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Approved for Release: 2024/06/13 C05026175 I- Augmentation of Program "C" for Ocean Surveillance: A-Ground Station Considerations

TOP SECURATE a Extractor (PDE) which not only selects certain data streams from the collection spacecraft but might even select beyond this it might be possible to identify and isolate those pulse trains with certain specific High-Interest PRI charactistics so that the local processing system would then only have to identify by scan association, the data from one emitter into butst series before actual location computations could proceed. The data from the PDE will be in the format (ATCON) required for local site processing, thus expediting this effort.

- III- Automatic Antenna Tracking System (AATS) will provide further improvement in the direction of data consistency across the collection horizon. In the past operator lapse of attention and cyclic adjustment could be seen in the data by voids in the data when they were inattentive. This automatic tracking system will make adjustments in 15 second intervals with the discontinuity in data being almost indescernible. $\frac{\delta}{2} \frac{\gamma'_{2} \kappa}{s_{1} t_{c}}$
- B- Spacecraft Systems:

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I- Primary spacecraft systems can be altered so that the major ship borne emitters of interest will be optimized in their respective collection system by slight alterations of the band-edges of the Filter characteristics.

The collection systems addressing the O/S targets could be duplicated in the four Primary spacecraft to a higher degree than currently planned, thus providing greater collection potential against those emminissions which are only rarely intercepted through Soviet Emission Control EMCON practices, by doubling the "Time Over Target" collection aspects for Ocean Surveillance. collection coverage now planned was selected for Mission 7107 in the months of January through April before Ocean Surveillance was a major consideration and therefore it has not had adequate attention.

- B- In an endeavor to reduce the overall data densityiin X-Band so that certain priority signals can be more adequately identified and processed for location, it has been suggested that a Comb-Filter with 20 mHz band-pass segments be included.
- C- Full utilization of the collection capability **pftential** could oriented toward the ^Ucean Surveillance requirements in the R&D or 5th spacecraft in Mission 7107.



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