

NAVAL SHIPS' TECHNICAL MANUAL

CHAPTER 001

**GENERAL - NSTM
PUBLICATIONS INDEX AND
USER GUIDE**

THIS CHAPTER SUPERSEDES CHAPTER 001 DATED 31 JULY 2003

DISTRIBUTION STATEMENT A: APPROVED FOR PUBLIC RELEASE, DISTRIBUTION IS UNLIMITED.

PUBLISHED BY DIRECTION OF COMMANDER, NAVAL SEA SYSTEMS COMMAND.

1 OCT 2005

REVISION RECORD

REVISION NO.	DATE	TITLE AND/OR BRIEF DESCRIPTION/PREPARING ACTIVITY
50	1 OCT 20005	PARAGRAPH(S) 001-2.1.1, 001-2.3.1, 001-2.4.1, 001-2.5, 001-2.5.1, 001-2.8.1, 001-3.4.1 AND 001-3.5.1 TABLE(S) 001-2-1., 001-3-1. AND 001-3-2.
TMDER INCORPORATED: N63190-04-0430		

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CHAPTER 001

GENERAL - NSTM PUBLICATIONS INDEX AND USER GUIDE

SECTION 1.

INTRODUCTION

001-1.1 PURPOSE

001-1.1.1 The purpose of the **Naval Ships' Technical Manual (NSTM)** , is to provide technical information to personnel engaged in the supervision, operation, or maintenance of ships of the United States Navy. The various chapters and volumes of the NSTM contain detailed administrative and technical instructions that amplify U.S. Navy Regulations and other authoritative documents. These instructions are designed to assist afloat personnel in the satisfactory management of ships and shipboard machinery and equipment in order to achieve optimum performance throughout each ship's life cycle and to ensure readiness for any assigned mission. **The NSTM is not intended to be a compendium of design and engineering information, nor an all-encompassing document covering all ramifications of shipboard equipment .**

001-1.1.2 When conflict exists between the NSTM and any other related document, such conflict shall be forwarded by TMDER for resolution (see paragraph [001-2.8](#)). Pending resolution, the document related to a specific equipment/system normally will take precedence.

001-1.2 AUTHORIZATION

001-1.2.1 This manual is issued under the authority of Article 0105, **United States Navy Regulations** .

001-1.3 SCOPE

001-1.3.1 Unique procedures and requirements for ship systems and equipment are contained in technical manuals for those systems and equipment. A listing of these documents can be found in the ship Index of Technical Publications, formerly known as the Publication Applicability List.

001-1.3.2 The NSTM also provides information for industrial activities involved in ship and equipment repair and overhaul.

001-1.3.3 The chapters, volumes, and sections of this manual contain preventive and corrective maintenance information of a general nature, but are not intended to take precedence over the **Planned Maintenance System (PMS)** procedures that are in effect.

SECTION 2. RESPONSIBILITIES, MAINTENANCE AND UTILIZATION

001-2.1 AVAILABILITY

001-2.1.1 The NSTM, N4667800058 , is available on compact disk (CD-ROM), secure internet site JCALS (Joint Computer-aided Acquisition and Logistic Support) <https://nvsslweb.navsses.navy.mil/> and print-on-demand from Naval Logistics Library (NLL) <http://nll.navsup.navy.mil/> . The complete manual is often referred to as a set of NSTM because of its multichapter composition. However, each chapter (or volume of a chapter) has a different title (topic) and bears a unique publication ordering number, since individual chapters are also requested. Distribution of formal changes (updates), chapter/volume revisions, and new chapters/volumes is made according to separate distribution lists maintained for each chapter, and requires no action on the part of activities already on the lists. A complete list of chapters is in [Table 001-3-1](#).

001-2.2 TECHNICAL INFORMATION NEED

001-2.2.1 Users having a pressing need for reference copy are encouraged to consult technical libraries of activities or installations involved in the support of fleet maintenance and modernization.

001-2.3 ORDERING COMPACT DISK (CD-ROM)

001-2.3.1 In consonance with NAVSEA direction for paper reduction aboard ship, US Navy and Coast Guard Ships are encouraged to request deletion from hard copy distribution and addition to NSTM on Compact Disk - Read Only Memory (CD-ROM) distribution when that form is compatible with their needs. The entire NSTM is contained on one CD-ROM. The retrieval software {Adobe Acrobat Reader} requires Windows. All software and files needed to view the NSTMs are installed on the CD-ROM. Because of printing costs, it is desired activities select CD-ROM in place of hard copy whenever feasible. Distribution of CD-ROM updates is made to activities on the CD-ROM distribution lists. Order CD-ROM sets by submitting a requisition to NAVICP per procedure in paragraph [001-2.4.1](#) using stock number 0901-LP-103-3035.

NOTE

Advance Change Notices (ACN's) are now incorporated into the revised chapters on the CD-ROM. ACN's not incorporated are available on TDMIS.

001-2.4 ORDERING HARD COPY

001-2.4.1 Hard copy is available to training sites, schools or commands. To order individual NSTM chapters, the following procedures should be used:

1. Using the stock number, order your NSTM chapter from the on line site at the Naval Logistics Library (NLL) at <http://nll.navsup.navy.mil>. Chapters can also be ordered by submitting an AUTODIN requisition to Naval Inventory Control Point, 700 Robbins Ave, Philadelphia, PA 19111-5098.

2. If your NSTM chapter has not arrived within 2 weeks and you have not received supply status via MILSTRIP from NAVICP, you should follow up on your requisition by contacting NAVICP Customer Service at (215) 697-2267 or DSN 442-2267.
3. If your unit identification code (UIC) (or OPFAC code for Coast Guard customers) is not recognized by NAVICP, you should contact NAVICP by writing, or phone (215) 697-2447 (DSN 442-2447) for assistance. Defense Contractors should submit their request in writing, with justification, to:

COMMANDER
SEA 04L
NAVSEASYSKOM
1333 Isaac Hull Avenue S. E.
Washington Navy Yard, D.C. 20376
Phone: (202) 781-0000

001-2.5 DISTRIBUTION

NSTMs are distributed to government activities ONLY.

001-2.5.1 NSDSA maintains the NSTM distribution lists and will evaluate, verify, and validate all requests for the NSTM. Activities requesting addition to or removal from the distribution lists, or reduction in current allowance need only contact the NSDSA or submit NSTM automatic distribution requirements list to:

COMMANDER
CODE 312 (DISTRIBUTION)
NAVSURFWARCENDIV
4363 MISSILE WAY
PORT HUENEME, CA 93043-4307
FAX: (805) 228-0351

001-2.6 DISPOSAL/ACTIVATION/DEACTIVATION

001-2.6.1 Dispose of cancelled, obsolete, and superseded NSTM documentation promptly, according to SEC-NAVINST 5720.42C. Accounting is not required.

001-2.7 FORMAL REVISIONS

001-2.7.1 A formal revision is a superseding issue of an entire chapter or volume. All changes are incorporated into the revised chapters on the CD-ROM. Change pages are no longer produced. Holders on record for hard copy and CD-ROM will receive these updates without further action.

001-2.7.2 All chapters are superseding revisions, however, CHANGE BARS are included to identify information that has changed and these items are listed in the Revision Record following the title page.

001-2.7.3 Due to the digitalization program, all chapters are superseding revisions. Thereafter, all requisitions will be filled with a package that will replace your entire volume or chapter.

001-2.8 FEEDBACK

001-2.8.1 To facilitate feedback commentary, copies of NAVSEA Form 4160/1, Technical Manual Deficiency/Evaluation Report (TMDER), are included (via link) at the end of each newly published and revised chapter or volume. The completed form may be printed and mailed. The TMDER is also available online at <http://nsdsa.phdnswc.navy.mil/tmder/tmder-generate.asp?lvl=1> and can be completed online. No further address is required. All feedback comments will be thoroughly investigated and originators will be advised of any action resulting therefrom. Additional copies of NAVSEA Form 4160/1 may be requisitioned from NAVICP, see paragraph 001-2.4.1.

001-2.9 LIFE CYCLE MANAGER

001-2.9.1 A Life Cycle Manager (LCM) is assigned for each individual NSTM Chapter. The LCM is responsible for the technical content of the chapter. LCM's will periodically issue changes and revisions to keep technical information current. However, LCM's are not normally available as an information "hot line". Instead, refer urgent technical problems to the In-Service Engineering Agent (ISEA) assigned to the equipment. The ISEA for answering technical questions concerning Hull, Mechanical and Electrical Equipment comprising most of the NSTM is located at the CARDEROCK DIVISION, NAVAL SURFACE WARFARE CENTER, PHILADELPHIA NAVAL BUSINESS CENTER 5001 SOUTH BROAD ST, PHILADELPHIA PA 19112-1403, commercial (215) 897-7000, or DSN 443-7000. LCM's for each chapter are listed below and in the Technical Data Management Information System (TDMIS) data base under the Publication Number for the chapter.

Table 001-2-1. LCM POC List

NSTM TMIN	CHAPTER	Activity CODE	POC	PHONE
AA-010	001	SSES944	Dennis Ulmer	215-897-1240
BA-010	034	PMS308	Mary Ann Gerberick	202-781-0598
BS-010	050	PMS308	Lowell Himmler	202-781-0639
CD-010	070	05P7	Sandy Fountain	202-781-3625
CH-010	074(V1)	05M2	Al Grubowski	202-781-3663
CH-020	074(V2)	05ME	Jon Fallick	202-781-3662
CH-030	074(V3)	05P6	Hank Kuzma	202-781-3634
CJ-010	075	SSES62	Theresa Steck	215-897-7484
CL-010	077	05P6	Hank Kuzma	202-781-3634
CM-010	078(V1)	05P6	Tom Carroll	202-781-3679
CM-020	078(V2)	05M3	Rich Dempsey	202-781-3660
CN-010	079(V1)	05P5	Robin White	202-781-3772
CN-020	079(V2)	05P6	Hank Kuzma	202-781-3634
CN-030	079(V3)	SSES9431	John Buckley	215-897-1342
CN-040	079(V4)	05P6	Hank Kuzma	202-781-3634
CQ-010	081	00C55	Tom McCue	202-781-0742
CZ-010	090	SEA62T	Michael Overby	202-781-0779
C1-010	091	05P2	William Will,	202-781-3723
C4-000	094	05Z14	Hasan Pehlivan	202-781-3801
C6-010	096	05P5	Dominick Cimino	202-781-3681
DA-010	100	05P1	William T. Packard	202-781-3706
GX-010	220(V1)	SSES62	Theresa Steck	215-897-7484

Table 001-2-1. LCM POC List - Continued

NSTM TMIN	CHAPTER	Activity CODE	POC	PHONE
GX-020	220(V2)	SSES62	Theresa Steck	215-897-7484
GX-030	220(V3)	SSES62	Theresa Steck	215-897-7484
GY-010	221	SSES9226	Larry Halvorsen	215-897-7175
G1-010	223(V1)	05Z41	Jim Davison	202-781-3773
G1-020	223(V2)	05Z41	Jim Davison	202-781-3773
G3-010	225	SSES925	Ken Kiesel	215-897-1166
G9-010	231	05Z22	Gary Edlind	202-781-3775
HB-010	233	SSES932	Ken McColligan	215-897-7278
HC-010	234	SSES93	Tom Roche	215-897-7291
HD-010	235			
HK-010	241			
HM-010	243	05Z12	Rick Kaminsky	202-781-3788
HN-010	244	05Z24	Quoc Nguyen	202-781-3798
HP-010	245	05H1	Jeffrey Schumann	202-781-4348
HY-010	254	05Z43	Matt Baas	202-781-3610
HZ-010	255(V1)	05L32	Mike Felde	202-781-3624
HZ-020	255(V2)	05Z43	Matt Baas	202-781-3610
H7-010	262	SSES622	Vicki Larimore	215-897-8505
KC-010	300	SSES9342	Mike Simunek	215-897-1590
KE-010	302	05Z44	Roger Szabo	202-781-3811
KN-010	310	05Z44	Roger Szabo	202-781-3811
KR-010	313	05Z41	Jim Davison	202-781-3773
KY-010	320	SSES934	Andrew Bigley	215-897-1190
K9-010	330	05Z43	Chuk Eng	202-781-3776
ND-010	400	53C6	Don Cross	202-781-3495
PF-010	408	DAHLG53	Gair Brown	540-653-1579
NZ-010	420	PMS307	Jim Davey	202-781-0525
N2-010	422	05Z43	Chuk Eng	202-781-3776
PA-010	430			
QH-010	470	05P7	Sandy Fountain	202-781-3625
QN-010	475	05T3	Michael D. Riley	202-781-7288
QX-010	484	DAHL G71	Sheldon Zimmerman	540-653-1060
Q5-010	491	05Z71	Donald Strawser	202-781-3808
RG-010	502			
RH-010	503	SSES 92	Jim Hill	215-897-7865
RJ-010	504	05Z44	Roger Szabo	202-781-3811
RK-010	505	SSES92	Ed Carrigan	215-897-7197
RQ-010	510	SSES9213	William Sorg	215-897-7215
RS-010	512	SSES9213	William Sorg	215-897-7215
RW-010	516	05L22	Richard Hagar	202-781-3628
SC-010	531(V1)			
SC-010	531(V2)			
SC-010	531(V3)			
SD-010	532	05L32	Fred Tsao	202-781-3654
SE-010	533	05L32	Fred Tsao	202-781-3654
SN-010	541	SSES 92	Tim Donnelly	215-897-7948
SP-010	542	SSES 92	Tim Donnelly	215-897-7948

Table 001-2-1. LCM POC List - Continued

NSTM TMIN	CHAPTER	Activity CODE	POC	PHONE
SX-010	550	SSES9212	Ray Bauer	215-897-7222
SY-010	551	SSES9214	Jeff Craighead	215-897-7273
S2-010	554	SSES92	Veryl Williams	215-897-7219
S3-010	555(V1)	05P6	Dave Satterfield	202-781-3647
S3-020	555(V2)	05P6	Dave Satterfield	202-781-3647
S4-010	556	SSES9781	MarkDelp	215-897-8546
S9-000	561	05L6	Tom Carroll	202-781-3679
TA-010	562			
TD-010	565			
TG-010	568			
TK-010	571	05P8	Ed Matthews	202-781-3695
TL-010	572	05P8	Mike Royle	202-781-3710
TM-010	573	05P8	Mike Royle	202-781-3710
TP-010	575	05P8	Bob Jones	202-781-0668
TV-010	581	05P8	Don Neuman	202-781-3701
TW-010	582	05P8	Don Neuman	202-781-3701
TX-010	583	PMS308	Joe Guite	202-781-0614
TY-010	584	05P8	Bob Jones	202-781-0668
T3-010	588	05P7	Ken Brayton	202-781-3678
T4-010	589	05P7	Ken Brayton	202-781-3678
T8-010	593	05L1	Brad Smith	202-781-3650
T9-010	594	05P6	Branden Shea	202-781-3714
UF-010	600	05P7	Ken Brayton	202-781-3678
UK-010	604	05P7	Ken Brayton	202-781-3678
US-010	611	05P8	Don Neuman	202-781-3701
UU-010	613	05P8	Don Neuman	202-781-3701
VD-010	631(V1)	05M1	Fred Berry	202-781-3658
VD-020	631(V2)	05M1	Fred Berry	202-781-3658
VD-030	631(V3)	05M1	Fred Berry	202-781-3658
VF-010	633	05M1	Andrew Seelinger	202-781-3670
VG-010	634	05M1	Fred Berry	202-781-3658
VH-010	635	05M3	Rich Dempsey	202-781-3660
VZ-010	651	SSES9873	Jim Brechka	215-897-7311
V4-010	655	SSES974E	Joe Bowen	215-897-7925
WK-010	670	SSES	Theresa Steck	215-897-7484
XG-010	700	05P7	Ken Brayton	202-781-3678
ZN-010	772	05P7	Ken Brayton	202-781-3678
1A-010	793	05P7	Jim Williams	202-781-3724
7G-010	997	04XQ2	Rick Weiser	202-781-1845

SECTION 3.

NAVAL SHIPS' TECHNICAL MANUAL STRUCTURE

001-3.1 INTRODUCTION

001-3.1.1 The NSTM consists of a set of approximately 108 chapters numbered between 001 and 999 in non-consecutive sequence, see [Table 001-3-1](#).

001-3.2 CHAPTER NUMBERING

001-3.2.1 Under the Naval Sea Systems Command (NAVSEA) current practice, the NSTM chapter numbers are structured into a three-digit system. Under the Naval Ship Systems Command before 1976, NSTM chapters were numbered according to a four-digit system. The four-digit chapter numbers have been replaced by three digit numbers.

001-3.3 TMINS

001-3.3.1 Conversion of the National Stock Numbers (NSN's) to the Technical Manual Identification Number System (TMINS) is according to NAVSEA N0000-00-IDX-000/TMINS, **Application Guide and Index for the Navy Standard Technical Manual Identification Numbering System (TMINS)** . A new NSN assigned upon revision and publication.

001-3.4 ADVANCE CHANGE NOTICES

001-3.4.1 An Advance Change Notice (ACN) is prepared as an addendum to a chapter of the NSTM when there is insufficient time to prepare and publish a permanent (formal) revision. ACN's are distributed to NSTM holders on record since all NSTM Chapters are on CD. Formal chapter revisions incorporate outstanding ACN's. The assigned ACN number provides dual information: a number capable of serialization, separated by a slash, and the prospective change level to a chapter. For example, the first ACN issued to an NSTM Chapter is designated ACN 1/A. ACN number assignment and distribution are controlled by NAVSEA. Copies of NSTM ACN's are available upon request by contacting the NSDSA, (805) 228- 6153 or DSN 296- 6153 .

001-3.5 TABLES IN THIS INDEX

001-3.5.1 [Table 001-3-1](#) is a compilation of currently available NSTM documentation (chapters, volumes, and revisions). Documentation previously issued, but retired from the current [Table 001-3-1](#), has been superseded or cancelled. Users may obtain current status information on any NSTM publication from NSTMHELP on the global e-mail address list.

001-3.5.2 [Table 001-3-2](#) is an alphabetical list of current chapter titles, with corresponding chapter numbers.

Table 001-3-1. NSTM DOCUMENTATION

CHAPTER NUMBER (VOL)	PUB NUMBER, STOCK NUMBER, TITLE OF BASIC	LATEST REVISION LEVEL	
		REV	DATE
001	S9086-AA-STM-010 0901-LP-103-8457 General-NSTM Publications Index and User Guide	50*	10/1/05
034	S9086-BA-STM-010 0901-LP-015-2380 Service Craft	1	9/1/99
050	S9086-BS-STM-010 0910-LP-104-3949 Readiness and Care of Inactive Ships	3*	5/1/05
070	S9086-CD-STM-010 0901-LP-017-5310 Nuclear Defense at Sea and Radiological Recovery of Ships After Nuclear Weapons Explosion	2	7/30/98
074(V1)	S9086-CH-STM-010 0901-LP-100-7785 Welding and Allied Processes	5	1/31/03
074(V2)	S9086-CH-STM-020 0901-LP-101-0827 Nondestructive Testing of Metals, Qualification and Certification Requirements for Naval Personnel (Non-Nuclear)	3	12/1/01
074(V3)	S9086-CH-STM-030 0901-LP-102-5329 Gas Free Engineering	4	7/15/03
075	S9086-CJ-STM-010 0901-LP-102-4130 Fasteners	3	4/30/03
077	S9086-CL-STM-010 0901-LP-102-4131 Personnel Protection Equipment	5	7/30/03
078(V1)	S9086-CM-STM-010 0910-LP-103-9246 Seals	5*	3/1/05
078(V2)	S9086-CM-STM-020 0901-LP-078-0020 Gaskets and Packing	0	9/17/98
079(V1)	S9086-CN-STM-010 0901-LP-017-7200 Damage Control-Stability and Buoyancy	1	11/12/97
079(V2)	S9086-CN-STM-020 0901-LP-079-0060 Damage Control-Practical Damage Control	2	8/3/98

Table 001-3-1. NSTM DOCUMENTATION - Continued

CHAPTER NUMBER (VOL)	PUB NUMBER, STOCK NUMBER, TITLE OF BASIC	LATEST REVISION LEVEL	
		REV	DATE
079(V3)	S9086-CN-STM-030 0901-LP-015-2620 Damage Control-Engineering Casualty Control	2	12/31/00
079(V4)	S9086-CN-STM-040 0901-LP-668-2263 Damage Control - Compartment Testing and Inspection	0	11/25/98
081	S9086-CQ-STM-010 0901-LP-020-1580 Waterborne Underwater Hull Cleaning of Navy Ships	4	4/1/02
090	S9086-CZ-STM-010 0901-LP-102-7433 Inspections, Tests, Records and Reports	3	7/31/03
091	S9086-C1-STM-010 0901-LP-101-1446 Submarine Hull Inspection	2	12/1/01
094	S9086-C4-STM-010 0901-LP-014-9530 Trials	2	8/28/98
096	S9086-C6-STM-010 0910-LP-104-8794 Weights and Stability	2*	10/1/05
100	S9086-DA-STM-010 0901-LP-015-2430 Hull Structures	1	9/1/99
220(V1)	S9086-GX-STM-010 0901-LP-015-2410 Boiler Water/Feedwater-Water Chemistry	1	9/1/99
220(V2)	S9086-GX-STM-020 0901-LP-100-2838 Boiler Water/Feedwater-Test and Treatment	8	12/31/00
220(V3)	S9086-GX-STM-030 0910-LP-103-8602 Corrosion and Contamination Control for Diesel Engine Cooling Water Systems	3*	7/1/04
221	S9086-GY-STM-010 0901-LP-100-2839 Boilers	4	12/31/00
223(V1)	S9086-G1-STM-010 0910-LP-103-9248 Submarine Storage Batteries-Lead Acid Batteries	4*	1/1/05

Table 001-3-1. NSTM DOCUMENTATION - Continued

CHAPTER NUMBER (VOL)	PUB NUMBER, STOCK NUMBER, TITLE OF BASIC	LATEST REVISION LEVEL	
		REV	DATE
223(V2)	S9086-G1-STM-020 0901-LP-017-7210 Submarine Storage Batteries-Silver-Zinc Batteries	1	9/1/99
225	S9086-G3-STM-010 0901-LP-102-7161 Steam Machinery Control Systems	2	7/31/03
231	S9086-G9-STM-010 0901-LP-103-0579 Propulsion and SSTG Steam Turbines	5*	3/1/04
233	S9086-HB-STM-010 0901-LP-101-0830 Diesel Engines	3*	10/1/05
234	S9086-HC-STM-010 0901-LP-101-0831 Marine Gas Turbines	2	12/1/01
235	S9086-HD-STM-010 0901-LP-017-7230 Electric Propulsion Installations	2	9/1/99
241	S9086-HK-STM-010 0901-LP-103-0581 Propulsion Reduction Gears, Couplings, Clutches, and Associated Components	1*	3/1/04
243	S9086-HM-STM-010 0901-LP-641-0467 Propulsion Shafting	0	12/4/96
244	S9086-HN-STM-010 0910-LP-104-4399 Propulsion Bearings and Seals	9*	7/1/05
245	S9086-HP-STM-010 0901-LP-102-4133 Propellers	5	3/30/03
254	S9086-HY-STM-010 0910-LP-103-8604 Condensers, Heat Exchangers, and Air Ejectors	3*	1/1/05
255(V1)	S9086-HZ-STM-010 0901-LP-017-7240 Feedwater System and Apparatus, Feed and Condensate Systems	1	2/13/98
255(V2)	S9086-HZ-STM-020 0901-LP-017-7260 Feedwater Systems and Apparatus-Deaerating Feed Tanks	1	9/4/97

Table 001-3-1. NSTM DOCUMENTATION - Continued

CHAPTER NUMBER (VOL)	PUB NUMBER, STOCK NUMBER, TITLE OF BASIC	LATEST REVISION LEVEL	
		REV	DATE
262	S9086-H7-STM-010 0901-LP-101-0829 Lubricating Oils, Greases, Specialty Lubricants, and Lubrication Systems	6	12/1/01
300	S9086-KC-STM-010 0910-LP-103-8605 Electric Plant-General	7*	4/1/05
302	S9086-KE-STM-010 0901-LP-101-1057 Electric Motors and Controllers	2*	11/1/04
310	S9086-KN-STM-010 0910-LP-103-9249 Electric Power Generators and Conversion Equipment	3*	3/1/05
313	S9086-KR-STM-010 0901-LP-017-7280 Portable Storage and Dry Batteries	2	9/1/99
320	S9086-KY-STM-010 0910-LP-103-8606 Electric Power Distribution Systems	5*	5/30/02
330	S9086-K9-STM-010 0901-LP-101-1147 Lighting	3*	9/1/99
400	S9086-ND-STM-010 0910-LP-104-4484 Electronics	2*	7/31/04
408	S9086-PF-STM-010 0901-LP-641-0442 Fiber Optic Topology Operation Maintenance and Repair	1	8/5/96
420	S9086-NZ-STM-010 0901-LP-015-2480 Navigation Systems, Equipment and Aids	1	9/1/99
422	S9086-N2-STM-010 0901-LP-017-7310 Navigation and Signal Lights	3	6/4/99
430	S9086-PA-STM-010 0901-LP-015-2490 Interior Communication Installations	1	9/1/99
434	S9086-PE-STM-010 0901-LP-434-0020 Motion Picture Equipment	1	11/15/80

Table 001-3-1. NSTM DOCUMENTATION - Continued

CHAPTER NUMBER (VOL)	PUB NUMBER, STOCK NUMBER, TITLE OF BASIC	LATEST REVISION LEVEL	
		REV	DATE
470	S9086-QH-STM-010 0901-LP-017-5450 Shipboard BW/CW Defense and Countermeasures	3	8/6/98
475	S9086-QN-STM-010 0901-LP-101-6352 Magnetic Silencing	3	6/30/02
484	S9086-QX-STM-010 0901-LP-015-2680 Laser Safety	1	9/1/99
491	S9086-Q5-STM-010 0901-LP-015-2710 Electrical Measuring and Test Instruments	1	9/1/99
502	S9086-RG-STM-010 0901-LP-502-0020 Auxiliary Steam Turbines	1	9/25/96
503	S9086-RH-STM-010 0901-LP-100-2845 Pumps	3	12/31/00
504	S9086-RJ-STM-010 0901-LP-101-1059 Pressure, Temperature, and Other Mechanical and Electromechanical Measuring Instruments	2	12/1/01
505	S9086-RK-STM-010 0901-LP-011-9930 Piping Systems 9/1/99	2	12/1/01
510	S9086-RQ-STM-010 0910-LP-104-1715 Heating, Ventilating, and Air Conditioning Systems for Surface Ships	6*	4/1/05
512	S9086-RS-STM-010 0901-LP-015-2660 Fans	2	9/1/99
516	S9086-RW-STM-010 0901-LP-017-4430 Refrigeration Systems	4	12/10/97
531(V1)	S9086-SC-STM-010 0901-LP-015-2650 Desalination Low-Pressure Distilling Plants	2	9/1/99
531(V2)	S9086-SC-STM-020 0901-LP-015-2640 Desalination Vapor Compression Distilling Plants	2	9/1/99

Table 001-3-1. NSTM DOCUMENTATION - Continued

CHAPTER NUMBER (VOL)	PUB NUMBER, STOCK NUMBER, TITLE OF BASIC	LATEST REVISION LEVEL	
		REV	DATE
531(V3)	S9086-SC-STM-030 0901-LP-017-7330 Desalination Reverse Osmosis Desalination Plants	2	9/1/99
532	S9086-SD-STM-010 0901-LP-017-7340 Liquid Cooling Systems for Electronic Equipment	2	9/1/99
533	S9086-SE-STM-010 0901-LP-533-0030 Potable Water Systems	3	3/15/95
541	S9086-SN-STM-010 0910-LP-104-8857 Ship Fuel and Fuel Systems	4*	10/1/04
542	S9086-SP-STM-010 0901-LP-020-0050 Gasoline and JP-5 Fuel Systems	3	12/1/01
550	S9086-SX-STM-010 0901-LP-102-3364 Industrial Gases Generating, Handling and Storage	4	4/15/03
551	S9086-SY-STM-010 0910-LP-104-4030 Compressed Air Plants and Systems	4*	7/30/05
554	S9086-S2-STM-010 0901-LP-015-2530 Forced Draft Blowers	1	9/1/99
555(V1)	S9086-S3-STM-010 0910-LP-104-3688 Surface Ship Firefighting	11*	10/1/04
555(V2)	S9086-S3-STM-020 0910-LP-104-3689 Submarine Firefighting	10*	3/30/05
556	S9086-S4-STM-010 0901-LP-100-2880 Hydraulic Equipment (Power Transmission and Control)	4	12/31/00
561	S9086-S9-STM-010 0901-LP-100-5827 Submarine Steering and Diving Systems	5	7/31/03
562	S9086-TA-STM-010 0901-LP-015-2720 Surface Ship Steering Systems	2	9/1/99
565	S9086-TD-STM-010 0901-LP-017-7360 Surface Ship Stabilizing Systems	1	9/1/99

Table 001-3-1. NSTM DOCUMENTATION - Continued

CHAPTER NUMBER (VOL)	PUB NUMBER, STOCK NUMBER, TITLE OF BASIC	LATEST REVISION LEVEL	
		REV	DATE
571	S9086-TK-STM-010 0901-LP-101-1065 Underway Replenishment	3	12/1/01
572	S9086-TL-STM-010 0910-LP-103-4651 Shipboard Stores and Provision Handling	3*	7/30/04
573	S9086-TM-STM-010 0901-LP-020-0960 Booms	1	11/13/98
581	S9086-TV-STM-010 0901-LP-017-4190 Archoring	3	11/24/97
582	S9086-TW-STM-010 0901-LP-101-1069 Mooring and Towing	2	12/1/01
583	S9086-TX-STM-010 0901-LP-101-1070 Boats and Small Craft	4	12/1/01
584	S9086-TY-STM-010 0901-LP-641-0482 Landing Craft and Amphibious Assault Vehicle Handling, Stowage and Support Systems	1	9/1/99
588	S9086-T3-STM-010 0901-LP-102-7162 Aircraft Elevators And Deck Edge Elevator & Hangar Division Doors	3	7/31/03
589	S9086-T4-STM-010 0901-LP-101-6354 Cranes	6	5/30/02
593	S9086-T8-STM-010 0901-LP-017-7380 Pollution Control	4	9/1/99
594	S9086-T9-STM-010 0901-LP-594-0020 Salvage-Submarine Safety Escape and Rescue Devices	1	1/31/95
600(V1)	S9086-UF-STM-010 0901-LP-101-1071 STRUCTURAL CLOSURES	2*	10/1/05
600(V2)	S9086-UF-STM-020 0910-LP-104-2181 NON-STRUCTURAL CLOSURES	0*	10/1/05
600(V3)	S9086-UF-STM-030 0910-LP-104-2184 HULL OUTFITTING EQUIPMENT	0*	10/1/05

Table 001-3-1. NSTM DOCUMENTATION - Continued

CHAPTER NUMBER (VOL)	PUB NUMBER, STOCK NUMBER, TITLE OF BASIC	LATEST REVISION LEVEL	
		REV	DATE
604	S9086-UK-STM-010 0901-LP-020-1140 LOCKS, KEYS, AND HASPS	3	12/16/98
611	S9086-US-STM-010 0901-LP-017-7410 Fenders and Separators	2	9/1/99
613	S9086-UU-STM-010 0901-LP-015-2510 Wire and Fiber Rope and Rigging	3	8/30/99
631(V1)	S9086-VD-STM-010 0901-LP-101-1073 Preservation of Ships in Service - General	2	12/1/01
631(V2)	S9086-VD-STM-020 0901-LP-003-6440 Preservation of Ships in Service - Surface Preparation and Painting	1	12/19/96
631(V3)	S9086-VD-STM-030 0901-LP-101-1075 Preservation of Ships in Service - Surface Ship/Submarine Applications	2	12/1/01
633	S9086-VF-STM-010 0901-LP-633-0040 Cathodic Protection	2	9/1/99
634	S9086-VG-STM-010 0901-LP-101-1076 Deck Coverings	3	12/1/01
635	S9086-VH-STM-010 0901-LP-635-0020 Thermal, Fire, and Acoustic Insulation	2	7/28/98
651	S9086-VZ-STM-010 0901-LP-015-2560 Commissary Equipment	0	9/1/99
655	S9086-V4-STM-010 0901-LP-100-2884 Laundry and Dry Cleaning	2	12/31/00
670	S9086-WK-STM-010 0910-LP-104-2767 Stowage, Handling, and Disposal of Hazardous General Use Consumables	6*	7/1/04
700	S9086-XG-STM-010 0901-LP-101-1077 Shipboard Ammunition Handling and Stowage	6	5/30/02

Table 001-3-1. NSTM DOCUMENTATION - Continued

CHAPTER NUMBER (VOL)	PUB NUMBER, STOCK NUMBER, TITLE OF BASIC	LATEST REVISION LEVEL	
		REV	DATE
772	S9086-ZN-STM-010 0901-LP-100-2886 Cargo and Weapons Elevators	3	12/31/00
793	S9086-1A-STM-010 0901-LP-015-2690 Security of Stowed Nuclear Weapons	1	9/1/99
997	S9086-7G-STM-010 0901-LP-997-0030 Docking Instructions and Routine Work in Dry Dock	3	11/25/96
* - New Chapter Revision for OCTOBER 2005.			

Table 001-3-2. ALPHABETICAL LIST OF CHAPTER TITLES

CHAPTER TITLE	CHAPTER NUMBER
Aircraft Elevators And Deck Edge Elevator & Hangar Division Doors	588
Anchors and Anchoring	581
Auxiliary Steam Turbines	502
Boats and Small Craft	583
Boiler Water/Feedwater	
• Test and Treatment	220(V2)
• Water Chemistry	220(V1)
Boilers	221
Booms	573
Cargo and Weapons Elevators	772
Cathodic Protection	633
Commissary Equipment	651
Compressed Air Plants and Systems	551
Condensers, Heat Exchangers, and Air Ejectors	254
Corrosion and Contamination Control for Diesel Engine Cooling Water Systems	220(V3)
Cranes	589
Damage Control	
• Compartment Testing and Inspection	079(V4)
• Engineering Casualty Control	079(V3)
• Practical Damage Control	079(V2)
• Stability and Buoyancy	079(V1)
Deck Coverings	634
Desalination	
• Low-Pressure Distilling Plants	531(V1)
• Reverse Osmosis Desalination Plants	531(V3)
• Vapor Compression Distilling Plants	531(V2)
Diesel Engines	233
Docking Instructions and Routine Work in Dry Dock	997
Electric Motors and Controllers	302

Table 001-3-2. ALPHABETICAL LIST OF CHAPTER TITLES - Continued

CHAPTER TITLE	CHAPTER NUMBER
Electric Plant - General	300
Electric Power Distribution Systems	320
Electric Power Generators and Conversion Equipment	310
Electric Propulsion Installations	235
Electrical Measuring and Test Instruments	491
Electronics	400
Fans	512
Feedwater Systems and Apparatus - Deaerating Feed Tanks	255(V2)
Feed and Condensate Systems	255(V1)
Fenders and Separators	611
Fiber Optic Topology Operation Maintenance and Repair	408
Firefighting, Surface Ship	555(V1)
Firefighting, Submarine	555(V2)
Forced-Draft Blowers	554
Fuel Systems, Ship Fuel and	541
Gas Free Engineering	074(V3)
Gaskets and Packing	078(V2)
Gasoline and JP-5 Fuel Systems	542
General-NSTM Publications Index and Users Guide	001
Heating, Ventilating, and Air Conditioning Systems for Surface Ships	510
Hull Outfitting Equipment	600(V3)
Hull Structures	100
Hydraulic Equipment (Power Transmission and Control)	556
Industrial Gases; Generating, Handling and Storage	550
Inspections, Tests, Records and Reports	090
Interior Communication Installations	430
Laser Safety	484
Laundry and Dry Cleaning	655
Lighting	330
Liquid Cooling Systems for Electronic Equipment	532
Locks, Keys and Hasps	604
Lubricating Oils, Greases, Speciality Lubricants, and Lubricating Systems	262
Magnetic Silencing	475
Marine Gas Turbines	234
Mooring and Towing	582
Motion Picture Equipment	434
Navigation and Signal Lights	422
Navigation Systems, Equipment and Aids	420
Nondestructive Testing of Metals, Qualification and Certification Requirements for Naval Personnel (Non-Nuclear)	074(V2)
Non-Structural Closures	600(V2)
Nuclear Defense at Sea and Radiological Recovery of Ships After Nuclear Weapons Explosion	070
Personnel Protection Equipment	077

Table 001-3-2. ALPHABETICAL LIST OF CHAPTER TITLES - Continued

CHAPTER TITLE	CHAPTER NUMBER
Piping Systems	505
Pollution Control	593
Portable Storage and Dry Batteries	313
Potable Water Systems	533
Preservation of Ships in Service	
• General	631(V1)
• Surface Preparation and Painting	631(V2)
• Surface Ship/Submarine Applications	631(V3)
Pressure, Temperature, and Other Mechanical and Electromechanical Measuring Instruments	504
Propellers	245
Propulsion and SSTG Steam Turbines	231
Propulsion Bearings and Seals	244
Propulsion Reduction Gears, Couplings and Associated Components	241
Propulsion Shafting	243
Pumps	503
Readiness and Care of Inactive Ships	050
Refrigeration Systems	516
Salvage - Submarine Safety Escape and Rescue Devices	594
Seals	078(V1)
Security of Stowed Nuclear Weapons	793
Service Craft	034
Ship Fuel and Fuel Systems	541
Shipboard Ammunition Handling and Stowage	700
Shipboard BW/CW Defense and Countermeasures	470
Surface Ship Firefighting	555(V1)
Shipboard Stores and Provision Handling	572
Steam Machinery Control Systems	225
Landing Craft and Amphibious Assault Vehicle Handling, Stowage and Support Systems	584
Stowage, Handling and Disposal of Hazardous General Use Consumables	670
Structural Closures	600(V1)
Submarine Firefighting	555(V2)
Submarine Hull Inspection	091
Submarine Steering and Diving systems	561
Submarine Storage Batteries	
• Lead Acid Batteries	223(V1)
• Silver-Zinc Batteries	223(V2)
Surface Ship Stabilizing Systems	565
Surface Ship Steering Systems	562
Thermal, Fire, and Acoustic Insulation	635
Threaded Fasteners	075
Trials	094
Underway Replenishment	571
Waterborne Underwater Hull Cleaning of Navy Ships	081
Weights and Stability	096

Table 001-3-2. ALPHABETICAL LIST OF CHAPTER TITLES - Continued

CHAPTER TITLE	CHAPTER NUMBER
Welding and Allied Processes	074(V1)
Wire and Fiber Rope and Rigging	613

APPENDIX A**TECHNICAL MANUAL DEFICIENCY/EVALUATION REPORT (TMDER)****NOTE**

Ships, training activities, supply points, depots, Naval Shipyards, and Supervisors of Shipbuilding are requested to arrange for the maximum practical use and evaluation of NAVSEA technical manuals. All errors, omissions, discrepancies, and suggestions for improvement to NAVSEA technical manuals shall be reported to the Commander, NAVSURFWARCENDIV, 4363 Missile Way, Port Hueneme, CA 93043-4307 on NAVSEA/ SPAWAR Technical Manual Deficiency/Evaluation Report (TMDER), NAVSEA Form 4160/1. To facilitate such reporting, print, complete, and mail NAVSEA Form 4160/1 below or submit TMDERS at web site (<http://nsdsa.phdnswc.navy.mil/tmder/tmder-generate.asp?lvl=1>) . All feedback comments shall be thoroughly investigated and originators will be advised of action resulting therefrom.

TMDER / MAILER

