DEPARTMENT OF THE NAVY
CHIEF OF NAVAL OPERATIONS
2000 NAVY PENTAGON
WASHINGTON, DC 20350-2000

1500 **IN REPLY REFER TO**
Ser N789H6/2U652800
1 Aug 02

From: Chief of Naval Operations (N789H)

Subj: FINAL REPORT FOR THE H-46 HUMAN PERFORMANCE REQUIREMENTS REVIEW (HPRR)

Ref: (a) CNO Washington DC 111622Z Apr 02

Encl: (1) HPRR Package

1. As directed by reference (a), subject HPRR convened on 3 June through 7 June 2002 onboard MCAS New River, NC., chaired by CNO representative MGySgt K. Thomas (N789H6). 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 (N789H6) with a copy to CNET (N7816).

3. An official electronic copy of the H-46 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 MGySgt K. Thomas, N789H6, commercial (703) 604-7762, E-mail: thomas.kevin2@hq.navy.mil.

T. L. MERRITT
Captain, U.S. Navy
Head, Aviation Technical
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Subj: FINAL REPORT FOR THE H-46 HUMAN PERFORMANCE REQUIREMENTS REVIEW (HPRR)

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46M2	AVIATION LOGISTICS SQUADRON (MALS) AND SUPPORT ELEMENT, MARINE (MALS-16, MALS-26, MALS-29)
46P4	HELICOPTER TRAINING SQUADRON (HMMT-164)
C58J	AIR MAINTENANCE TRAINING GROUP DETACHMENT (NEW RIVER)
C80C	AIR TECHNICAL DATA AND ENGINEERING SERVICE COMMAND DETACHMENTS (NEW RIVER (3.7.4))
FKA1A	AIR SYSTEMS COMMAND (AIR 4.4.3.2)
FKR1B	NAVAL AIR DEPOT (CHERRY POINT (H46FST.6)
FT1	EDUCATION AND TRAINING, CHIEF OF (N7814, N7816)
FT12	AIR MAINTENANCE TRAINING GROUP (N5101)
V12	COMBAT DEVELOPMENT COMMAND, MARINE CORPS (TECOM C473)

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H-46 HPRR
3 - 7 June 2002
MCAS New River, NC

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H-46 MINI POA&M

ACTION CIN	ACTION ITEM	ACTION COMMAND	ECD
C-102-3014	610.00MTRR.3014.01	CNET	07/31/2002
C-102-3014	H46.02PHPRR.3014.001	CNET	01/01/2003
C-102-3423	H46.02HPRR.2424.04	CNET	09/30/2002
C-102-3423	H46.02HPRR.2424.05	CNET	09/30/2002
C-600-9422	H46.02HPRR.2414.01	CNET	11/18/2002
C-600-9422	H46.02HPRR.2414.02	CNET	11/18/2002
C-600-9422	H46.02HPRR.2414.03	CNET	11/18/2002
C-600-9422	H46.02HPRR.2414.04	CNET	11/18/2002
C-600-9422	H46.02HPRR.2414.05	CNET	11/18/2002
C-600-9422	H46.02HPRR.2414.06	CNET	11/18/2002
C-600-9422	H46.02HPRR.2414.07	CNET	11/18/2002
C-601-3152	H46.02HPRR.3024.03	CNET	10/30/2002
C-601-3420	H46.02PHPRR.3420.001	CNET	09/30/2002
C-601-3420	H46.02PHPRR.3420.001	CNET	09/30/2002
C-602-3421	H46.02HPRR.2424.01	NAVAIR	01/30/2003
C-602-3421	H46.02PHPRR.2424.001	CNET	09/30/2002
C-602-3421	H46.99MTRR.2424.03	CNET	09/30/2002
C-603-3419	H46.99MTRR.2486.08A	CNET	07/31/2002
M-102-2424	H46.02HPRR.2424.06	CNO	08/01/2002
M-601-3024	H46.02HPRR.3024.02	CNET	07/31/2002
M-602-2486	H46.99MTRR.2486.07	EAMTMU	08/15/2002

H-46 CONTENT AND ADMINISTRATIVE SUMMARY

ACTION CIN	TOTAL	CONTENT ADDED	CONTENT SUBTRACTED	ADMINISTRATIVE
C-102-3014	1	1		
C-600-9422	10	9	1	
C-601-3152	1	1		
C-602-3421	5	4		1
C-603-3419	1			1
M-601-3024	2			2
TOTAL	20	15	1	4

H-46 Maintenance

CIN	TITLE	RATE	NEC	MOS	ACTION ITEM	CMD	ISSUE	ACTION TASK	ACTION CIN
C-600-3420	H-46 FIBERGLASS ROTOR BLADE REPAIR INTERMEDIATE MAINTENANCE	AM	0000	0000	H46.02PHPRR.3420.001	CNET	02 PRE-HPRR: Training is needed in the areas of Nickel Erosion Cap repair and replacement (POC Dan T. Bone, NBR 347-1311/381-2045, Boeing Tech Rep) and to Blade Tip Light Wiring repair and replacement procedures.	02 HPRR: NAMTRAMARU New River; Add training to course. No additional time is approved. Provide update to CNO (N789H6) via NAMTRAGRU HQ (N5101) and CNET (N7816) NLT 31 Jul 02.	C-601-3420
E-102-2422	H-46D AIRCRAFT COMMUNICATION/NAVIGATION/IDENTIFICATION SYSTEMS ORGANIZATIONAL MAINTENANCE	AT	8379	N/A	NONE			There are no open Action Items against this training requirement.	
E-600-2401	H-46 PLANE CAPTAIN/NON-DESIGNATED AIRMAN ORGANIZATIONAL MAINTENANCE	ALL	0000	N/A	NONE			There are no open Action Items against this training requirement.	
E-601-2412	H-46D HELICOPTER MECHANIC ORGANIZATIONAL MAINTENANCE	AD	8379	N/A	NONE			There are no open Action Items against this training requirement.	
E-602-2452	H-46D ELECTRICAL AND INSTRUMENTS/AUTOMATIC FLIGHT CONTROL SYSTEMS ORGANIZATIONAL MAINTENANCE	AE	8379	N/A	NONE			There are no open Action Items against this training requirement.	
E-602-2483	H-46D STRUCTURAL/HYDRAULICS AND RELATED SYSTEMS ORGANIZATIONAL MAINTENANCE	AM	8379	N/A	NONE			There are no open Action Items against this training requirement.	
M-102-2424	CH-46 COMMUNICATION NAVIGATION IDENTIFICATION SYSTEMS ORGANIZATIONAL MAINTENANCE	AT	N/A	6322	H46.02HPRR.2424.01	NAVAIR	02 HPRR: H-46E CMT's have missing parts, but does not degradate training because of Computer Bases Training.	NAVAIR (PMA205): Obtain needed parts upon decommissioning of H-46D. Provide update to CNO (N789H6) NLT 31 July 2002.	C-602-3421
M-102-2424	CH-46 COMMUNICATION NAVIGATION IDENTIFICATION SYSTEMS ORGANIZATIONAL MAINTENANCE	AT	N/A	6322	H46.02HPRR.2424.03	CMC	02 HPRR: Current instructor positions are filled by vacancy and availability of Marines willing and ready to rotate.	02 HPRR: Utilize commander's checklist for screening instructors. If this is not sufficient, commands must develop an instructors screening checklist, forward to MGYSGT Baker (CMC ASL-33A) for use by monitors.	M-102-2424
M-102-2424	CH-46 COMMUNICATION NAVIGATION	AT	N/A	6322	H46.02HPRR.2424.04	CNET	02 HPRR: NAMTRAMAR UNIT New River has	02 HPRR: NAMTRAMAR UNIT New River:	C-102-3423

	IDENTIFICATION SYSTEMS ORGANIZATIONAL MAINTENANCE						training aids and knowledgeable instructors available to provide added training to fleet activities at their request. Many fleet squadrons are not familiar or aware that NAMTRAMARU is available to provide extra training at their request.	Transmit a message providing information on what training NAMTRAMAR UNIT New River is able to provide to the fleet. This is a command generated service.	
M-102-2424	CH-46 COMMUNICATION NAVIGATION IDENTIFICATION SYSTEMS ORGANIZATIONAL MAINTENANCE	AT	N/A	6322	H46.02HPRR.2424.05	CNET	02 HPRR: Available training assets to fleet units are limited to what is locally developed.	02 HPRR: NAMTRAMAR UNIT New River: Transmit a message providing information on what training NAMTRAMAR UNIT New River is able to provide to the fleet. This is a command generated service.	C-102-3423
M-102-2424	CH-46 COMMUNICATION NAVIGATION IDENTIFICATION SYSTEMS ORGANIZATIONAL MAINTENANCE	AT	N/A	6322	H46.02HPRR.2424.06	CNO	02 HPRR: H-46 HPRR attendance. There should be more representation from fleet units in order to get a broader picture of the problems and ideas that units my have.	02 HPRR: Concur, issue will be addressed in OPNAV.	M-102-2424
M-102-2424	CH-46 COMMUNICATION NAVIGATION IDENTIFICATION SYSTEMS ORGANIZATIONAL MAINTENANCE	AT	N/A	6322	H46.02PHPRR.2424.001	CNET	02 PRE-HPRR: The consolidation of four currently taught avionics CINs into a single course - CH46E "O" LEVEL AVIONICS COURSE - would have a multitude of benefits. Largest of the benefits would be the reduction of duplicated training thereby reducing course management requirements. Currently the duplicated training lessons are: Introduction to the Course (1.1) and Introduction to Publications (1.2). Topic 1.1 is the first hour taught in all CINs, this would save a total of three hours over the length of the course. Topic 1.2 is taught in three separate CINs, seven hours in E&I, four hours in Wire/Conn Repair, and one hour in CNCS/ECM for a total of twelve hours. This would be reduced to teaching only the current E&I material for a savings of five hours over the length of the course. The current E&I material is complete, whereas the other courses only teach a few vague areas and leave the students with many unanswered questions. Course management requirements would be reduced in several ways. Currently the separate courses require yearly reviews at three separate times, January, May and August. Consolidating of course would reduce this to one review. All subjects would be covered in the single review instead of individual sections over a spread out period,	NAMTRAMARU New River: Assess individual courses for redundant material. Remove redundant material. Courses will remain independent. Provide status to CNO (N789H6) via NAMTRAGRU HQ (N5101) and CNET (N7816) NLT 31 July 2002.	C-602-3421

							thus maximizing fleet input to the course. The consolidation would reduce the multiple Instructor Guides, Trainee Guides, Training Project Plans, Testing Plans, and Training Course Control Documents from each CIN into singular documents. Course flexibility would also be increased due to rearrangement of currently taught materials. Arranging related materials in sequence instead of waiting several weeks to cover the related materials will aid the student in retaining overall system knowledge. This in turn will provide much improved course continuity or "flow". Time saved by implementing the aforementioned ideas would be redistributed throughout the course by providing more hands-on applications.		
M-102-2424	CH-46 COMMUNICATION NAVIGATION IDENTIFICATION SYSTEMS ORGANIZATIONAL MAINTENANCE	AT	N/A	6322	H46.99MTRR.2424.03	CNET	99 MTRR: No NALCOMIS or VIDS MAF/SCIR documentation familiarization in course.	99 MTRR: Update courses to reflect NALCOMIS/VIDS MAF training. No increase in course length authorized. 02 HPRR: CNO (N789H6): Provide status NLT 1 Aug 2002.	C-602-3421
M-102-2424	CH-46 COMMUNICATION NAVIGATION IDENTIFICATION SYSTEMS ORGANIZATIONAL MAINTENANCE	AT	N/A	6322	H46.99MTRR.2424.05A	CNET	99 MTRR: CMT was delivered with missing parts valued at 155K; the list is down to 59K. CMT is still non-functional because of missing parts and maintenance.	99 MTRR: Explore feasibility of acquiring required assets via NADEP North Island or Davis Monthan AFB. For those assets that cannot be obtained, contact HQMC (ASL-1) for further guidance/assistance. 02 HPRR: Refer to Action Item H46.02HPRR.2424.01.	C-602-3421
M-601-2414	CH-46 POWER PLANTS POWER TRAINS AND ROTORS ORGANIZATIONAL MAINTENANCE	AD	8379	6112	H46.02HPRR.2414.01	CNET	02 HPRR: Too much time is spent teaching AFCS systems. This creates a problem where students learn too much about systems that they do not maintain. This facilitates the potential for students to retain less knowledge on systems that they do maintain.	02 HPRR: NAMTRAMAR UNIT New River reduce course length by 1.0 hour. Submit TPP to CNO (N789H6) via NAMTRAGRU HQ (N5101) and CNET (N7816) for final approval NLT 4 November 2002.	C-600-9422
M-601-2414	CH-46 POWER PLANTS POWER TRAINS AND ROTORS ORGANIZATIONAL MAINTENANCE	AD	8379	6112	H46.02HPRR.2414.02	CNET	02 HPRR: The installation of the 8500C and Vibration Signature Kit is specific to the 6172 field. Extensive OJT is required by the fleet for its installation and operation. The lab periods for the installation of the 8500C is not needed	02 HPRR: NAMTRAMAR UNIT New River 1. Reduce (eliminate) lab time by 19 hours. Theory will remain in course for 8500C. 2. Utilize freed hours to develop Flight	C-600-9422

							in the 6112 Basic Mechanics course.	Control Maintenance Lab and Rotor Systems Lab. 3. Submit revised TPP, TCCD, ERL/ESL to CNO (N789H6) via NAMTRAGRU HQ (N5101) and CNET (N7816) for final approval NLT 4 November 2002.	
M-601-2414	CH-46 POWER PLANTS POWER TRAINS AND ROTORS ORGANIZATIONAL MAINTENANCE	AD	8379	6112	H46.02HPRR.2414.03	CNET	02 HPRR: Students currently have no practical instruction "labs" requiring removal or reinstallation of FWD or AFT Upper Flight Controls. Fleet Marines perform flight control component replacement daily. Hands-on training would greatly improve quality of Marines graduating from MTU.	02 HPRR: NAMTRAMAR UNIT New River: Submit TPP, ERL/ESL, TCCD to CNO (N789H6) via NAMTRAGRU HQ (N5101) and CNET (N7816) for final approval NLT 4 November 2002.	C-600-9422
M-601-2414	CH-46 POWER PLANTS POWER TRAINS AND ROTORS ORGANIZATIONAL MAINTENANCE	AD	8379	6112	H46.02HPRR.2414.04	CNET	02 HPRR: More in-depth training should be taught during rotor system maintenance on commonly replaced rotor system components.	02 HPRR: NAMTRAGRUMAR UNIT New River add 8.0 hours to Lesson Topic 12.2 for Shock Absorber Rod End Bearing removal and reinstallation lab; and Spider Assembly Bushing and Bearing removal and reinstallation lab. Submit revised TPP, TCCD, and ERL/ESL to CNO (N789H6) via NAMTRAGRU HQ (N5101) and CNET (N7816) for final approval NLT 4 November 2002.	C-600-9422
M-601-2414	CH-46 POWER PLANTS POWER TRAINS AND ROTORS ORGANIZATIONAL MAINTENANCE	AD	8379	6112	H46.02HPRR.2414.05	CNET	02 HPRR: Students spend too much time on external cargo hook rigging practical application. Cargo hook rigging is a very simple procedure that can be learned in the fleet with very little training provided that students have a basic knowledge of the external cargo hook system.	02 HPRR: NAMTRAGRUMAR UNIT New River: Reduce Cargo Hook training by 4.0 hours. Teach theory of operation and component familiarization only. Submit revised TCCD to CNO (N789H6) via NAMTRAGRU HQ (N5101) and CNET (N7816) for approval NLT 4 November 2002.	C-600-9422
M-601-2414	CH-46 POWER PLANTS POWER TRAINS AND ROTORS ORGANIZATIONAL MAINTENANCE	AD	8379	6112	H46.02HPRR.2414.06	CNET	02 HPRR: Students currently have no knowledge and are not trained to use special tools to check component limitations.	02 HPRR: 1. NAMTRAMAR UNIT New River add required training into (Flight Control System Maintenance Lab 13.4) an additional one hour period to include researching and practical application of measuring wear limitations of such common components as: FWD and AFT Swashplates; FWD and AFT Slider Scissors; FWD and AFT Spider Bracket Bearings/Bushings. 2. Submit revised TPP, TCCD, ERL/ESL to CNO (N789H6) via	C-600-9422

								NAMTRAGRU HQ (N5101) and CNET (N7816) for approval NLT 4 November 2002.	
M-601-2414	CH-46 POWER PLANTS POWER TRAINS AND ROTORS ORGANIZATIONAL MAINTENANCE	AD	8379	6112	H46.02HPRR.2414.07	CNET	02 HPRR: Incorporate Plane Captain Familiarization IAW the 6112 MOS Manual. Request modification of this course to accommodate this.	02 HPRR: NAMTRAMAR UNIT New River 1. Incorporate Plane Captain Familiarization into course. 2. Assess keeping Topic 13.4 (Simplified Rigging) in course. 3. Submit revised TPP, TCCD, ERL/ESL to CNO (N789H6) via NAMTRAGRU HQ (N5101) and CNET (N7816) addressing hours or class days needed to keep rigging portion in course. Submit NLT 4 November 2002.	C-600-9422
M-601-3024	T58 ENGINE FIRST DEGREE INTERMEDIATE MAINTENANCE	AD	0000	6122	H46.02HPRR.3024.01	CNO	02 HPRR: All pertinent training documentation (6122 MOS Manual, 6122 MATMEP, M-601-3024 HPRR Training Track Review Form, OATMS report, and training guides) require correction. T-58 is incorrect, there is no hyphen between the T and the 58.	Close chit after update of T58. Provide update by 31 June 2002.	M-601-3024
M-601-3024	T58 ENGINE FIRST DEGREE INTERMEDIATE MAINTENANCE	AD	0000	6122	H46.02HPRR.3024.02	CNET	02 HPRR: The current -11 APU course is lacking in participation and the billet is not viewed as a MOS. In addition, it is not included in the T-58 IMA curriculum which lessens visibility, as well as urgency.	Incorporate APU course into pipeline M-601-3024. Provide update of incorporation to CNO (N789H6) NLT 31 July 2002.	M-601-3024
M-601-3024	T58 ENGINE FIRST DEGREE INTERMEDIATE MAINTENANCE	AD	0000	6122	H46.02HPRR.3024.03	NAVAIR	02 HPRR: The fleet lacks advanced technical knowledge of T58 engine systems and related interface.	02 HPRR (Revised Tasking): NAVAIR (PMA205-3): Include this T-58 training requirement with Test Cell Operator/Maintainer ICW effort currently ongoing by Mr. Steve Sandahl (NATEC). Provide POA&M for effort to CNO (N789H5 and N789H6) NLT 15 December 2002. 02 HPRR: NAMTRAGRUMAR UNIT New River: Provide proposed lesson topics, references, ERL/ESL information in a TPP to CNO (N789H6) via NAMTRAGRU HQ (N5101) and CNET (N7816) for review and approval NLT 15 December 2002.	C-601-3152
M-602-2486	HELICOPTER AIRFRAME MECHANIC CH-46	AM	8379	6152	H46.99MTRR.2486.08A	CNET	99 MTRR: The H-46 hydraulic system panel trainer used to support MOS 6152 training at FREST is obsolete, unreliable, and out of configuration.	99 MTRR: Conduct feasibility study to determine the best course of action for replacement of current hydraulic panel	C-603-3419

							The trainer directly supports MOS 6152 throughput and its unreliability has the potential to degrade training. There is currently no programmed solution for this problem. This issue cannot wait for the AMTCS initiative (H-46 is at the tail end of the AMTCS schedule).	trainer. 02 HPRR: Approved 12/01 - Ser N7816/1071 dated 15 June 01.	