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

IN REPLY REFER TO
1500
Ser N789H4/2U652676
19 Apr 02

From: Chief of Naval Operations (N789H)

Subj: FINAL REPORT FOR THE AH-1/UH-1 HUMAN PERFORMANCE REQUIREMENTS REVIEW (HPRR)

Ref: (a) CNO Washington DC 252041Z Jan 02

Encl: (1) HPRR Package

1. As directed by reference (a), subject HPRR convened on 04 March through 08 March 2002 onboard MCAS Camp Pendleton, CA, chaired by CNO representatives MGySgt K. Thomas (N789H6) and AWCM J. Cook (N789F6). 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 (N789H4) with a copy to CNET (ETE 3221).

3. An official electronic copy of the AH-1/UH-1 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 points of contacts are MGySgt K. Thomas, N789H6, commercial (703)604-7762, E-mail: thomas.kevin2@hq.navy.mil and AWCM J. Cook, N789F6, commercial (703)604-7708; E-mail: cook.james@hq.navy.mil.

T. L. MERRITT
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Head, Aviation Technical
Training Section

Subj: FINAL REPORT FOR THE AH-1/UH-1 HUMAN PERFORMANCE REQUIREMENTS REVIEW (HPRR)

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A5	CHIEF OF NAVAL PERSONNEL (BUPERS (P404EG))
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46P4	HELICOPTER TRAINING SQUADRON (HMT-303)

Copy to:
EAMTMU Pensacola

AH-1/UH-1 HPRR
4 - 8 March 2002
MCAS Camp Pendleton, CA

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H-1 MINI POA&M SUMMARY

CIN	ACTION ITEM	COMMAND	ECD
C-102-3344	H1.02PHPRR.2021.001	CNET	03/01/2002
C-102-3344	H1.02PHPRR.2021.002	CNET	03/01/2002
C-102-3344	H1.02PHPRR.2021.003	CNET	03/01/2002
C-102-3344	H1.98MTRR.2021.01	CNET	05/30/2002
C-102-9354	H1.98MTRR.2024.08A	NAVAIR	03/01/2002
C-102-9354	H1.98MTRR.2024.08	CNET	07/01/2002
C-104-3351	H1.98MTRR.2024.15	CNET	05/15/2002
C-198-9351	H1.98MTRR.2024.14	CNET	03/01/2002
C-198-9351	H1.98MTRR.2024.13	CNET	06/10/2002
C-600-9363	H1.02HPRR.2081.01	CNET	03/01/2002
C-600-9363	H1.02PHPRR.2081.001	CNET	03/01/2002
C-600-9363	H1.02PHPRR.2081.002	CNET	03/01/2002
C-600-9363	H1.02PHPRR.2081.003	CNET	03/01/2002
C-600-9363	H1.98MTRR.2081.01	CNET	09/30/2002
C-600-9363	H1.98MTRR.2081.02	CNET	09/30/2002
C-600-9363	H1.98MTRR.2081.04	CNET	09/30/2002
C-600-9363	H1.98MTRR.2081.05	CNET	09/30/2002
C-600-9363	H1.98MTRR.2081.06	CNET	09/30/2002
C-601-3137	H1.98MTRR.3027.01	CNET	05/30/2002
C-601-4408	H1.98MTRR.3027.02	CNET	09/30/2002
C-601-9351	H1.02PHPRR.2014.001	CNET	03/01/2002
C-601-9351	H1.02PHPRR.2014.002	CNET	03/01/2002
C-601-9351	H1.98MTRR.2014.05	CNET	03/01/2002
C-601-9351	H1.02PHPRR.2014.003	CNAL	04/30/2002
C-601-9352	H1.02HPRR.2027.001	CNET	03/01/2002

C-601-9352	H1.02PHPRR.2027.001	CNET	03/01/2002
C-601-9352	H1.02PHPRR.2027.002	CNET	03/01/2002
C-601-9352	H1.02PHPRR.2027.003	CNET	03/01/2002
C-601-9352	H1.98MTRR.2014.01	CNET	03/01/2002
C-601-9352	H1.98MTRR.2014.04	CNET	03/01/2002
C-601-9352	H1.98MTRR.2014.06	CNET	03/01/2002
C-601-9352	H1.98MTRR.2014.03	CNET	08/01/2002

C-602-3343	H1.02PHPRR.2051.002	CNET	03/01/2002
C-602-3343	H1.02PHPRR.2051.003	CNET	03/01/2002
C-602-3343	H1.02PHPRR.2051.001	CNET	05/20/2002

C-602-3357	H1.98MTRR.2024.12	CNET	06/10/2002
C-602-3357	H1.MTRR.2021.01	CNET	06/15/2002

C-602-9360	H1.98MTRR.2051.01	CNET	05/29/2002
C-602-9360	H1.98MTRR.2024.10	NAVAIR	06/14/2002
C-602-9360	H1.98MTRR.2024.11	CNET	06/17/2002
C-602-9360	H1.98MTRR.2024.09	CNET	06/30/2002

C-646-3363	H1.02HPRR.2044.006	NAVAIR	03/08/2002
C-646-3363	H1.02HPRR.2044.002	CMC	06/30/2002

M-102-2024	H1.98MTRR.2024.01	CNET	03/01/2002
M-102-2024	H1.98MTRR.2024.05	CNET	03/01/2002

M-601-2014	H1.98MTRR.2014.07	CNET	05/30/2002

M-601-3027	H1.02HPRR.3027.01	CNET	03/01/2002

M-602-2081	H1.02HPRR.2081.02	CNO	03/01/2002

M-646-2044	H1.02HPRR.2044.001	MATSG 21	03/08/2002
M-646-2044	H1.02HPRR.2044.003	CNET	03/08/2002

M-646-2044	H1.02HPRR.2044.005	CMC	03/08/2002
M-646-2044	H1.02HPRR.2044.004	CMC	06/15/2002

H-1 CONTENT AND ADMINISTRATIVE SUMMARY

CIN	TOTAL	CONTENT ADDED	CONTENT SUBTRACTED	ADMINISTRATIVE
C-102-3344	1	1		
C-102-9354	1	1		
C-104-3351	1	1		
C-198-9351	1	1		
C-600-9363	2	1	1	
C-601-3137	1	1		
C-601-4408	1			1
C-601-9351	1	1		
C-601-9352	1	1		
C-602-3343	1	1		
C-602-3357	1	1		
C-602-9360	2	1		1
C-646-3363	1	1		
M-601-2014	1			1
M-602-2081	1			1
M-646-2044	1			1
M-646-2044	1	1		
TOTAL	19	13	1	5

H-1 MAINTENANCE

CIN	TITLE	RATE	NEC	MOS	ACTION ITEM	CMD	ISSUE	ACTION TASK	ACTION CIN
C-601-3137	T-400 SERIES ENGINE FIRST DEGREE INTERMEDIATE MAINTENANCE	AD	6417	N/A	H1.98MTRR.3027.01	CNET	1998 MTRR: There is not enough time allotted to familiarize the student with the engine. The current course requires as much as (4) hrs homework per night. 1. Intro to TPL does not have enough time. 2. The major engine components class does not have enough time to cover function inter-relation and locations. 3. Currently only 2 hours provided for review and completion for prog test #1. 4. Currently no time allotted for lab safety brief. 5. Current procedures not specific enough on engine disassembly procedures and proper 3M documentation. 6. Not enough time provided for task. Specific tools on power turbine maint. 7. Not enough time provided for gas generator case dis. 8. Not enough time provided on task specific tools for assembly of gas generator. 9. Not enough time provided for complete PT and engine assembly. 10. No time provided for troubleshooting or discussion of inter-relation between systems. 11. Seal pres and bleedair class does not include discussion on location, purpose of bleed air valve.	1998 MTRR: Increase C-601-3137 by 36.0 hours to add the following: 1. Topic 1.2 - add 3.0 hours to include separate classes for individual manuals 6-1, 6-3, and 6-4. 2. Topic 2.1 - add 1.0 hour to give better details on the interrelations, functions, and locations of the major engine components. 3. Topic 2.7 - add 2.0 hours for proper review prior to test. 4. Topic 3.2 - add 3.0 hours to properly review safety precautions and lab procedures. 5. Topic 3.2 - add 4.0 hours of instruction to incorporate procedures as outlined in MIM's (i.e., sling usage, stands preoperational check, and serialization of major components). 6. Topic 3.3 - add 3.0 hours to incorporate instruction on use of tools (i.e., radius gauge run-out fixture, grinder, puller, and arbor press). 7. Topic 3.4 - add 6.0 hours to detail use of disk pullers, rotor air seal puller, fuel manifold tester, and repair of fuel nozzles and different between 400 and 402, and appropriate drops. 8. Topic 3.9 - add 5.0 hours to incorporate C.T. shroud grinder, C.T. shroud radius gauge, clearance checks, C.T. disk dimension checks. 9. Topic 3.11 - add 3.0 hours for P.T. shroud installation and grinding, 3&4 bearing support and build-up, and complete installation of engine on pack to include lock-wire and gripes. 10. Topic 3.1 - add 8.0 hours for troubleshooting procedures to include interrelation of air, lube, fuel and electrical systems. 11. Topic 2.4 - add 2.0 hours to incorporate time for discussion of the bleed air valve (i.e., function, location, etc.). 2002 HPRR: CNET (ETE3211) provide update on course progress to CNO (N789H6) by 30 May 2002. Forward documentation for approval to CNO (N789H6).	C-601-3137

M-102-2021	UH-1N COMMUNICATION NAVIGATION IDENTIFICATION SYSTEMS ORGANIZATIONAL MAINTENANCE	AT	8380	N/A	H1.98MTRR.2021.01	CNET	1998 MTRR: Currently the Navy track goes through the entire training track developed for UH-1N and AH-1W aircraft. This track C-102-9354 has been updated to remove systems not incorporated in AFC-275.	1998 MTRR: Create new CIN from existing course and replace C-102-9354 with new course. Do not make this course Navy only. (Marine HH-1N SAR aircraft still in fleet.) 2002 HPRR: NAMTD Camp Pendleton provide updated TCCD to CNO (N789H6) via NAMTRAGRU HQ (N5113) and CNET (ETE3211) NLT 30 May 2002.	C-102-3344
M-102-2021	UH-1N COMMUNICATION NAVIGATION IDENTIFICATION SYSTEMS ORGANIZATIONAL MAINTENANCE	AT	8380	N/A	H1.MTRR.2021.01	CNET		1. NLT 15 June 2002 revise C-602-3357 as follows: A. Delete OV-10 from title in NITRAS B. Update references for AH-1W (H1AAC PUBS)	C-602-3357
M-102-2024	H-1 COMMUNICATION NAVIGATION IDENTIFICATION SYSTEM MAINTENANCE	AE, AT	N/A	6324	H1.98MTRR.2024.08	CNET	1. Teaching AN/ARN-118(V) TACAN redundancy. Lesson 6.10. 2. Identification (IFF) Systems Maintenance is currently using the AN/APM-378 for training. This test set is obsolete and has been replaced by the 424 Tester. 3. Lab time needs to be increased for TACAN sys to incorporate more troubleshooting. Currently 4.0 hours. 4. More time needed for lab on the Communications System Maintenance Lesson 5.7. Currently 4.0 hours. 5. DF-301 Sys was removed from AN/ARC-182 course deletion; needs to be added to AN/ARC-210 Sys lesson 5.3. 6. Course is teaching AN/ARC-182(V)/DF-301 E/FM Homing Radio System (LT 5.3)	1998 MTRR: Revise C-102-9354 as follows: 1. Topic 6.10 - Remove AN/ARN-118(V) TACAN. (-3.0 hours) 2. Add 424 Tester to ERL. 3. Topic 6.11 - Increase TACAN System Troubleshooting lab. (+4.0 hours) 4. Topic 5.7 - Increase COMM System Troubleshooting lab. (+6.0 hours) 5. Topic 5.5 - Add DF-301; no increase in course length required. 6. Topic 5.3 - Remove AN/ARC-182(V) from lesson. (-6.0 hours) 2002 HPRR: CNET (ETE3211) provide status to CNO (N789H6) NLT 1 July 2002.	C-102-9354
M-102-2024	H-1 COMMUNICATION NAVIGATION IDENTIFICATION SYSTEM MAINTENANCE	AE, AT	N/A	6324	H1.98MTRR.2024.09	CNET	1998 MTRR: A civilian employee is required locally to facilitate developing and editing of CBT. The current system is to route requests through NAMTRAGRU. This system takes to long and lacks the face-to-face communication to produce a good product.	1998 MTRR: CNET determine feasibility of increasing support. 2002 HPRR: CNET (ETE3211) assess feasibility of media support at all sites. Provide update to CNO (N789H6) NLT 30 June 2002.	C-602-9360

M-102-2024	H-1 COMMUNICATION NAVIGATION IDENTIFICATION SYSTEM MAINTENANCE	AE, AT	N/A	6324	H1.98MTRR.2024.10	NAVAIR	1998 MTRR: 1. All H-1 aircraft have been modified with static inverters vice old brush and bearing type inverters. Trainers 142401, 142301 and 310101 need static inverters. 2. Currently, most instruments are simulated, but ITT and torque are adjusted via a potentiometer on the trainer panel located in the nose of the aircraft. These potentiometers should be connected to the collective stick to allow realistic indications with power changes. Incorporating a full engine instrument simulation will provide enhanced training in avionics as well as crew chiefs. 3. As fleet aircraft continue to be upgraded with new lighting systems, the training devices used at the FREST must also be upgraded to be effective training devices.	1998 MTRR: NAVAIR (PMA-205): 1. Obtain static inverters to upgrade trainers; 142401, 142301, and 310101. 2. Provide study to determine scope of requirement. 3. Coordinate with NAVAIR to acquire AFC-216.3, AFC-240, and AFC-282 for trainer. 2002 HPRR:CNET (ETE3211) and NAVAIR (PMA-205) provide update on progress to CNO (N789H6) NLT 14 June 2002.	C-602-9360
M-102-2024	H-1 COMMUNICATION NAVIGATION IDENTIFICATION SYSTEM MAINTENANCE	AE, AT	N/A	6324	H1.98MTRR.2024.11	CNET	1998 MTRR: 1. Not enough time for lab on AH-1W engine related systems. Currently 4.0 hours. 2. Overall lab time of UH-1N portion of course needs to be added to for teaching of troubleshooting and component removal and replacement. Currently 8.0 hrs; lesson 2.6. 3. UH-1N Heating and Ventilating System is being taught in course. This is a flight equip system. Lessons 2.7/2.8. 4. Graduates knowledge of SCAS/Electrical component location is inadequate. Currently 8.0 hours; lesson 4.4.	1998 MTRR: Revise C-602-9360 as follows: 1. Topic 7.2 - Increase component location lab. (+8.0 hours) 2. Topic 2.6 - Increase troubleshooting, component removal, and replacement lab. (+6.0 hours) 3. Topics 2.7 and 2.8 - Delete lessons. 4. Topic 4.4 - Increase SCAS Troubleshooting lab. (+8.0 hours) 2002 HPRR: CNET (ETE3211) provide copy of approval letter to CNO (N789H6) NLT 17 June 2002.	C-602-9360
M-102-2024	H-1 COMMUNICATION NAVIGATION IDENTIFICATION SYSTEM MAINTENANCE	AE, AT	N/A	6324	H1.98MTRR.2024.12	CNET	1998 MTRR: Not enough lab time for each student to perform lab assignment (wire bundle repair). 8.0 hours; lesson 2.5.	1998 MTRR: Add 8.0 hours lab to LT 2.5; C-602-3357. 2002 HPRR: CNET (ETE3211) provide status to CNO (N789H6) by 10 June 2002.	C-602-3357

M-102-2024	H-1 COMMUNICATION NAVIGATION IDENTIFICATION SYSTEM MAINTENANCE	AE, AT	N/A	6324	H1.98MTRR.2024.13	CNET	1998 MTRR: 1. Teaching M65 TSU in lessons 2.1 and 2.2 which is no longer used. 2. NARCADS system not being covered in course. Removed from 1996 MTRR, system is still in use at the fleet, avionics needs to be introduced to this system. 3. Not enough lab time in course to cover troubleshooting systems properly. Currently 3.0 hours for Turret, TOW, and Hellfire.	1998 MTRR: Revise C-198-9351 as follows: 1. Topics 2.1 and 2.2 - Replace M65 TSU with NTS TSU. No change in length. 2. Add NARCADS lesson (2 Theory, 6 lab). (+8.0 hours) 3. Topics 1.3, 2.2, and 3.2 - Add 8.0 hours to each topic for troubleshooting. (+24.0 hours) 2002 HPRR: CNET (ETE3211) forward TPP to CNO (N789H6) for approval NLT 10 June 2002.	C-198-9351
M-102-2024	H-1 COMMUNICATION NAVIGATION IDENTIFICATION SYSTEM MAINTENANCE	AE, AT	N/A	6324	H1.98MTRR.2024.15	CNET	1998 MTRR: 1. Students comprehension leaving the schoolhouse (FREST). Students checking into their respective squadrons have forgotten the majority of the information they have been taught. 2. Not enough lab time to troubleshoot high discrepancy items on Night Targeting System (NTS). Currently 6.0 hrs; lesson 1.5	1998 MTRR: Revise C-104-3351 as follows: 1. Add 8.0 hours systems review, 8.0 hours lab to course. (+16.0 hours) 2. Topic 1.5 - Increase troubleshooting lab. (+16.0 hours) 2002 HPRR: NAMTRAMARUNIT Camp Pendleton provide first teach status to CNO (N789H6) via NAMTRAGRU HQ (N5113) and CNET (ETE3211) NLT 15 May 2002.	C-104-3351
M-601-2014	AH-1W AND UH-1N POWER PLANTS POWER TRAINS AND ROTORS MAINTENANCE	AD	N/A	6114	H1.02PHPRR.2014.001	CNET	2002 Pre-HPRR: HH-1N Plane Captain qualification.	Refer to Action Item H1.02PHPRR.2051.001. Closed 3/1/02 at HPRR.	C-601-9351
M-601-2014	AH-1W AND UH-1N POWER PLANTS POWER TRAINS AND ROTORS MAINTENANCE	AD	N/A	6114	H1.02PHPRR.2014.002	CNET	2002 Pre-HPRR: Trainers require upgrades.	Disapproved. Trainers are related to real fleet scenarios. Closed 3/1/02 at HPRR.	C-601-9351
M-601-2014	AH-1W AND UH-1N POWER PLANTS POWER TRAINS AND ROTORS MAINTENANCE	AD	N/A	6114	H1.02PHPRR.2014.003	CNAL	2002 Pre-HPRR: Course does not teach actual scenarios that may occur in the field.	CNAL (N422F1) research fleet requirements for course additions needed. Response required to CNO (N789H6) by 30 April 2002. Closed 3/1/02 at HPRR.	C-601-9351
M-601-2014	AH-1W AND UH-1N POWER PLANTS POWER TRAINS AND ROTORS MAINTENANCE	AD	N/A	6114	H1.98MTRR.2014.03	CNET	1998 MTRR: FREST still training with 5-part VIDS/MAF; 5.0 hours instruction/6.0 hours lab.	1998 MTRR: Conduct feasibility study to identify a NALCOMIS training device to provide introduction training and labs for A-Schools and C-Schools. 2002 HPRR: NLT 1 August 2002 add to courses, as appropriate, maintenance documentation/familiarization training. No additional time or resources authorized.	C-601-9352

M-601-2014	AH-1W AND UH-1N POWER PLANTS POWER TRAINS AND ROTORS MAINTENANCE	AD	N/A	6114	H1.98MTRR.2014.07	CNET	1998 MTRR: Barracks doesn't provide study environment for the average student (Open Squadbay). Unsat lighting, power, desk space, study areas, ventilation. Open squadbays for day/night/mid schoolhouse.	1998 MTRR: Current conditions for students are unsatisfactory. Review conditions and provide recommendations how to improve conditions, given that MCB is not going to upgrade barracks. 2002 HPRR: CNET (ETE3211) provide CNO (N789H6) update on this action item with copy of reports on Marine Barracks condition by 30 May 2002.	M-601-2014
M-601-2027	UH-1N POWER PLANTS/POWER TRAINS AND ROTORS INTEGRATED ORGANIZATIONAL MAINTENANCE	AD	8380	N/A	H1.02HPRR.2027.001	CNET	Training with plane captain indoctrination is required. MAG-39 (HMT-303) is currently working on a standardized syllabus. Emphasis on training requirements of the syllabus should be covered in a formal training environment. A basic theory of operation and maintenance procedures is covered at the school, but the end result of a 6114 should be to become a P/C approximately 90 days after reaching the fleet.	Disapproved. Refer to Action Item H1.02PHPRR.2051.001. Closed 3/1/02 at HPRR.	C-601-9352
M-601-2027	UH-1N POWER PLANTS/POWER TRAINS AND ROTORS INTEGRATED ORGANIZATIONAL MAINTENANCE	AD	8380	N/A	H1.02PHPRR.2027.001	CNET	2002 Pre-HPRR: HH-1N Plane Captain qualification.	Refer to Action Item H1.02PHPRR.2051.001. Closed 3/1/02 at HPRR.	C-601-9352
M-601-2027	UH-1N POWER PLANTS/POWER TRAINS AND ROTORS INTEGRATED ORGANIZATIONAL MAINTENANCE	AD	8380	N/A	H1.02PHPRR.2027.002	CNET	2002 Pre-HPRR: Trainers require upgrades.	Disapproved. Trainers are ample to train the 6114's per the curriculum. Closed 3/1/02 at HPRR.	C-601-9352
M-601-2027	UH-1N POWER PLANTS/POWER TRAINS AND ROTORS INTEGRATED ORGANIZATIONAL MAINTENANCE	AD	8380	N/A	H1.02PHPRR.2027.003	CNET	2002 Pre-HPRR: Course does not teach actual scenarios that may occur in the field.	Disapproved. Easier for 6114's to learn these skills in the fleet. Closed 3/1/02 at HPRR.	C-601-9352

M-601-3027	T-400/T-700 ENGINE FIRST DEGREE INTERMEDIATE MAINTENANCE	AD	0000	6124	H1.02HPRR.3027.01	CNET	Current training track requires 6124 students to attend AD A-School in Pensacola (6 weeks), T-400 training at NAMTRAMARUNIT Camp Pendleton (4 weeks) and T-700 training at either NAMTRA North Island or NAMTRA Mayport (4 weeks). This creates built in awaiting instruction time. Inconsistency of training and increased TAD costs. Combining all of this training at one location, under one track will save T2P2 costs as well as TAD costs while, at least, maintaining quality.	Disapproved. Return on investment not immediate and creates redundancy in training. Closed 3/1/02 at HPRR.	M-601-3027
M-601-3027	T-400/T-700 ENGINE FIRST DEGREE INTERMEDIATE MAINTENANCE	AD	0000	6124	H1.98MTRR.3027.02	CNET	1998 MTRR: T-700 engine first degree intermediate maintenance repair is not being taught at HMT-303 FREST Camp Pendleton.	1998 MTRR: CNET: NAMTRAGRU is conducting feasibility study from a TCQMB action item. Report out as MTRR action when complete. 2002 HPRR: 1. NAMTRAMARUNIT Camp Pendleton: Provide cost savings, alternatives to reduce redundant/awaiting training for students - TPP resource requirements submit to CNO (N789H6) via NAMTRAGRU HQ (N5113) and CNET (ETE3211) by end of FY02. Provide status update 90 days - 30 Jun 2002. 2. CNET (ETE3211) provide to CNO (N789H6) feasibility study - review reversing order of training track.	C-601-4408
M-602-2051	UH-1N ELECTRICAL INSTRUMENT SYSTEMS ORGANIZATIONAL MAINTENANCE	AE	8380	N/A	H1.02PHPRR.2051.001	CNET	2002 Pre-HPRR: HH-1N Plane Captain qualification.	CNET (ETE3211): Assess resources needed to incorporate Plane Captain familiarization into course - course length, materials. Provide update NLT 20 May 2002. CMC (ASL-30): Change MOS Manual to reflect Plane Captain Familiarization vice Plane Captain Syllabus completion.	C-602-3343
M-602-2051	UH-1N ELECTRICAL INSTRUMENT SYSTEMS ORGANIZATIONAL MAINTENANCE	AE	8380	N/A	H1.02PHPRR.2051.002	CNET	2002 Pre-HPRR: Trainers require upgrades.	Trainers will be updated when money is made available. TMA has no money for upgrades at this point - this will remain a POM issue/TMT. Closed 3/1/02 at HPRR.	C-602-3343
M-602-2051	UH-1N ELECTRICAL INSTRUMENT SYSTEMS ORGANIZATIONAL MAINTENANCE	AE	8380	N/A	H1.02PHPRR.2051.003	CNET	2002 Pre-HPRR: Course does not teach actual scenarios that may occur in the field.	Refer to H1.PHPRR.2014.003. Closed 3/1/02 at HPRR.	C-602-3343

M-602-2051	UH-1N ELECTRICAL INSTRUMENT SYSTEMS ORGANIZATIONAL MAINTENANCE	AE	8380	N/A	H1.98MTRR.2051.01	CNET	1998 MTRR: Navy's currently required to attend the full 6 week course when the 3 wk UH-1N portion is all that is needed.	1998 MTRR: Create new CIN from existing course and replace C-602-9360 with new CIN. 2002 HPRR: NAMTD Camp Pendleton identify equipment requirements. Submit updated TCCD/ERL/ESL to CNO (N789H6) via NAMTRAGRU HQ (N5113) and CNET (ETE3211) NLT 29 May 2002.	C-602-9360
M-602-2081	HELICOPTER AIRFRAME MECHANIC A/UH-1	AM	8380	6154	H1.02HPRR.2081.01	CNET	NALCOMIS not being taught. Green MAF's are touched upon briefly at Pensacola.	No action required. Closed 3/1/02 at HPRR.	C-600-9363
M-602-2081	HELICOPTER AIRFRAME MECHANIC A/UH-1	AM	8380	6154	H1.02HPRR.2081.02	CNO	Barracks and living conditions of students are substandard.	No action required. Closed 3/1/02 at HPRR.	M-602-2081
M-602-2081	HELICOPTER AIRFRAME MECHANIC A/UH-1	AM	8380	6154	H1.02PHPRR.2081.001	CNET	2002 Pre-HPRR: HH-1N Plane Captain qualification.	Refer to Action Item H1.02PHPRR.2051.001. Closed 3/1/02 at HPRR.	C-600-9363
M-602-2081	HELICOPTER AIRFRAME MECHANIC A/UH-1	AM	8380	6154	H1.02PHPRR.2081.002	CNET	2002 Pre-HPRR: Trainers require upgrades.	Refer to Action Item H1.02PHPRR.2051.002. Closed 3/1/02 at HPRR.	C-600-9363
M-602-2081	HELICOPTER AIRFRAME MECHANIC A/UH-1	AM	8380	6154	H1.02PHPRR.2081.003	CNET	2002 Pre-HPRR: Course does not teach actual scenarios that may occur in the field.	Refer to H1.PHPRR.2014.003. Closed 3/1/02 at HPRR.	C-600-9363
M-602-2081	HELICOPTER AIRFRAME MECHANIC A/UH-1	AM	8380	6154	H1.98MTRR.2081.01	CNET	1998 MTRR: Integrated system maintenance may not be used by the Marines for quite some time after reaching the fleet; Lesson 2.3.	1998 MTRR: Delete Integrated System Maintenance from Lesson Topic 2.3. 2002 HPRR: NAMTRAMARU Camp Pendleton submit revised TPP/MSS to CNO (N789H6) via NAMTRAGRU HQ (N5113) and CNET (ETE3211) for consideration/approval NLT 30 September 2002.	C-600-9363
M-602-2081	HELICOPTER AIRFRAME MECHANIC A/UH-1	AM	8380	6154	H1.98MTRR.2081.02	CNET	1998 MTRR: Securing and mooring is a flight line function and, if needed, will be taught in the fleet for the situation; Lesson 2.6.	1998 MTRR: Delete 1.0 hour (Securing and Mooring) from Lesson Topic 2.6. 2002 HPRR: NAMTRAMARU Camp Pendleton submit revised TPP/MSS to CNO (N789H6) via NAMTRAGRU HQ (N5113) and CNET (ETE3211) for consideration/approval NLT 30 September 2002.	C-600-9363
M-602-2081	HELICOPTER AIRFRAME MECHANIC A/UH-1	AM	8380	6154	H1.98MTRR.2081.04	CNET	1998 MTRR: Students do not get enough lab time.	1998 MTRR: Add 3.0 hours to Lesson Topic 3.8 and Lesson Topic 3.9. 2002 HPRR: NAMTRAMARU Camp Pendleton submit revised TPP/MSS, etc to CNO (N789H6) via NAMTRAGRU HQ (N5113) and CNET (ETE3211) for consideration/approval NLT 30 September 2002.	C-600-9363

M-602-2081	HELICOPTER AIRFRAME MECHANIC A/UH-1	AM	8380	6154	H1.98MTRR.2081.05	CNET	1998 MTRR: Students are receiving homework to cover course material not covered in class.	1998 MTRR: Add 16.0 hours to C-600-9363 course: Lesson Topic 1.3 (+1.0 hour) Lesson Topic 3.3 (+1.0 hour) Lesson Topic 3.5 (+2.0 hours) Lesson Topic 3.7 (+2.0 hours) Lesson Topic 4.1 (+2.0 hours) Lesson Topic 4.3 (+2.0 hours) Lesson Topic 5.1 (+1.0 hour) Lesson Topic 6.1 (+1.0 hour) Lesson Topic 7.1 (+1.0 hour) Lesson Topic 8.1 (+1.0 hour) Lesson Topic 8.2 (+1.0 hour) Lesson Topic 9.1 (+1.0 hour) 2002 HPRR: Concur, NAMTRAMARU Camp Pendleton submit revised TPP/MSS, etc to CNO (N789H6) via NAMTRAGRU HQ (N5113) and CNET (ETE3211) for consideration/approval NLT 30 September 2002.	C-600-9363
M-602-2081	HELICOPTER AIRFRAME MECHANIC A/UH-1	AM	8380	6154	H1.98MTRR.2081.06	CNET	1998 MTRR: Deleted Integrated System Maintenance from Lesson Topic 2.3.	1998 MTRR: Add 1.0 hour Integrated Systems Maintenance (MRC Deck) to Lesson Topic 1.3. 2002 HPRR: NAMTRAMARU Camp Pendleton submit revised TPP/MSS, etc to CNO (N789H6) via NAMTRAGRU HQ (N5113) and CNET (ETE3211) for consideration/approval NLT 30 September 2002.	C-600-9363
M-602-5811	H-1 AIRCRAFT ELECTRICAL INSTRUMENT/AUTO MATIC FLIGHT CONTROL SYSTEM EQUIPMENT INTERMEDIATE MAIN	AE	N/A	6433	NONE			There are no open Action Items against this training requirement.	
M-646-2044	ROTARY WING (H-1 CH-46 CH-53) ARMAMENT SYSTEMS MAINTENANCE	AO	N/A	6531	H1.02HPRR.2044.001	MATSG 21	2002 H-1 HPRR: Marines arriving at fleet units without: Security clearances, Ordnance Physicals, and Phase 1 GSE training.	Disapproved. Security clearances are dependent upon background checks. Ordnance physicals are being completed at Pensacola. GSE training is a fleet responsibility. Closed 3/1/02 at HPRR.	M-646-2044
M-646-2044	ROTARY WING (H-1 CH-46 CH-53) ARMAMENT SYSTEMS MAINTENANCE	AO	N/A	6531	H1.02HPRR.2044.002	CMC	2002 H-1 HPRR: Marines arriving at fleet units do not know how to safety wire or basic wire repair.	2002 H-1 HPRR: CMC (ASL-30A) assess requirements for ordnance wire repair. Submit findings to CNO (N789H6) NLT 30 June 2002 for further action, if required.	C-646-3363
M-646-2044	ROTARY WING (H-1 CH-46 CH-53) ARMAMENT SYSTEMS MAINTENANCE	AO	N/A	6531	H1.02HPRR.2044.003	CNET	2002 H-1 HPRR: Marines being taught information at "A" school that does not apply to their MOS's, Internal components of bombs, missiles.	No action required. "A" school training is currently CORE and STRAND for USN/USMC. Training is appropriate. Closed 3/1/02 at HPRR.	M-646-2044

M-646-2044	ROTARY WING (H-1 CH-46 CH-53) ARMAMENT SYSTEMS MAINTENANCE	AO	N/A	6531	H1.02HPRR.2044.004	CMC	2002 H-1 HPRR: MOS 6531 is a generic MOS which leads to career Marines changing from rotor wing to fixed wing and vise versa. This causes periods of higher ranked enlisted being put in a position of inexperience which can adversely affect FITREPS and cause SNCO's and NCO's to be less effective.	2002 H-1 HPRR: NLT 15 June 2002 CMC (ASL-30A) take action to propose separate MOS's for rotor wing and fixed wing ordnance personnel.	M-646-2044
M-646-2044	ROTARY WING (H-1 CH-46 CH-53) ARMAMENT SYSTEMS MAINTENANCE	AO	N/A	6531	H1.02HPRR.2044.005	CMC	2002 H-1 HPRR: Marines switching platforms without having knowledge of systems.	Disapproved. Type/Model/Series specific training not required by MOS. Closed 3/1/02 at HPRR.	M-646-2044
M-646-2044	ROTARY WING (H-1 CH-46 CH-53) ARMAMENT SYSTEMS MAINTENANCE	AO	N/A	6531	H1.02HPRR.2044.006	NAVAIR	2002 H-1 HPRR: Ordnance systems on the AH-1W are becoming so complex that Marines need more formal training on fault isolation and troubleshooting.	2002 H-1 HPRR: No action required. The 4 Bladed Armament Trainer is a planned acquisition and will have fault insertion capability. Closed 3/1/02 at HPRR.	C-646-3363

H-1 OFFICER

CIN	TITLE	RATE	ACTION ITEM	CMD	ISSUE	ACTION TASK	ACTION CIN
E- 2C-2012	HH-1N/UH-1N FLEET REPLACEMENT PILOT CATEGORY 3 PIPELINE	OFFICER	NONE	(BLANK)		THERE ARE NO PENDING ACTIONS AGAINST THIS REQUIREMENT.	
E-2C-2004	HH-1N INSTRUCTOR UNDER TRAINING	OFFICER	NONE	(BLANK)		THERE ARE NO PENDING ACTIONS AGAINST THIS REQUIREMENT.	
E-2C-2010	HH-1N FLEET REPLACEMENT PILOT CATEGORY 1 PIPELINE	OFFICER	HH1N.98ATRR.2001.01	CNAP	USMC re-writing their T&R matrix which could affect the Fam and instrument requirements conducted by USN pilot instructors.	HMT-303, integrate USMC T&R matrix level 100 series into USN syllabus for teaching interoperability and resubmit curricula to N889 when complete. Provide status to CNO N789F6 NLT 22 Aug 02.	E-2C-2001
E-2C-2011	HH-1N FLEET REPLACEMENT PILOT CATEGORY 2 PIPELINE	OFFICER	NONE	(BLANK)		THERE ARE NO PENDING ACTIONS AGAINST THIS REQUIREMENT.	

H-1 AIRCREW

CIN	TITLE	RATE	NEC	MOS	ACTION ITEM	CMD	ISSUE	ACTION TASK	ACTION CIN
E-050-2005	HH-1N CATEGORY 5 FLEET REPLACEMENT AIRCREWMAN INSTRUCTOR UNDER TRAINING (IUT)	AD, AO, AE,AM, AT	0000	0000	H1.02HPRR.2005.001	CNAL	The Rappel instructor and FRAC instructor IUT syllabi are separate. This creates a longer training track for instructors.	HMT-303: Revise IUT curriculum to include Rappel Instructor training. Not to exceed 5 days. Provide status to CNO N789F6 NLT 29 Jul 02.	E-050-2005
E-050-2010	HH-1N FRAC CATEGORY 1 PIPELINE	AD, AM, AE, AT, AO	8211	0000	H1.02HPRR.2010.001	CNAL	HC-3 still has classroom and class data in Rappel curriculum (E-050-2006).	HMT-303: Remove all HC-3 data from Rappel curriculum E-050-2006. Provide status to CNO N789F6 NLT 15 Aug 02.	E-050-2006
E-050-2010	HH-1N FRAC CATEGORY 1 PIPELINE	AD, AM, AE, AT, AO	8211	0000	H1.02HPRR.2010.002	CNAL	Rappel curriculum E-050-2006 requires 2 (100), 2 (200) foot rappels and 1 (100) foot short haul.	HMT-303: Change rappel curriculum E-050-2006 to 1 (100) and 1 (200) foot rappels with no change in short haul requirements. Extra time to be used to review student short haul hook-up procedures. Submit revised curriculum. No impact to course length authorized. Provide status to CNO N789F6 NLT 29 Jul 02.	E-050-2006
E-050-2010	HH-1N FRAC CATEGORY 1 PIPELINE	AD, AM, AE, AT, AO	8211	0000	H1.02HPRR.2010.003	CNAL	Ratings on rappel curriculum include AME, PR, AMS, AMH and ranks include E-1 to E-9. AME and PR have been removed from eligible rates and AMS, AMH have been combined. Ranks have been changed.	HMT-303: Remove AME/PR rates from curriculum and change AMS/AMH to AM only. Change rank to E-3 to E-8.Submit revised curriculum. No impact to course length authorized. Provide status to CNO N789F6 NLT 15 Aug 02.	E-050-2006
E-050-2010	HH-1N FRAC CATEGORY 1 PIPELINE	AD, AM, AE, AT, AO	8211	0000	H1.02HPRR.2010.004	CNAL	Tree extrication is written into rappel curriculum, but only 2 commands actually practice it. HMT-303 touches on tree extrication in minimum form.	HMT-303: Remove all tree extrication entirely from rappel curriculum E-050-2006. Submit revised curriculum. Provide status to CNO N789F6 NLT 15 Aug 02.	E-050-2006
E-050-2010	HH-1N FRAC CATEGORY 1 PIPELINE	AD, AM, AE, AT, AO	8211	0000	H1.02HPRR.2010.005	CNAL	2 hours is allotted total time for admin check-in and out as per rappel curriculum E-050-2006. This is not enough time for students checking in the morning of class start. Check in includes barracks, and pg 13 signing.	HMT-303: Submit revised curriculum. No increase in course length authorized. Provide status to CNO N789F6 NLT 30 Jul. 02.	E-050-2006
E-050-2010	HH-1N FRAC CATEGORY 1 PIPELINE	AD, AM, AE, AT, AO	8211	0000	H1.02HPRR.2010.006	CNAL	Day 3 and 4 of rappel curriculum E-050-2006 states rappel tower labs to be performed.	HMT-303: Move tower labs from day 4 to day 3 tower lab evolutions. Submit revised curriculum. No increase in course length authorized. Provide status to CNO N789F6 NLT 15 Aug 02.	E-050-2006
E-050-2010	HH-1N FRAC CATEGORY 1 PIPELINE	AD, AM, AE, AT, AO	8211	0000	H1.02HPRR.2010.007	CNAL	Day 4 in rappel curriculum is for flight and then admin at the end. If the flight runs long, admin cannot be performed.	HMT-303: Move admin to day 5 along with classroom/tower. Submit revised curriculum. No increase in course length authorized. Provide status to CNO N789F6 NLT 26 Aug 02.	E-050-2006

E-050-2010	HH-1N FRAC CATEGORY 1 PIPELINE	AD, AM, AE, AT, AO	8211	0000	H1.02HPRR.2010.008	CNAL	HC-3 acts as the rappel course model manager. Actual rappel course is taught at HMT-303. Currency for rappel CNAL evaluator would be better attained with rappel evaluators position combined with UH-1N NATOPS evaluator.	CNAP/HMT-303/HC-3: Discuss and review change recommendation during SAR conference. Advise OPNAV N789F6 on status of chit when action is complete. Provide status to CNO N789F6 NLT 15 Oct 02.	E-050-2006
E-050-2010	HH-1N FRAC CATEGORY 1 PIPELINE	AD, AM, AE, AT, AO	8211	0000	H1.02PHPRR.2010.002	CNAL	Aircrewmen 8211: Recommend that more time be spent with crewmen at the rappel tower during the course. Crewmen are showing up to ultimate command with little to no proficiency on the correct rescue hook-up procedures.	Submit curriculum modification to incorporate one additional Rappel to a short haul. No impact to overall training time. Provide status to CNO N789F6 NLT 19 Aug 02.	E-050-2010
E-050-2010	HH-1N FRAC CATEGORY 1 PIPELINE	AD, AM, AE, AT, AO	8211	0000	H1.02PHPRR.2010.003	CNAL	Aircrewmen 8211: Recommend that flight logbooks be implemented during initial flight training. Crewmen are getting to ultimate command with lost or no documented flight time.	HMT-303: Provide first issue of Flight Logbooks to CAT I students upon check-in. Provide status to CNO N789F6 NLT 15 Jul 02.	E-050-2010
E-050-2010	HH-1N FRAC CATEGORY 1 PIPELINE	AD, AM, AE, AT, AO	8211	0000	HH1N.98ATRR.2010.04	CNAP	Billets at SAR stations throughout the Navy do not reflect the requirement for NEC 8211.	N789F6/CNAP/NAVPERS - N889F6, CNAP N822 and PERS 404EG work with NAVMAC and MCAP, MCAB, MCAL to scrub and correct billet files to reflect correct NEC 8211 requirements. Mar 02 HPRR: BUPERS / EPMAC: Provide consolidated list of billets reflected incorrectly for PERS 404E Aircrew distribution. CNAP N86B submit TFFMS packages to make corrections. Provide status to CNO N789F6 NLT 15 Jun 02.	E-050-2010
M-601-2015	UH-IN CREW CHIEF TRAINING SYLLABUS	AD	0000	0000	NONE	(BLANK)		THERE ARE NO OPEN ACTIONS ITEMS AGAINST THIS REQUIREMENT.	