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Sets forth three scenarios based on actual Soviet naval activities carried out during 1970 Okean exercise in which Program "C" made extensive contributions, during the period when the phases of the exercise were developing, throughout the major activity and in the final analysis and reporting by DIA.

This task identifies the key decisions required for each of the three scenarios.

#1 - General Soviet Activity

#2 - Major Soviet Maneuvers and Exercises

#3 - Hypothetical Norwegian Sea Engagement

Also identified are the USER - Information Requirements.

Basic system criteria for concept evaluation are developed for

- (a) Area Coverage
- (b) Position Accuracy
- (c) Periodicity of Coverage
- (d) Degree of Categorization
- (e) Degree of Timeliness

It is fortuitous that NRL and Program "C" were able to engage in a real Soviet exercise evaluation using a system generically similar to that proposed in this study.

Task 2

Identifies the ELINT environment, based on actual levels encountered in the scenarios identified in Task 1. Again these are not postulated situations but actual levels encountered. Because of the long experience record at NRL identification of all Soviet naval combatant emitters are tabulated for guidance in the study.

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Task 3

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Task 3 develops the understanding of the intelligence value of the ELINT data collected to

- (a) Determine how much of the ELINT environment should be or can be sensed to meet the operational objectives.
- (b) Outline the data processing procedures to translate the signal parameters measured into a format needed by the decision maker
- (c) Rank according to intelligence value the minumum ELINT parameters needed to identify an emitter, its platform and individual hull
- (d) Determine the time requirements for the ELINT data needed to satisfy the user's decision requirements.

In short what parameters are needed to answer the questions

- (a) What is it? (ship type/class)
- (b) Where is it? (location/track)
- (c) Who is it? (individual unit)

Task 4

Establishes the system performance criteria. It recommends

- (a) RF band coverage
- (b) ELINT parameters to be measured
- (c) Processing and preprocessing requirements

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- (d) Location and correlation requirements
- (e) Control requirements and general recommendations for displays.



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Task 5

Proposes several alternatives for an operational ELINT satellite ocean surveillance system based on demonstrated technology from Program "C".

Task 6

Matches the proposed several alternate operational systems with a management plan covering schedules and costs.



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