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SECTION V-A

MATERIAL SUPPORT SYSTEM

1. REQUESTING AND OBTAINING AVAILABLE TRAINING DEVICES OR SIMULATORS.

a. General.

(1) Most Cognizance Symbol 2"O" (Cog 2"O") training equipment is procured by the NAWCTSD and allocated for direct delivery to the designated device custodian activities. (Some devices are procured by other Naval activities and transferred into the Cog 2"O" inventory in accordance with NAVTRASYSCEININST 4440.12C.) Only those non-plant property minor devices that have a general application and for which repeated demands may occur are placed in system stock in limited quantities. However, there may also be a few Value Class 1, 2, or 3 items that are unused and held at stock points (e.g., the Naval Supply Center). The NAWCTSD (Code 365) may be contacted to find out what is available from stock points. Stock items are issued to requesting activities subject to availability, and in accordance with the specified approval authority (approval code), as listed in the Index to the Directory of Naval Training Devices ("I" Cognizance Order Number 0550-LP-200-0001).

(2) Any DOD activity may request Cog 2"O" training equipment in accordance with its applicable chain of command guidelines. Government agencies, universities, and other civilian organizations cooperating with the military may request training equipment from the appropriate approval authority. In accordance with Navy International Programs Office (IPO) regulations and instructions, unused Cog 2"O" training equipment may be made available to foreign countries.

b. Directory of Naval Training Devices.

(1) The Directory of Naval Training Devices consists of an Index and three sections. (However, Sections 1 and 3 are no longer used.) Section 2 lists and describes training devices developed for the training agencies

and offices for which issue approval has been delegated to the NAWCTSD. The directory is published for use by Naval personnel engaged in training activities and managing or providing support to Cog 2"O" training equipment.

(2) The directory supplements other training equipment management information by furnishing physical and functional descriptions, including training objectives, together with other pertinent data such as related training equipment, references, weights, dimensions, security classification, and national stock numbers for those items included in the Federal Catalog System.

(3) The directory also functions as a quick reference Cog 2"O" device catalog of information for Naval personnel reviewing alternative solutions to training problems and making them aware of the types of in-service devices that may have been procured to satisfy similar training problems.

(a) This review of alternative methods is part of the Training Systems Requirements Analysis (TSRA) discussed in Section II-B. Both DOD Directive 1430.13, Training Simulators and Devices, and OPNAVINST 5000.50A, Navy Training Simulator and Device Acquisition and Management, require that such exploration of training alternatives be conducted. Related to this review of alternatives, OPNAVINST 5000.50A has the following stipulations: Proposed training devices will neither duplicate existing devices nor create duplication between shipboard and land-based training devices without the approval of the Deputy Chief of Naval Operations (MPT) and the program sponsor. Training devices which are to replace existing devices will have a plan for the coordination of the training and phasing in the new device while phasing out the old.

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(b) The stipulations listed were intended to prevent unnecessary duplication of training devices. They were not intended to force requiring activities or training support agencies to "re-invent the wheel". The devices listed in the directory were procured because they were determined to be the best selection from various alternatives that were considered to satisfy past training problems. They may still be the best choice to satisfy current problems. Naval personnel conducting current alternative reviews should consider a similar device which could take advantage of today's technology and technological products to offer reduced initial and life-cycle support costs, greatly reduced size, and the potential for additional capabilities at no extra cost, such as available subsystems and components, or commercial-off-the-shelf (COTS) components.

(4) The Directory Index lists Cog 2"O" training equipment under the inventory management of NAWCTSD. It includes numeric and alphabetic lists of training equipment accessory or modification kit items in a cross-referenced type compilation and includes accountability codes, support codes, approval codes, security classification, standard unit price data for non-national stock-numbered items, freight classification developed by the Military Traffic Management and Terminal Service, and Demilitarization codes. The index also relates each item to the appropriate descriptive section of the Directory of Naval Training Devices, and is cataloged under "I" Cognizance Order No. 0550-LP-200-0001.

(5) The descriptive sections of the Directory of Naval Training Devices, listed below, provide activities with a description of all current Cog 2"O" training equipment. Descriptive pages include the following information for each item: the device designator, a photograph, manufacturer's or contractor's data, procurement data functional description, electrical and mechanical characteristics, reference data and literature, equipment supplied and required data, physical information, environmental characteristics, personnel application and requirements, and security classification. (A sample of a device summary is depicted in Figure V-A-1.

Interim copies of summaries are published in the NAWCTSD P-1550 series Bulletins.)

(6) Section 1 of the directory is not used. Section 2, 0550-LP-200-2010 (Volume 1), 0550-LP-200-2020 (Volume 2), 0550-LP-200-2030 (Volume 3) and 0550-LP-200-2040 (Volume 4) describes training equipment developed for the Deputy Chief of Naval Operations for Air which requires issue approval by DCNO (N88). Section 3 is not used. Section 4, 0550-LP-200-4100 (Volume 1), 0550-LP-200-4150 (Volume 2), 0550-LP-200-4200 (Volume 3) and 0550-LP-200-4250 (Volume 4) describes training equipment and training aids developed for the Chief of Naval Education and Training (CNET) which require issue approval by Naval Agencies which are of interest to activities under the CNET and the Commander, Naval Air Reserve Force.

(7) Section 5, 0550-LP-200-5010 (Volume 1), and 0550-LP -200-5020 (Volume 2), describes training equipment developed which requires issue approval of the Commanding General, Marine Corps Combat Development Command (Code C 465). This section also includes training devices developed for other activities which are of interest to the Marine Corps.

(8) The Directory of Naval Training Devices is distributed to activities that are included on a permanent distribution list. A request to be placed on the list should be directed to NAWCTSD (Code 365). One-time requirements for the Index or any of the sections should be requisitioned through local supply channels from the Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120. The appropriate Cognizance "I" order number(s) should be used.

c. How to Request Existing Cog 2"O" Training Equipment.

Cog 2"O" operational training equipment, not currently in use, may be requested by an official letter via appropriate command channels. The approval authority for such requests is the Commanding Officer, Naval Air Warfare Center Training Systems Division (NAWCTSD). The request should be sent to the appropriate Program Director (PD) (See

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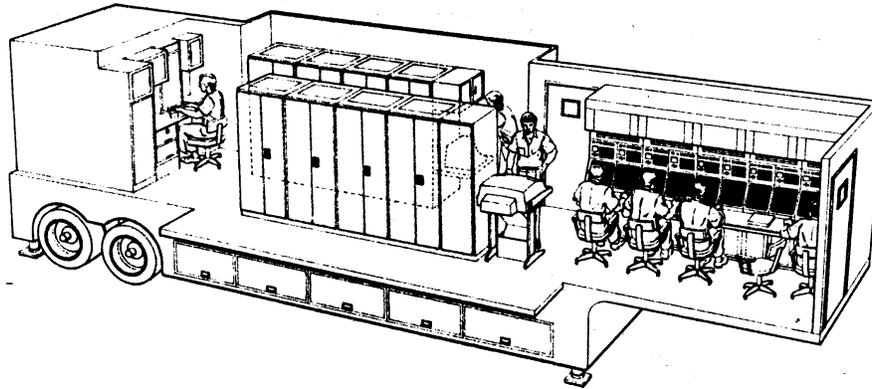
**SUMMARY OF PERRY CLASS (FFG-7) PIERSIDE
COMBAT SYSTEM TEAM TRAINER**

August 1983

Device 20B5

NAVAL TRAINING EQUIPMENT CENTER

ORLANDO, FLORIDA

**TRAINING CATEGORY:**

Surface Operations (Ship) (Procedural/
Team)

ORIGINATING AGENCY:

OPNAV

**SECURITY CLASSIFICATION OF
DEVICE:**

Device 20B5 hardware is unclassified;
however, portions of software are classified
SECRET - NOFORN.

PURPOSE OF DEVICE:

To provide coordinated tactical team
training for the Combat Information
Center (CIC) and sonar room personnel
aboard an FFG-7 class ship.

INTENDED USE:

To provide pierside training in tactical
combat operations for Combat Information
Center (CIC) and sonar control room
personnel aboard an FFG-7 class ship in
port.

FUNCTIONAL DESCRIPTION:

Device 20B5 is a mobile, van-mounted
pierside deployable training system. The
van houses a computer complex, five
problem control consoles, acoustic simu-
lation hardware, and a communication
system. Carry-on units are deployed ship-
board and receive the tactical data gener-
ated in the van via a fiber optic data link.
The digital fiber optic data link provides
digital communication between the van
and the ship at very high rates with no
EM/RF interference. The carry-on units
convert digital data to stimulate sensors
of operational shipboard systems. The
communication system allows the van
operator to control both internal and
external ship communications, perform
role playing, provide instruction, and
perform maintenance.

The ship sensors are stimulated by a
multitarget coordinated interactive air/
surface/subsurface tactical environment.
The tactical environment presented to the

Figure V-A-1. Sample of a Device Summary (page 1 of 2)

	COMS CONTRACTS WITH FULL SUPPLY SUPPORT	COMS CONTRACTS WITHOUT FULL SUPPLY SUPPORT
1. Trainer Maintenance		
a. Trainer Peculiar Equipment (Excluding Cog 8N light valves)	COMS contractor responsible for all levels of maintenance (i.e., "O" "I", and "D", "online, off-line). Contractor responsible for all repair/rework up to and including \$25,000 per item. (Government is responsible for costs in excess of \$25,000 per item. If cost exceeds the \$25,000 threshold, a detailed cost estimate must be submitted to the PCO via the COR for approval. Government approval of cost estimate is required prior to expenditure of funds.) Depot level overhaul (scheduled) is a government responsibility.	
b. Cog 8N light valves	COMS contractor requisitions in accordance with local Navy supply procedures.	COMS contractor requisitions in accordance with local Navy supply procedures.
c. Aircraft Common Equipment (Aviation COMS)	COMS contractor responsible for "O" level maintenance only. Contractor turns in/picks up items from AIMD.	COMS contractor responsible for "O" level maintenance only. Contractor turns in/picks up items from AIMD.
d. Embedded Operational Equipment/GFE (Sea/Land COMS)	COMS contractor responsible for "O" level maintenance only. Contractor requisitions replacement components from supply office at training activity via the COR.	COMS contractor responsible for "O" level maintenance only. Contractor requisitions replacement components from supply office at training activity via the COR.
2. Spare and Repair Part (Trainer Peculiar)		
	COMS contractor replenishes at the initial stock level. Contractor responsible for spare/repair parts up to and including \$25,000 per single item. (Government is responsible for costs in excess of \$25,000 per single item.) Additional spare/repair parts may be obtained at contractor expense.	COMS contractor requisitions spare/repair parts in accordance with local Navy supply procedures. (Government is responsible for all costs.)

Figure V-A-2. Sample of a Device Summary (page 2 of 2)

Appendix E.). All requests for Cog 2"0" training equipment are to be made by official letter. (For additional information, see Navy Supply Publication 437, Operating Procedures Manual Military Standard Requisitioning and Issue Procedures (MILSTRIP), and Military Standard Transaction Reporting and Accounting Procedures (MILSTRAP).)

(1) Navy Activities. Navy Activities requesting a training device should submit the request via their cognizant chain of command to the NAWCTSD. (It may save time to first contact NAWCTSD (Code 365) to see if the device is available.) The NAWCTSD will issue, to authorized Navy Activities, the training equipment listed in the Index to Directory of Naval Training Devices from on-hand stock, if available. If none is available, then the requiring organization should submit a request for a similar device. Such a request should reference the communications between the NAWCTSD and the requiring activity, during which it was determined that the equipment was unavailable from on hand stock.

(2) Marine Corps Activities. Marine Corps activities requesting Aviation or ground training systems or equipment should submit requests directly to the Commanding General, Marine Corps Combat Development Command (MCCDC), Attn: Code C 465, Quantico, VA 22134-5050. Marine Corps Order 5290.3 provides more detailed information.

(3) Naval Reserve Activities. Naval Reserve Officer Training Corps (NROTC) Units, Naval Junior Reserve Officer Training Corps (NJROTC) Units, and Marine Corps Junior Reserve Officer Training Corps (MCJROTC) Units. NROTC, NJROTC, and MCJROTC units are authorized to submit requests, in letter format via appropriate command channels and the Major Claimant, to NAWCTSD (Code 365) as shown in Figures V-A-2/3. {Note: MCJROTC units will submit their requirements via their appropriate Marine Corps District Director to Commanding General, Marine Corps Combat Development Command (Code C 465), Quantico, VA 22134-5050.}

(4) Other DOD Activities. Other DOD activities desiring to procure or obtain information

on Cog 2"0" training equipment from the Navy should submit letter requests as stated above, directed to the attention of the cognizant PD. (See Appendix E for additional information on contacting PDs).

d. Catalog Information.

Standard unit prices for non-national stock numbered Cog 2"0" items are included in the Index to Directory of Naval Training Devices.

2. MATERIAL SUPPORT FOR TRAINING SYSTEMS.

a. General.

A training system may be comprised of Commercial-Off-The-Shelf (COTS) equipment, Trainer Unique Equipment (TUE), or Operational equipment. Some trainers may have only COTS, some COTS and TUE, and others may have all types of these equipments. The NAWCTSD is responsible for providing COTS and TUE spare parts and special purpose tools and test equipment for initial material support.

b. Embedded Operational Equipment.

Material support for this equipment is supplied by the SYSCOM responsible for life-cycle support. When this equipment becomes unserviceable, it should be processed the same as Technical Training Equipment (TTE).

c. Trainer Unique Equipment (TUE) and Commercial-Off-The-Shelf (COTS) Equipment.

Initial material support for this equipment will be provided by the NAWCTSD. Unserviceable equipment will normally be repaired by the COMS contractor. Organically supported sites should contact the local NAWCTSD In-Service Engineering Office (ISEO) for support. COMS material support alternatives are given in Figure V-A-2.

d. Requisitioning of Replacement Parts.

If the device is supported under the COMS program, supply support varies depending on whether or not the COMS contract calls for full supply support or limited supply support under the terms of the contract. Figure V-A-2 provides a description of full and limited sup-

	COMS CONTRACTS WITH FULL SUPPLY SUPPORT	COMS CONTRACTS WITHOUT FULL SUPPLY SUPPORT
1. Trainer Maintenance		
a. Trainer Peculiar Equipment (Excluding Cog 8N light valves)	COMS contractor responsible for all levels of maintenance (i.e., "O" "I", and "D", "online, off-line). Contractor responsible for all repair/rework up to and including \$25,000 per item. (Government is responsible for costs in excess of \$25,000 per item. If cost exceeds the \$25,000 threshold, a detailed cost estimate must be submitted to the PCO via the COR for approval. Government approval of cost estimate is required prior to expenditure of funds.) Depot level overhaul (scheduled) is a government responsibility.	
b. Cog 8N light valves	COMS contractor requisitions in accordance with local Navy supply procedures.	COMS contractor requisitions in accordance with local Navy supply procedures.
c. Aircraft Common Equipment (Aviation COMS)	COMS contractor responsible for "O" level maintenance only. Contractor turns in/picks up items from AIMD.	COMS contractor responsible for "O" level maintenance only. Contractor turns in/picks up items from AIMD.
d. Embedded Operational Equipment/GFE (Sea/Land COMS)	COMS contractor responsible for "O" level maintenance only. Contractor requisitions replacement components from supply office at training activity via the COR.	COMS contractor responsible for "O" level maintenance only. Contractor requisitions replacement components from supply office at training activity via the COR.
2. Spare and Repair Part (Trainer Peculiar)		
	COMS contractor replenishes at the initial stock level. Contractor responsible for spare/repair parts up to and including \$25,000 per single item. (Government is responsible for costs in excess of \$25,000 per single item.) Additional spare/repair parts may be obtained at contractor expense.	COMS contractor requisitions spare/repair parts in accordance with local Navy supply procedures. (Government is responsible for all costs.)

Figure V-A-2. COMS Supply Support Alternatives

ply alternatives used in COMS contracts. As indicated in Figure V-A-2, Cog 8N material should be requisitioned through normal supply channels in accordance with current Navy Supply Procedures. For other supply maintenance actions, refer to the COMS contract and see which column shown in Figure V-A-2 would apply. (Refer to NAVSUP 437, MILSTRIP/MILSTRAP, for information on supply procedures.)

3. SUPPORT AND TEST EQUIPMENT (S&TE)

a. S&TE for New Training Devices.

The contractor develops S&TE listings for new training systems in accordance with contractual requirements. The selection of S&TE required from the contractor's recommended list is made by the NAWCTSD using inputs from the reporting custodian. After this, procurement action is initiated.

b. S&TE Accountability.

All support and test equipment should be included in the Training Device Custody and Inventory Record (NAVTRADEV P-3229) to provide complete accountability of these items at all times. Compliance with plant property procedures is essential. The support and test equipment accountability chain for training systems is as follows:

Training reporting custodian;

Station or base plant property officer;

Training equipment controlling custodian, NAWCTSD (Code 365).

c. Calibration Program for S&TE.

Calibration of S&TE is mandatory and will be performed in accordance with established calibration intervals. S&TE which is not used for quantitative measurement will be specifically labeled with a Navy METCAL program label which reads: "CALIBRATION NOT REQUIRED" and the authorization entry will be completed on the decal. Calibration intervals for training systems test measurement and diagnostic equipment will be in accordance with intervals established in the Metrology Requirements (METRL) NAVAIR-17-35 MTL-1, NAVELEX-0969-8LP-133-82010, NAVSEADC-4585. {Note: For most of the Aviation training systems and some of the

Sea Warfare training devices supported under the COMS program, the COMS contractor has authority to repair and calibrate the trainer support and test equipment. The COMS contract should be reviewed to see if the trainer of interest is covered for this type of action.}

(1) Calibration labels on training systems S&TE should be periodically inspected in accordance with applicable Metrology instructions to ensure that calibration is current.

d. Disposition of Obsolete and Excess Support and Test Equipment.

Requests for disposition of obsolete or excess support and test equipment should be submitted in writing by the training reporting custodian. The request should be submitted to the NAWCTSD (Code 365) via the controlling custodian with a copy to the cognizant NAWCTSD PD. The request should include the following data for each item listed:

- (1) Complete nomenclature;
- (2) Whether obsolete or excess;
- (3) National stock number and local symbol;
- (4) Manufacturer;
- (5) Manufacturer's part or model number;
- (6) Condition code (refer to Figure V-A-3);
- (7) Demilitarization code, if applicable.

The reported equipment should be retained by the reporting custodian until disposition instructions are received from the NAWCTSD. NAWCTSD (Code 365) will coordinate possible reutilization with technical personnel in material management branches prior to issuing disposition instructions. After disposition, the training system inventory records should be adjusted accordingly, and the cognizant station or base plant property officer must be advised of changes.

4. CUSTODIAN ACCOUNTING AND PLANT PROPERTY REPORTING.

a. General.

This subsection deals with acquisition, transfers, excesses, and disposals of Cog 2"0"

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Equipment and related Plant Property Reporting Procedures.

(1) As the Cog 2"0" Inventory Manager, the NAWCTSD is responsible for maintaining a central, worldwide inventory record of Cog 2"0" property. (See Navy Comptroller Manual, Naval Supply Office P-100, Volume 3, Appropriation Cost and Property Accounting, Chapters 6 and 11, undated.) The maintenance of this inventory record is achieved through the plant property accounting system (NAVTRASYS SCENINST 7321.2K, Plant Property Accounting and Reporting for Cognizance Symbol 2"0" Training Equipment, 6 Jun 89). Included among the NAWCTSD's responsibilities is the responsibility to maintain the technical operational phase support baseline for device life cycle support and configuration management.

(2) Device custody and inventory records are important data elements of the technical and operational phase support baseline. Inaccurate baseline can result in inadequate device support and increased device life-cycle costs. Also, inaccurate identification of embedded Technical Training Equipment (TTE) units result in this equipment being deemed not eligible for normal TTE maintenance support by the TTE cognizant SYSCOM. Maintenance of the Cog 2"0" equipment baseline is a shared responsibility between the NAWCTSD and the device custodians. Individual training device inventory records must be complete and properly maintained to ensure that they are readily available with the trainer while it is at a training activity and when custody is transferred from one custodian to another.

b. Acquisitions.

A copy of the completed DD Form 1342, Plant Property Record, will be expeditiously submitted to NAWCTSD (Code 365) immediately following delivery of a Cog 2"0" major plant property item. (See Navy Comptroller Manual, Naval Supply Office P-100, Volume 3, Appropriation Cost and Property Accounting, Chapters 6 and 11, undated.)

The identification number (Block 3 of DD Form 1342) is permanently established by the initial accountable activity and must be perpetuated on all plant property records pre-

pared incidental to interactivity transfers and other dispositions.

c. Standard Unit Pricing.

(1) Standard unit pricing for Cog 2"0" training equipment includes total acquisition costs, i.e., documentation, special equipment procured with the system, and Government Furnished Material (GFM). (See NAVTRASYS SCENINST 7321.2K, Plant Property Accounting and Reporting for Cognizance Symbol 2"0" Training Equipment, 6 Jun 89). Contract costs for documentation and software are prorated to the number of end items procured under the contract.

(2) All procurements of Cog 2"0" training equipment will be cleared through the Appropriations Procurement Account (APA) stores account (Financial Inventory Report) by the reporting custodian's plant property offices. The receipt into stores will be at the purchase price and, when required, adjusted to the standard unit price as a gain or loss in accordance with Naval Supply Systems Command (NAVSUPSYSCOM) procedures within the stores account. The issue from stores will be at the standard unit price. The entry/receipt into the plant account records, and its recording on Item 6 of the DD Form 1342, will be at the standard unit price as it was expended from the APA stores account.

(3) Modification kits fabricated by the NAWCTSD will be delivered to the reporting custodian, via a local NAWCTSD In-Service Engineer (ISE), if one is available. The custody of the kit will be transferred from the NAWCTSD to the custodian by means of a DD 1149, Requisition and Invoice/Shipping Document. The DD 1149 will describe the kit by a Training Equipment Change Directive (TECD) number. The TECD will provide all the necessary information related to installation of the kit, and authorize the custodian to install it. The dollar value of the kit will be identified on the DD 1149. The custodian or representative receiving the kit should acknowledge receipt by signing the DD 1149 and giving a signed copy of the DD 1149 to the ISE delivering the kit. If the kit was mailed to the custodian, the custodian representative should mail a signed copy to the kit sender. The DD 1149 is stamped

SUPPLY CONDITION CODES		
<u>CODE</u>	<u>TITLE</u>	<u>DEFINITION</u>
A	SERVICEABLE (ISSUABLE WITHOUT QUALIFICATION)	New, used, repaired, or reconditioned materiel which is serviceable and issuable to all customers without limitation or restriction. Includes materiel with more than 6 months shelf life remaining.
B	SERVICEABLE (ISSUABLE WITH QUALIFICATION)	New, used, repaired, or reconditioned materiel which is serviceable and issuable for its intended purpose but which is restricted from issue to specific units, activities, or geographical areas by reason of its limited usefulness or short service life expectancy. Includes material with 3 through 6 months shelf life remaining.
C	SERVICEABLE (PRIORITY ISSUE)	Items which are serviceable and issuable to selected customers but which must be issued before Condition A and B materiel to avoid loss as a usable asset; includes materiel with less than 3 months shelf life remaining.
D	SERVICEABLE (TEST/MODIFICATION)	Serviceable materiel which requires test, alteration, modification, conversion or disassembly. This does not include items which must be inspected or tested immediately prior to issue.
E	UNSERVICEABLE (LIMITED RESTORATION)	Materiel which involves only limited expense or effort to restore to serviceable condition, and which is accomplished in the storage activity where the stock is located.
F	UNSERVICEABLE (REPARABLE)	Economically reparable materiel which requires repair, overhaul, or reconditioning; includes reparable items which are radioactively contaminated.
H	UNSERVICEABLE (INCOMPLETE)	Materiel requiring additional parts or components to complete the end item prior to Issue.
G	UNSERVICEABLE (CONDEMNED)	Materiel which has been determined to be unserviceable and does not meet repair criteria; includes condemned items which are radioactively contaminated.
S	UNSERVICEABLE (SCRAP)	Materiel that has no value except for its basic materiel content. No stock will be recorded as on hand in Condition Code S. This code is used only on transactions involving shipments to defense property disposal offices (DPDOs). Materiel will not be transferred to Condition Code S prior to turn in to DPDOs if materiel is recorded in Condition Code A through H at the time materiel is determined excess. Materiel identified by national stock number (NSN) will not be identified by this Condition Code.

Figure V-A-3. Supply Condition Codes with Definitions

with guidance for reflecting the price change to be processed through the APA stores account and expended to the applicable plant property account. The receiving activity will provide NAWCTSD (Code 365) with a copy of the amended DD Form 1342. A part of the TECD documentation package of the kit is a Modification Change Completion Card (NAVTRASYSCEM Form 4720/4). This should be filled out when the kit is installed and also sent to NAWCTSD (Code 365) who will enter the change completion base and change the unit cost of the device.

(4) The cost of modification of an item, other than repair costs (replacement of parts by like parts), will increase or decrease the cost of the applicable training device. As a result of this, the modification must be cleared as a price adjustment in financial stores by submitting an amended plant account record and providing NAWCTSD's Code 365 with a copy of the amended DD Form 1342. It is recommended that Section II, the Engineering Change Record of the Training Device Log, NAVTRADEV P-3229, be maintained and annotated to reflect each TECD installation. Section VI-B of this guide discusses the P-3229 in more detail. If the modification adds/deletes material which should be listed in Section I of NAVTRADEV P-3229, the device OIC or device custodian's designated device manager should ensure that Section I is properly updated to reflect the changes.

d. Gains by Inventory.

Physical inventories of Cog 2"0" training equipment should be made annually by device custodians. Results will be compared with plant property records of the accountable activity. Cog 2"0" equipment meeting the major plant property criteria found to be on hand and not in the activity Plant Property Account will be reported in the Plant Property System and a copy of the DD Form 1342 will be forwarded to NAWCTSD (Code 365).

e. Interactivity Transfer.

When Cog 2"0" training equipment is transferred from one activity to another, appropriate portions of the previously retained DD Form 1342 will be completed and a copy of the form will be forwarded to NAWCTSD

(Code 365). The receiving activity will acknowledge receipt of the item by preparation and submission of a new DD Form 1342. A copy of the new DD Form 1342 should be provided to NAWCTSD (Code 365). The original Plant Property Record identification number will be perpetuated on the new form. Prior to transfer of the training equipment, an inventory should be conducted by the responsible custodian activity to verify the availability of all material required to be transferred with the system utilizing the Cog 2"0" equipment Inventory Records. "Cannibalization" actions must be approved in advance by the NAWCTSD, and will be discouraged except in cases of extreme necessity. In such cases, the items removed must be immediately requisitioned. Information on open requisitions for replacement parts will be passed to the gaining activity if the system is transferred.

f. Dispositions.

Approvals for disposition of Cog 2"0" training equipment meeting the criteria of plant property will be requested, via the activity's chain of command and the cognizant major claimant, to NAWCTSD (Code 365). Upon completion of the disposition action, a copy of the previously retained DD Form 1342 property record annotated with the disposition action will be forwarded to NAWCTSD (Code 365).

g. Obsolete Training Devices.

Obsolete Cog 2"0" equipment may NOT be disposed of prior to receipt of written authorization from NAWCTSD (Code 365). (See NAVTRASYSCEM INST 7321.2K, Plant Property Accounting and Reporting for Cognizance Symbol 2"0" Training Equipment, 6 Jun 89.) When the obsolete material has been turned over to the Defense Reutilization and Marketing Service, a copy of the previously retained DD Form 1342, with Blocks 54 through 57 completed, will be forwarded to NAWCTSD (Code 365). Plant Property accounting responsibility and reporting continue until the material is physically disposed of at the Defense Reutilization and Marketing Service.

h. Demilitarization.

Activities disposing of Cog 2"0" training equipment must provide the Defense Reutilization and Marketing Service with the Appli-

cable Demilitarization (DEMIL) Code published in the Index to Directory of Naval Training Devices. For those device custodians that do not have access to this directory, NAWCTSD (Code 365) can be contacted for assistance in obtaining the desired information. These DEMIL codes identify the method and degree of DEMIL, when required or not required, and when requirements must be furnished by NAWCTSD (Code 365). DEMIL Code F requires special DEMIL instructions from NAWCTSD (Code 365). The DEMIL Code assigned to Cog 2"0" training equipment is used in accordance with the Defense Demilitarization Manual (DOD 4160.21-M-1, 1 Oct 81; NAVSUP 437, MILSTRIP/MILSTRAP) Under no conditions are disposal shipments sent directly to NAWCTSD.

i. Survey of Lost Cog 2"0" Training Equipment.

Cog 2"0" training equipment which cannot be located because of loss, destruction, or for other reasons will be surveyed. (See Navy Comptroller Manual, Navy Supply Office, Volume 2, paragraphs 25156 and 25158, undated). When survey action has been approved, a copy of the previously retained DD Form 1342, with Blocks 37 through 41 completed, as appropriate, will be forwarded to NAWCTSD (Code 365).

j. Annual Reconciliation of Cog 2"0" Equipment Plant Account Records.

Annually, the NAWCTSD will provide device custodians with a listing of Cog 2"0" equipment recorded as being in their custody. Reporting validates the data shown on the listing concerning location, serial number, plant property identification number, and condition to ensure currency of inventory accounting records. (In those cases where the reporting custodian and the fiscal office are in separate organizational elements, the reporting custodian should ensure that a copy of appropriate plant property account communication documents is sent to the fiscal officer.)

k. Classified Disposals.

Classified Cog 2"0" training equipment authorized for disposal will be processed in accordance with Navy policy and procedures. Under no conditions are disposal shipments to be sent directly to NAWCTSD.

l. How Fleet and Training Commands are Controlling Custodians Account for Cog 2"0" Mobile Training Equipment.

For the purpose of this guide, a mobile training device is defined as one which is mounted on wheeled vehicle(s) and trailer(s). They are also capable of being moved from one location to another without disassembly. Fleet and training commands may move mobile devices within their respective commands to meet the needs of training programs. Movements necessitating custodial transfer of a training device's plant property record to another activity should be reported to NAWCTSD (Code 365) by NAVGRAM with a copy of the revised Plant Property Record specifying the activity holding the system and the activity designated to maintain the plant property account. Shipment orders initiated by NAWCTSD to direct relocation of mobile systems will indicate the activity responsible to perform plant property accounting for the system.

m. Instructions for Other than Mobile Training Devices.

Fleet and Training Commands that are device controlling custodians exercise movement control of training devices identified as Cog 2"0" equipment within their respective command areas. Requests for transfer should be forwarded to the local Supply Officer utilizing the appropriate Transportation Account Code (TAC) (see DOD 4500.32-R, Military Standard Transportation and Movement Procedures (MILSTAMP), Volume 2, Chapter 7, 1 Mar 87). Copies of documents pertaining to such relocations or transfer of Cog 2"0" training equipment should be forwarded to NAWCTSD (Code 365) for updating of system accountability records and to facilitate system support. In addition, plant property reporting requirements apply as previously stated.

n. How Marine Corps Activities Account for Cog 2"0" Training Equipment.

The appropriate Marine Corps Training Audiovisual Support Center (TAVSC) has cognizance over all training systems supporting Marine Corps aviation and ground activities. Commanding General, Marine Corps Combat Development Command, in conso-

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nance with DCNO (N88), will issue specific allocation instructions detailing the station or activity that will be responsible for the aviation training devices. Ground training devices are approved for transfer or disposal via the appropriate chain of command and Commanding General, Marine Corps Combat Development Command (Code C 465). Correspondence requesting movement of Cog 2"0" training equipment should be directed to NAWCTSD (Code 365) via the proper chain of command and major claimant (CMC/DCNO (N88) for Aviation; MCCDC for ground).

o. Procedures to Report all Cog 2"0" Training Equipment No Longer Required by the Custodian Activity.

(1) All reporting custodian activities are requested to expeditiously report to NAWCTSD (Code 365) via the appropriate chain of command and major claimant, (for screening and disposition instructions) all Cog 2"0" training equipment no longer required to fulfill their mission. The cognizant NAWCTSD ISEO and International Programs Office area should be provided with information copies of the report. This exchange of information is intended to widen the scope for screening and reutilization of system components.

(2) Letter reports should include the following information for each training device: device designator, stock number, and serial number.

(3) Indicate the "condition code" that is applicable to the system, based upon a thorough inspection of the actual physical condition of the system. (See Navy Comptroller Manual, Naval Supply Office, P-100, Volume 3, Chapter 6, paragraph 036206, undated e.g., A-1, E-7, or B-2.) Condition codes and expanded definitions are outlined in Figure V-A-3. Custodians needing assistance in determining condition codes can contact the local ISEO.

(4) For Automatic Data Processing Equipment (ADPE), provide description, mode, serial number, condition code, dimensions, weight, LSN/NSN, and acquisition costs. Costs may be estimated if the original acquisition data is not available. Also, a point

of contact including DSN and commercial telephone numbers should be included in the letter.

(5) Indicate all missing items on the "Items Deficiency List" attached to the Letter Report. The itemized deficiency list must indicate all missing components, accessory items (including maintenance tool kit items), modification kits, and system handbooks. Due to the technical characteristics and limited availability of major categories of training systems, the itemized deficiency list is of paramount importance. It enables training commands to determine item usability and the NAWCTSD to determine adequacy to fill immediate requirements and/or reparability factors. {Note: Deficiency list for excess classified training material are required regardless of acquisition cost.}

(6) Special factors and other basic information not covered above, which in the judgment of a reporting activity are considered to be of sufficient value and importance, should be included to assist the NAWCTSD in determining suitability for immediate or future requirements and economic reparability.

SECTION V-B

SIMULATOR OPERATION AND MAINTENANCE (SOM) AND OTHER PROGRAM FUNDING

1. GENERAL.

a. Planning, Programming, and Budgeting System (PPBS).

The funds approved for NAWCTSD's use during each fiscal year are the end result of a long and involved sequence of events. The process by which resource requirements are determined, documented, and costed in the DOD is called the Planning, Programming, and Budgeting System (PPBS). Within the PPBS, requirements for manpower, money, and materials used to carry out various programs are incorporated into a Six-Year Defense Program (SYDP). Planning, programming, and budgeting for all years included in one SYDP occur simultaneously.

(1) A principal first step in the PPBS process occurs when Military Departments and Defense Agencies submit their Program Objective Memorandums (POMs) to the Secretary of Defense (SECDEF). The Department of the Navy (DON) POM is the Secretary of the Navy's annual recommendation to SECDEF for the detailed application of DON resources for six fiscal years. The POM is developed within the constraints of the SECDEF's Consolidated Guidance (CG) to satisfy all assigned functions and responsibilities. The POM is the instrument through which programming under fiscal constraints is implemented. It is the primary means of requesting revisions to SECDEF approved programs.

(2) The POM Year is a planning and programming year for which submittals are initially developed by the activity specifying desired funds for new program development, program modification, facilities, equipment, manpower, etc. The POM document is prepared every fiscal year and forecasts the projected needs of the activity for a six year period. Following the current fiscal year (or "execution" year), is the apportionment year, the year for which the budget estimate is prepared.

b. Funding Categories.

The major categories of funds are investment and expense. The exact amount of funds appropriated by Congress becomes fixed and only Congress can change them.

(1) Investment Funds. These funds are used to build or purchase inventory items or modifications which expand the capabilities of existing inventory items. Typical of these are Other Procurement, Navy (OPN) funds. OPN is a multiple year appropriation of the DON. These funds are available for incurring obligations for a definite period in excess of one fiscal year. The Navy and the Marine Corps will receive these multiple year appropriations for Procurement and for Research, Development, Test and Evaluation (RDT&E). OPN money is specified for large or capital purchases exceeding \$15,000. Major modifications to Cog 2"0" training devices, which are generally modifications that change device capability, are funded with Investment Funds received by NAWCTSD from the cognizant SYSCOMs. The NAWCTSD's estimates for procurement, development, or implementation of such modifications are submitted in accordance with DON PPBS guidelines. (For further information on modification program funding, see Section IV-B.)

(2) Examples of other investment funds are:

(a) Ship Building and Conversion Navy (SCN);

(b) Aircraft Procurement, Navy (APN) funds;

(c) Weapons Procurement, Navy (WPN) funds;

(d) Other Procurement, Navy (OPN) funds;

(e) Research, Development, Test and Evaluation (RDT&E) funds, which are used for procurement of various items

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from research/technical base to first article devices.

(f) MILCON

(3) Expense Funds. Expense Funds are used to carry out day-to-day operation of the Navy. Priority is given to the operational forces. Overall, these are the most complex of the two major types of funds. Expense Funds are allotted by Congress for one year periods only. Examples are:

(a) Operation and Maintenance, Navy (O&M, N). These Funds are for many budget activities which include: civilian salaries, operating budget activities, overhead costs, and sustaining maintenance support costs. This category includes funding for training programs and Cog 2"0" support through NAVAIRSYSCOM.

(b) Military Personnel, Navy (MPN). Specifically, pay for duty of naval personnel.

c. Funding Responsibility.

The Navy Comptroller Manual, Volume 7, contains the following provisions with respect to funding responsibility for in-service training devices:

(1) "It is now Department-wide basic budget and funding policy in the Operation and Maintenance areas that the financial responsibilities parallel responsibilities for the command." (Paragraph 075002)

(2) Paragraph 075365 assigns interim support modification modernization and related spares, test equipment, removal and reinstallation training, and publications technical manual update to the Training Support Agency (TSA) having financial responsibility for providing an initial usable item of training equipment.

(3) Paragraph 075365 assigns the following to the Training Agency having custody of the training devices:

(a) Provision of "O" and "I" level maintenance including NSF and MCSF parts and material;

(b) Removal and reinstallation incident to facility modifications or site relocations;

(c) Follow-on training for "O" and "I" level maintenance;

(d) Provision of publications, technical manuals, and maintenance other than modification-related updates; and

(e) Provision of equipment, supplies, and material used in day-to-day operations except specialized CNET-funded items not within the cognizance of SYSCOMs.

(4) Depot level maintenance is assigned to cognizant inventory managers.

2. THE SIMULATOR OPERATION AND MAINTENANCE (SOM) PROGRAM.

a. SOM Categories and NAWCTSD Roles.

(1) The term SOM Program applies to the aggregate of actions, processes, and plans to acquire and apply those types of funds required by the NAWCTSD to enable it to fulfill its Inventory Manager responsibilities in support of device custodians, in all levels of maintenance and logistics support activities (see NAVTRASYSCENINST 7042.1A, Policies and Procedures for the Simulator and Maintenance (SOM) Program, 22 Jan 87). The SOM program applies support to the following six categories:

Funding support for O&I Maintenance repair parts, material, and services;

Logistics Support Modifications;

Depot Level Maintenance/Overhaul (DLMO);

Reinstallation or Miscellaneous Support;

Publications Update and Retraining;

Funding of Depot Level Repair (DLR) for Repair of Repairables which do not have a National Stock Number.

Figure V-B-1 describes what is included and excluded as fundable expenses under the SOM program.

(2) NAWCTSD is responsible for managing, planning, directing, and controlling the SOM program. This responsibility encompasses formulating the SOM budgets, SOM submissions and apportionment plans, and administering the allocation of funds. The training system custodian's SOM responsibilities are to: identify their SOM fundable requirements to the local NAWCTSD ISEO as early as is practicable; utilize O&I level maintenance; and maintain appropriate funding records of expenditures. Resources to support this program are budgeted for, and executed on a fiscal year basis and go through a budgetary sequence based on a timeframe to coincide with budget submission requirements. Because of this, it is necessary for all activities involved in the SOM program to provide their inputs describing requirements in the timeframes and the sequence requested by the NAWCTSD.

b. NAWCTSD SOM Responsibilities.

At NAWCTSD, SOM program management responsibility resides within each Program Directorate for all trainers/training systems under that Directorate's cognizance. NAWCTSD Program Directors (PDs) are responsible for managing, planning, directing, and controlling their SOM programs. This responsibility encompasses formulating SOM budgets, preparing SOM submissions and apportionment plans, and administering the allocation of funds. PDs are the principal interface with the Washington arena and CNET sponsors for the PPBS support of Cog 2"0" training systems under their cognizance. The ISEOs are the principal interface with training system custodians and are responsible to develop, validate, and recommend to the PDs priorities for resource requirement for O&I maintenance, reinstallation and miscellaneous support, the logistics modification program, DLMO, publication update, retraining, and DLR categories.

c. SOM submittals.

(1) During each fiscal year, the NAWCTSD Business and Financial Managers (BFMs) in each Program Directorate submit SOM POM budget submittals. Each Program Directorate solicits, compiles, reviews, and integrates the various SOM program elements for all trainers/training systems under their cognizance.

(2) The annual NAWCTSD SOM submittals form part of the overall SOM budget submitted by the command sponsors to support the total Cog 2"0" in-service training system inventory.

Except as excluded in the next paragraph, Navy and Marine Corps activities having custodial and maintenance responsibility for Cog 2"0" training systems will forward annual SOM requests for funds via appropriate command channels to the NAWCTSD Program Director (PD). (Emergency requests can be handled by naval message.)

d. SOM Intermediate Funds for CNET and Marine Corps Land Warfare Trainers.

The Chief of Naval Education and Training (CNET) has financial responsibility for the funding of O&I maintenance repair parts for Cog 2"0" training systems in the custody of the Naval Education and Training Command (NAVEDTRACOM). The Commanding General, Marine Corps Combat Development Command (CG, MCCDC, C 465), has financial responsibility for intermediate level maintenance repair parts for Cog 2"0" Land Warfare training systems/devices in custody of subordinate commands. SOM requirements determination, POM submittal, and allocation or coordination of funding for Cog 2"0" O&I maintenance repair parts for all other activities is the financial responsibility of the NAWCTSD. However, even for CNET and Marine Corps Ground Warfare Trainers, the NAWCTSD has continuing financial responsibility for requirements determination, POM submittal, and expenditure of funds for all logistics support modifications (both hardware and software), reinstallation and miscellaneous support, DLMO, publications update or retraining, and DLR in support of Cog 2"0" training systems (see CNETINST 4000.3, Support Agreements, 6 Jun 88).

SECTION V-C

1. NAWCTSD SUPPORT PROGRAM.

a. The goals for this program begin with the Acquisition Plan (AP), when the Project Engineer (PE), working with the Logistics Competency representative, strives to minimize the need for repairs by applying Reliability Centered Maintenance (RCM) in the design. A trainer maintenance support concept is developed by the Integrated Logistics Support Managers Team (ILSMT) which, combined with the RCM built-in device qualities, is another major step toward the goals of the Logistics Support Program. The trainer Maintenance Plan (MP), delivered with the trainer, describes the final maintenance concept.

b. Once the trainer is in service, the goals are to provide for the orderly inspection and review of the Cog 2"0" inventory to determine the need

for overhaul of specific trainers; provide for the planning, programming, and budgeting of funds to support those overhauls; and once funds are received, execute optimum coordination and completion of those overhauls. The ISEO, with the assistance of the maintenance and supportability engineer, will revise the MP to reflect needed changes in the DLMO, resource requirements projections, and support procedures and facilities to be utilized. Sometimes it is better to modify a trainer rather than perform DLMO on it. The NAWCTSD will review this option, using applicable modification versus DLMO criteria, to ensure that it makes a choice that will best satisfy trainer Operational Availability (OA) and service life requirements of the cognizant training agencies. DLMO is normally done via commercial contract.

LOGISTICS SUPPORT PROGRAM

SECTION V-D

1. SITE PREPARATION AND INSTALLATION SUPPORT.

Coordination of space arrangements for the installation of new training systems and the reinstallation of already in-service Cog 2"0" training systems is the responsibility of the device controlling and reporting custodian. Activities which will be receiving an allocated training system should determine, and provide in appropriate communications as soon as possible: the space, water, air conditioning and power requirements of the training system. Receiving activities are also responsible for making necessary arrangements for satisfactory facilities for the training system. Space and power requirements for existing devices are usually stated in Training System Functional Descriptions (TSFD), the Equipment Facility Requirements (EFR) Plan, and the training system description in the Directory of Naval Training Devices. Assistance in obtaining these is available from the appropriate NAWCTSD In-Service Engineering Office (ISEO). If power and space requirements at a Navy or Marine Corps activity are unusual, or believed to exceed that which is available at the installation site, the local ISEO may be contacted for assistance and advice.

2. MAINTENANCE AND OPERATOR TRAINING.

a. Newly Procured Training Systems.

On newly procured complex training systems, the NAWCTSD arranges to provide maintenance and operator training for officer, enlisted, and civil service personnel. The training may be conducted at the site of training systems installation or at the factory by contractor personnel.

b. Training System Relocations.

When the training system is reestablished at another Navy or Marine Corps activity, the needs of the receiving activity for training system operation and maintenance personnel should be made known as early as possible, via the appropriate chain of command, to the

cognizant Training Agency (TA) and Training Support Agency(s) (TSA). NAWCTSD assistance can be obtained by contacting the cognizant NAWCTSD ISEO.

c. Replacement Personnel Training.

If the trainer is not supported under the COMS program, and cognizant Navy and Marine Corps training personnel determine that replacement training for specific trainer support situations is beyond their capabilities, they may request advice or guidance from their nearest ISEO.

3. ENGINEERING AND TECHNICAL SERVICES (ETS)

When Cog 2"0" support problems are encountered that cannot be resolved by COMS or other trainer O&I level maintenance resources and personnel or through Depot Level Maintenance and Overhaul (DLMO) assistance, the needed support can be requested by contacting the local ISEO. (See NAVTRASYS-CEN-INST 4350.5A, Naval Training Systems Center In-Service Engineers (ISEs), 9 Jun 86.) These services are provided at no cost to the device custodian. The ETS support is usually performed by NAWCTSD In-Service Engineers (ISEs), and occasionally by contractor personnel.

4. UNMODIFIED OPERATIONAL EQUIPMENT USED IN COG 2"0" TRAINING EQUIPMENT.

Several Navy instructions delineate procedures and information for support of unmodified operational equipment required to induct surface or Undersea embedded Technical Training Equipment (TTE) into the intermediate level repair activity. (See OPNAVINST 4790.2E, The Naval Aviation Maintenance Program (NAMP), Volumes I through V, 21 Dec 88 and OPNAVINST 4790.4B, Issue of Ship's Maintenance and Material Management (3-M) Manual, 13 Aug 87.)

PRELIMINARY TECHNICAL MANUAL COMMENT SHEET				
1. DEVICE NO.	2. TYPE OF TECHNICAL MANUAL	3. CLASSIFICATION	11. DISTRIBUTION	
			ADDRESSEE	QTY
4. DEVICE TITLE		4a. PUBLICATION NO.		
5. CONTRACTOR		6. CONTRACT NO.		
		7. ITEM NO.	8. DUE DATE	
		9. DATE OF MANUAL		
10. PUBLICATION SPECIFICATION(S)				
TOTAL				
<p><small>THIS MANUSCRIPT HAS BEEN PREPARED FOR GOVERNMENT REVIEW AND FOR INTERIM USE FOR DEVICE OPERATION AND MAINTENANCE PENDING PREPARATION AND DISTRIBUTION OF THE FINAL MANUAL. RECIPIENTS ARE REQUESTED TO REVIEW THE MANUSCRIPT FOR USABILITY, TECHNICAL CONTENT, AND ACCURACY. VERIFICATION OF TEXT AND DRAWINGS AGAINST THE DEVICE HARDWARE DURING ACTUAL OPERATION AND MAINTENANCE IS DESIRED WHEN APPROPRIATE. ALL COMMENTS SHOULD BE SPECIFIC (E.G., PAGE NO., PARA. NO., ETC.) AND SHOULD BE RECEIVED NO LATER THAN THE DATE IN BLOCK 8 ABOVE TO BE CONSIDERED FOR INCORPORATION IN THE FINAL MANUAL. COMMENTS SHOULD BE FORWARDED TO COMMANDING OFFICER, NAVAL TRAINING SYSTEMS CENTER (N-423), ORLANDO, FLORIDA 32813. LIST COMMENTS ON THIS FORM. IF ADDITIONAL SPACE IS REQUIRED, ATTACH SEPARATE SHEETS OR FORWARD COPY OF ANNOTATED PAGES OF THE MANUAL.</small></p> <p>REVIEW COMMENTS:</p> <p>MANUAL IS: <input type="checkbox"/> EXCELLENT <input type="checkbox"/> GOOD <input type="checkbox"/> FAIR <input type="checkbox"/> POOR <input type="checkbox"/> COMPLETE <input type="checkbox"/> INCOMPLETE</p> <p>RELATED REMARKS/COMMENTS:</p>				
SIGNATURE OF RECEIVER		ORGANIZATION		DATE

NTSC 5600/5 (Rev. 01-87)

Figure V-D-1. Preliminary Technical Manual Comment Sheet
(NAVTRASYSNEN 5600/5)

USER ACTIVITY TECHNICAL MANUAL COMMENT SHEET

NAME OF SENDER (Typed) _____ DEVICE NO. _____
TITLE/POSITION _____ NAVSO/NAVTRADEV P- _____
NAME OF ACTIVITY _____ DATE OF PUBLICATION _____
ADDRESS _____ ZIP _____

(Fold on dotted lines on REVERSE side, staple, and mail to NAVTRASUPCEN)

PROBLEM AREA/RECOMMENDED CHANGES OR CORRECTIONS.

SIGNATURE

DATE

(Copies of this form may be reproduced locally or obtained from the appropriate CNET3 field activity.
Previous editions may be used until existing stock is exhausted.)

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MATERIAL SYSTEM MISCELLANEOUS SUPPORT REQUIREMENTS

a. Funding.

Funding for repair of embedded TTE should be in accordance with criteria promulgated in the respective training system controlling custodian instruction.

b. Organizational Maintenance.

Organizational level maintenance of embedded TTE in Cog 2"0" training equipment is performed by the training systems maintenance crews.

c. Intermediate Maintenance.

Intermediate level maintenance of embedded TTE is accomplished by processing the equipment through the local supply activity for induction into the designed Intermediate Maintenance Activity (IMA). When available, supply will issue an exchange item and then induct the turned in operational equipment into the IMA. After the intermediate services and repairs are accomplished, the training equipment will be returned to supply for stock or forwarding to the training activity as applicable. Proper maintenance action forms, work requests, or supply documents are required to accomplish these transactions.

d. Depot Maintenance.

Depot level maintenance of embedded TTE is provided by the cognizant SYSCOM's designated rework point. The IMA should be able to provide guidance related to depot level repair. For Surface or Undersea TTE, the Naval Sea Center Logistics Detachment (NAVSEALOG-DET), Philadelphia, PA, can provide assistance with depot level repair.

e. Support Information.

Repair parts support information concerning organizational, intermediate, and depot level repair of embedded TTE can be obtained from the NAVSEALOGDET, for surface or Undersea TTE, or from the NAVAIRSYSCOM Cognizant Field Activity (CFA) for aviation. (See NAVAIRSYSCOMINST 5451.87B, Technical Support Assignments to Naval Air Systems Command (NAVAIRSYSCOM) Field Activities and Space and Naval Warfare Systems Command (SPAWAR) Research and Development (R&D) Centers, 6 Jun 89.)

f. Calibration.

Selective calibration of embedded TTE will be accomplished by the designated calibration activities, Naval Aviation Depots, and IMAs. The local IMA should be able to identify which of these should be used.

5. AIR CONDITIONING SYSTEMS.

a. General.

Air conditioning systems for Cog 2"0" training systems are either an integral part of the trainer, or are provided as facility (station) air conditioning systems (e.g., cockpit air conditioner as an integral part of the training equipment, and facility air conditioning for personnel comfort, training equipment cooling, and humidity control). Each of the above two types of air conditioning systems are maintained and funded differently as explained below.

b. Integral Air Conditioning.

The integral air conditioning units are specifically included in the Training Device Log, NAVTRADEV P-3229, Section 1, Custody and Inventory Record. Organizational level maintenance delineated in the Operational Maintenance manual, and Planned Maintenance System (PMS) documentation, when applicable, must be performed by the training equipment maintenance crews. Except for those units covered by COMS, major malfunctions in the basic refrigeration cycle or associated controls may require the attention of a qualified refrigeration technician, due to the need for special knowledge or special equipment. In such cases, service assistance may be obtained from the Station Public Works Department using their funds, or may be requested through the appropriate ISEO.

c. Facility Air Conditioning.

The facility air conditioning units are supported and maintained by the facility (e.g., Air Station, Naval Base, or Public Works) and not by the Cog 2"0" training system maintenance personnel. Marine Corps Activities are covered by written procedures (Marine Corps Order P11000.5, Real Property Facilities Manual, Volume VI, 12).

6. TRAILERIZED TRAINING EQUIPMENT.

a. Responsibility for Maintenance.

The organizational maintenance of Cog 2"0" training systems is the responsibility of the training system maintenance activity. This includes maintaining the appearance and material condition of the trainer's exterior and running gear, and preventive maintenance, which includes washing, waxing, removing rust, and touch-up painting. When depot level maintenance or refurbishment of the trainer's exterior is required, the custodian activity should contact the cognizant ISEO.

b. Inspection.

Trailerized training systems, which are scheduled for relocation by use of a tractor, must receive inspection, maintenance, and servicing as a prerequisite to ensuring road worthiness. (See NAVFAC P-300, Management of Transportation Equipment Part III, Preventative Maintenance Procedures, Section 1, PM Procedures for Motor Vehicles, undated.) This inspection is normally accomplished subsequent to the receipt of a shipping directive.

7. DEFECTIVE OR DAMAGED EQUIPMENT.

If a Navy or Marine Corps activity receives Cog 2"0" equipment in a damaged or otherwise unsatisfactory condition, the situation must be reported at once to the host receiving officer. The host receiving officer should provide assistance concerning applicable actions, forms, and instructions for defective or damaged equipment.

8. DEVICE DISPOSALS.

Section V-A of this guide discusses custodian plant property accounting and reporting procedures for device acquisition, modification, accounting, transfer, and disposal. NAVTRASYS SCENINST 7321.2K, Plant Property Accounting and Reporting for Cognizance Symbol 2"0" Training Equipment, 6 Jun 89; and NAVTRASYS SCENINST 4440.10C, Procedures and Responsibilities for Cognizance Symbol 2"0" Training Device Custody and Inventory Records, 6 Apr 89, provide more details to ensure that proper procedures are used. NAWCTSD (Code 365) will issue the letter to MILSTRIP authorizing disposal actions. Removal/disposition requires significant

resource expenditures. The local ISEO should be contacted for disposal planning and execution assistance.

The NAWCTSD acts as the agent of the system TSA for Cog 2"0" devices. Thus, NAWCTSD must include funding for these actions in its POM submittals. Therefore, it is important that the ISEO be aware of custodian planned device disposals as early as possible, so required resource estimates can be developed, submitted, and received in time to accomplish the desired disposal actions. Even if NAWCTSD does have to assist in device removal or disposition, the custodian has the responsibility to transfer custody to the cognizant supply or disposition office.

9. ASSISTANCE ON COG 2"0" CASUALTY REPORTS (CASREPs)

Training system casualties which significantly impair the capability to train must be reported to higher authority in accordance with applicable Navy or Marine Corps instructions. NAWCTSD is listed as information addressee for all Cog 2"0" Casualty Reports (CASREPs), Situation Reports (SITREPs), and Casualty Correction Reports (CASCORs). (See Naval Warfare Publication 10-1-10, Chapter 4, undated.) Any required NAWCTSD action to aid in corrective actions will be performed and coordinated by the local NAWCTSD ISEO. Accordingly, the local ISEO should be listed as an addressee on CASREPs, SITREPs, and CASCORs.

10. TRAINING SYSTEMS SUPPORT PUBLICATIONS.

a. General.

The NAWCTSD Index of Publications, NAWCTSD P-1480, contains technical logistics data on topics which include:

- Operational and Maintenance Handbooks;
- Parts Catalogs;
- Commercial Computer Documentation Sets;
- Planned Maintenance System Publications;
- Other publications (classified and unclassified) which pertain to specific training equipment under cognizance of the NAWCTSD.

b. Technical Manuals(TMs).

(1) Preliminary Technical Manuals (PTMs). In order to provide activities with equipment support data as soon as practicable, NAWCTSD provides PTMs concurrent with delivery of the training system. These preliminary handbooks include a self-mailer Preliminary Technical Manual Comment Sheet (NAVTRASYSCEM 5600/5) to be completed by the addressees to report discrepancies, suggest changes, or record other comments concerning the preliminary submission. In order to accomplish the intended purpose, the completed form must be received at NAWCTSD no later than the date indicated in Block 8. A sample of the face of the form is shown in Figure V-D-1. This form cannot be used as a self-mailer for classified documents. In such cases, the form must be marked with the appropriate security classification and mailed in accordance with DOD Security Manual (OPNAVINST 5510.1J, Department of the Navy Information and Personnel Security Program Regulation, 29 Apr 88).

(2) Final TMs. When a TM is finished, it is listed and distributed to all custodians. (See NAVTRADEV P-1480, Index of Publications, undated.) It is also announced in the NAWCTSD Bulletin (P-1550 Series). Preliminary handbooks should be destroyed in accordance with security regulations upon receipt of the final handbooks.

Final TMs include a self-mailer User Activity Technical Manual Comment Sheet (NAVTRASYSCEM Form 4408/10) for use in reporting a discrepancy or other comments regarding the final handbook. The face of the form is shown in Figure V-D-2. This form cannot be used as a self-mailer for classified comments. In such cases, the form must be marked with the appropriate security classification and mailed in accordance with DOD Security Manual (OPNAVINST 5510.1J, Department of the Navy Information and Personnel Security Program Regulation, 29 Apr 88).

c. NAWCTSD-Controlled Publications.

Distribution of all classified, and certain other publications, is controlled by NAWCTSD. Those publications identified as being subject to changes over the operational phase, and

which will be needed for life-cycle support by custodians and NAWCTSD codes supporting them, are assigned "P" numbers and entered into the NAWCTSD configuration control data system. Such distribution-controlled publications are identified by "AG" in the Requisition Restriction (RR) column of NAVSUP Publication 2002, Section V, Part B. To order publications, the DD Form 1348 or DD Form 1348m should be addressed to the Naval Publications and Forms Center via NAWCTSD (Code 365).

d. Distribution.

Publications are given standard distribution by NAWCTSD. They are available to DOD addresses on request but within the limits of authorized printing quantities. Navy and Marine Corps requests to be included in the standard distribution should be made through official channels to NAWCTSD (Code 365). These items are Cognizance Symbol "1" material and one-time requests should be made by the Supply Officer of the requesting activity. {Note: Marine Corps Command requests shall be forwarded via the chain of command to the Commanding General, Marine Corps Combat Development Command (C 465), Quantico, VA 22134-5050.}

e. Disposal of Excess Periodicals and Miscellaneous Publications.

Periodicals and miscellaneous publications (publications other than training system support publications or device maintenance logs) should be disposed of locally.

11. ENVIRONMENTAL PROBLEMS.

a. NAWCTSD (Code 317) Electromagnetic Environmental Effects (E3) and TEMPEST engineers. NAWCTSD (Code 317) E3/TEMPEST will provide E3 and TEMPEST specialized problem analysis/solution assistance to custodians. They also correct those problems identified during TEMPEST inspection for which NAWCTSD is assigned corrective action. (Note: TEMPEST refers to compromising emanations; it is not an acronym.)

12. MAINTENANCE DIAGRAMS/DRAWINGS.

a. For New Device Acquisitions, maintenance diagrams should provide necessary information required to accomplish the maintenance

and repair of the equipment at the organizational and intermediate levels of maintenance. They indicate support equipment requirements, adjustment procedures, and lubrication point data. Types of maintenance drawings are delivered to the site(s) in the following forms:

(1) Preliminary Diagrams. Maintenance diagrams are delivered to NAWCTSD and to sites as part of the preliminary copy of the maintenance diagram section of the operation and maintenance manual. These diagrams must be reviewed by the maintenance personnel throughout the interim support period, redlined as necessary, and any comments concerning the diagrams added. These comments and redlines are collected by the publications specialist on or about the tenth month of the review period. (They are never presented during a verification conference.) The contractor then makes changes to the TMs to satisfy the redlines/comments. The In-Service Engineer (ISE) assists during the review period by coordinating the flow of information between the Logistics Element Manager (LEM) and maintainer. These annotated drawings should be forwarded to the Project Engineer (PE).

(2) Final Drawings. Final maintenance drawings are also delivered to sites within a six-month period after completion of the interim support.

b. The ISEO will be responsible for updating all maintenance diagrams that are affected by approved field engineering changes (modifications) for which they are responsible.

c. When maintenance diagrams for training systems have deteriorated and need replacement, the replacement diagrams will be in the form of aperture cards, magnetic tape, or hard copy as appropriate. The request for replacement diagrams should be addressed to NAWCTSD (Code 365). The request should include the following information:

(1) Name, rank, telephone number, and organizational address of the requester;

(2) Training system name;

(3) Classification of the diagram;

(4) Number of copies required;

(5) Diagram or schematic number;

(6) Part of the training system to which the diagram pertains (e.g., power supply or summing amp No. 4); and

(7) Media (hard copy, mag tape, aperture cards).

Figure V-D-2. User Activity Technical Manual Comment Sheet For Final Handbooks
(NAVTRASYSCEN 4408-10)

SECTION V-E

1. GENERAL.

In addition to the Training Agency/Controlling custodian delegated functions related to control, use, operation, and care of Cog 2"0" training systems, there are a number of responsibilities which are performed by officers, enlisted personnel, or civilians within the Cog 2"0" reporting custodian organization. The following paragraphs provide typical duties as a checklist to aid cognizant commands in development or revision of position descriptions and duty assignments for their training officers, maintenance officers, Contracting Officer's Representatives (CORs), and other key personnel. Final determination and assignment of duties are the prerogative of the Commanding Officer of each activity. Typical duties of training officers, maintenance officers, and other key personnel are:

- a. Ensure that appropriate codes have a set of NAWCTSD instructions applicable to their assigned Cog 2"0" duties. To obtain copies of NAWCTSD instructions or for guidance, contact NAWCTSD's Administrative Office, (Code 861).
- b. Annually review Navy Training Plans (NTPs) of supported weapon systems/operating platforms (WS/OPs) for currency. The applicable WS/OP Integrated Logistics Support Management Team's Logistics Element Manager for training and training support develops the original NTP and is involved in updating it. Users/custodians desiring changes can use the NTP or a creditable reference in submitting recommended changes.
- c. Perform as a Training System Fleet Project Team (FPT) member for new acquisitions. (See OPNAVINST 5000.50A, Navy Training Simulator and Device Acquisition and Management, 12 Aug 87.)
- d. For sea warfare trainers, serve on Surface Warfare Training Review Board (SWTRB) or Submarine Training/Trainer Working Group (STTWG) committees.
- e. As requested by the NAWCTSD, perform and arrange for review, validation, and verification of publication materials provided as on-site contractual deliverables of device acquisitions.
- f. Select (or act as) Contracting Officer's Representative (COR) for device COMS contracts. (Figure IV-C-3 in Section IV has a sample list of COMS COR duties.)
- g. Take necessary actions to ensure effective training of military and civil service personnel assigned training equipment maintenance and operator or COR responsibilities. (Section IV-C of this guide provides information on COMS COR qualifications.)
- h. As requested, assist the NAWCTSD in development and review of COMS Statements of Work (SOW), COMS requests for technical proposals (RTPs), and evaluation of COMS proposals from contractors.
- i. If applicable to the Command's training systems, administer the Maintenance and Material Management (3M) program for assigned training equipment.
- j. Determine and submit annual Cog 20" training equipment O&I level maintenance funding requirements needed to support training. (Section V-B of this guide provides further information.)
- k. Report training equipment no longer needed for training through the appropriate chain of command to NAWCTSD (Code 365).
- l. Fill out and submit Modification Change Completion Cards (NAVTRASYSCEN Form 4720/4) in accordance with the guidance provided in the TECD.
- m. Take advance actions necessary to ensure satisfactory facilities or site preparation for installation or relocation of training equipment.
- n. Take necessary actions to relocate Cog 2"0" training equipment within the controlling

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custodian's cognizant area of responsibility when such relocation is for the controlling custodian's convenience. Ensure proper reporting of relocations to NAWCTSD (Code 365) as described in Section V.

o. Maintain/ensure proper maintenance of entries in Sections I and II of the Training Device Log (NAVTRADEV P-3229) or the equivalent so the custodian and plant property reporting actions described in Section V can be performed. (See Section VI-B for more information on the Training Device Log.)

p. Conduct periodic inventories of assigned Cog 2"0" training/associated equipment (e.g., training system end items, major accessories, test equipment, software, etc.) and ensure that records are current. Notify the NAWCTSD (Code 365) of any changes.

q. Maintain an up-to-date set of related Cog 2"0" technical manuals for assigned trainers. Ensure changes related to the modifications are promptly entered.

r. Ensure that key personnel become familiar with NAWCTSD publications and periodicals designed to provide information applicable to assigned training systems. An example is this Guide (NAWCTSD P-530). Key personnel should also become familiar with NAWCTSD Instructions and Notices intended for distribution to customers.

s. Submit Command Cog 2"0" Training System DLMO and DLR requirements in accordance with NAWCTSD's ISEO solicitation letters. (See Section V.)