### APPENDIX I

## **GLOSSARY**

The entries listed in this appendix are terms as they are used in this training manual.

- **ALL-UP ASSEMBLY—** A term used to designate a completely assembled ET mine.
- **ASSEMBLY-LEVEL ITEM** A component, consisting of one or more parts, which is designed to function as an end item in a mine assembly.
- **MAINTENANCE** The actions required to retain material in a serviceable condition or to restore it to a serviceable condition.
- **MBOM** (Mine Bill of Material)— A computer-produced consolidated list for underwater-mine material.

- **SPARES** The assembly-level items maintained on site in excess of those installed in mine assemblies.
- **SUBASSEMBLY** A term used to designate an ET mine storage and shipping configuration.
- **VISUAL INSPECTION** The class-B testing of mine components by sight, test, or manipulation without the use of test instruments.

### **APPENDIX II**

## ABBREVIATIONS AND ACRONYMS

The entries listed in this appendix are abbreviations and acronyms as they are used in this training manual.

CG— Center of gravity

**COMINEWARCOM**— Commander, Mine Warfare Command

**COMOMAG**— Commander, Mobile Mine Assembly Group

CNO- Chief of Naval Operations

**DST**— destructor mine

ET- exercise and training

NCEA- non-combat expenditure allocation

OA— operational assembly

OCE— officer conducting the exercise

RAM— random-access memory

**VEM**— versatile exercise mine

### APPENDIX III

## REFERENCES USED TO DEVELOP THIS TRAMAN

The references listed in this appendix were used to develop this training manual.

- Exercise and Training (ET) Mine Material Program, OPNAVINST 8550.9, Chief of Naval Operations, Washington. D.C., 1989.
- Guidance for Personnel Assigned in Support of Mine Warfare Exercise and Training (ET) operations, COMOMAG/MOMAGINST 3120.2. Mobile Mine Assembly Group, Chadcston, S.C., 1987.
- Information Concerning Mine Warfare Exercise and Training (ET) Material Allowance and Reporting Criteria, COMOMAG/MOMAGINST 8550.9, Mobile Mine Assembly Group, Charleston, S.C., 1994.
- Mine Components A through C; Description and Class-B Criteria, NAVSEA SW550-AA-MMI-010, Naval Sea Systems Command, Washington, D.C., 1988.
- Mine Components D through F; Description and Class-B Criteria, NAVSEA SW550-AA-MMI-020, Naval Sea Systems Command, Washington, D.C., 1988.
- Mine Components G through W; Description and Class-B Criteria, NAVSEA SW550-AA-MMI-030, Naval Sea Systems Command, Washington, D.C., 1987.
- Mines, Underwater: Actuation, Description, Assembly, and Tests, NAVSEA SW550-AE-MMI-040, Naval Sea Systems Command, Washington, D.C., 1991.
- Mines, Underwater: Exercise and Training; Class-B Test and Refurbishment, NAVSEA SW550-AE-MMI-020, Naval Sea Systems Command, Washington, D.C., 1989.
- Mines, Underwater: Exercise and Training; Description and Class-B Criteria, NAVSEA SW550-AE-MMI-010, Naval Sea Systems Command, Washington, D.C., 1989.
- Mines, Underwater: Handling, Shop, Mechanical Sweep, and Hunting; Description and Assembly, NAVSEA SW550-AE-MMI-060, Naval Sea Systems Command, Washington, D.C., 1990.
- Mines, Underwater: Laying; Description, Assembly, and Disassembly, NAVSEA SW550-AE-MMI-050, Naval Sea Systems Command, Washington, D.C., 1990.
- Mine Warfare Exercise and Training (ET) Material Maintenance and Refurbishment, COMOMAG/MOMAGINST 8550.14, Mobile Mine Assembly Group, Charleston, S.C., 1993.
- Mine Warfare Exercise and Training (ET) Post Exercise Reporting, COMOMAGIMOMAGINST 8550.1, Mobile Mine Assembly Group, Charleston, S.C., 1988.

- Versatile Exercise Mine Mk 74 Mod 0 (VEM); Description and Maintenance, NAVSEA SW550-AE-MMI-070, Naval Sea Systems Command, Washington, D.C., 1993.
- Versatile Excercise Mine Mk 74 Mod 0 (VEM); Organizational Level Procedures Rigging, Deployment, and Recovery, NAVSEA SW570-FO-MMO-050, Naval Sea Systems Command, Washington, D.C., 1990.

# **INDEX**

A	Illustrations (continued)			
Actuation mines, 2-1 to 2-24	Mk 21 Mod 0 firing mechanism, 2-5			
Arming device, 3-8	Mk 25 laying mine, 3-2			
	Mk 25 Mod 0 signal data recorder, 2-15			
$\mathbf{c}$	Mk 27 Mod 0 search coil, 2-8			
Configuration data, 2-6	Mk 3 Mod 0 depth compensator, 2-5			
	Mk 35 Mod 0 junction box, 2-9			
D	Mk 35 Mod 0 parachute pack assembly, 2-21			
Detection systems, 2-3 to 2-5	Mk 36 laying mine, 3-2			
Drill float shield assembly, 2-9 to 2-10, 2-11	Mk 36 Mod 0 parachute pack assembly, 2-21			
	Mk 5 Mod 1 ET arming device, 2-7			
$\mathbf{E}$	Mk 52 & Mk 55 actuation mines, sequence			
Exercise & training mines	of operation, 2-23			
basic allowance, 1-1	Mk 52 & Mk 55 laying mines, 3-3			
configurations, 1-3 to 1-4	Mk 52 actuation mine, 2-2			
in-water reliability evaluation, 1-2	Mk 55 actuation mine, 2-3			
maintenance, 1-3 to 1-4	Mk 56 laying mine, 3-4			
Material Program, 1-1 to 1-3	Mk 57 laying mine, 3-5			
records & reports, 1-2	Mk 6 mechanical sweep mine, 3-11			
system layout, 1-3	Mk 6 Mod 1 hydrophone, 2-6			
	Mk 60 laying mine, 3-6			
F	Mk 62 laying mine, 3-6			
Flight	Mk 63 laying mine, 3-7			
actuation mines, 2-1	Mk 64 Mod 3 switch delay, 2-14			
gear, 3-9	Mk 65 laying mine, 3-7			
Float assembly, 3-9, 3-10	Mk 87 Mod 0 sonar transmitter, 2-17			
	Mk 115 & Mk 116 smoke & illumination			
H	marine signals, 2-12			
Handling mine, 3-9	Mk 125 Mod 0 smoke & illumimation signal,			
Hunting mine, 3-10	2-13			
,	System layout, ET mine, 1-3			
I	· · · · · · · · · · · · · · · · · · ·			
Illustrations	L			
Drill float shield assembly, 2-11	Laying mines, 3-1 to 3-9			
Float assembly, 3-10				
Mine-case tail covers, 2-16	M			
Mine locator float, 3-9	Mechanical sweep mine, 3-10 to 3-11			
Mk 10 Mod 0 ET sterilizer, 2-8	Mine-case tail covers, 2-15 to 2-16			
Mk 17 Mod 0 drill float, 2-10	Mine locator float, 3-8 to 3-9			
Mk 19 Mod 0 nose & tail fairing, 2-18	Mk 3 Mod 0 depth compensator, 2-5			
Mk 19 Mod 1 explosive fitting, 2-14	Mk 6 Mod 1 hydrophore, 2-5 to 2-6			
Mk 20 Mod 0 explosive fitting, 2-15	Mk 10 Mod 0 ET sterilizer, 2-8			
Mk 20 Mod 0 nose & tail fairing, 2-20	Mk 17 Mod 0 drill float 2-9, 2-10			
Mk 20 Mod 1 firing mechanism, 2-4	Mk 19 Mod 0 nose & tail fairing, 2-17 to 2-18			
Mk 21 Mod 0 clock delay, 2-7	Mk 19 Mod 1 explosive fitting, 2-14			

Mk 20 Mod 0 nose & tail fairing, 2-19, 2-20

Mk 20 Mod 0 explosive fitting, 2-14 to 2-15

Mk 21 Mod 0 clock delay, 2-7

Mk 25 laying mine, 3-1 to 3-2

Mk 25 Mod 0 signal data recorder, 2-15

Mk 27 Mod 0 search coil, 2-7 to 2-8

Mk 3 instrument rack, 2-9

Mk 35 Mod 0 & Mk 36 Mod 9 parachute packs, 2-19, 2-21

Mk 35 Mod 0 junction box, 2-8 to 2-9

Mk 36 & Mk 40 laying destructors, 3-5

Mk 36 laying mine, 3-2

Mk 39 Mod 1 control box, 2-8

Mk 5 Mod 1 ET arming device, 2-7

Mk 52 & Mk 55 laying mines, 3-3

Mk 52 & Mk 55 actuation mine components, 2-7 to 2-24

Mk 52 Mods 2 & 5 actuation mines, 2-2

Mk 55 Mods 2 & 5 actuation mines, 2-3

Mk 56 laying mine, 3-4

Mk 57 laying mine, 3-4 to 3-5

Mk 60 laying mine, 3-5, 3-6

Mk 62 & Mk 63 laying mines, 3-5, 3-6 to 3-7

Mk 64 Mod 3 switch delay, 2-13 to 2-14

Mk 65 laying mine, 3-5, 3-7

Mk 87 Mod 0 sonar transmitter, 2-17

Mod 2 detection system, 2-3 to 2-5

Mod 5 detection system, 2-5 to 2-6

MS3314 & Mk 3 suspension lugs, 2-9

N

Nonflight actuation mines, 2-2

0

Operational assemblies, 2-6

Operational description, Mk 52 & Mk 55

actuation mines. 2-22 to 2-23

P

Planting depths, 2-6

 $\mathbf{S}$ 

Shop mine, 3-10

Sonar transmitters, 3-8

Suspension lugs, 3-8

 $\mathbf{T}$ 

Tail covers, 3-8