphs etc which will in his hand be the most effective tools.

Can we use the NIPSSA maps????

Can we use viewgraphs????

The DRY-RUN set for the 12th @ NSG will have MOFFIT [redacted], NSG and NRL but is there some way that the other Principle SORS members like, BILL, [redacted] & Cokefair could be there to give their guidance of how we can negate the influence of [redacted]...maybe holding this session in DIA conference spaces would be better than NSG, or hold a separate meeting with this team?

I Propose to build the historic step by step picture of the events leading up to LT POTTS Successes, including the CNO request of early April 68, and the [redacted] in June which gave the first bunch of fixes on [redacted] in the [redacted] area in August 68. Then Lt POTTS and his team began to concentrate on the rejuvenated [redacted] using the [redacted] and the historic discovery that their PRFs are [redacted]

[redacted] Use of the NAVINTSUMS for the Med and NIPSSA data base as correlation device to establish the confidence for Accuracy.

An area associated with the request for SORS to authorize Ocean Surveillance tasking by Navy of the NRProgram resources, is the very valid complaint that [redacted] has not adequately utilized the 7105 Resource to date. LT POTTS has now sent a summary of the historic use of 7105 and this shows distinct areas where tasking would provide vastly greater opportunities against specific SOIs and other HIGH Priority signals. Remember that this is based on a CROSSTALK evaluation done hastily by [redacted] which may not be conclusive. It took us two weeks to ascertain the crosstalk oriented restraints in tasking in the first place so it is a little hard to believe that [redacted] can re-evaluate these crosstalk tendencies in only one orbit's worth of data. If they have seen no-crosstalk in routine tasked missions then our restraints are still providing HIGH CONFIDENCE DATA; true, the restraints could be too severe under a condition of lower spacecraft voltage which now exists. You will remember that most of the crosstalk was due to High Voltage power-line type modulation problems so the present day low-voltage would not really

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Preliminary Points relative to OPERATIONAL OCEAN SURVEILLANCE TACTICAL NAVY SYSTEM.....

1. Since Present Payloads have been used to develop the capability the future payloads will enhance this capability through wider spectral coverage, increased time over the target and frequency coverage from 155 to 10,000 Mcs. It is anticipated that these future (MISSION 7106) payloads will have sufficient power to allow continuous usage and thus would support the additional tasking which could result if they were to be turned on over the wide water areas of the world.

2. The most severe restraint in the present POPPY system for the development of a TACTICAL operating system is that of the dedicated data collection and analysis facility. At this time the facility in [] has demonstrated the capability for locating and identifying certain of the Soviet Major combatants by doing this on a "Not-to-interfere" basis only. To perform this effort operationally would make such tremendous demands on the POPPY resources of [] that the NATIONAL tasking, data recording and analysis would suffer. The additional reason is that with older payloads still being tasked for the National goals [] is often engaged in collection from these payloads when the Newer ones would be out over the ocean but still in range of []. This problem is not so severe at [] where the number of orbits per day is much less than that of []. The "Over Water" orbits are also much more frequent too so it would be advisable that the National Tasking be influenced in the [] area to reflect the increased need for the "S-Band" data collection in support of this Tactical system.

3. Selection of the Dedicated Ocean Surveillance sites:

For the Atlantic areas [] is attractive in that it is an NSG site with HFDF communications into the NIPSSA centers where the output of this TACTICAL System could be made available to the users. [] would handle the Northern reaches of the Atlantic and the Polar regions.

For the Pacific...In addition to [] would be the next most important site and this is under consideration for inclusion into the POPPY family of digital stations at this time. It will only take about \$400 K to add this facility to []. The next site should be in [] facility.

Remember that there is severe RFI limitations to the deployment of a collection system such as that used with POPPY. In the past it has been observed that HF-DF operations could work successfully where the POPPY system was overpowered with RFI...Recommend an intensive site study before a deployment.

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SORS COMMITTEE COMPOSITION

Chairman: CIA (Mr. [REDACTED])

Executive [REDACTED] ry: CIA [REDACTED]

SORS Secretary: CIA [REDACTED]

Members: CIA [REDACTED]

Navy (LCDR J. COKEFAIR)

Air [REDACTED]

Army [REDACTED]

DIA [REDACTED]

Stat [REDACTED]

NSA (Mr. J. LIBBERT)

NRO [REDACTED]

19 Nov 69
Capt Moffit
Requesting Tasking for
readout processing
authority by [REDACTED]

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GOOD AFTERNOON -

I WOULD LIKE TO INTRODUCE THE MEMBERS OF OUR BRIEFING TEAM:

1) I'M CAPT MOFFIT, MANAGER OF PROGRAM C. RADM HARLFINGER, THE ACNO(I) IS THE DESIGNATED DIRECTOR OF PROGRAM C AND HE HAS DESIGNATED ME AS HIS DEPUTY IN CARRYING OUT THE MANAGENIAL ASPECTS OF THE POPPY PROGRAM.

2) ALSO FROM THE CHIEF OF NAVAL OPERATIONS OFFICE WE HAVE [REDACTED] WHO MOST OF YOU KNOW AS JUDD COKEFAIR'S ALTERNATE AS A MEMBER OF THIS COMMITTEE. [REDACTED] WORKS FOR ME IN PROGRAM C.

3) NRL, WHO BUILDS THE POPPY BIRDS, IS REPRESENTED BY MR. HOWARD LORENZEN, MR. REID MAYO AND MR. LEE HAMMERSTROM.

4) THE OPERATIONAL SIDE OF THE HOUSE, THE NAVAL SECURITY GROUP, IS REPRESENTED BY LCDR LLOYD MCGRAW, ~~FRANK MICHAELS~~ AND LT RON POTTS

~~TOP SECRET~~

WHO IS THE OPERATION [REDACTED]

CER FOR THE POPPY PROGRAM AT [REDACTED]

AND THE

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TOP SECRET OFFICER-IN-CHARGE OF THE POPPY ACTIVITIES AT THAT STATION. IT WAS UNDER HIS DIRECT CONTROL THAT MUCH OF THE EXPERIMENTAL WORK, THAT WE WILL ADDRESS TODAY, WAS [REDACTED] ISHED.

cokefair
THE NAVY PAPER THAT JUDD INTRODUCED TO THE COMMITTEE POINTED OUT THE NEED FOR AN ELINT SATELLITE INPUT TO THE ^{NAVY} OCEAN SURVEILLANCE DATA BASE BEING DEVELOPED TO MEET NATIONAL O/S REQUIREMENTS. THE OCEAN SURVEILLANCE SYSTEM, AS IT IS DEVELOPING, USES AN ALL SOURCE INPUT, SUCH AS: SHIP SIGHTING REPORTS, SOSUS, HFDF, AIRCRAFT PATROL REPORTS, MOVEMENT REPORTS AND SIGINT REPORTS. A NATURAL ADDITION TO THIS ALL SOURCE DATA BASE IS THE INPUT FROM THE ELINT SATELLITES.

THE PRIORITIES IMPOSED BY USIB ARE UNDERSTOOD; HOWEVER, THERE ARE PASSES OF THE SATELLITES THAT ARE NOT TASKED FOR ^{CURRENT} PRIORITY TARGETS AND PASSES OVER AREAS OF NO VALUE IN ^{CURRENT} ABM EXPLOITATION, WHILE BEING HIGHLY VALUABLE FOR OCEAN SURVEILLANCE. THESE SATELLITE PASSES ARE THE ONES WE WISH TO TASK, WITH PROPER REGARD FOR THE PRIORITIES OUTLINED BY USIB. [REDACTED]

EXPERIENCE GAINED IN TASKING THE SATELLITES, AND BUILDING THE OCEAN SURVEILLANCE DATA BASE, WILL LEAD TO DEVELOPMENT OF A QUICK RESPONSE TASKING CAPABILITY FOR THE ELINT SATELLITES, MAKING IT POSSIBLE TO BRING THEM TO BEAR QUICKLY ON ANY TARGET IN TIME OF CRISIS, IN ADDITION TO FULFILLING THE REGULAR O/S ROLE.

TO SPEAK OF OUR [REDACTED], AND EXPLAIN HOW THEY WERE ACHIEVED, I'D LIKE TO
TOP SECRET CALL ON THE NRL AND NSG REPRESENTATIVES.

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