DEPARTMENT OF THE NAVY
CHIEF OF NAVAL EDUCATION AND TRAINING
250 DALLAS ST
PENSACOLA FLORIDA 32508-5220

CNETINST 3540.2
T23312
JUN 26 1997

CNET INSTRUCTION 3540.2

Subj: GREAT LAKES PROPULSION PLANT TRAINER ENGINEERING READINESS PROCESS

Ref: (a) CINCLANTFLT/CINCPACTFLTINST 3540.2
(b) CINCLANTFLT/CINCPACFLTINST 3540.9
(c) CINCPACFLT/CINCLANTFLTINST 3540.8

1. Purpose. To establish policy governing the management and execution of the Engineering Readiness Process for the Engineering Propulsion Plant Trainers (PPTs) at Service School Command (SERVSCOLCOM), Great Lakes.

2. Background

a. References (a), (b), and (c) provide procedural guidance for the PPTs and Fleet Commander in Chiefs' (CINCs') philosophy and policy for this process.

b. The primary mission of the PPTs is to provide a realistic shipboard environment to train apprentice level students ("A" school students). The secondary mission is to provide a facility so land-based equipment and system testing can be conducted in an operational environment prior to fleet introduction. The requirement for PPTs to meet fleet standards is the same; however, watchsection/watchstation assignments are different because of the training environment. The PPTs are manned differently than fleet units in that the Engineering Training Team (ETT) is part of the authorized manning document (AMD), specifically billeted to train personnel to safely operate a propulsion plant.

c. The mission of the PPTs requires operations of at least one qualified watchsection with a competent ETT to maintain proficiency. The training requirements for "A" school students justify this support for watch section/ETT composition. The necessity to sustain or maintain the 24-hour-per-day operation as normally performed by fleet units is not a requirement in the PPT.

d. During the conduct of past Operational Propulsion Plant Examinations (OPPEs), two watchteams were presented for examination despite the reality of PPTs requiring only one watchsection to carry out the training mission. Unlike a ship, the ETT manning does not constitute a "third" watchsection and is numerically smaller than the watchsection they observe and train.

Successful completion of the Operations portion of the Engineering Readiness Assessment (ERA) will require one of two watchteams demonstrating safe operation of the PPT during both evolutions and drills. The Propulsion Examining Board (PEB) will reserve the right to pick which watchteam will be assessed first. Assessment of the second watchteam will only be required in the event the first watchteam performs in an unsatisfactory manner.

e. The requirement to present both watchsections should still be continued; however, the ERA should consist of a competent ETT with one of two watchteams capable of safely operating the PPT and combating a main space fire.

3. Discussion. This instruction sets guidelines for the Engineering Readiness Process for Engineering PPTs and establishes a process to achieve and maintain engineering training readiness.

a. Philosophy. The engineering readiness process is built upon the tenets of process improvement within the framework of the Tactical Training Strategy (TTS) "assess-train-certify" sequence.

b. Standards. Engineering standards are already well established by governing instructions which include but are not limited to: Engineering Operational Sequencing System (EOSS), Planned Maintenance System (PMS), Naval Sea Systems Command (NAVSEA) Technical Manuals (NSTM), equipment technical manuals, and various Chief of Naval Operations (OPNAV), CINC, and Type Commander (TYCOM) directives.

c. Measures of Effectiveness. Measures of effectiveness applied in this process will gauge the degree to which standards are maintained. Standards provided in existing publications and instructions will be used to provide a baseline to provide information to develop appropriate measures of effectiveness and identify problems.

4. Engineering Readiness. As described in reference (b), five major areas will be assessed, trained to, and certified during the process.

a. Training. Great Lakes' PPTs are expected to meet standards as detailed in reference (c) and Personnel Qualification Standards (PQS). The goal is proficient watch teams and ETTs.

b. Operations. SERVSCOLCOM staff personnel are expected to operate the PPTs throughout a range of plant configurations and are expected to be able to respond to plant casualties in accordance with existing guidance. Watchteams are expected to perform engineering tasks and procedures in accordance with the governing documents (EOSS, PMS, NSTM, OPNAV, Chief of Naval Education and Training (CNET), and Naval Training Center (NTC) directives).

The PPTs will be prepared to present the ETT and both watch-sections during the conduct of an ERA/Certification. Successful completion of the ERA remains the same as delineated in paragraph 2d above.

c. Fire Fighting. Assigned watchstanders will demonstrate their ability to safely and effectively respond to a PPT main space fire in accordance with EOSS, NSTM, Main Space Fire Doctrine (MSFD), and base policies and directives.

d. Management Programs. The PPTs' management programs will be reviewed and assessed in accordance with reference (b). Programs found to be effective during Mid-Cycle Assessment (MCA) may not be reviewed during the Engineering Certification at the senior assessor's discretion. As an indicator of program effectiveness, deckplate performance will be monitored during all visits.

e. Material. The staff for the PPTs will demonstrate the ability to self-assess material condition: achieve material requirements to support safe light-off; operate in accordance with EOSS, PMS, NSTM, and reference (b); and develop/implement plans to restore the plant to designed operational capability.

5. Processes. The PPT readiness process will consist of the following:

a. PPT Engineering Assessment/Certification Visit. The purpose of this visit will be to assess/certify the Hot Plant Trainer's ability to safely and properly operate, maintain, and manage Hot Plant operations to satisfy the training mission of the command.

(1) NTC Great Lakes will act as Immediate Superior in Command (ISIC) for this visit insofar as NTC will function as scheduling agent and will be responsible for the completion message at the conclusion of the visit. CNET will function as the TYCOM for the administration and completion of the visit.

(2) The PPT Engineering Assessment/Certification visit will be completed at a minimum once every 24 calendar months.

(3) The ISIC will request Commander in Chief, U.S. Atlantic Fleet (N7) to provide an assessment team composed of personnel from PEB and Afloat Training Group (AFLOATRAGRU) to assist the ISIC.

(4) The assessment/certification visit will be conducted in accordance with reference (b) using the sections concerning Command Assessment of Readiness and Training (CART) II as general guidance.

b. MCA. The MCA has two purposes: first, to assess the continuum of engineering readiness in the areas of training, fire fighting, management programs, and material; second, to identify training objectives for the next scheduled assessment/certification visit.

(1) No special preparations are required. The MCA will validate the ability of the command to sustain engineering readiness and will provide "mid-course" correction between trainer assessment and certification visits.

(2) The MCA will be conducted 10 to 14 months after the completion of the PPT Engineering Assessment/Certification visit.

(3) The ISIC, supported by the TYCOM, will request assistance from AFLOATRAGRU in the scheduling and conduct of the MCA. The ISIC, in conjunction with the AFLOATRAGRU, should tailor the conduct of the MCA to fit the training and scheduling needs of the PPT.

R. M. SCOTT
Chief of Staff

Copy to (CNETINST 5218.2B):
Lists I (2, 3), II (11, 12)
SNDL A3 (CNO (N869))
21A1 (CINCLANTFLT) (PEB))
21A2 (CINCPACFLT (PEB))
24A1 (COMNAVAIRLANT)
24A2 (COMNAVAIRPAC)
24D1 (COMNAVSURFLANT)
24D2 (COMNAVSURFPAC)
26J1 (COMAFLOATRAGRULANT)
26J2 (COMAFLOATRAGRUPAC)
FKA1G (COMNAVSEASYSCOM)

Stocked:
CHIEF OF NAVAL EDUCATION AND TRAINING
CODE 0041
CNET
250 DALLAS ST
PENSACOLA FL 32508-5220