DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL OPERATIONS
2000 NAVY PENTAGON
WASHINGTON, D. C. 20350-2000

1500 IN REPLY REFER TO
Ser N789H3/2U652862
27 Sep 2002

From: Chief of Naval Operations (N789H)

Subj: FINAL REPORT FOR THE S-3 HUMAN PERFORMANCE REQUIREMENTS REVIEW (HPRR)

Ref: (a) CNO Washington DC 191231Z Apr 02

Encl: (1) HPRR Package

1. As directed by reference (a), subject HPRR convened on 26 through 29 August 2002 onboard NAS Jacksonville, FL., chaired by CNO representative LCDR D. Kempa (N789H3). Participants and issues are listed in enclosure (1). Additionally, OPNAV (Aviation) Training Management Systems (OATMS) database corrections were completed during this review.

2. Upon receipt of this letter, and within 30 days, commands assigned action items will provide a Plan of Action and Milestones (POA&M) to CNO (N789H3) with a copy to CNET (N7813).

3. An official electronic copy of the S-3 Human Performance Requirements Review (HPRR) can be downloaded from OPNAV Aviation Technical Training website at http://www.avtechtra.navy.mil.

4. Request widest distribution to appropriate commands. OPNAV point of contact is LCDR D. Kempa, N789H3, commercial (703)604-7739, E-mail: kempa.darcy@hq.navy.mil.

T. L. MERRITT
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Head, Aviation Technical
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Copy to:
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CNET (N78, N7813, N7815)
COMNAVAIRSYSCOM (PMA-205, PMA-290)
NAVMAC (CODE 10, CODE 30)
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NAMTRAGRU (N2119, N5105)
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NAMTRA UNIT JACKSONVILLE
AIMD JACKSONVILLE
CSCWP (N425)
CSCWL
SCWS
VS-24
VS-31
VS-33

S-3B HPRR
26 - 30 August 2002
NAS Jacksonville, FL.

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S-3B MINI POA&M

ACTION CIN	ACTION COMMAND	ACTION ITEM NUMBER	ECD
C-102-3687	CNET	S3.02HPRR.6022.001	08/31/2003
C-102-4016	CNET	S3.02HPRR.6067.001	01/01/2003
C-102-9690	CNET	S3.02PHPRR.1741.002	09/30/2002
C-102-9690	CNET	S3.02PHPRR.1741.001	01/01/2003
C-102-9690	NAVAIR	S3.02PHPRR.1741.004	05/30/2003
C-102-9691	CNET	S3.02PHPRR.1728.011	01/01/2003
C-102-9691	NAVAIR	S3.02PHPRR.1728.012	09/30/2003
C-102-9691	NAVAIR	S3.02PHPRR.1728.008	10/10/2003
C-198-3678	CNET	690.00PMTRR.6003.01	09/30/2002
C-198-3678	CNET	690.00PMTRR.6004.01	09/30/2002
C-601-3677	CNET	S3.98PMTRR.3010.01	09/30/2002
C-601-3677	CNET	S3.98PMTRR.3010.02	09/30/2002
C-601-3868	CNET	S3.02HPRR.3868.001	01/01/2003
C-601-3868	CNET	S3.02HPRR.3868.002	01/01/2003
C-601-9876	CNET	S3.02PHPRR.1710.001	01/01/2003
C-601-9876	CNET	S3.02PHPRR.1710.002	01/01/2003
C-601-9876	CNET	S3.02PHPRR.1710.003	01/01/2003
C-601-9878	CNET	S3.02PHPRR.1714.001	01/01/2003
C-601-9878	CNET	S3.02PHPRR.1714.002	01/01/2003
C-601-9878	CNET	S3.02PHPRR.1714.003	01/01/2003
C-602-3681	CNET	S3.02PHPRR.1728.001	08/28/2002
C-602-3681	CNET	S3.02PHPRR.1728.002	08/28/2002
C-602-3681	CNET	S3.02PHPRR.1728.003	01/01/2003
C-602-3681	CNET	S3.02PHPRR.1728.004	01/01/2003
C-602-9676	CNET	S3.02PHPRR.1750.002	01/01/2003
C-602-9676	NAVAIR	S3.02PHPRR.1750.001	03/31/2003
C-602-9677	CNET	S3.02PHPRR.1752.001	01/01/2003
C-602-9880	CNET	S3.02PHPRR.1762.003	01/01/2002
C-602-9880	CNET	S3.02HPRR.1762.001	01/01/2003

C-602-9880	CNET	S3.02HPRR.1762.002	01/01/2003
C-602-9880	CNET	S3.02PHPRR.1762.001	01/01/2003
C-602-9880	CNET	S3.02PHPRR.1762.004	01/01/2003
C-602-9880	CNET	S3.02PHPRR.1762.005	01/01/2003
C-602-9880	CNET	S3.02PHPRR.1762.006	01/01/2003
C-602-9880	CNET	S3.02PHPRR.1762.007	01/01/2003
C-603-9877	CNET	S3.02HPRR.1782.01	01/01/2003
C-603-9877	CNET	S3.02PHPRR.1760.001	01/01/2003
C-603-9877	CNET	S3.02PHPRR.1782.001	01/01/2003
C-603-9877	CNET	S3.02PHPRR.1782.002	01/01/2003
C-646-9677	NAVAIR	S3.02HPRR.1744.02	12/01/2002
C-646-9678	NAVAIR	S3.02HPRR.1746.02	10/15/2002
C-646-9678	CNET	S3.02HPRR.1746.01	01/01/2003
C-646-9678	CNET	S3.02HPRR.1746.03	01/01/2003
C-646-9678	CNET	S3.02HPRR.1746.04	01/01/2003
C-646-9678	CNET	S3.02HPRR.1746.05	01/01/2003
C-646-9678	CNET	S3.02HPRR.1746.06	01/01/2003
D-602-1750	CNAL	S3.02HPRR.1750.02	09/15/2002
E-198-6022	CNAP	S3.02HPRR.6022.002	09/15/2002
E-602-1750	CNAP	S3.02HPRR.1750.03	09/15/2002

S-3B CONTENT AND ADMINISTRATIVE SUMMARY

ACTION CIN	TOTAL	CONTENT ADDED	CONTENT SUBTRACTED	ADMINISTRATIVE ONLY
C-102-3687	1	1		
C-102-4016	1			1
C-102-9690	2	1	1	
C-102-9691	1	1		
C-198-3678	1	1		
C-601-3677	3	2	1	
C-601-3868	3	2	1	
C-601-9876	1		1	
C-601-9878	1	1		
C-602-3681	1	1		
C-602-9676	3	2	1	
C-602-9677	2	1	1	
C-602-9880	4	2	2	
C-603-9877	3	2	1	
C-646-9677	3	2	1	
C-646-9678	4	2	2	
D-602-1750	1			1
E-198-6022	1			1
E-602-1750	1			1
TOTAL	37	21	12	4

S-3B Maintenance

CIN	TITLE	NEC	RATE	ACTION ITEM	CMD	ISSUE	ACTION TASK	ACTION CIN
E-198-6022	S-3 FORWARD LOOKING INFRARED (FLIR) SYSTEMS INTERMEDIATE MAINTENANCE	6715	AT	S3.02HPRR.6022.001	CNET	02 HPRR: A majority of technicians rely too heavily on Automatic Test Equipment (ATE) software and/or Maintenance Instruction Manual (MIM) matrices to troubleshoot WRAs and/or SRAs. When the ATE software and/or MIMs fail to identify the WRA/SRA fault, most technicians request outside assistance to perform theoretical troubleshooting. My experience with technicians having these problems showed me that they did not retain a good understanding of basic electronics and associated troubleshooting steps from "A" school, or they were not conditioned to apply their knowledge whenever the ATE and/or MIMs failed to locate the actual fault(s).	Forwarded to NATT ESC. Recommend NAMTRA HQ direct all "I" level avionic course CCMM's to revise E.O.'s and test questions to develop increased cognitive and troubleshooting skills.	C-102-3687
E-102-6067	AN/AAM-60 ELECTRO-OPTICAL SYSTEMS TEST SET (EOSTS) INTERMEDIATE MAINTENANCE	6684	AT	S3.02HPRR.6067.001	CNET	02 S-3B HPRR: TCCD, Page 2-1, contains incorrect NECs.	Change TCCD to show the NEC 6684 vice NEC 6694. Delete NEC 7959 as prerequisite. Submit TCCD change to CNET (N7813) NLT 01 January 2003.	C-102-4016
E-102-1741	S-3B AVIONICS (CAREER) ORGANIZATIONAL MAINTENANCE	8347	AT	S3.02PHPRR.1741.001	CNET	02 PRE-HPRR: Spend too much time learning internal central processor registers. The lesson goes too deep for most technicians. Some registers are irrelevant to troubleshooter.	Decrease internal central process registers training and increase maintenance panel training. No increase in course length authorized.	C-102-9690
E-102-1741	S-3B AVIONICS (CAREER) ORGANIZATIONAL MAINTENANCE	8347	AT	S3.02PHPRR.1741.002	CNET	02 PRE-HPRR: Needs to shorten lesson 5.9 and focus on the major part of the MIC-32. Too much unnecessary information on the pullout.	Course in revision, keep chit open until final TCCD approved.	C-102-9690
E-102-1741	S-3B AVIONICS (CAREER) ORGANIZATIONAL MAINTENANCE	8347	AT	S3.02PHPRR.1741.003	CNET	02 PRE-HPRR: Students need training on how to remove I/O cables from inside chassis.	Disapproved. Training is provided via OJT.	C-102-9690
E-102-1741	S-3B AVIONICS (CAREER) ORGANIZATIONAL MAINTENANCE	8347	AT	S3.02PHPRR.1741.004	NAVAIR	02 PRE-HPRR: CAINS II (AFC-279) is being installed in aircraft but trainer has not been modified for CAINS. Consequently, training is seriously degraded.	NAVAIR (PMA-205) report to CNO (N789H3) once trainer modification is completed at Jacksonville and North Island.	C-102-9690
E-102-1741	S-3B AVIONICS (CAREER)	8347	AT	S3.02PHPRR.1741.005	NAVAIR	02 PRE-HPRR: CIP (AFC-281) is being installed in aircraft	Close chit, refer to Action Item S3.02PHPRR.1728.012.	C-102-9690

	ORGANIZATIONAL MAINTENANCE					but trainer has not been modified for CIP. Consequently, training is seriously degraded.		
E-102-1728	S-3B AVIONICS SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AT	S3.02PHPRR.1728.006	CNET	02 PRE-HPRR: Students need a way to self test the TACAN navigation system. A BIT check is not sufficient so it should be checked operationally using a test set.	Disapproved. Test set is not used in the S-3 community. BIT/Operational Check is currently provided in course.	C-102-9691
E-102-1728	S-3B AVIONICS SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AT	S3.02PHPRR.1728.007	CNET	02 PRE-HPRR: Lesson 1, Topic 1.14 student needs up to date training on NALCOMIS Optimized.	Disapproved. NALCOMIS optimized training provided by FASO.	C-102-9691
E-102-1728	S-3B AVIONICS SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AT	S3.02PHPRR.1728.008	NAVAIR	02 PRE-HPRR: No way to Op Check the SATCOM system. It's purely operational and consists of several pages of steps to get it to work.	Course revision held in abeyance. NAVAIR (PMA-205) research availability of SATCOM training information and DOCCTS availability. Report findings to CNO (N789H3) NLT 10 October 2003.	C-102-9691
E-102-1728	S-3B AVIONICS SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AT	S3.02PHPRR.1728.009	CNET	02 PRE-HPRR: Students lack awareness on handling of COMSEC material and gear.	Disapproved. COMSEC training by WING and unit COMSEC manager.	C-102-9691
E-102-1728	S-3B AVIONICS SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AT	S3.02PHPRR.1728.010	CNET	02 PRE-HPRR: 1. Lack of retention on publications: When new personnel arrive they have a general "vague" idea about layout, but really can't look anything up. Need more emphasis on wiring diagrams, IPB, T&T; not just theory of operation. 2. New systems are being incorporated into aircraft prior to publications release. All new personnel need to be indoctrinated in new system before they arrive in the fleet. 3. Need more practical instruction, instead of general overview of system, and how to work it; need instruction in troubleshooting techniques, and repetition to make it stick. Need in-depth instruction in Multimeter use.	Disapproved. Publication training is sufficient. New system training provided by NATEC until course revision. Multimeter training provided in A-School and current course.	C-102-9691
E-102-1728	S-3B AVIONICS SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AT	S3.02PHPRR.1728.011	CNET	02 PRE-HPRR: 1. NAMTRAU JAX Avionics (Initial) school needs to focus more on the "hands-on" portion of the curriculum. Maybe get repetitive on the trainer. A lot of personnel coming out of FRAMP can't get on aircraft and do basic troubleshooting.	Course under revision per CNET ltr N7813/080, 12 July 02. Keep chit open until final TCCD approval.	C-102-9691

						2. No training on NALCOMIS systems. 3. No training on Support Equipment. 4. No CAINS II or CIP MOD training.		
E-102-1728	S-3B AVIONICS SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AT	S3.02PHPRR.1728.012	NAVAIR	02 PRE-HPRR: CIP (AFC-281) is being installed in aircraft but trainer has not been modified for CIP. Consequently, training is seriously degraded.	NAVAIR (PMA-205) report to CNO (N789H3) when trainer modification is completed at Jacksonville and North Island.	C-102-9691
E-198-6003	AN/USM-403 HYBRID AUTOMATIC TEST SET (HATS) INTERMEDIATE MAINTENANCE	6628	AT	690.00PMTRR.6003.01	CNET	00 MTRR: Maintainer students need an equal amount of time both in lab and the classroom. Since most students taking this have been in the fleet and have a working knowledge of the theory of operation of the HATS bench. The PIU is the major cause of bench downtime in the fleet.	00 MTRR: Redistribute Unit 6 to increase practical lab troubleshooting. 02 CASS HPRR: CNET (N7813) provide CNO (N789H4) revised TCCD NLT 30 Sep 2002. 02 S-3B HPRR: Keep chit open until final TCCD approval.	C-198-3678
E-198-6003	AN/USM-403 HYBRID AUTOMATIC TEST SET (HATS) INTERMEDIATE MAINTENANCE	6628	AT	690.00PMTRR.6004.01	CNET	Lack of knowledge on basic adjustment/alignment of the Programmable Interface Unit (PIU).	00 MTRR: Concur, incorporate new information. Increase course length by 1.0 hour. 02 CASS HPRR: CNET (N7813) submit revised TCCD to CNO (N789H4) NLT 30 Sep 2002. 02 S-3B HPRR: Keep chit open until final TCCD approval.	C-198-3678
E-601-3010	TF-34 ENGINE AND RELATED SYSTEMS INTERMEDIATE MAINTENANCE	6421	AD	S3.98PMTRR.3010.01	CNET	98 PRE-MTRR: Too much time is devoted for Topic 4.1 (Preservation and Depreservation for Disassembly); theory 1.0 hour, lab 8.0 hours. And no discussion on VG rigging, which is very important in the fleet. 98 MTRR: No discussion on VG rigging, which is very important in the fleet. Too much time for pres/depreservation for disassembly L.T. 4.1.	98 MTRR: Revise C-601-3677 as follows: (No increase in course length authorized. 1. Add VG Rigging; 2.0 hours theory, 5.0 hours lab. 2. Reduce Preservation/Depreservation theory to 1.0 hour. 3. Reduce Preservation/Depreservation lab to 1.0 hour. 02 HPRR: Leave chit open until TCCD is approved. Submit TPP to CNET (N7813) NLT 30 September 2002.	C-601-3677
E-601-3010	TF-34 ENGINE AND RELATED SYSTEMS INTERMEDIATE MAINTENANCE	6421	AD	S3.98PMTRR.3010.02	CNET	98 PRE-MTRR: Too much time is being devoted to teach the Power Control System.	98 MTRR: Shift 4.0 hours from Power Control System to Lesson Topic 4.10. 02 HPRR: Leave chit open until TCCD is	C-601-3677

							approved. Submit TPP to CNET (N7813) NLT 30 September 2002.	
C-601-3868	GTC36-200/GTCP36-201 AUXILIARY POWER UNIT (APU) FIRST DEGREE INTERMEDIATE MAINTENANCE REPAIR	0000	AD	S3.02HPRR.3868.001	CNET	02 HPRR: GTCP36-201 no longer applicable to this course.	Remove all GTCP36-201 content from course C-601-3868. Submit TPP to CNET (N7813) NLT 1 January 2003. CNET (N7813) update CANTRAC and NITRAS information upon approval of revised course. Continue to teach current curriculum until new S-3 APU course is approved.	C-601-3868
C-601-3868	GTC36-200/GTCP36-201 AUXILIARY POWER UNIT (APU) FIRST DEGREE INTERMEDIATE MAINTENANCE REPAIR	0000	AD	S3.02HPRR.3868.002	CNET	02 HPRR: No course for S-3B APU unique requirements.	Develop GTCP36-201 "I" Level Repair course in accordance with APU Maintenance Plan. Use GTCP36-201 information from course C-601-3868 as required. Submit TPP to CNET (N7813) NLT 1 January 2003.	C-601-3868
C-601-3868	GTC36-200/GTCP36-201 AUXILIARY POWER UNIT (APU) FIRST DEGREE INTERMEDIATE MAINTENANCE REPAIR	0000	AD	S3.02PHPRR.3868.001	CNET	02 PRE-HPRR: Length of APU course should be modified for proper NEC training. Time allowing doesn't give sufficient training for NEC of the APU and related system.	Disapproved, refer to Action Item S3.02HPRR.3868.002.	C-601-3868
C-601-3868	GTC36-200/GTCP36-201 AUXILIARY POWER UNIT (APU) FIRST DEGREE INTERMEDIATE MAINTENANCE REPAIR	0000	AD	S3.02PHPRR.3868.002	CNET	02 PRE-HPRR: Lesson 4.2 does not allow enough time for full description of each component while disassembling the APU.	Disapproved. Refer to Action Item S3.02HPRR.3868.002.	C-601-3868
E-601-1710	S-3 POWER PLANTS AND RELATED SYSTEMS (CAREER) ORGANIZATIONAL MAINTENANCE	8347	AD	S3.02PHPRR.1710.001	CNET	02 PRE-HPRR: Needs to be shorter, to long or to much time on some subjects.	Remove 8.0 hours from Unit 1, Lesson Topic 1.2.	C-601-9876
E-601-1710	S-3 POWER PLANTS AND RELATED SYSTEMS (CAREER) ORGANIZATIONAL MAINTENANCE	8347	AD	S3.02PHPRR.1710.002	CNET	02 HPRR: Topic 1.4 is 12 hours long, maximum class is 4 people. (aircraft section)	Remove 4.0 hours from Lesson Topic 1.4. Submit TPP to CNET (N7813) NLT 01 January 2003.	C-601-9876
E-601-1710	S-3 POWER PLANTS AND RELATED SYSTEMS (CAREER)	8347	AD	S3.02PHPRR.1710.003	CNET	02 HPRR: Topic 3.3 is 12 hours long, maximum class is 4 students for aircraft section.	Remove 4.0 hours from Lesson Topic 3.3. Submit TPP to CNET (N7813) NLT 1 January 2003.	C-601-9876

	ORGANIZATIONAL MAINTENANCE							
C-601-9877	S-3 ENGINE AUXILIARY POWER UNIT TURNUP	0000	AD	S3.02HPRR.9877.001	CNAL	02 HPRR: 1. East Coast does not have this course. 2. West Coast has an unapproved course at local squadron request.	Disapproved. Continue to teach approved course on West Coast. CNAL (N422F1) research need for course on East Coast. Reply to CNO (N789H3) NLT 1 October 2002.	C-601-9877
E-601-1714	S-3 AIRCRAFT POWER PLANTS AND RELATED SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AD	S3.02PHPRR.1714.001	CNET	02 PRE-HPRR: Need to spend more time on theory covered in Lesson Topic 1.2.	Add 1.0 hour to Lesson Topic 1.2 theory. No increase in course length authorized. Submit TPP to CNET (N7813) NLT 01 January 2003.	C-601-9878
E-601-1714	S-3 AIRCRAFT POWER PLANTS AND RELATED SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AD	S3.02PHPRR.1714.002	CNET	02 PRE-HPRR: Need to increase Lesson Topic 1.3 theory periods.	Disapproved. Delete Lesson Topic 1.3, no longer valid due to new optimized program in the fleet. Submit TPP to CNET (N7813) NLT 1 January 2003.	C-601-9878
E-601-1714	S-3 AIRCRAFT POWER PLANTS AND RELATED SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AD	S3.02PHPRR.1714.003	CNET	02 PRE-HPRR: Need to increase unit 1.6 PJT period.	Add 1.0 hour to Lesson Topic 1.6 PJT. Submit TPP to CNET (N7813) NLT 1 January 2003.	C-601-9878
E-601-1714	S-3 AIRCRAFT POWER PLANTS AND RELATED SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AD	S3.02PHPRR.1714.004	CNET	02 PRE-HPRR: Need to spend more time on general safety in unit 1.4.	Disapproved. Current allocation of time is sufficient.	C-601-9878
E-601-1714	S-3 AIRCRAFT POWER PLANTS AND RELATED SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AD	S3.02PHPRR.1714.005	CNET	02 PRE-HPRR: 1. A lot of our new AD's out of "A" school and NAMTRA don't know anything about the IMRL they will be working with, like Engine Trim Set, Ignition Test Set, etc.. 2. Newly assigned personnel, whether young or old, coming from different platforms not having any experience on aircraft. 3. No training on NALCOMIS.	Disapproved. IMRL equipment taught in Career course, NALCOMIS training provided at squadron/FASO.	C-601-9878
E-102-1728	S-3B AVIONICS SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AT	S3.02PHPRR.1728.001	CNET	02 PRE-HPRR: Terminal boards exist on the aircraft and proper insertion and removal techniques are not taught in the course.	02 HPRR: Disapproved. Information currently in course.	C-602-3681

E-102-1728	S-3B AVIONICS SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AT	S3.02PHPRR.1728.002	CNET	02 PRE-HPRR: Connector breaks often, needs to be added to course, section 3.3.	02 HPRR: Disapproved. Information currently in course..	C-602-3681
E-102-1728	S-3B AVIONICS SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AT	S3.02PHPRR.1728.003	CNET	02 PRE-HPRR: Straight post soldering skills are not taught, this applies to rheostats and the Aux Select Panel.	Add straight post soldering Discussion Point to Lesson 2.5, no additional course length authorized. Submit TPP to CNET (N7813) NLT 01 January 2003.	C-602-3681
E-102-1728	S-3B AVIONICS SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AT	S3.02PHPRR.1728.004	CNET	02 PRE-HPRR: Wire connector class does not teach the student how to splice a coax and triax cable. The 505 WP 15 and WP 1506 state it should not be done WHENEVER possible. It's not feasible to tear a jet apart to run a solid coax or triax cable.	Add Coax and Triax discussion point to Lesson Topic 2.4, no increase in course length authorized. Submit TPP to CNET (N7813) NLT 01 January 2003.	C-602-3681
E-602-1750	S-3 ELECTRICAL/ INSTRUMENT SYSTEMS (CAREER) ORGANIZATIONAL MAINTENANCE	8347	AE	S3.02HPRR.1750.01	CNET	02 HPRR: CANTRAC course information for CIN C-602-9676 is incorrect as follows: 1. SKILL AWARD is blank. 2. PREREQUISITES: other is incorrect, listed as E-4 or Above with component NEC. 3. PREREQUISITES: Paygrade is incorrect, listed as E-4.	02 HPRR: Disapproved. Information is correct.	C-602-9676
E-602-1750	S-3 ELECTRICAL/ INSTRUMENT SYSTEMS (CAREER) ORGANIZATIONAL MAINTENANCE	8347	AE	S3.02PHPRR.1750.001	NAVAIR	02 PRE-HPRR: No Structural Data Recording Set (SDRS) training is given.	02 HPRR: Approved. 1. NAVAIR (PMA-205/290) update publications to incorporate SDRS information. 2. CNET (N7813): Upon receipt of publications, incorporate SDRS training into course. No increase in course length authorized.	C-602-9676
E-602-1750	S-3 ELECTRICAL/ INSTRUMENT SYSTEMS (CAREER) ORGANIZATIONAL MAINTENANCE	8347	AE	S3.02PHPRR.1750.002	CNET	02 PRE-HPRR: CAINS II information needed in curriculum.	Revise C-602-9676 as follows with no increase in course length authorized and submit TPP to CNET (N7813) NLT 1 January 2003. 1. Remove INS and AHRS training from course. 2. Add CAINS II basic operation information into course.	C-602-9676
E-602-1752	S-3 ELECTRICAL SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AE	S3.02PHPRR.1752.001	CNET	02 PRE-HPRR: 1. No formal training on NALCOMIS (any system). 2. No training on the 405 test set. 3. AFC's being incorporated into aircraft	02 HPRR: 1. Replace TTU-205 training with 405 Test Set, no increase in course length authorized. 2. Other issues are disapproved.	C-602-9677

						removing INS and AHRS and installing CAINS II. AE's are still being taught INS and AHRS, and AT's are not getting any training.	3. Submit TPP/ERL/ESL to CNET (N7813) NLT 1 January 2003.	
E-602-1760	S-3 ENVIRONMENTAL CONTROL, MISCELLANEOUS UTILITIES, AND EGRESS SYSTEMS (CAREER) ORGANIZATIONAL MAINTENANCE	8347	AME	S3.02PHPRR.1762.002	CNET	02 PRE-HPRR: Reference list, NAVAIR 11-100-1.1 CD is no longer utilized.	Disapproved. NA 11-100-1.1 CDROM is still utilized by fleet personnel.	C-602-9879
E-602-1762	S-3 ENVIRONMENTAL CONTROL, MISCELLANEOUS UTILITIES, AND EGRESS SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AME	S3.02HPRR.1762.001	CNET	02 HPRR: Training Course Control Document reference list (pg B-2) has outdated reference for #20. #23 and #24 is no longer utilized.	Update TCCD to reflect current manuals. Submit TPP to CNET (N7813) NLT 01 January 2003.	C-602-9880
E-602-1762	S-3 ENVIRONMENTAL CONTROL, MISCELLANEOUS UTILITIES, AND EGRESS SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AME	S3.02HPRR.1762.002	CNET	02 HPRR: Lesson Topic 1.2, Discussion Point 15 has incorrect manual listed.	Update course to reflect current manual and inspection cycle. Submit TPP to CNET (N7813) NLT 01 January 2003.	C-602-9880
E-602-1762	S-3 ENVIRONMENTAL CONTROL, MISCELLANEOUS UTILITIES, AND EGRESS SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AME	S3.02PHPRR.1762.001	CNET	02 PRE-HPRR: Lesson Topic 3.4, the NA11-1 and NA11-85.01 manuals are no longer utilized as well as the subsequent CD-ROM.	Update course to reflect new manuals and CAD/PAD CDROM utilization. Submit TPP to CNET (N7813) NLT 01 January 2003.	C-602-9880
E-602-1762	S-3 ENVIRONMENTAL CONTROL, MISCELLANEOUS UTILITIES, AND EGRESS SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AME	S3.02PHPRR.1762.003	CNET	02 PRE-HPRR: Lesson Topic 3.2, Emergency exit light is no longer utilized.	Delete E.O. 3.9 and Discussion Points 4.c and 5.a. Submit TPP to CNET (N7813) to CNET (N7813) NLT 1 January 2003.	C-602-9880
E-602-1762	S-3 ENVIRONMENTAL	8847	AME	S3.02PHPRR.1762.004	CNET	02 PRE-HPRR: Lesson Topic 2.3, Suit air	Delete Discussion Point #5 from	C-602-9880

	CONTROL, MISCELLANEOUS UTILITIES, AND EGRESS SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE					temperature control system is no longer utilized (system deleted AFC-180).	Lesson Topic 2.3 in course. Also delete E.O. 2.16 from Instructor Guide. Submit TPP to CNET (N7813) NLT 01 January 2003.	
E-602-1762	S-3 ENVIRONMENTAL CONTROL, MISCELLANEOUS UTILITIES, AND EGRESS SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AME	S3.02PHPRR.1762.005	CNET	02 PRE-HPRR: Lesson Topic 2.2, needs more practical application.	Add E.O. 2.13 R&R Coalecer Bag and Cone. New E.O. not to exceed 1.0 hour. Submit TPP to CNET (N7813) NLT 01 January 2003.	C-602-9880
E-602-1762	S-3 ENVIRONMENTAL CONTROL, MISCELLANEOUS UTILITIES, AND EGRESS SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AME	S3.02PHPRR.1762.006	CNET	02 PRE-HPRR: Lesson Topic 2.6, Theory portion of lesson's too long (5 hours).	Remove 1.0 hour of theory from Lesson Topic 2.6 and add 1.0 hour to lab. Submit TPP to CNET (N7813) NLT 01 January 2003.	C-602-9880
E-602-1762	S-3 ENVIRONMENTAL CONTROL, MISCELLANEOUS UTILITIES, AND EGRESS SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AME	S3.02PHPRR.1762.007	CNET	02 PRE-HPRR: Lesson Topic 1.5, Windshield wash and rain repellent are no longer utilized.	Delete Lesson Topic 1.5. Do not create E.O. (1.38) for R/R the Lox Converter. Submit TPP to CNET (N7813) NLT 01 January 2003.	C-602-9880
E-602-1782	S-3 STRUCTURE, HYDRAULIC AND FLIGHT CONTROL SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AM	S3.02HPRR.1782.01	CNET	02 HPRR: Multimeter familiarization is taught in "A" School.	Revise C-603-9877 as follows and submit TPP to CNET (N7813) NLT 1 January 2003. 1. Delete Lesson Topic 2.13 from course. 2. Add 1.0 hour to Lesson Topic 1.2 and Lesson Topic 2.8 each. 3. Add 2.0 hours to Lesson Topic 2.7.	C-603-9877
E-602-1760	S-3 ENVIRONMENTAL CONTROL, MISCELLANEOUS UTILITIES, AND EGRESS SYSTEMS	8347	AME	S3.02PHPRR.1760.001	CNET	02 PRE-HPRR: Lesson Topic 1.2, Windshield wash and rain repellant system no longer utilized.	Delete Lesson Topic 1.2 and add 1.0 hour theory to Lesson Topic 2.4. No increase in course length authorized. Submit TPP to CNET (N7813) NLT 01 January 2003.	C-603-9877

	(CAREER) ORGANIZATIONAL MAINTENANCE							
E-602-1782	S-3 STRUCTURE, HYDRAULIC AND FLIGHT CONTROL SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AM	S3.02PHPRR.1782.001	CNET	02 PRE-HPRR: Unit 2 Topic 2.5 aircraft jacking procedure has 8 hours of PJT dedicated to aircraft jacking. These hours would be better utilized on other lessons.	Revise C-603-9877 as follows and submit TPP to CNET (N7813) NLT 1 January 2003. 1. Delete 8.0 hours from Unit 2 Topic 2.5. 2. Add 1.0 hour to Lessons 2.2 and 2.4 each. 3. Add 2.0 hours to Lesson 3.2, 3.4, and 3.6 each.	C-603-9877
E-602-1782	S-3 STRUCTURE, HYDRAULIC AND FLIGHT CONTROL SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AM	S3.02PHPRR.1782.002	CNET	02 PRE-MTRR: Unit 2 Topic 2.1 Windshield and wiper systems lesson does not include viewing of "windshield removal and installation" video.	Add video viewing to Unit 2 Topic 2.1, no increase in course length authorized.	C-603-9877
E-602-1782	S-3 STRUCTURE, HYDRAULIC AND FLIGHT CONTROL SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AM	S3.02PHPRR.1782.003	CNET	02 PRE-HPRR: 1. Lack of basic publication knowledge. 2. Basic hydraulic contamination, ability to perform a hydraulic sample. 3. Individuals do not even know how to use basic hand tools (safety wire 2 bolts together). 4. "A" School and FRAMP's are so basic all they receive is a basic familiarization, no real knowledge. 5. Tire/wheel information. 6. NALCOMIS.	Disapproved. Information is provided in other courses or is sufficiently covered in the current course.	C-603-9877
E-602-1782	S-3 STRUCTURE, HYDRAULIC AND FLIGHT CONTROL SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AM	S3.02PHPRR.1782.004	CNET	02 PRE-HPRR: 1. Lack of pubs knowledge, as simple as finding a part #. 2. "A" School is teaching the same things they taught 15 years ago. (i.e., repairing wing rib which is a P&E fix) 3. AMS & AMH schools combined course length cut, does not give instructors enough time to discuss components in-depth.	Disapproved. A-School provides fundamental knowledge/training only. C-School provides platform specific training. Current training is adequate.	C-603-9877
E-646-1744	S-3 ARMAMENT SYSTEMS (CAREER) ORGANIZATIONAL MAINTENANCE	8347	AO	S3.02HPRR.1744.01	CNET	02 HPRR: In the list of prerequisites, personnel are required to be the rank of E-5 through E-7.	Disapproved. Career paygrade is E-5 through E-7.	C-646-9677
E-646-1744	S-3 ARMAMENT SYSTEMS (CAREER)	8347	AO	S3.02HPRR.1744.02	NAVAIR	02 HPRR: Ordnance trainer needs to be rebuilt to what is used in the fleet.	NAVAIR (PMA-205) provide POA&M for Ordnance trainer upgrade	C-646-9677

	ORGANIZATIONAL MAINTENANCE						to CNO (N789H3) NLT 01 December 2002.	
E-646-1744	S-3 ARMAMENT SYSTEMS (CAREER) ORGANIZATIONAL MAINTENANCE	8347	AO	S3.02PHPRR.1744.001	CNET	02 PRE-HPRR: Lesson number 1.1, 1.3, 1.10, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, and 2.7 are either covered in the Arm Con Initial course, or they are obsolete. By the time AOs are eligible to attend the Career course they already know everything being taught. At NAMTRA NI only 2 AOs have attended this course since Feb 01.	Disapproved. Maintain separate Initial and Career courses.	C-646-9677
E-646-1746	S-3B ARMAMENT CONTROL AND DELIVERY SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AO	S3.02HPRR.1746.01	CNET	02 HPRR: Topic 1.7 Stores Capabilities, Discussion Point (External Weapons Pylons) number (2). Both Pylons cannot carry 2850 pounds.	02 HPRR: Change Lesson Topic 1.7 to "W-5 can carry 2850, only with ARS tank loaded." "W-6 has a safe working load of 2500 pounds." If the ARS tank is not loaded, W-5 can only carry 2500 pounds; like W-6 as per NATOPS.	C-646-9678
E-646-1746	S-3B ARMAMENT CONTROL AND DELIVERY SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AO	S3.02HPRR.1746.02	NAVAIR	02 HPRR: No formal training for Maverick and Maverick Plus are included in this course curriculum.	Revision held in abeyance. NAVAIR (PMA-205) provide information on Maverick integration onto the S-3 platform. Provide information to CNO (N789H3) NLT 15 October 2002.	C-646-9678
E-646-1746	S-3B ARMAMENT CONTROL AND DELIVERY SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AO	S3.02HPRR.1746.03	CNET	02 HPRR: The S-3B only provides for the selection and release of 15 Sonobuoy's vice 59, Lesson Topic 2.1.	Revise Lesson Topic 2.1 as follows and submit TPP to CNET (N7813) NLT 01 January 2003. 1. Discussion Point 4a(2)a change from 59 Sonobuoy Chutes to read 15 Sonobuoy Chutes. 2. Discussion Point 6a(5)(a)1) change to read "H through P". 3. Discussion Point 6b(5) change to read "Releases 15 search stores in less than 10 seconds."	C-646-9678
E-646-1746	S-3B ARMAMENT CONTROL AND DELIVERY SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AO	S3.02HPRR.1746.04	CNET	02 HPRR: Topic 1.7, Discussion Point 3, Sonobuoys (1) and (2). As per S-3B AFC-284 modification, there are now a total of 16 Sonobuoy Chutes; 15 are ASW, with the 16th serving as the (SAR) chute (PR).	Revise Lesson Topic 1.7 as follows with no change in course length and submit TPP to CNET (N7813) NLT 01 January 2003. 1. Change a(1) to read "total of 16 size A" 2. Change a(2) to read "15 are used for Anti-Submarine Warfare (ASW)."	C-646-9678
E-646-1746	S-3B ARMAMENT CONTROL AND DELIVERY SYSTEMS	8847	AO	S3.02HPRR.1746.05	CNET	02 HPRR: Topic 1.7 Stores Capabilities, Discussion Point a. (3), c. and e.. DST/Mines, and Special Weapons are no longer carried by	Revise Lesson Topic 1.7 with no change to course length by removing Discussion Points which include	C-646-9678

	(INITIAL) ORGANIZATIONAL MAINTENANCE					the S-3B aircraft. Rockets are also not carried by the S-3B aircraft.	DST/Mines, rockets, or Special Weapons and submit TPP to CNET (N7813) NLT 01 January 2003.	
E-646-1746	S-3B ARMAMENT CONTROL AND DELIVERY SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AO	S3.02HPRR.1746.06	CNET	02 HPRR: A/A37B-5 TER has been replaced fleet wide with the BRU-42A ITER.	Delete A/A37B-5 TER from course and replace with BRU-42A ITER training. No increase in course length authorized. Submit TPP to CNET (N7813) NLT 01 January 2003.	C-646-9678
E-646-1746	S-3B ARMAMENT CONTROL AND DELIVERY SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AO	S3.02HPRR.1746.07	CNET	02 HPRR: CANTRAC course information does not reflect the same prerequisites for correctable vision and depth perception as in Aviation Ordnanceman A-School C-646-2011 course.	Disapproved. Information is in A-School CANTRAC course outline and applies to students as well.	C-646-9678
D-602-1750	S-3 ELECTRICAL/INSTRUMENT SYSTEMS (CAREER) ORGANIZATIONAL MAINTENANCE	8347	AE	S3.02HPRR.1750.02	CNAL	02 HPRR: CANTRAC course information for umbrella D-602-1750 is incorrect. Prerequisites paygrade is listed as E-3 to E-9, should be E5 to E7 as per TCCD.	CNAL (N422F) update D-602-1750 CANTRAC information to show prerequisite paygrades to reflect E-5 through E-7.	D-602-1750
E-102-6064	AN/APS-116 INTERMEDIATE MAINTENANCE TECHNICIAN	6614	AT	S3.02HPRR.6064.001	CNAP	02 HPRR Working Committee: 1. CANTRAC information is incorrect for prerequisites and paygrades. 2. NEC Manual is incorrect for paygrades.	CNAP delete course C-100-2012 from E-102-6064 PREREQUISITES. Do not change PAYGRADE prerequisite in CANTRAC. Do not change NEC Manual paygrade information.	E-102-6064
E-198-6022	S-3 FORWARD LOOKING INFRARED (FLIR) SYSTEMS INTERMEDIATE MAINTENANCE	6715	AT	S3.02HPRR.6022.002	CNAP	02 HPRR: CANTRAC course information. - Laser Safety Fundamentals course C-602-3770 is not required for S-3 FLIR E-102-6022. S-3 FLIR is a passive system only and contains no laser. - Medical Surveilliance (BUMEDINST 64709.12) is not required.	Delete C-602-3770 from pipeline. Delete Medical Surveillance exam prerequisite.	E-198-6022
E-602-1750	S-3 ELECTRICAL/INSTRUMENT SYSTEMS (CAREER) ORGANIZATIONAL MAINTENANCE	8347	AE	S3.02HPRR.1750.03	CNAP	02 HPRR: CANTRAC course information for umbrella E-602-1750 is incorrect. Prerequisites: Paygrade read E3 - E9.	CNAP (N422F) update E-602-1750 CANTRAC to show prerequisite paygrade to reflect E-5 through E-7.	E-602-1750
E-602-1752	S-3 ELECTRICAL SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AE	S3.02PHPRR.1752.002	BUPERS	02 PRE-HPRR: We have a person in the shop that has a vision problem, that was noted at MEPS and Boot Camp, that makes this person unqualified to be in the Aviation Field. But they still rated this	Disapproved.	E-602-1752

						person an "AE" and they could not work on the flight deck the 6 month cruise. This person now has to pick another rate.		
E-602-1752	S-3 ELECTRICAL SYSTEMS (INITIAL) ORGANIZATIONAL MAINTENANCE	8847	AE	S3.02PHPRR.1752.003	CNAP	02 PRE-HPRR: Need a course for Optimized NALCOMIS.	Disapproved. Legacy NALCOMIS training provided at FASO and unit level. NALCOMIS Optimized in final stages of development and testing. Fleet introduction to occur after certification.	E-602-1752