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IN REPLY REFER TO
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From: Chief of Naval Operations
To: Commander, Naval Air Systems Command (PMA 205-3B1)
Subj: PROPOSED NAVY TRAINING SYSTEMS PLAN (NTSP) FOR THE
AN/SLQ-20B COUNTERMEASURES SET, N86-NTSP-A-30-9701A/P
Ref: (a) COMNAVAIRSYSCOM ltr Ser PMA-205-3B1/1099014 of
5 Nov 99
(b) CNO (N7) ltr 1500 Ser N75K/9U637412 of 13 Dec 99
(c) CNO (N12) ltr 1500 Ser N12 6 Jan 00

1. In response to reference (a) and in concurrence with references (b) and (c), the subject NTSP has been reviewed and approved.

2. My point of contact is CDR J. M. Shaw (N869T2), Commercial (703) 604-7635, DSN 664-7635, and FAX (703) 604-6934.

A handwritten signature in black ink, appearing to read "L. F. K. Swift".

L. F. K. Swift
By direction

Copy to:
CNO (N7, N12)
COMNAVAIRSYSCOM (PMA-205)
CNET (ETS)
NAVMAC

NAVY TRAINING SYSTEM PLAN
FOR THE
AN/SLQ-20B COUNTERMEASURES SET

N86-NTSP-A-30-9701A/A

JUNE 2000

AN/SLQ-20B COUNTERMEASURES SET

EXECUTIVE SUMMARY

This Navy Training System Plan has been developed to identify the life-cycle manpower, personnel, and training requirements to support the AN/SLQ-20B Countermeasures Set. The AN/SLQ-20B Countermeasures Set, from here on referred to as the AN/SLQ-20B, is a classified Electronic Warfare/Air Warfare Program currently in Phase III (Production, Deployment, and Operational Support) of the Weapon System Acquisition Process. The AN/SLQ-20B achieved Initial Operating Capability in September 1999.

The AN/SLQ-20B will initially operate on AEGIS CG-47 class cruisers and select aircraft carriers, and is being considered for future installations on AEGIS DDG-51 class destroyers. The AN/SLQ-20B is a form and fit replacement for the AN/SLQ-20A Processor Set aboard aircraft carriers. The AN/SLQ-20B provides all functions of the AN/SLQ-20A Processor Set, while incorporating new technologies and capabilities. It provides additional performance in the area of Built-In Test (BIT), digital interfaces, and growth capability.

The AN/SLQ-20B maintenance concept is a two-level concept, organizational and depot. The maintenance concept for the associated wideband antenna is depot level maintenance and repair only. The AN/SLQ-20B uses continuous and initiated BIT to detect and isolate failures. Organizational level repairs primarily consist of the removal and replacement of Shop Replaceable Assemblies (i.e., black boxes) and some Lowest Replaceable Units (i.e., circuit boards).

The manpower requirements for the AN/SLQ-20B are within the capabilities of the Navy's existing rating structure. No additional manpower is required. Individual ship's manpower utilization for AN/SLQ-20B operator and maintenance requirements is left up to the discretion of the ship's Commanding Officer. Navy Operations Specialist (OS) personnel normally perform operation of the system. Electronic Warfare Officers (EWO) may also operate the system. OS personnel and EWOs, functioning as the Tactical Action Officer, operate the Master Control Unit and Remote Control Units. Electronic Technicians (ETs) perform maintenance and verification of system operation.

The training concept for the AN/SLQ-20B includes initial training and on-board Computer-Based Training (CBT) for operator and maintenance personnel. Marconi Aerospace Systems, Inc. is responsible for the development of the CBT. Naval Air Warfare Center, Aircraft Division (NAWCAD) 4.5.8.2.1 personnel are responsible for the distribution and implementation of the CBT for the AN/SLQ-20B. NAWCAD 4.5.8.2.1 is acting as the In-Service Engineering Activity (ISEA) and Software Support Activity (SSA) and, in conjunction with the Naval Air Systems Command, is responsible for maintaining and updating the CBT software.

AN/SLQ-20B COUNTERMEASURES SET

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LIST OF ACRONYMS

BIT	Built-In Test
CBT	Computer-Based Training
CG	Guided Missile Cruiser
CIC	Combat Information Center
CINCLANTFLT	Commander In Chief, Atlantic Fleet
CINCPACFLT	Commander In Chief, Pacific Fleet
CNET	Chief of Naval Education and Training
CNO	Chief of Naval Operations
DA	Developmental Agency
DDG	Guided Missile Destroyer
DIS	Distributed Interactive Simulation
DT	Developmental Test
ET	Electronics Technician
EWO	Electronic Warfare Officer
E&MD	Engineering and Manufacturing Development
FIT	Fleet Introduction Team
FY	Fiscal Year
GPETE	General Purpose Electronic Test Equipment
ILSP	Integrated Logistics Support Plan
ISEA	In-Service Engineering Activity
LRU	Lowest Replaceable Unit
MCU	Master Control Unit
MPT	Manpower, Personnel, and Training
MSD	Material Support Date
NA	Not Applicable
NATEC	Naval Air Technical Data and Engineering Service Command
NAVAIRSYSCOM	Naval Air Systems Command
NAVICP	Navy Inventory Control Point
NAVPERSCOM	Navy Personnel Command
NAVSEA	Naval Sea Systems Command

AN/SLQ-20B COUNTERMEASURES SET

LIST OF ACRONYMS

NAWCAD	Naval Air Warfare Center, Aircraft Division
NCCOSC	Naval Command, Control, and Ocean Surveillance Center
NRaD	Naval Command, Control, and Ocean Surveillance Center Research Development, Test and Evaluation Division
NSD	Navy Support Date
NTSP	Navy Training System Plan
OJT	On-the-Job Training
OPEVAL	Operational Evaluation
OPO	OPNAV Principal Official
OPTEVFOR	Operational Test and Evaluation Force
OS	Operations Specialist
OT	Operational Test
PEETE	Portable Electric Electronic Test Equipment
PMA	Program Manager, Air
PQS	Personnel Qualification Standards
RCU	Remote Control Unit
RDT&E	Research, Development, Test, and Evaluation
RF	Radio Frequency
SPTE	Special Purpose Test Equipment
SRA	Shop Replaceable Assemblies
SSA	Software Support Activity
TA	Training Agency
TECHEVAL	Technical Evaluation
TSA	Training Support Agency
TTE	Technical Training Equipment
WAA	Wideband Antenna Assembly

AN/SLQ-20B COUNTERMEASURES SET

PREFACE

This Approved Navy Training System Plan (NTSP) has been prepared to update the Draft AN/SLQ-20B Countermeasures Set NTSP, N86-NTSP-A-30-9701A/D, dated May 1999. This NTSP incorporates minor changes submitted by the Program Manager, Air (PMA213), Naval Air Warfare Center, Aircraft Division, (NAWCAD) 4.5.8.2.1, and the Director of Naval Training, CNO (N7) and complies with guidelines set forth in the Navy Training Requirements Documentation Manual, OPNAV Publication P-751-1-9-97.

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

1. **Nomenclature-Title-Acronym.** AN/SLQ-20B Countermeasures Set
2. **Program Element.** PEO604777N

B. SECURITY CLASSIFICATION

1. **System Characteristics** Secret/No Foreign
2. **Capabilities** Secret/No Foreign
3. **Functions**..... Secret/No Foreign

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

- OPNAV Principal Official (OPO) Program Sponsor..... CNO (N865E)
- OPO Resource Sponsor CNO (N865E)
- Developing Agency NAVAIRSYSCOM (PMA213)
- Training Agency..... CINCLANTFLT
CINCPACFLT
CNET
- Training Support Agency..... NAVAIRSYSCOM (PMA205)
- Manpower and Personnel Mission Sponsor CNO (N1, N869)
- Director of Naval Training CNO (N7)
- Chief of Naval Personnel NAVPERSCOM (PERS-4B, PERS-404)

D. SYSTEM DESCRIPTION

1. **Operational Uses.** The AN/SLQ-20B will initially operate on AEGIS Guided Missile Cruiser (CG) CG-47 class cruisers and select aircraft carriers, and is being considered for future installations on AEGIS Guided Missile Destroyer (DDG) DDG-51 class destroyers. The AN/SLQ-20B is a form and fit replacement for the AN/SLQ-20A Processor Set aboard aircraft

carriers. The AN/SLQ-20B provides all functions of the AN/SLQ-20A Processor Set while incorporating new technologies and capabilities.

2. Foreign Military Sales. There are no foreign military sales. The AN/SLQ-20B is classified Secret/No Foreign. For other U.S. Armed Service applications, refer to PMA213.

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST

1. Developmental Test. Technical Evaluation (TECHEVAL) for the AN/SLQ-20B with the Wideband Antenna Assembly (WAA) was completed by the Naval Command, Control, and Ocean Surveillance Center (NCCOSC) Research, Development, Test, and Evaluation (RDT&E) Division (NRaD), San Diego, California. TECHEVAL was conducted in two phases:

- Shore: Developmental Test (DT)-IIA from November 1995 to March 1996
- Ship: DT-IIB from March 1996 to September 1996

2. Operational Test. Operational Evaluation (OPEVAL) of the AN/SLQ-20B and WAA was conducted in one phase, Operational Test (OT)-II aboard the USS John Paul Jones (DDG-53) from October to November 1996. Operational Test and Evaluation Force (OPTEVFOR) Norfolk, Virginia, concluded that the AN/SLQ-20B was operationally effective and operationally suitable, and recommended fleet introduction.

F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED. The AN/SLQ-20B does not replace any equipment on AEGIS CG-47 class cruisers. Aboard aircraft carriers, the AN/SLQ-20B replaces the AN/SLQ-20A Processor Set.

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description. The AN/SLQ-20B consists of a Radio Frequency (RF) Signal Processor Unit, a Master Control Unit (MCU), two Remote Control Units (RCUs), and a Diplexer Unit. In addition, a new Antenna Assembly in either the AN/SPS-67(V), (for AEGIS DDG-51 class destroyers), or the AN/SPS-49(V), (for aircraft carriers and AEGIS CG-47 class cruisers), is used by the AN/SLQ-20B. These antennas were developed under separate contracts managed by the Naval Sea Systems Command (NAVSEA). The antenna assembly is mounted on an existing modified shipboard radar antenna pedestal.

The AN/SLQ-20B is capable of operating in the shipboard and battle group electromagnetic environment. The system was designed to meet the shipboard environmental and other general requirements of MIL-STD-2036. The system does not require any external sensor data or tactical information from other systems to operate properly.

2. Physical Description. The physical characteristics of the AN/SLQ-20B are:

COMPONENT	DIMENSIONS (INCHES)			WEIGHT (POUNDS)
	LENGTH	HEIGHT	WIDTH	
RF Signal Processor Unit	10.75	16.20	19.30	97
MCU	8.80	11.00	7.50	13
Two RCUs	6.00	3.00	4.50	3
Diplexer Unit	3.00	10.00	13.50	14
WAA	11.00	97.00	9.00	48

3. New Development Introduction. The AN/SLQ-20B is being introduced as new production equipment. The first ships to receive a production version of this system are selected AEGIS CG-47 Class Cruisers and selected aircraft carriers. Future installation on AEGIS DDG-51 class destroyers is being considered.

4. Significant Interfaces. Power requirements for the AN/SLQ-20B are 115 volts alternating current, plus or minus 10 percent, at either 60 or 400 Hertz. The power consumption is approximately 750 watts. The AN/SLQ-20B is capable of interfacing with the following systems:

- Display Systems for Combat Information Center (CIC) operators (for initial stand-alone configuration)
- Multi-sensor Combat Identification Processor (future growth capability)
- AEGIS Command and Decision (C&D) computer (future growth capability)

5. New Features, Configurations, or Material. Not Applicable (NA)

H. CONCEPTS

1. Operational Concept. Navy Operations Specialist (OS) personnel normally perform operation of the system. The OSs operate the MCU via the Electronic Warfare Supervisor Console in the CIC. OS personnel function as the Identification and Air Warfare Console operator controlling the two AN/SLQ-20B RCUs. In addition, Electronic Warfare Officers who perform the duties of the Tactical Action Officer may also operate the RCU.

2. Maintenance Concept. Electronic Technicians (ETs) perform maintenance and verification of system operation. The AN/SLQ-20B maintenance concept consists of two levels of maintenance, organizational and depot. The maintenance concept for the WAA is depot level maintenance and repair only. The AN/SLQ-20B uses continuous and initiated Built-In Test (BIT) to detect and isolate failures. Organizational level maintenance primarily consists of the

removal and replacement of Shop Replaceable Assemblies (SRAs) (i.e., black boxes) and some Lowest Replaceable Units (LRUs) (i.e., circuit boards). If required, General Purpose Electronic Test Equipment (GPETE) and Portable Electric/Electronic Test Equipment (PEETE) is used to supplement BIT for some fault isolation. Failed components will be returned to the depot for repair or disposition.

a. Organizational. Organizational level maintenance actions are limited to system check-out, fault isolation, inspection, servicing, and removal and replacement of assemblies, subassemblies, and certain chassis mounted components such as fuses, lamps, knobs and displays.

(1) Preventive Maintenance. Preventive maintenance on the AN/SLQ-20B consists of inspection and servicing.

(2) Corrective Maintenance. Corrective maintenance is accomplished per the AN/SLQ-20B technical manual. Fault isolation and detection are accomplished using BIT. Malfunctions not isolated by BIT are isolated utilizing shipboard GPETE and PEETE.

b. Intermediate. NA

c. Depot. Depot level maintenance consists of repairing failed assemblies, subassemblies, modules, and antennas. The antenna assembly is repairable at the depot level only. Depot level maintenance will be established by the Navy Support Date (NSD) of April 2001. The depot for the antenna assemblies is AIL Systems, Inc., Deer Park, New York. The depot for the AN/SLQ-20B is the Naval Air Warfare Center, Aircraft Division (NAWCAD) 4.5.8.2.1.

d. Interim Maintenance. There is no interim maintenance.

e. Life-Cycle Maintenance Plan. NA

3. Manning Concept. Due to system simplicity (“black box” technology) and low Mean Time Between Failures of 500 hours (non-continual use), no additional manpower is required to support the AN/SLQ-20B. Individual ship manpower utilization for AN/SLQ-20B operator and maintenance requirements is left up to the discretion of the ship’s Commanding Officer. Operation of the system is on an as required basis and performed by currently assigned OS personnel. Currently assigned advanced electronic field personnel accomplish verification of system operation, system failure, and corrective maintenance. Select personnel at the depot will be identified to receive depot level training on the AN/SLQ-20B.

4. Training Concept. The training concept for the AN/SLQ-20B consists of initial training and onboard Computer-Based Training (CBT) for operator and maintenance personnel. Under an existing contract, Marconi Aerospace Systems, Inc. is responsible for the development of the CBT. NAWCAD 4.5.8.2.1 personnel are responsible for the distribution and implementation of the CBT. NAWCAD 4.5.8.2.1 is acting as the In-Service Engineering Activity (ISEA) and Software Support Activity (SSA) and, in conjunction with the Naval Air Systems Command (NAVAIRSYSCOM), is responsible for maintaining and updating the CBT

software. A laptop computer is being delivered with each AN/SLQ-20B to run CBT software and to load system code.

Future plans are for the development of Distributed Interactive Simulation (DIS) that is compliant with the Battle Force Tactical Team Trainer. DIS is the complex networking of varied simulators in multiple geographic locations, which allows the user to see the results of their actions and the actions of other users nearly simultaneously. The primary mission of DIS is to provide team-oriented training to a battle group. It does this by creating synthetic, virtual representations of warfare environments by systematically connecting separate sub-components of simulation which reside at distributed, multiple locations.

The basic concept of DIS is an extension of the Simulation Networking program developed by the Defense Research Projects Agency that allows dissimilar simulators, distributed over a large geographical area, to interact in a team environment. These simulators communicate over local and wide area networks.

a. Initial Training. Initial training for the AN/SLQ-20B was provided by NAWCAD 4.5.8.2.1 for Fleet Introduction Team (FIT) members, depot maintenance personnel, and fleet personnel. Initial operator and organizational maintenance training for DT and OT personnel was conducted in April 1996 by the Engineering and Manufacturing Development (E&MD) contractor. Development and test engineers and Navy personnel, including OPTEVFOR representatives, attended this training.

Title	AN/SLQ-20B Operation and Maintenance
Description	This course provided training on the operation and organizational maintenance of the AN/SLQ-20B with emphasis on corrective maintenance and use of BIT.
Location	Marconi Aerospace Systems, Inc. (formerly Hazeltine Corporation, Greenlawn, New York)
Length	12 days
RFT date	April 1996 (completed)
TTE/TD	AN/SLQ-20B Countermeasures Set
Prerequisites	<ul style="list-style-type: none">◦ OS: A-221-0011, Operations Specialist Class A1, and a Secret Security Clearance◦ EW: A-102-0209, Electronic Warfare Technician Class A Basic Operations, and a Secret Security Clearance◦ NOBC 9282: Ship's Electronic Warfare Officer, and a Secret Security Clearance

On-site training for operator and organizational maintenance personnel is being provided by NAWCAD 4.5.8.2.1 FIT members at the time of installation. The AN/SLQ-20B has

a training mode, so initial training is supplemented with On-the-Job Training (OJT) using this mode. The following course is being provided upon installation.

- Title** AN/SLQ-20B Operation and Maintenance
- Description** This course provides training on the operation and organizational maintenance of the AN/SLQ-20B with emphasis on corrective maintenance and use of BIT.
- Location** NAWCAD, St. Inigoes or at the installation site
- Length** 5 days
- RFT Date** 30 May 1999 (on-going)
- TTE/TD** AN/SLQ-20B Countermeasures Set
- Prerequisites ...**
 - OS: A-221-0011, Operations Specialist Class A1, and a Secret Security Clearance
 - ET: A-100-0138, Electronics Technician Core A School, and a Secret Security Clearance

b. Follow-on Training. Currently, eight shipboard AN/SLQ-20Bs have been procured. Student throughput, after initial start-up, does not warrant the establishment of a formal training course of instruction. Follow-on training for operators and maintenance personnel will be provided at each command during the ship's work-up cycle and prior to full deployment. NAWCAD 4.5.8.2.1 will be responsible for the training of Fleet Technical Support Center (Atlantic and Pacific) personnel. Follow-on training consists of on-board CBT and OJT for operator and organizational maintenance personnel. OS personnel require training in the operation of the AN/SLQ-20B MCU and RCU. After initial training for depot maintenance personnel, the depot will be responsible for its own on-going training requirements.

c. Student Profiles

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
ET	A-100-0138, Electronics Technician Core A School A-100-0140, Electronics Technician Strand A School
OS	A-221-0011, Operations Specialist Class A1

d. Training Pipelines. NA

I. ON-BOARD (IN-SERVICE) TRAINING. NAWCAD 4.5.8.2.1 is responsible for the distribution and implementation of the CBT for the AN/SLQ-20B. Additionally, NAWCAD

4.5.8.2.1, in conjunction with NAVAIRSYSCOM PMA205-3B1, is responsible for maintaining and updating the CBT software. The AN/SLQ-20B has a built-in training mode that is used for OJT to supplement the CBT.

1. Proficiency or Other Training Organic to the New Development. During the production contract, Marconi Aerospace Systems, Inc. is tasked with providing CBT for operator and organizational maintenance. The CBT is provided upon site installation.

a. Maintenance Training Improvement Program. NA

b. Aviation Maintenance In-Service Training. NA

2. Personnel Qualification Standards. Personnel Qualification Standards (PQS) will not be developed for the AN/SLQ-20B operation or maintenance. Each activity is responsible to establish a Job Qualification Requirement (JQR) syllabus for RCU training to be included in the overall CIC watch station qualifications.

3. Other On-Board or In-Service Training Packages. NA

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers. The following are current outstanding contracts that apply to the AN/SLQ-20B program.

CONTRACT NUMBER	MANUFACTURER	ADDRESS
See note below.	Marconi Aerospace Systems Inc., Advanced Systems Division	Mail Stop 1-14 450 Pulaski Road Greenlawn, NY 11740
See note below.	AIL Systems, Inc.	455 Commack Road Deer Park, NY 11729

Note: Contract numbers are considered sensitive and are not shown. For further information about contracts, contact NAWCAD 4.5.8.2.1.

2. Program Documentation. The revised AN/SLQ-20B Integrated Logistics Support Plan (B) was approved in August 1999.

3. Technical Data Plan. The technical manual is used as the primary information document during the production and installation phase. The E&MD contractor developed and completed a preliminary technical manual to support DT and OT for the AN/SLQ-20B. The production contractor is responsible for reviewing, updating, and validating the new technical manual. Technical manual verification was conducted by NAWCAD 4.5.8.2.1 and the Naval Air Technical Data and Engineering Service Command (NATEC) during installation on the first

AEGIS CG-47 Class Cruiser. Two sets of technical manuals are packaged and shipped with each system. Both the antenna and the AN/SLQ-20B will receive one electronic copy and one hard copy of the technical manual.

4. Test Sets, Tools, and Test Equipment. One design goal of the AN/SLQ-20B is to require no special support equipment for maintenance, repair, and calibration. Only GPETE and non-development PEETE are used to supplement BIT. For depot level maintenance, fault isolation beyond the capabilities of BIT will be accomplished using the following GPETE: multimeter, oscilloscope, signal generator, spectrum analyzer, directional coupler, attenuator, power divider RF, dummy load, and power meter.

5. Repair Parts. Once the Material Support Date (MSD) of April 2001 has been reached, the Navy Inventory Control Point (NAVICP) will maintain stock levels at Navy Supply Centers and fleet ISEAs. Fleet users will requisition these items from the NAVICP via Military Standard Requisition and Issue Procedures. Until the MSD, NAWCAD 4.5.8.2.1 is providing interim supply support.

6. Human Systems Integration. NA

K. SCHEDULES

1. Installation and Delivery Schedule. Installation on the USS Cowpens (CG-63) and USS Bunker Hill (CG-52) was completed in September 1999. Delivery and installation of the AN/SLQ-20B on other AEGIS CG-47 Class Cruisers has yet to be determined. Individual CG-47 Class Cruisers and Aircraft Carriers receive CBT software and a laptop computer upon installation of the AN/SLQ-20B. For further information on installation and delivery schedules, contact NAWCAD 4.5.8.2.1.

2. Ready For Operational Use Schedule. The AN/SLQ-20B is considered Ready For Operational Use upon completion of installation and checkout.

3. Time Required to Install at Operational Sites. Approximately 30 days are required for equipment installation and checkout at each site.

4. Foreign Military Sales and Other Source Delivery Schedule. NA

5. Training Device and Delivery Schedule. OS and ET personnel require training in the operation and maintenance of the AN/SLQ-20B. Field engineering and training personnel at NAWCAD 4.5.8.2.1 conduct this training. One AN/SLQ-20B and one CBT system is provided for this training. Refer to NAWCAD 4.5.8.2.1 for further information.

L. GOVERNMENT FURNISHED EQUIPMENT AND CONTRACTOR FURNISHED EQUIPMENT TRAINING REQUIREMENTS. NA

M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
ILSP for the AN/SLQ-20B	ILSP-ATC-064 (B)	PMA213	Approved Aug 99
Manpower, Personnel, and Training Concept Document for the AN/SLQ-20B Countermeasures Set Program	NA	PMA213	Approved Jan 96
User's Logistics Support Summary for the AN/SLQ-20B	ULSS-ATC-064	PMA213	Approved Jan 96

PART II - BILLET AND PERSONNEL REQUIREMENTS

The following elements are not affected by the AN/SLO-20B and, therefore, are not included in Part II of this NTSP:

II.A. Billet Requirements

- II.A.1.a. Operational and Fleet Support Activity Activation Schedule
- II.A.1.b. Billets Required for Operational and Fleet Support Activities
- II.A.1.c. Total Billets Required for Operational and Fleet Support Activities
- II.A.2.a. Operational and Fleet Support Activity Deactivation Schedule
- II.A.2.b. Billets to be Deleted in Operational and Fleet Support Activities
- II.A.2.c. Total Billets to be Deleted in Operational and Fleet Support Activities
- II.A.3. Training Activities Instructor and Support Billet Requirements
- II.A.4. Chargeable Student Billet Requirements
- II.A.5. Annual Incremental and Cumulative Billets

II.B. Personnel Requirements

- II.B.1. Annual Training Input Requirements

Note: No new billets are required for the operation and maintenance of the AN/SLO-20B. The type (rating) and number of personnel receiving initial training upon equipment installation is at the discretion of the individual activity Commanding Officer; therefore, no elements of Part II are included in this NTSP.

PART III - TRAINING REQUIREMENTS

The following elements are not affected by the AN/SLO-20B and, therefore, are not included in Part III of this NTSP:

III.A.2. Follow-on Training

III.A.2.a. Existing Courses

III.A.2.b. Planned Courses

III.A.2.c. Unique Courses

III.A.3. Existing Training Phased Out

PART III - TRAINING REQUIREMENTS

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: AN/SLO-20B Countermeasures Set Operation and Maintenance for DT and OT
COURSE DEVELOPER: Marconi Aerospace Corporation (formerly Hazeltine Corporation)
COURSE INSTRUCTOR: Marconi Aerospace Corporation, Greenlawn, New York
COURSE LENGTH: 12 days

LOCATION, UIC	DATE	STUDENTS			ACTIVITY
	BEGIN	OFF	ENL	CIV	DESTINATION
Hazeltine Corp., NA	Apr 96 (completed)	Note 1	Note 1	0	DT Engineers OPTEVFOR DDG personnel

Further initial training is required at each installation site upon installation. This initial training is being provided during AN/SLO-20B installation as explained in Part I. As information on future installations becomes available, it will be included in updates to this NTSP.

Note 1: The type (rating) and number of personnel to be trained is not known. Individual activity Commanding Officers designate personnel to receive initial training when the AN/SLO-20B is installed.

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the AN/SLO-20B and, therefore, are not included in Part IV of this NTSP.

IV.A Training Hardware

IV.A.2 Training Devices

IV.B Courseware Requirements

IV.B.1 Training Services

IV.C Facility Requirements

IV.C.1 Facility Requirements Summary (Space/Support) by Activity

IV.C.2 Facility Requirements Detailed by Activity and Course

IV.C.3 Facility Project Summary by Program

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

IV.A. TRAINING HARDWARE

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

TRAINING ACTIVITY: NAWCAD
LOCATION, UIC: St. Inigoes, Maryland, 64485

CIN, COURSE TITLE: NA, Initial Maintainer Training

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	GFE CFE	STATUS
TTE						
001	AN/SLO-20B Countermeasures Set	See note	1	2nd Qtr FY99	GFE	Onboard
002	Laptop Computer	NA	1	2nd Qtr FY99	GFE	Onboard
GPETE						
003	Multimeter	See note	1	2nd Qtr FY99	GFE	Onboard
004	Oscilloscope	See note	1	2nd Qtr FY99	GFE	Onboard
005	Signal Generator	See note	1	2nd Qtr FY99	GFE	Onboard
006	Spectrum Analyzer	See note	1	2nd Qtr FY99	GFE	Onboard
007	Directional Coupler	See note	1	2nd Qtr FY99	GFE	Onboard
008	Attenuator	See note	1	2nd Qtr FY99	GFE	Onboard
009	Power Divider RF	See note	1	2nd Qtr FY99	GFE	Onboard
010	Dummy Load	See note	1	2nd Qtr FY99	GFE	Onboard
011	Power Meter	See note	1	2nd Qtr FY99	GFE	Onboard

Note: Repair parts for TTE will be requisitioned through normal supply channels.

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: NA, Initial Maintainer Training
TRAINING ACTIVITY: NAWCAD
LOCATION, UIC: St. Inigoes, Maryland, 64485

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
CBT software	1	2nd Qtr FY99	Onboard

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: NA, Initial Maintainer Training
TRAINING ACTIVITY: NAWCAD
LOCATION, UIC: St. Inigoes, Maryland, 64485

TECHNICAL MANUAL NUMBER, TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
AE-SLQ20-OMB-000/(S), AN/SLQ-20B Countermeasures Set Operation and Maintenance Manual	Hard copy and Electronic CD in PDF format with links.	1	Jun 99	Onboard
Antenna Assembly Technical Manual	Hard copy and Electronic CD in PDF format with links.	1	Jun 99	Onboard

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
DA	Awarded Engineering and Manufacturing Development Contract	Aug 93	Completed
DA	Promulgated ILS Master Plan	Aug 93	Completed
TA	Conducted Analysis of Manpower, Personnel, and Training	Feb 95	Completed
NCCOSC	Began DT	Nov 95	Completed
TA	Began Initial training	Apr 96	Completed
NCCOSC	Completed DT	Sep 96	Completed
OPTEVFOR	Began OT	Oct 96	Completed
OPTEVFOR	Completed OT	Nov 96	Completed
TSA	Began CBT Software Development	Jun 98	Completed
DA	Began Fleet Introduction	Apr 99	On-going
TSA	Promulgated Draft NTSP to ALCON for Review and Comment	May 99	Completed
DA	Achieved Initial Operating Capability	Sep 99	Completed
TSA	Submitted Proposed NTSP for OPNAV approval	Nov 99	Completed
DA	Achieve Material Support Date	Apr 01	Pending
DA	Achieve Navy Support Date	Apr 01	Pending

PART VI - DECISION ITEMS/ACTION REQUIRED

**DECISION ITEM OR
ACTION REQUIRED**

COMMAND ACTION

DUE DATE

STATUS

No decisions or actions are required.

PART VII - POINTS OF CONTACT

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