

DRAFT

NAVY TRAINING SYSTEM PLAN

FOR THE

JOINT OIL ANALYSIS PROGRAM

N88-NTSP-A-50-9307A/D

FEBRUARY 2000

JOINT OIL ANALYSIS PROGRAM

EXECUTIVE SUMMARY

The Joint Oil Analysis Program (JOAP) was established by a joint Army, Navy, and Air Force regulation as a combined effort to establish and maintain a standard program that would consolidate and coordinate the three separate service oil analysis programs. Oil analysis diagnostic programs are used to determine the suitability of fluids for continued use and the internal condition of aeronautical and non-aeronautical engines, transmissions, gearboxes, and other components. The purpose is flight safety, enhanced equipment readiness, reduced maintenance cost, conservation of lubricants, hazardous waste reduction, and the extension of component life. The Navy Oil Analysis Program (NOAP) defines the policies, procedures, and the responsibilities for maintenance programs throughout the Navy. The NOAP is part of and operates in compliance with the JOAP. JOAP is in Phase III (Production, Deployment, and Operational Support) of the Weapon System Acquisition Process.

Navy Oil Analysis laboratories are located at shore Aircraft Intermediate Maintenance Departments (AIMDs), Shore Intermediate Maintenance Activities (SIMAs), Naval Aviation Depots (NAVAVNDEPOTs), and AIMDs onboard Landing Helicopter and Aircraft Carrier type ships.

Oil Analysis laboratories at AIMDs and SIMAs are staffed with enlisted Aviation Machinist's Mate, Machinist's Mate, Engineman, and Gas Turbine System Technician-Mechanical personnel with Navy Enlisted Classification (NEC) code 6403. Oil Analysis laboratories at NAVAVNDEPOT Jacksonville, Florida, and NAVAVNDEPOT Cherry Point, North Carolina, are staffed with civilian personnel. The Oil Analysis Operator-Evaluator performs analysis of used lubricants and hydraulic fluids, evaluates the condition of the fluid or the end equipment that it came from, and recommends maintenance actions to the equipment operating activity.

Technical support for the JOAP is provided by the Joint Oil Analysis Program-Technical Support Center in Pensacola, Florida. Naval Air Technical Data and Engineering Service Command (NATEC) personnel provide on-site support for NOAP spectrometers. NATEC personnel also provide inspection and verification support for newly established or relocated NOAP laboratories.

Follow-on training for JOAP Oil Analysis Operator-Evaluators was moved from Naval Air Station Memphis, Tennessee, to Naval Air Technical Training Center Pensacola, Florida, in March 1997. JOAP Oil Analysis Operator-Evaluator training is provided in course A-491-0017. This is a single-site course utilized by all Department of Defense personnel.

JOINT OIL ANALYSIS PROGRAM

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LIST OF ACRONYMS

JOINT OIL ANALYSIS PROGRAM

LIST OF ACRONYMS

AD	Aviation Machinist's Mate
AIMD	Aviation Intermediate Maintenance Department
AMTCS	Aviation Maintenance Training Continuum System
CNO	Chief of Naval Operations
EN	Engineman
GSM	Gas Turbine System Technician-Mechanical
JOAP	Joint Oil Analysis Program
JOAP-TSC	Joint Oil Analysis Program-Technical Support Center
MM	Machinist's Mate
MTIP	Maintenance Training Improvement Program
NA	Not Applicable
NATEC	Naval Air Technical Data and Engineering Service Command
NATTC	Naval Air Technical Training Center
NAVAIRSYSCOM	Naval Air Systems Command
NAVAVNDEPOT	Naval Aviation Depot
NEC	Navy Enlisted Classification
NOAP	Navy Oil Analysis Program
NTSP	Navy Training System Plan
OPNAV	Office of the Chief of Naval Operations
OPO	OPNAV Principal Official
PMA	Program Manager, Air
RFT	Ready For Training
SIMA	Shore Intermediate Maintenance Activity
TD	Training Device
TTE	Technical Training Equipment

JOINT OIL ANALYSIS PROGRAM

PREFACE

This Draft Navy Training System Plan (NTSP) for the Joint Oil Analysis Program (JOAP) has been developed to update the Approved JOAP NTP, A-50-9307/A, dated March 1994. This update complies with guidelines set forth in the Navy Training Requirements Documentation Manual, OPNAV Publication P-751-1-9-97. Specifically, this NTSP reflects the following changes to the JOAP program:

- Updates the list of Manpower, Personnel, and Training Principals
- Identifies Naval Technical Training Unit (NTTU) Pensacola, Florida, as the training location and course model manager
- Updates onboard (in-service) training to reflect current program status
- Updates logistics support information
- Updates manpower billet requirements to include new construction and deactivation schedules
- Updates program training milestones
- Updates points of contact

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

1. **Nomenclature-Title-Acronym.** Joint Oil Analysis Program (JOAP)
2. **Program Element.** Not Applicable (NA)

B. SECURITY CLASSIFICATION

1. **System Characteristics** Unclassified
2. **Capabilities** Unclassified
3. **Functions**..... Unclassified

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

- OPNAV Principal Official (OPO) Program Sponsor..... CNO (N889H)
- OPO Resource Sponsor CNO (N889H)
- Developing Agency..... NAVAIRSYSCOM (PMA260)
- Training Agency CINCLANTFLT
CINCPACFLT
CNET
- Training Support Agency..... NAVAIRSYSCOM (PMA205)
- Manpower and Personnel Mission Sponsor CNO (N12)
NAVPERSCOM (PERS-4, PERS-402, PERS-404)
- Director of Naval Training CNO (N7)

D. SYSTEM DESCRIPTION

1. **Operational Uses.** A joint Army, Navy, and Air Force regulation established the JOAP as a combined effort to establish and maintain a standard program that would consolidate and coordinate the three separate service oil analysis programs. Oil analysis diagnostic programs are used to determine the suitability of fluids for continued use and the internal condition of aeronautical and non-aeronautical engines, transmissions, gearboxes, and other components. The

purpose is flight safety, enhanced equipment readiness, reduced maintenance cost, conservation of lubricants, hazardous waste reduction, and the extension of component life. The Navy Oil Analysis Program (NOAP) defines the policies, procedures, and the responsibilities for maintenance programs throughout the Navy. The NOAP is part of and operates in compliance with the JOAP.

2. Foreign Military Sales. NA

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST. The Joint Oil Analysis Program-Technical Support Center (JOAP-TSC), Pensacola, Florida, is the cognizant authority for technical test and evaluation of new methods, procedures, and instrumentation developed for machinery fluid analysis. The JOAP-TSC conducts evaluation and verification of standards prior to field use.

F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED. NA

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description. The JOAP goal is to improve the operational readiness and economy of military equipment through the use of oil analysis, a condition-monitoring concept that relies on the detection and measurement of wear-metals, and the determination of a lubricants' physical properties. The specific diagnostic techniques used for the routine analysis of oil samples are spectrometric and physical property analysis. The JOAP methods used to detect manufacturing and service induced defects include the following:

a. Spectrometric Testing. Spectrometric oil analysis is a diagnostic maintenance tool used to determine the type and amount of wear metals in lubricating fluid samples. Engines, transmissions, gearboxes, and hydraulic systems are the types of equipment most frequently monitored. The presence of unusual concentrations of an element in the fluid sample can indicate abnormal wear of the equipment. Once abnormal wear is verified, the equipment may be repaired or removed from service before a major failure of a fluid wetted component occurs. Spectrometric oil analysis enhances personnel safety and material readiness at a minimum cost, and serves as a decisive, preventive maintenance tool. The analytical instrument for spectrometric oil analysis currently used by the services is the atomic emission spectrometer. It is an optical instrument used to determine the concentration of specific elements in a lubricating fluid. The analysis is accomplished by subjecting the sample to a high voltage spark, which energizes the atomic structure of the metallic elements, causing the emission of light. The emitted light is subsequently focused into the optical path of the spectrometer and separated by wavelength, converted to electrical energy, and measured. The intensity of the emitted light for any element is proportional to the concentration of that particular element suspended in the lubricating fluid sample.

b. Physical Property Testing. Lubricant physical property testing provides data on conditions that are standards of measurement for judgment of the quality of the oil. In order to determine the physical properties in a sample lubricant, the characteristics of a used sample are measured and the results compared to specified limits. Physical property tests aid in determining degradation or contamination of the lubricant which occur from combustion blow-by, oxidation from overheating, moisture from coolant leaks, and additive content. Physical testing of used lubricants is primarily utilized in ground and ship equipment applications, but may also have some beneficial application to aeronautical equipment as an adjunct to spectrometer testing.

2. Physical Description. NA

3. New Development Introduction. NA

4. Significant Interfaces. NA

5. New Features, Configurations, or Material. NA

H. CONCEPTS

1. Operational Concept. Navy Oil Analysis laboratories are located at shore Aircraft Intermediate Maintenance Departments (AIMDs), Shore Intermediate Maintenance Activities (SIMAs), Naval Aviation Depots (NAVAVNDEPOTs), and AIMDs onboard Landing Helicopter and Aircraft Carrier type ships. Oil Analysis laboratories at NAVAVNDEPOT Jacksonville, Florida, and NAVAVNDEPOT Cherry Point, North Carolina, are staffed with civilian personnel. Oil Analysis laboratories at AIMDs and SIMAs are staffed with enlisted Aviation Machinist's Mate (AD), Machinist's Mate (MM), Engineman (EN), and Gas Turbine System Technician-Mechanical (GSM) personnel.

2. Maintenance Concept. The NOAP is established as directed by the NAVAIR 17-15-50 series manual and the OPNAVINST 4790.2G Naval Aviation Maintenance Program.

a. Organizational. Organizational level maintenance consists of taking oil samples and forwarding to an Oil Analysis laboratory for processing. Sampling requirements are identified in the equipment's Maintenance Requirement Cards.

b. Intermediate. Enlisted personnel with Navy Enlisted Classification (NEC) 6403 man the Oil Analysis laboratories at AIMDs and SIMAs. The Oil Analysis Operator-Evaluator performs analysis of used lubricants and hydraulic fluids, evaluates the condition of the fluid or the end equipment that it came from, and recommends maintenance actions to the equipment operating activity.

c. Depot. The Oil Analysis laboratories at the depot level perform the same functions as the intermediate level activities.

d. Interim Maintenance. Technical support for the JOAP is provided by JOAP-TSC. Naval Air Technical Data and Engineering Service Command (NATEC) personnel provide on-site support for NOAP spectrometers. NATEC personnel also provide inspection and verification support for newly established or relocated NOAP laboratories.

e. Life-Cycle Maintenance Plan. NA

3. Manning Concept. There is no change to the current manpower requirements for the intermediate level Oil Analysis laboratories. Refer to Part II of this NTSP for specific activity manpower requirements.

4. Training Concept. Follow-on training for JOAP Oil Analysis Operator-Evaluators is provided in course A-491-0017, located at Naval Air Technical Training Center (NATTC) Pensacola, Florida. This course was moved from Naval Air Station Memphis, Tennessee, to NATTC Pensacola in March 1997. This is a single-site course utilized by all Department of Defense personnel that require JOAP training.

a. Initial Training. NA

b. Follow-on Training

Title	Defense Joint Oil Analysis Program Training
CIN	A-491-0017
Model Manager ..	NATTC Pensacola
Description	This course provides training for Department of Defense personnel in the knowledge and skills necessary to perform as an Operator-Evaluator on the atomic emission spectrometer, as well as training in evaluation techniques used in spectrometric analysis of used oils for wear metal content. It provides the knowledge required for successful spectrometric oil analysis laboratory operation on such subjects as oil analysis data automation, the correlation and certification program, and the recommending of maintenance action based on analytical results. It also includes principles of physical property. Upon completion the student will be able to perform as an oil analysis Operator-Evaluator in an intermediate level maintenance shop under limited supervision.
Location	NATTC Pensacola
Length	24 days
RFT date	Currently available
Skill identifier	NEC 6403

- TTE/TD Refer to Part IV.A.1 for a complete list of Technical Training Equipment (TTE) requirements. Training Devices (TDs) are NA.
- Prerequisites AD: C-601-2011, Aviation Machinist's Mate Common Core Class A1
MM: A-651-0053, Machinist's Mate Class A School
EN: A-652-0018, Engineman Class A School
GSM: A-652-0298, Gas Turbine Mechanical/Electrical Class A School

c. Student Profiles

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
AD 6403	C-601-2011, Aviation Machinist's Mate Common Core Class A1
MM 6403	A-651-0053, Machinist's Mate Class A School
EN 6403	A-652-0018, Engineman Class A School
GSM 6403	A-652-0298, Gas Turbine Mechanical/Electrical Class A School

d. Training Pipelines. NA

I. ONBOARD (IN-SERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development

a. Maintenance Training Improvement Program. The Maintenance Training Improvement Program (MTIP) is used to establish an effective and efficient training system responsive to fleet training requirements. MTIP is a training management tool that, through diagnostic testing, identifies individual training deficiencies at the organizational and intermediate levels of maintenance. MTIP is the comprehensive testing of one's knowledge. It consists of a bank of test questions managed through automated data processing. The Deputy Chief of Staff for Training assisted in development of MTIP by providing those question banks (software) already developed by the Navy. MTIP was implemented per OPNAVINST 4790.2 series. MTIP allows increased effectiveness in the application of training resources through identification of skills and knowledge deficiencies at the activity, work center, or individual technician level. Refresher training is concentrated where needed to improve identified skill and knowledge shortfalls. MTIP will be replaced by the Aviation Maintenance Training Continuum System (AMTCS). Current planning is for AMTCS to begin initial implementation in third quarter FY00.

COMNAVAIRPAC has discontinued using MTIP. They are currently using maintenance data products as a source to determine maintenance training deficiencies until AMTCS is implemented.

b. Aviation Maintenance Training Continuum System. AMTCS will provide career path training to the Sailor or Marine from their initial service entry to the end of their military career. AMTCS is planned to be an integrated system that will satisfy the training and administrative requirements of both the individual and the organization. The benefits will be manifested in the increased effectiveness of the technicians and the increased efficiencies of the management of the training business process. By capitalizing on technological advances and integrating systems and processes where appropriate, the right amount of training can be provided at the right time, thus meeting the CNO's mandated "just-in-time" training approach.

Technology investments enable the development of several state-of-the-art training and administrative tools: Computer-Based Training (CBT) for the technicians in the Fleet in the form of Interactive Courseware (ICW) with Computer Managed Instruction (CMI) and Computer Aided Instruction (CAI) for the schoolhouse.

Included in the AMTCS development effort is the Aviation Maintenance Training Continuum System - Software Module (ASM) which provides testing [Test and Evaluation (TEV)], recording [Electronic Training Jacket (ETJ)], and a Feedback system. The core functionality of these AMTCS tools are based and designed around the actual maintenance-related tasks the technicians perform, and the tasks are stored and maintained in a Master Task List (MTL) data bank. These tools are procured and fielded with appropriate COTS hardware and software, i.e. Fleet Training Devices (FTD) - Laptops, PCs, Electronic Classrooms (ECR), Learning Resource Centers (LRC), operating software, and network software and hardware.

Upon receipt of direction from OPNAV (N889H), AMTCS is to be implemented and the new tools integrated into the daily training environment of all participating aviation activities and supporting elements. AMTCS will serve as the standard training system for aviation maintenance training within the Navy and Marine Corps, and is planned to supersede the existing MTIP and Maintenance Training Management and Evaluation Program (MATMEP) programs.

2. Personnel Qualification Standards. NA

3. Other Onboard or In-Service Training Packages. NA

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers. NA

2. Program Documentation. NA

3. Technical Data Plan. A tri-service manual (NAVAIR 17-15-50, TM 38-301, and TO 33-1-37) contains consolidated procedures, methods, and evaluation criteria used by JOAP oil

analysis laboratories and customers. The JOAP-TSC is responsible for preparing and maintaining technical oversight for the JOAP manual and other JOAP technical documentation.

4. Test Sets, Tools, and Test Equipment. NA

5. Repair Parts. Navy Inventory Control Point is responsible for inventory management of calibration standards for JOAP and for coordinating supply related matters between the Navy and the other services.

6. Human Systems Integration. NA

K. SCHEDULES. The Navy currently operates and maintains Oil Analysis laboratories at the locations identified in the following table. CVN 76, USS Ronald Reagan, will be commissioned in Calendar Year (CY) 2002.

LOCATION	PHYSICAL TESTING CAPABILITIES	SPECTROMETER INSTRUMENT MODEL
AIMD NAF Atsugi	NA	Spectroil
AIMD NAS Key West	NA	Spectroil
AIMD NAS Lemoore	Water content Flash point Particle count	Spectroil
AIMD NAS Meridian	Aquatest 8	Spectroil
AIMD NAS Oceana	Water contamination	Spectroil
AIMD Naval Ship Yard, Pearl Harbor	NA	Spectroil
AIMD NS Roosevelt Roads	NA	Spectroil
AIMD NAS Sigonella	NA	Spectroil
NAVAVNDEPOT Cherry Point	Water analysis Total Acid Number	Spectroil
NAVAVNDEPOT Jacksonville	Water content Particle count	Spectroil
SIMA NS Mayport	Viscosity Neutralization Water content Particle count	Spectroil

LOCATION	PHYSICAL TESTING CAPABILITIES	SPECTROMETER INSTRUMENT MODEL
SIMA NAVSTA Norfolk	Water contamination Particle count Neutrality Fuel dilution Viscosity	Spectroil
SIMA NAVSTA San Diego	Ground, ships	Spectroil
CV 63 USS Kitty Hawk	NA	Spectroil
CV 64 USS Constellation	NA	Spectroil
CVN 65 USS Enterprise	NA	Spectroil
CV 67 USS John F. Kennedy	NA	Spectroil
CVN 68 USS Nimitz	NA	Spectroil
CVN 69 USS Dwight D. Eisenhower	Water contamination Flash point	Spectroil
CVN 70 USS Carl Vinson	Ships	Spectroil
CVN 71 USS Theodore Roosevelt	NA	Spectroil
CVN 72 USS Abraham Lincoln	Neutrality Water Viscosity Fuel dilution Flash point	Spectroil
CVN 73 USS George Washington	NA	Spectroil
CVN 74 USS John C. Stennis	NA	Spectroil
CVN 75 USS Harry S. Truman	NA	Spectroil
CVN 76 USS Ronald Reagan	TBD	TBD
LHA 1 USS Tarawa	NA	Spectroil
LHA 2 USS Saipan	NA	Spectroil
LHA 3 USS Belleau Wood	NA	Spectroil
LHA 4 USS Nassau	NA	Spectroil
LHA 5 USS Peleliu	Aquatest Hydraulic patch test	Spectroil
LHD 1 USS Wasp	NA	Spectroil

LOCATION	PHYSICAL TESTING CAPABILITIES	SPECTROMETER INSTRUMENT MODEL
LHD 2 USS Essex	NA	Spectroil
LHD 3 USS Kearsarge	Water contamination Viscosity Open cup flash point Particle count	Spectroil
LHD 4 USS Boxer	NA	Spectroil
LHD 5 USS Bataan	NA	Spectroil
LHD 6 USS Bonhomme Richard	NA	Spectroil
LHD 7 USS Iwo Jima	NA	Spectroil
MCS 12 USS Inchon	NA	Spectroil

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
Joint Oil Analysis Program	OPNAVINST 4731.1A	PMA205	Approved Dec 90
Navy Oil Analysis Program for Aeronautical Equipment	NAVAIRINST 4731.1		Approved Dec 84

PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: Total Force Manpower Management System

DATE: 2/1/00

ACTIVITY, UIC	PFYs	CFY00	FY01	FY02	FY03	FY04
FLEET SUPPORT ACTIVITIES - NAVY						
NAS Key West AIMD 44320	1	0	0	0	0	0
NAS Oceana AIMD 44327	1	0	0	0	0	0
NAS Sigonella AIMD 44330	1	0	0	0	0	0
NAVAIRSYSCOM JOAP Technical Advisor 45656	1	0	0	0	0	0
NAVSTA Roosevelt Roads AIMD 44373	1	0	0	0	0	0
SIMA Mayport 32779	1	0	0	0	0	0
SIMA Norfolk 32770	1	0	0	0	0	0
USS Bataan (LHD 5) 21879	1	0	0	0	0	0
USS Eisenhower (CVN 69) 03369	1	0	0	0	0	0
USS Enterprise (CVN 65) 03365	1	0	0	0	0	0
USS George Washington (CVN 73) 21412	1	0	0	0	0	0
USS Harry S. Truman (CVN 75) 21853	1	0	0	0	0	0
USS Inchon (MCS 12) 20009	1	0	0	0	0	0
USS Iwo Jima (LHD 7) 23027	0	1	0	0	0	0
USS John F. Kennedy (CV 67) 03367	1	0	0	0	0	0
USS Kearsarge (LHD 3) 21700	1	0	0	0	0	0
USS Nassau (LHA 4) 20725	1	0	0	0	0	0
USS Nimitz (CVN 68) 03368	1	0	0	0	0	0
USS Ronald Reagan (CVN 76) 22178	0	0	0	1	0	0
USS Saipan (LHA 2) 20632	1	0	0	0	0	0
USS Theodore Roosevelt (CVN 71) 21247	1	0	0	0	0	0
USS Wasp (LHD 1) 21560	1	0	0	0	0	0
NAF Atsugi AIMD 44323	1	0	0	0	0	0
NAS Corpus Christi AIMD 30244	1	0	0	0	0	0
NAS Fallon AIMD 44317	1	0	0	0	0	0
NAS Lemoore AIMD 44321	1	0	0	0	0	0
NAS Point Mugu AIMD 44328	1	0	0	0	0	0
NAS Whidbey Island AIMD 44329	1	0	0	0	0	0
SIMA San Diego 65918	1	0	0	0	0	0
USS Abraham Lincoln (CVN 72) 21297	1	0	0	0	0	0
USS Belleau Wood (LHA 3) 20633	1	0	0	0	0	0
USS Bonhomme Richard (LHD 6) 22202	1	0	0	0	0	0
USS Boxer (LHD 4) 21808	1	0	0	0	0	0
USS Carl Vinson (CVN 70) 20993	1	0	0	0	0	0
USS Constellation (CV 64) 03364	1	0	0	0	0	0
USS Essex (LHD 2) 21533	1	0	0	0	0	0
USS John C. Stennis (CVN 74) 21847	1	0	0	0	0	0
USS Kitty Hawk (CV 63) 03363	1	0	0	0	0	0
USS Peleliu (LHA 5) 20748	1	0	0	0	0	0
USS Tarawa (LHA 1) 20550	1	0	0	0	0	0
TOTAL:	38	1	0	1	0	0

Note: Billet and Personnel Requirements for USS Ronald Reagan CVN 76 were estimated as compared to a similar platform.

II.A.1.b. BILLETTS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
FLEET SUPPORT ACTIVITIES - NAVY					
NAS Key West AIMD, 44320					
ACDU	0	1	AD1	6403	
	0	1	AD2	6403	
ACTIVITY TOTAL:	0	2			
NAS Oceana AIMD, 44327					
ACDU	0	2	AD1	6403	
	0	7	AD2	6403	
ACTIVITY TOTAL:	0	9			
NAS Sigonella AIMD, 44330					
ACDU	0	2	AD2	6403	
ACTIVITY TOTAL:	0	2			
NAVAIRSYSCOM JOAP Technical Advisor, 45656					
ACDU	0	1	POC	6403	
ACTIVITY TOTAL:	0	1			
NAVSTA Roosevelt Roads AIMD, 44373					
ACDU	0	1	AD1	6403	6418
	0	1	AD1	6418	6403
ACTIVITY TOTAL:	0	2			
SIMA Mayport, 32779					
ACDU	0	1	GSMC	6403	
	0	1	GSM1	6403	
	0	2	GSM2	6403	
ACTIVITY TOTAL:	0	4			
SIMA Norfolk, 32770					
ACDU	0	1	EN2	6403	
	0	1	GSM1	6403	
	0	1	GSM2	6403	
	0	1	MM1	3395	6403
	0	2	MM1	6403	
	0	2	MM2	6403	
SIMA Norfolk, 32770, FY01 Increment					
ACDU	0	2	GSM1	6403	
ACTIVITY TOTAL:	0	10			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USS Bataan (LHD 5), 21879					
ACDU	0	1	AD1	6403	6419
	0	1	AD2	6403	
ACTIVITY TOTAL:	0	2			
USS Dwight D. Eisenhower (CVN 69), 03369					
ACDU	0	2	AD2	6403	
ACTIVITY TOTAL:	0	2			
USS Enterprise (CVN 65), 03365					
ACDU	0	2	AD2	6403	
ACTIVITY TOTAL:	0	2			
USS George Washington (CVN 73), 21412					
ACDU	0	1	AD2	6403	
ACTIVITY TOTAL:	0	1			
USS Harry S. Truman (CVN 75), 21853					
ACDU	0	2	AD2	6403	
ACTIVITY TOTAL:	0	2			
USS Inchon (MCS 12), 20009					
ACDU	0	1	AD1	6424	6403
TAR	0	1	AD2	6403	
ACTIVITY TOTAL:	0	2			
USS Iwo Jima (LHD 7), 23027, FY00 Increment					
ACDU	0	1	AD1	6403	6419
	0	1	AD2	6403	
ACTIVITY TOTAL:	0	2			
USS John F. Kennedy (CV 67), 03367					
ACDU	0	1	AD1	6403	
	0	1	AD2	6403	
ACTIVITY TOTAL:	0	2			
USS Kearsarge (LHD 3), 21700					
ACDU	0	1	AD1	6403	6419
	0	1	AD2	6403	
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETTS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USS Nassau (LHA 4), 20725					
ACDU	0	1	AD1	6403	6419
	0	1	AD2	6403	
ACTIVITY TOTAL:	0	2			
USS Nimitz (CVN 68), 03368					
ACDU	0	2	AD2	6403	
ACTIVITY TOTAL:	0	2			
USS Ronald Reagan (CVN 76), 22178, FY02 Increment					
ACDU	0	2	AD2	6403	
ACTIVITY TOTAL:	0	2			
USS Saipan (LHA 2), 20632					
ACDU	0	1	AD1	6403	6419
	0	1	AD2	6403	
ACTIVITY TOTAL:	0	2			
USS Theodore Roosevelt (CVN 71), 21247					
ACDU	0	1	AD1	6403	
	0	1	AD2	6403	
ACTIVITY TOTAL:	0	2			
USS Wasp (LHD 1), 21560					
ACDU	0	1	AD1	6403	6419
	0	1	AD2	6403	
ACTIVITY TOTAL:	0	2			
NAF Atsugi AIMD, 44323					
ACDU	0	1	AD1	6403	
	0	2	AD2	6403	
ACTIVITY TOTAL:	0	3			
NAS Corpus Christi AIMD, 30244					
ACDU	0	2	AD2	6403	
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
NAS Fallon AIMD, 44317					
ACDU	0	1	AD2	6403	
ACTIVITY TOTAL:	0	1			
NAS Lemoore AIMD, 44321					
ACDU	0	1	AD1	6403	
	0	2	AD2	6403	
ACTIVITY TOTAL:	0	3			
NAS Point Mugu AIMD, 44328					
ACDU	0	1	ADC	6403	9502
ACTIVITY TOTAL:	0	1			
NAS Whidbey Island AIMD, 44329					
ACDU	0	2	AD2	6403	
ACTIVITY TOTAL:	0	2			
SIMA San Diego, 65918					
ACDU	0	1	EN2	6403	
	0	1	MM1	6403	
	0	1	MM2	6403	
ACTIVITY TOTAL:	0	3			
USS Abraham Lincoln (CVN 72), 21297					
ACDU	0	2	AD2	6403	
ACTIVITY TOTAL:	0	2			
USS Belleau Wood (LHA 3), 20633					
ACDU	0	1	AD1	6403	6419
	0	1	AD2	6403	
ACTIVITY TOTAL:	0	2			
USS Bonhomme Richard (LHD 6), 22202					
ACDU	0	1	AD1	6403	6419
	0	1	AD2	6403	
	0	1	AD2	6424	6403
ACTIVITY TOTAL:	0	3			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USS Boxer (LHD 4), 21808					
ACDU	0	1	AD1	6403	6419
	0	1	AD2	6403	
ACTIVITY TOTAL:	0	2			
USS Carl Vinson (CVN 70), 20993					
ACDU	0	1	AD1	6403	
	0	1	AD2	6403	
ACTIVITY TOTAL:	0	2			
USS Constellation (CV 64), 03364					
ACDU	0	1	AD1	6403	
	0	1	AD2	6403	
ACTIVITY TOTAL:	0	2			
USS Essex (LHD 2), 21533					
ACDU	0	1	AD1	6403	6419
	0	1	AD2	6403	
ACTIVITY TOTAL:	0	2			
USS John C. Stennis (CVN 74), 21847					
ACDU	0	2	AD2	6403	
ACTIVITY TOTAL:	0	2			
USS Kitty Hawk (CV 63), 03363					
ACDU	0	2	AD2	6403	
ACTIVITY TOTAL:	0	2			
USS Peleliu (LHA 5), 20748					
ACDU	0	1	AD1	6403	6419
	0	1	AD2	6403	
ACTIVITY TOTAL:	0	2			
USS Tarawa (LHA 1), 20550					
ACDU	0	1	AD1	6403	6419
	0	1	AD2	6403	
ACTIVITY TOTAL:	0	2			

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY00		FY01		FY02		FY03		FY04	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NAVY FLEET SUPPORT ACTIVITIES - ACDU													
ADC	6403 9502		1		0		0		0		0		0
AD1	6403		9		0		0		0		0		0
AD1	6403 6418		1		0		0		0		0		0
AD1	6403 6419		11		1		0		0		0		0
AD1	6418 6403		1		0		0		0		0		0
AD1	6424 6403		1		0		0		0		0		0
AD2	6403		49		1		0		2		0		0
AD2	6424 6403		1		0		0		0		0		0
EN2	6403		2		0		0		0		0		0
GSMC	6403		1		0		0		0		0		0
GSM1	6403		2		0		2		0		0		0
GSM2	6403		3		0		0		0		0		0
MM1	3395 6403		1		0		0		0		0		0
MM1	6403		3		0		0		0		0		0
MM2	6403		3		0		0		0		0		0
POC	6403		1		0		0		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - TAR													
AD2	6403		1		0		0		0		0		0
SUMMARY TOTALS:													
NAVY FLEET SUPPORT ACTIVITIES - ACDU													
			90		2		2		2		0		0
NAVY FLEET SUPPORT ACTIVITIES - TAR													
			1		0		0		0		0		0
GRAND TOTALS:													
NAVY - ACDU													
			90		2		2		2		0		0
NAVY - TAR													
			1		0		0		0		0		0

II.A.2.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY DEACTIVATION SCHEDULE

SOURCE: Total Force Manpower Management System

DATE: 2/1/00

ACTIVITY, UIC	PFYs	CFY00	FY01	FY02	FY03	FY04
FLEET SUPPORT ACTIVITIES - NAVY USS Constellation (CV 64) 03364	0	0	0	0	1	0
TOTAL:	0	0	0	0	1	0

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
FLEET SUPPORT ACTIVITIES - NAVY					
SIMA Norfolk, 32770, FY01 Increment					
ACDU	0	2	MM1	6403	
ACTIVITY TOTAL:	0	2			
USS Carl Vinson (CVN 70), 20993, FY02 Increment					
ACDU	0	1	AD2	6403	
ACTIVITY TOTAL:	0	1			

II.A.2.c. TOTAL BILLETS TO BE DELETED IN OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY00		FY01		FY02		FY03		FY04	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NAVY FLEET SUPPORT ACTIVITIES - ACDU													
AD1	6403		1		0		0		0		-1		0
AD2	6403		2		0		0		-1		-1		0
MM1	6403		2		0		-2		0		0		0
SUMMARY TOTALS:													
NAVY FLEET SUPPORT ACTIVITIES - ACDU													
			5		0		-2		-1		-2		0
GRAND TOTALS:													
NAVY - ACDU													
			5		0		-2		-1		-2		0

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

DESIG	PNEC/SNEC		PFYs		CFY00		FY01		FY02		FY03		FY04	
	PMOS/SMOS	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	

TRAINING ACTIVITY, LOCATION, UIC: Naval Air Technical Training Unit, Pensacola, Florida, 63093

INSTRUCTOR BILLETS

ACDU														
POC	6403	9502	0	1	0	1	0	1	0	1	0	1	0	1
PO1	6403	9502	0	1	0	1	0	1	0	1	0	1	0	1
TOTAL:			0	2	0	2	0	2	0	2	0	2	0	2

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs		CFY00		FY01		FY02		FY03		FY04	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
Naval Air Technical Training Unit, Pensacola, Florida, 63093													
	NAVY		6.2		2.2		2.1		2.1		2.1		2.1
SUMMARY TOTALS:													
	NAVY		6.2		2.2		2.1		2.1		2.1		2.1
GRAND TOTALS:													
			6.2		2.2		2.1		2.1		2.1		2.1

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY00 +/- CUM	FY01 +/- CUM	FY02 +/- CUM	FY03 +/- CUM	FY04 +/- CUM
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c. OFFICER - USMC Not Applicable

d. ENLISTED - USMC Not Applicable

a. OFFICER - USN Not Applicable

b. ENLISTED - USN

Fleet Support Billets ACDU and TAR

ADC	6403	9502	1	0	1	0	1	0	1	0	1	0	1
AD1	6403		9	0	9	0	9	0	9	-1	8	0	8
AD1	6403	6418	1	0	1	0	1	0	1	0	1	0	1
AD1	6403	6419	11	1	12	0	12	0	12	0	12	0	12
AD1	6418	6403	1	0	1	0	1	0	1	0	1	0	1
AD1	6424	6403	1	0	1	0	1	0	1	0	1	0	1
AD2	6403		50	1	51	0	51	-1	50	1	51	0	51
AD2	6424	6403	1	0	1	0	1	0	1	0	1	0	1
EN2	6403		2	0	2	0	2	0	2	0	2	0	2
GSMC	6403		1	0	1	0	1	0	1	0	1	0	1
GSM1	6403		2	0	2	2	4	0	4	0	4	0	4
GSM2	6403		3	0	3	0	3	0	3	0	3	0	3
MM1	3395	6403	1	0	1	0	1	0	1	0	1	0	1
MM1	6403		3	0	3	-2	1	0	1	0	1	0	1
MM2	6403		3	0	3	0	3	0	3	0	3	0	3
POC	6403		1	0	1	0	1	0	1	0	1	0	1

Staff Billets ACDU and TAR

POC	6403	9502	1	1	2	1	3	1	4	1	5	1	6
PO1	6403	9502	1	1	2	1	3	1	4	1	5	1	6

Chargeable Student Billets ACDU and TAR

6	-4	2	0	2	0	2	0	2	0	2	0	2
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TOTAL USN ENLISTED BILLETS:

Fleet Support			91	2	93	0	93	-1	92	0	92	0	92
Staff			2	2	4	2	6	2	8	2	10	2	12
Chargeable Student			6	-4	2	0	2	0	2	0	2	0	2

II.B. PERSONNEL REQUIREMENTS

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: A-491-0017, Defense Joint Oil Analysis Program Training
COURSE LENGTH: 3.6 Weeks **TOUR LENGTH:** 36 Months
ATTRITION FACTOR: 10% **BACKOUT FACTOR:** 0.07

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY00		FY01		FY02		FY03		FY04	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
Naval Air Technical Training	Unit, Pensacola											
	NAVY	ACDU		36		34		34		34		34
		TAR		0		0		0		0		0
		TOTAL:		36		34		34		34		34

PART III - TRAINING REQUIREMENTS

The following elements are not affected by JOAP and, therefore, are not included in Part III of this NTSP:

III.A.1 Initial Training Requirements

III.A.2. Follow-on Training

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. TRAINING COURSE REQUIREMENTS

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: A-491-0017, Defense Joint Oil Analysis Program Training

TRAINING ACTIVITY: Naval Air Technical Training Unit

LOCATION, UIC: Pensacola, Florida, 63093

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

CFY00		FY01		FY02		FY03		FY04		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	36		34		34		34		34	ATIR
	32		31		31		31		31	Output
	2.2		2.1		2.1		2.1		2.1	AOB
	2.2		2.1		2.1		2.1		2.1	Chargeable

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the JOAP 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

CIN, COURSE TITLE: A-491-0017, Defense Joint Oil Analysis Program Training

TRAINING ACTIVITY: NATTC

LOCATION, UIC: Pensacola, 63093

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
01	Spectroil M/N Spectrometer	2	Mar 97	GFE	Onboard
02	Baird A/E35U-3A Spectrometer	1	Mar 97	GFE	Onboard
03	Spectrometer Interface Computer	2	Mar 97	GFE	Onboard
04	Laboratory Oven	1	Mar 97	GFE	Onboard
05	Fourier Transform Infrared Spectroscopy	1	Mar 97	GFE	Onboard
05	Rod Electrode Sharpener	2	Mar 97	GFE	Onboard
06	Setaflash Tester	1	Mar 97	GFE	Onboard
GPTE					
07	Ultrasonic Cleaner	1	Mar 97	GFE	Onboard
08	Hydraulic Analysis Kit	1	Mar 97	GFE	Onboard
09	pH Meter	1	Mar 97	GFE	Onboard
10	Vacuum Pump	1	Mar 97	GFE	Onboard
SPTE					
11	Analytical Balance Beam	1	Mar 97	GFE	Onboard
12	Binocular Microscope	1	Mar 97	GFE	Onboard
13	Viscometer	3	Mar 97	GFE	Onboard
14	HIAC Particle Counter	1	Mar 97	GFE	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: A-491-0017, Defense Joint Oil Analysis Program Training

TRAINING ACTIVITY: NATTC

LOCATION, UIC: Pensacola, 63093

TYPES OF MATERIAL OR AID

Instructor Guides

Student Guides

QTY	DATE	
REQD	REQD	STATUS
5	Mar 97	Onboard
50	Mar 97	Onboard

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: A-491-0017, Defense Joint Oil Analysis Program Training
TRAINING ACTIVITY: NATTC
LOCATION, UIC : Pensacola, 63093

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NAVAIR 17-15-50.1 Introduction, Theory, Benefits, Customer Sampling Procedures, Programs and Reports	Hard copy	20	Mar 97	Onboard
NAVAIR 17-15-50.2 Spectrometric and Physical Test Laboratory Operating Requirements and Procedures	Hard copy	20	Mar 97	Onboard
NAVAIR 17-15-50.3 Laboratory Analytical Methodology and Equipment Criteria	Hard copy	20	Mar 97	Onboard
NAVAIR 17-15-50.4 Laboratory Analytical Methodology and Equipment Criteria (Non-aeronautical)	Hard copy	20	Mar 97	Onboard
NAVAIR 17-15-BF-92 Operation Instruction, Maintenance Instructions for Fluid Analysis Spectrometer type A/E35U-3A	Hard copy	20	Mar 97	Onboard
NAVAIR 17-15-BF-95 Operation and User Maintenance Manual for Spectroil M/N Spectrometer	Hard copy	20	Mar 97	Onboard

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
PDA	Conducted Analysis of MPT Requirements	Oct 91	Completed
DCNO	Allocated Fleet, Instructor, Support, and Students Billets	Jul 93	Completed
DCNO	Programmed Manpower and Training Resource Requirements	Sep 93	Completed
PDA	Distributed Draft NTP for Review	Oct 93	Completed
PDA	Delivered Proposed NTP to OPNAV	Jan 94	Completed
TSA	Delivered Curricula Materials to NAS Memphis	Jan 94	Completed
DCNO	Approved NTP	Mar 94	Completed
TSA	Delivered Curricula Materials to NATTC Pensacola	Mar 97	Completed
TSA	Delivered TTE to NATTC Pensacola	Mar 97	Completed
TSA	Began Training at NATTC Pensacola	Mar 97	Completed
DA	Develop Draft NTSP (Update)	Dec 99	Completed
PDA	Distribute Draft NTSP (Update) for Fleet Review	Feb 00	Pending
OPO	Approve NTSP (Update)	May 00	Pending

PART VI - ACTION ITEMS / ACTION REQUIRED

ACTION ITEM OR
ACTION REQUIRED

COMMAND ACTION DUE DATE STATUS

None

PART VII - POINTS OF CONTACT

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