

Final Report
1322-88-FR-294

November 1988

TECHNICAL SERVICES FOR WEAPONS ECM
AND ECCM SYSTEMS

From 1 October 1986 to 30 September 1987

By: W. G. James

Prepared for:

Naval Research Laboratory
Code 5707
Washington, D.C. 20375

Contract N00014-85-C-2627

SRI Project 1322

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I INTRODUCTION

The Naval Research Laboratory (NRL) awarded Contract N00014-85-2627 to SRI International to provide technical support to NRL, Code 5207, in their program to provide assistance to the Naval Sea Systems Command, Code SEA-62Q. The objective of the contract is to improve the ability of the Navy surface weapons systems and their operators to function effectively when subjected to intense, complex electronic countermeasures (ECM). The contract, which began on 1 October 1985, covers one base year and two option years. This report covers work performed during the first option year (FY87).

II TECHNICAL ACCOMPLISHMENTS

1 October through 31 December, 1986

Activity during this period was limited to providing verbal consultation.

1 January through 31 March 1987

All effort during this reporting period was directed toward assisting SEA-62Q in evaluating newly prepared supplements to NWP-62-2:

"Surface Ship Radar Electronic Counter-Countermeasures (ECCM) Manual"

Twenty-three supplements were involved, one for each of 23 Navy radars. Each supplement provided guidance to radar operators in the use of the radar's ECCM features. SRI reviewed all 23 supplements and conducted an in-depth evaluation of the suitability of one. Results of the reviews and evaluation were documented in SRI Research Memorandum 1322-87-RM-23, dated February 1987.

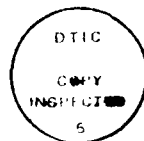
1 April through 31 June, 1987

SRI conducted in-depth reviews of NWP-62-2 supplements for the AN/SPS-48 and AN/SPS-49 radars. Documented results of these reviews were hand delivered to SEA-62Q on 5/18/87.

At a meeting with SEA-62Q on 6 May 1987, SRI was requested to assist SEA-62Q in developing materials for an EW threat briefing. In conjunction with this, SRI representatives visited the Naval Intelligence Support Center on 8 May 1987. Work on this assignment was continuing at the end of the period.

1 July through 30 September 1987

During this reporting period, intelligence documents describing threat systems and tactics were reviewed and the findings were used in drafting candidate viewgraphs that were developed and submitted for an EW threat briefing for SEA-62Q.



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