BRIEFING FOR ADM DAVIES

24 February 1970

(Assuming his interest is to support his position that our Fleet is indeed, very vulnerable to detection by SIGINT Satellite systems)....

We should disclose:

- 1. Relative to the MOSKVA work by \_\_\_\_\_\_ in January 1970,
  - A. Timliness of locations
  - B. Productivity of results= with available tasking how many cuts/day.
  - C. Accuracy estimate by testimony of the Tailing Bestroyer"Warington"
- 2.Demonstration by this Program of
  - A: converging in Altitude to 5200 feet on Airborn Target.
  - B: Ability by Scan Compression or expansion or detecting  ${}^{\rm H}$ ard Port or Starboard Turns
  - C. With the extreme ability to detect PRI we were able to detect damage to the aft face of the Radar on the Enterprise caused by their/fire and Explosion. Thus on this Electronic Scanning emitter we can tell when ever this particular Face of the array is pointed toward the Collection Platform. (10 microseconds discontinuity of PRI every 10 pulse. It is a point of the array is pointed toward the pulse. It is a point of the array is pointed toward the pulse. It is a point of the array is pointed toward the pulse. It is a point of the array is pointed toward the pulse. It is a point of the array is pointed toward the pulse. It is a point of the array is pointed toward the pulse. It is a point of the array is pointed toward the pulse. It is a point of the array is pointed toward the pulse. It is a point of the array is point of the array is pointed toward the pulse. It is a point of the array is point of the array

D.

E. SIGNIFICANT "ALERT" capability

I= First ELINT SIGINT SATELLITE SYSTEM OF THE USA.

II = SIMPLE = LONG-LIFE SYSTEMS Upstairs therefore long-time sampling of environment can disclose changes and trends, and Tip-Offs.

III = MAIN-BEAM INTERCEPT (Horizon to Horizon) considerations &

\*\*\* We raise the horizon of the ELINT station to 3500 No. Wines per day. IV=.

SIDRI

Charts now in the canvas case for the AMM DAVIS BRIEFING ON22 Feb 70
l. Cover an
Basic Concepts for POPPY
3.Veftical antenna coverage determines time illuminated
4.a pictorial over Europe
5. Block Diagram
6. HUTs
7, Overseas Site locations and hosts.
8. Growth Trends
9. How Works
10 How well it works
11. OCEAN SURVEILLANCE
Beginning in April 1968 after CNO requested we demonstrate
our capability to locate ships at sea
12. The first evidence was that we could me EXTEND the track of a vessle

and into the WHITE SEA as an example.

HANDLE VIA
BYEMAN
CONTROL SYSTEM ONLY



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Approved for Release: 2024/06/11 C05025507

Meeting of February 19 at NSG

Subj: TOOT

In attendance were of NSA

Reid Mayo and George Price from NRL and Cmdr. Olson, L/Cdr McGraw, Lt. Morgan, Ens. Bob Lentz from NSG, and Cdr. Carberry from SAFSS.

opened the meeting. He stated that he felt that Toot would enhance our system by utilizing slicks and picks more efficiently. This will allow our systems to address itself to the total weapon system and not just a portion of it. It will also allow our system to react on a real time basis. stated that ideally he would like the operator to have the ability to spot an uniden T and react to it immediately. However, he realized that this was very difficult. It would also cause many false alarms. So an alternate proposal was to utilize a list of previously found is unidents and react to them quickly. The main distinction here is that in one case the reaction is to the first observation of an unident and in the second case the reaction is to a previously found unident. He made the statement that he realized that there would be a certain amount of false alarms utilizing this system, however NSA was prepared to accept these false alarms at this time. It was also

SCORE

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TALENT-KEYHOLE-COMINT
CONTROL SYSTEMS JOINTLY.

proposed that Toot course utilized not only in the same

which we but in the case of the 1st observation of an unident Toot could be utilized on the next rev. Reid Mayo cautioned that the systems should be started slowly to allow confidence to build up in it and recommended that signals be initially selected and a careful sep generated so that predicted site response would result.

came with a list of unidents ranging from 10 to 30 for each site. He was prepared at that time to turn the sites loose on this list. However, after being cautioned of the problems of implementing the system, NSA is going to review this list in and select what they feel is the most important from an interest standpoint. At this time it would be appropriate for someone to look at it from an xmpmxx implementation standpoint. It is going to be a great difference in potential of the possible unidents and this will depend on the interested ( LE WSG VS HSA) parties. As a beginning rule of thumb the number 202 2 or 3 signals for each site was considered a good starting point. The software problems this would cause NSA were xixux discussed briefly. It is apparent that they are doing no automatic processing of these signals at this time and therefore no special recognition chara, cters are They made the statement that as long as the tape was especially marked, in the log that they would process around this particular rev by using a deletion

Toot interest manually.

TALENT-KEYHOLE-COMINT GONTROL SYSTEMS JOINTLY

technique and handle the

For this reason when the Toot system is initially xmpkkmmn implemented there will be no special characters, no end of file, no special designation at all required on the digital tape. This means that the tape will not have to be stopped at any time during the f . No method for identifying the analog tape was discussed at this time. After the meeting Lt. Morgan expressed an interest in seeing that a well written explicit sep is developed for this area before Toot is implemented. Reid Mayo suggested that more than sticks and should be considered for Toot, for instance, polarization, diversity, and low and high options in the appropriate BANDS NSA was not NON. committal in this and said that they would consider it. Reid Mayo suggested that Toot be implemented just on the However, it is not known at this time whether everyoine in the meeting agreed with this, as there were no statements one way or the other mage on it. NSA stated in the meeting that ME expected NRL was making a modification to the APD/S , that would allow hardware wise characters to be added to the appropriate channels v

SEGRET



HANDLE VIA
TALENT-KEYHOLE-COMINT
CONTROL SYSTEMS JOINTLY

on the digital tape. VIA a hardware word.