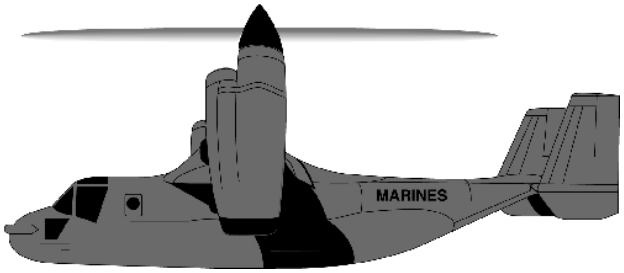
AUGUST 2007

TPS EXPRESS NEWSLETTER



NOTICE

A new base-lined package will be released, date 15 SEPTEMBER 2007. It will have the entire NEWSLETTER releases, including this one, incoprarted in to each document.

The NAVAIR GENERIC OTPS RFP (aka The Red Team Package) was released on 25 August 2006. The latest hardware, software and data requirements were updated based on new technology, recent policy changes and lessons learned. Future updates of each of the documents that makes up the package will be tracked and changes identified. A completely updated package will be released on an annual basis.

The need for updates occurs throughout the year. Some updates are more important than others. Waiting a year to disseminate the important updates has proven to be too long. This Newsletter will be used as a means to provide updated information on a timely basis.
It will be published, as required, no more often than monthly.

Incorporating new requirements should always be considered when preparing a RFP or RFQ for a new TPS development effort. Some requirements should be "immediately" incorporated in existing contracts, taking into account cost and schedule impact. These "immediate" requirements will be identified. Not incorporating them will cause the Navy to retrofit the TPS after contract acceptance.

Forward comments or questions to:

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Summary of this NEWSLETTERS information:

The following changes should IMMEDIATELY be incorporated when preparing for a new and, if feasible, into all existing TPS contracts.

None in this NEWSLETTER.

The following changes should be incorporated when preparing for new TPS contracts.

07-14 TECHEVAL

Provides guidance for TECHEVAL

07-15 PHYSICAL CONFIGURATION AUDIT (PCA)

Provides guidance for PCA

07-16 SOURCE DATA

Provides guidance on source data used for TPS Development.

07-17 Program Manager's User Guide

Changed title of Program Manger's User Guide to Program Manger's User Manual

07-18 SMART TPS

Provides requirement for incorporation of SMART TPS capability.

07-19 Attachment 1, SCOPE

Provides tailoring requirements for developing TPS for CASS and RTCASS.

07-20 Revision Table

Deleted Revision Table from each document. NEWSLETTERs will identify changes to be made thru out the year until the documents are re-baselined. A master change file will be maintained for record purposes.

07-14 TECHEVAL

PROGRAM MANAGER'S USER MANUAL for the NAVAIR GENERIC OPERATIONAL TEST PROGRAM SET (OTPS) REQUEST FOR PROPOSAL (RFP): Replace paragraph 2.2 (i) and 5.1.1 with the paragraphs below.

2.2 OTPS Acquisition Manager (Team Leader) Responsibilities

(i) Technical Evaluation (TECHEVAL) - Contact Greg Herold at the Naval Air Warfare Center-Aircraft Division, (301) 995-6443 concerning scheduling and funding.

NOTE; Offload TECHEVAL is funded by PMA-260, Direct to CASS TECHEVAL is funded by the Platform PMA.

Traditional TECHEVAL will be basic to the contract. By PDR, a decision will be made as to using CAT vice Traditional TECHEVAL. Performing CAT must be agreed to by the Government PM, TE Team/Program Lead and the TPS Developer

TECHEVAL is an independent technical evaluation on a Production representative OTPS to determine operational effectiveness and suitability. TECHEVAL encompasses fault insertion, repeatability and transportability tests as well as performing a Fleet Assessment (FA), which will be performed at a site (TBD) prior to the completion of either Traditional TECHEVAL or Combined Acceptance Tests.

FAs will be performed at a site (TBD) prior to the completion of TECHEVAL. The purpose of the FA is to take the contractors developed OTPS out of the lab environment and utilize the TPSs in actual repair of non-rfi UUTs. The FA will be performed by a qualified Navy/Marine I level technician. TECHEVAL personnel will observe the fleet assessment and include the results in the TECHEVAL report. Discrepancies discovered during this evolution will be documented in a Rapid Action Discrepancy Report (RADR). The Government Program Management and TECHEVAL Team Lead will decide which of the (2) TECHEVAL processes are best suited for the particular OTPS

(1) TRADITIONAL TECHNICAL EVALUATION – A traditional TECHEVAL is performed 30 days after the completion of Pilot Production Acceptance Tests (PPAT). The OTPS and all related documentation (MTPSI, TPI, etc) will be shipped to St. Inigoes, Maryland for testing and review. A fleet tester (Navy/Marine) will be used (if available) to operate the OTPS. At the discretion of the program manager, TECHEVAL may be performed at the contractor's facility due to complexity of the UUT. In the later case, transportability will be performed at the government test facility located in St. Inigoes, MD

(2) COMBINED ACCEPTANCE TESTING (CAT) - CAT is performed at the contractors facility when PPAT is 50% completed. A fleet tester (Navy/Marine) will be used (if available) to operate the OTPS. Transportability testing will be performed at the government test facility located in St. Inigoes, MD

5.1.1 Special Topics – These topics are not part of the RFP, but are topics that must be addressed before the solicitation is released and, in some cases, during the performance of the contract.

(d) TECHEVAL – Ensure that the TECHEVAL scheduling and funding has been planned. Utilize the information in paragraph 2.2. (i) above.

07-15 PCA

PROGRAM MANAGER'S USER MANUAL for the NAVAIR GENERIC OPERATIONAL TEST PROGRAM SET (OTPS) REQUEST FOR PROPOSAL (RFP): Add the paragraph below.

(?) Physical Configuration Audit (PCA) - Contact Tom Dehnee ??? at the Naval Air Warfare Center-Aircraft Division, (301) 995-???? Concerning scheduling and funding.

07-16 SOURCE DATA

PROGRAM MANAGER'S USER GUIDE for the NAVAIR GENERIC OPERATIONAL TEST PROGRAM SET (OTPS) REQUEST FOR PROPOSAL (RFP): Replace paragraph 2.2 (c) with the paragraphs below.

2.2 OTPS Acquisition Manager (Team Leader) Responsibilities

(c) Ensure that adequate source data on UUTs is available and determine its quality. If the UUT source data is inadequate for a competitive procurement, a sole source or organic procurement may be required.

NOTE: The information below was prepared by Team 4.8.

DATA REQUIREMENTS FOR TPS DEVELOPMENT

ITEM	Source	Required
Technical Data Package, Drawings	TDP	Yes
Assembly drawings of all assemblies (WRA and SRAs)	TDP	Yes
Parts lists	TDP	Yes
Interconnect diagrams for WRAs	TDP	Yes
Schematics for SRAs	TDP	Yes
Wire lists for WRAs w/o CCA motherboards	TDP	Yes
Theory of operation (may be available from Tech Pub	Tech Pub	Yes

Proprietary data	TDP	
Programmable device source data (ROMs, PALs, EPROMs, FPGAs etc	TDP	Yes
Source code on OFPs and mission software		Yes
Built in Test source data		Yes
Test Requirements Documents (TRDs)		Yes
Test Specifications (WRAs only)		Yes
Acceptance test procedures	TDP	Yes
Factory test procedures		Yes
Environmental requirements		Yes
Interface Control Documents (ICD) manufacturer's		Yes
Engineering Change Notice / Proposal (ECN / ECP)		Yes

Assembly drawings of all assemblies (WRA and SRAs)
- Used to identify parts location
- Physical size and structure of UUT.
- Used for designing holding fixtures

Parts lists
- Used to identify piece parts by type and manufacturer
- Used to identify UUT mating connector type and manufacturer

Interconnect diagrams for WRAs
- Required to determine how the WRA functions
- Used to aid in fault isolation
- Determine buss structure

Schematics for SRAs
- Identifies the function of the UUT

Wire lists for WRAs w/o CCA motherboards
- Required to determine how the WRA functions
- Used to aid in fault isolation
- Determine buss structure
- Can be eliminated if interconnecting diagram is provided

Theory of operation (may be available from Tech Pub
- Provides theory of operation
- Allows functional testing

Proprietary data
- Any proprietary data rights need to be disclosed
- May require non disclosure agreement with OEM

Programmable device source data (ROMs, PALs, EPROMs, FPGAs etc
- Required to perform DATPG testing of devices

Source code on OFPs and mission software
Required if OFP is to be tested
Required if OFP is to be reloaded after testing and repair
Required if OFP provides Self Test capability

Built in Test source data
Required to make full use of BIT capabilities
Shortens run times
Allows I level to capitalize on O level testing

Test Requirements Documents (TRDs)
Nice to have
Provides all testing requirements as identified by developer
Not always technically correct

Acceptance test procedures
Provides minimum tests required to ensure that the UUT is RFI

Factory test procedures
Allows capitalization on existing effort

Environmental requirements
Required if the UUT has specific cooling requirement, liquid, forced air etc.
May be able to determine requirements from the WRA tech pub

Interface Control Documents (ICD) manufacturer's
Provides how each circuit is designed to be used (design interface) in the system.
Should also provide special timing characteristics, waveforms, and functional / logic specifications.

Engineering Change Notice / Proposal (ECN / ECP)
Provides information on changes to the baseline or proposed changes.

07-17 Program Manager's User Guide

PROGRAM MANAGER'S USER GUIDE for the NAVAIR GENERIC OPERATIONAL TEST PROGRAM SET (OTPS) REQUEST FOR PROPOSAL (RFP): Replace the word Guide with Manual thru out the document.

07-18 SMART TPS

ATTACHMENT 2, MIL-PRF-32070 ADDENDUM: Add the following to Attachment 2.

3.35 SMART TPS. The Test Program Set shall utilize the logfile/cross reference processing capability to capture test failure and Probable Cause Of Failure (PCOF) data. The inclusion of a logfile/cross reference processing capability is described in T00K Volume 1 paragraph 3.2.2.3.2.

4.2.35 SMART TPS. Verify by examination that the logfile/cross reference processing capability is included in the TPS.

Table III. Requirement/verification cross reference matrix.

3.35	SMART TPS		X		X		4.2.35

07-19 ATTACHMENT 1, SCOPE

ATTACHMENT 1, STATEMENT OF WORK, replace the existing tailoring paragraph 1. with the following:

1. SCOPE

This Statement of Work (SOW) defines the efforts for the program management, logistics, design, development, fabrication, inspection, production, and fielding for the Test Program Sets (TPS) developed for the Units Under Test (UUTs) listed in Attachment 1A**.** Those data items identified as (MANDATORY) are essential and shall not be deleted.

TAILORING ALTERNATIVE:
SELECT THE APPROPRIATE WORDS FOR
THE PARAGRAPH BELOW

These TPS will provide support for the (Aircraft or Weapon System). The TPSs shall be used at the (Intemediate or Depot or Intermediate and Depot) level.

TAILORING ALTERNATIVE:
ONE OF THE FOLLOWING PARAGRAPHS
MUST BE SELECTED

FOR CASS ONLY SELECT a.

FOR CASS AND RTCASS SELECT b.

a. The TPS shall be designed, developed, integrated and tested on the Consolidated Automated Support System (CASS).

b. The TPS shall be designed, developed, integrated and tested on the Consolidated Automated Support System (CASS). The TPS performance shall be limited to the performance of the Reconfigurable Transportable Consolidated Automated Support System (RTCASS).

The TPS Developer shall convert the CASS developed TPS's (including Interface Device Self Test) for use on RTCASS using the RTCASS conversion toolset (GFI RFP section H3). An RTCASS station will be made available to a TPS developer at Saint Inigoes, Maryland so, the TPS developer can identify a timeframe to demonstrate each TPS end-to-end performance on RTCASS no later than the completion of FAT. Any failures identified on the RTCASS after a successful fault free demonstration of each TPS on CASS and processing through the RTCASS conversion process will be the responsibility of the TPS developer. Any failures identified during the execution of a TPS's end-to-end performance on RTCASS shall be documented, passed to and be the responsibility of PMA260D2.

07-20 Revision Table

Delete Revision Table from all documents.

TPS EXPRESS NEWSLETTER

Summary of previous editions:

FEBRUARY 2007 NEWSLETTER

07-01 Type Equipment Code (TEC).

Added an example to the Program Manager's Users Guide, paragraph 5.1.4.2 Logistics, (i).

07-02 ATS Source Data Repository (ASDR)

Added the LMI Data Base as a delivery to ASDR. Documents affected CDRLs.

07-03 Unique Identification (UID)

Provided a new UID statement of work and sample drawing. Documents affected ATTACHMENT 2, PERFORMANCE SPECIFICATION ADDENDUM.

07-04 OTPS Quantities

Added wording to estimate the OTPS quantities and plan for contingencies, including FMS to the Program Manager's Users Guide, paragraph 5.1.2 Contracts Sections A-M, (b) Section B

MARCH & APRIL 2007 NEWSLETTER

None

MAY 2007 NEWSLETTER

07-05 CASS CONFIGURATIONS

Identifies the requirement to determine CASS configuration/quantities; and to coordinate with PMA-260 for availability.

07-06 CASS INSTALLATION AND MAINTENANCE

Identifies the use of a Government Installation Team for CASS installation and the use of a Government PBL contract for CASS maintenance.

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07-07 TEST STATEMENT NUMBERING

Provides additional information on Test Statement Numbering

07-08 TECHEVAL WEB SITE

Deletes reference to a TECHEVAL Web Site. The Web Site was discontinued.

JULY 2007 NEWSLETTER

07-09 WIRE SEGMENTS IN A PCOF

Limits the number of wire segments in self-test PCOF.

07-10 WUC SERIES 41

Specifies the use of WUC 41 series.

07-11 TECHNICAL DATA PACKAGE NATIVE FILES

Deliver Technical Data Package native files vice..DXF format to ASDR

07-12 SAFETY CONSIDERATIONS

Modified the MARKING requirements.

07-13 OTPS Naming Convention

Provides guidance in OTPS naming