



DEPARTMENT OF THE NAVY
NAVAL SEA SYSTEMS COMMAND
WASHINGTON, D.C. 20362-5101

IN REPLY REFER TO

NAVSEAINST 8550.2C
OPR PMS40-7L
7 Dec 89

NAVSEA INSTRUCTION 8550.2C

From: Commander, Naval Sea Systems Command

Subj: STORAGE TIME LIMITS FOR DETERIORATIVE SERVICE MINE
COMPONENTS

Ref: (a) NAVSEA SW550-FO-PMS-010
(b) NAVSEAINST 3967.1A

Encl: (1) Storage Time Limits for Deteriorative Service Mine
Components

1. Purpose. This revision contains significant changes to storage time limits in enclosure (1), delegates authority to Naval Mine Warfare Engineering Activity to waive special evaluations on samples of explosive devices for one maintenance cycle, and retains the primary purpose of establishing:

a. The length of time since manufacture or last overhaul that deteriorative service mine material may be retained in Condition Code A (Serviceable).

b. The criteria and procedures whereby components which have become unserviceable due to age are removed from serviceable stock for screening, repair, overhaul or scrap.

c. The criteria for issue of non-deteriorative mine material; that is, material whose rate of deterioration is so slow that actual deterioration measurement is inconsequential. For example, Release Mechanism Mk 23 is considered a non-deteriorative component.

2. Cancellation. NAVSEAINST 8550.2B of 9 June 1987.

3. Scope. This instruction applies only to those shelf-stowed mine component stocks in CONUS activities for issue to the Fleet and other shore activities. It does not apply to components installed in mines which are stored in Assembly Configuration A, B, C, and D, or to the spares for these Assembly Configurations. These latter materials are tested and inspected per the requirements of the policy for the maintenance of mines described in reference (a). Enclosure (1) lists service mine components considered to be deteriorative. Components which are assigned material Condition Code A and which are non-deteriorative are not listed in enclosure (1).

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4. Background

a. Shelf-life criteria are required to govern the maximum storage time limit between material quality determination and issuance to ensure that deteriorative mine components are maintained as Ready-For-Issue (RFI) from CONUS stocks.

b. The shelf-life criteria were established based on the analyses of maintenance and performance data collected over the past 20 years.

c. The degradation information that justifies the limits on storage times set forth in this instruction also provides for:

(1) Standardized stockpile entry inspection of newly procured material to establish baseline data.

(2) Establishing mine component failure rates in the Central Mine Data System through replacement of deteriorated or suspect components under the programmed maintenance systems of reference (a).

(3) Periodic sampling and evaluation of deteriorative mine components under the evaluation program of reference (b) in order to monitor serviceability status and recommend changes to component shelf-life.

(4) Replacing deteriorated or suspect parts when age limit is reached.

5. Action

a. CONUS activities which stock service mine components listed in enclosure (1) will determine and assign material condition codes per the following instructions:

(1) Components presently in Condition Code A and all those in the future assigned to Condition Code A will remain in that condition until:

(a) The component is proven to be unserviceable by failure to pass prescribed tests or inspections in accordance with the applicable Overhaul, Screening, Repair (OSR) procedures provided by the In-Service Engineering Agent, the Naval Mine Warfare Engineering Activity (NAVMINWARENGACT), Yorktown, VA.

(b) Specific lot identities are directed for transfer to other material condition codes by NAVMINWARENGACT.

(c) Component lots exceed the shelf-life time limits specified in enclosure (1).

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(2) Service mine components which are assigned material Condition Code A and which are non-deteriorative will be issued as Code A without further test and inspection.

(3) Components listed in enclosure (1) which have been manufactured or satisfactorily overhauled within the established storage time span indicated in this instruction will be issued as material Condition Code A without further test and inspection. However, no component shall be issued unless it has sufficient life remaining to cover the transit time to installation plus installed mine life. All applicable components which exceed the storage time span must be transferred by the stocking activity to Condition Code F (Repairable), Condition Code J (Suspended), or Condition Code H (Condemned). Material listed in enclosure (1) will not be subject to any other material condition coding in actions incident to this instruction.

(a) When a component is assigned to Code F in accordance with the time span listed in enclosure (1), the component can only be returned to Code A by treating it under the pertinent OSR procedures. A new time span, per enclosure (1), begins upon satisfactory completion of the OSR procedures.

(b) When a component is assigned to Code J in accordance with the time span listed in enclosure (1), the component can be returned to Code A for an additional maintenance cycle, per enclosure (1), by successfully meeting the screening requirements of the pertinent OSR. Components marked with an asterisk in enclosure (1) contain items such as explosives or electrolytic timing cells that require additional evaluation to ensure serviceability. In addition to the screening requirements of the pertinent OSR, a designated sample quantity of these one-shot components will be subjected to a functional test under laboratory conditions for verification of energy output or other operations, in accordance with the requirements of reference (b). Components not meeting the above requirements must be assigned Code F or H as appropriate. During increased readiness operations or situations where Fleet readiness will be adversely impacted by asset shortages, special evaluations on samples of explosive devices may be waived by NAVMINWARENGACT for one maintenance cycle based on pertinent OSR results. (A

(c) When a component is assigned to Code H in accordance with the time span listed in enclosure (1), appropriate action must be taken to dispose of the component.

b. CONUS activities contemplating any action which deviates from the instructions in paragraph 5a(1) through 5a(3) because a component falling within the time span of enclosure (1) is suspected of being unserviceable, will defer action pending consultation with NAVMINWARENGACT. In this connection, CONUS activities will provide to NAVMINWARENGACT the identity and quantity of the component and the reasons why the component is suspect.

c. NAVMINWARENGACT

(1) Provide to CONUS activities, as required, the OSR procedures for deteriorative service mine components.

(2) Advise CONUS activities of actions to take with respect to service mine components suspected of being unserviceable. Paragraph 5b applies.

(3) Conduct continuing evaluations of service mine component information derived from the quality evaluation program for in-service munitions, the mine maintenance program, In-Water Reliability Evaluations (IREs), and special laboratory and field tests.

(4) Make appropriate recommendations periodically, based on the evaluations of service mine components, to the Naval Sea Systems Command (PMS407) concerning revisions to enclosure (1).



R. H. AILES
Deputy Commander for
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STORAGE TIME LIMITS
FOR
DETERIORATIVE SERVICE MINE COMPONENTS

<u>ITEM</u>	<u>NSN</u>	<u>NALC</u>	<u>TIME SPAN</u> <u>(Years)</u>	<u>OVERAGE</u> <u>CONDITION</u> <u>CODE</u>
Adapter, Target Detecting Device				
Mk 123 Mod 0	6T1350010952706		10	F
Mk 141 Mod 0	6T1350011602967	7W20	10	F
Arming Bar				
Dwg 3015637	6T1350LLHDBM266		5	F
Arming Device				
Mk 2 Mod 7	6T1351012404341	R780	15	F
Mk 5 Mod 1	2T1351008295376	R701	20	F*
Mk 10 Mod 0	2T1351009685335	R703	20	F*
Mk 11 Mod 0	2T1351007307941	R702	20	F*
Mk 11 Mod 2	2T1351010941376	R718	15	F
Mk 32 Mod 1	6T1351004778846	RW15	20	F* (R)
Mk 32 Mod 2	6T1351012175344	R758	20	F* (R)
Auxiliary Control Unit				
Mk 188 Mod 0	6T1350011602969	7W17	10	F
Battery				
Mk 124 Mod 0	6T6135010386225	GW16	15	J*
Mk 125 Mod 0	6T6135010386115	GW17	15	J*
Mk 126 Mod 0	6T6135010594054		15	J*
Mk 131 Mod 0	6T6134010961451	WW70	10	J*
Mk 132 Mod 0	6T6135010961452	WW71	15	J*
Mk 133 Mod 0	6T6135010961391	WW72	15	J*
Mk 134 Mod 0	6T6135010952556	KW97	15	J*
Mk 144 Mod 0	6T6135011667355	7N31	15	J*
Booster				
Mk 18 Mod 2	2T1351000687548	R704	15	J*
Mk 59 Mod 0	6T1351001192704	UW93	15	J*
Button				
Dwg 3138529	6T5340LLHDBM273		15	F
Cable Assembly				
CA-70	2T1350009686337	RA03	15	J
CA-71	2T1350007307936	RA05	15	J
CA-72	2T1350007307935	RA07	15	J
CA-73	2T1350009658338	RA09	15	J

<u>ITEM</u>	<u>NSN</u>	<u>NALC</u>	<u>TIME SPAN (Years)</u>	<u>OVERAGE CONDITION CODE</u>
CA-78	2T1350008586782	RA11	15	J
CA-80	2T1350008957009	RA12	15	J
CA-88	2T1350008957008	RA13	15	J
CA-89	2T1350008957010	RA15	15	J
CA-449	2T1350008957011	RA41	15	J
CA-450	2T1350008957012	RA42	15	J
CA-832	2T1350000386068	RA56	15	J
CA-833	2T1350000386069	RA58	15	J
CA-835	2T1350000386071	RA62	15	J
CA-836	2T1350000386072	RA64	15	J
CA-949	2T1350000386114	RA68	15	J
CA-951	2T1350000386116	RA72	15	J
CA-952	2T1350000386117	RA74	15	J
CA-1135	No NSN		15	F
CA-1218	6T1350010952557	RB23	15	F
CA-1222	2T1350010173074	RA98	15	J
CA-1223	2T1350010044386	RA97	15	J
CA-1269	2T1350010173073	RA99	15	J
CA-1332	6T1350011918878		15	F
CA-1354	7H4921012272422		15	F
CA-1366	6T1350011603156	RB32	15	F
CA-1367	6T1350011603155	RB33	15	F
CA-1368	6T1350011603154	RB34	15	F
CA-1369	6T1350011911520		15	F
CA-1370	6T1350011603153	RB35	15	F
CA-1371	6T1350010961392	RB24	15	J
CA-1372	6T1350012178719		15	F
CA-1387	6T1350011328137	RB28	15	J
CA-1398	6T1350011925401	RB47	15	J
CA-1406	6T1350011488521	RB29	15	J
CA-1408	6T1350012202817		15	F
CA-1415	6T1350012386099	2W68	15	J
CA-1416	6T1350012386100	2W69	15	J
CA-1832	2T1350009618487	RA85	15	J
CA-1833	2T1350009618488	RA87	15	J
CA-1835	2T1350009618490	RA91	15	J
CA-1836	2T1350009618491	RA93	15	J

ENCLOSURE (1)

<u>ITEM</u>	<u>NSN</u>	<u>NALC</u>	<u>TIME SPAN</u> <u>(Years)</u>	<u>OVERAGE</u> <u>CONDITION</u> <u>CODE</u>
Capacitor, Firing Dwg 0542134N	2T1350006715173	UJ25	20	J (R)
Case Assembly, Lower Dwg 3016287	6T1350010511153	EW90	15	F
Case Assembly, Upper Dwg 3016286	6T1350010440914	EW91	15	F
Circuit Breaker Mk 1 Mod 0	2T1350000386710	BW83	20	F (R)
Clamp Dwg 3138099	6T5340LLHDBM272		15	F
Clock Delay Mk 21 Mod 0	2T1350009755121	R217	15	J* (R)
Mk 22 Mod 0	2T1350000667510	R218	20	J* (R)
Mk 22 Mod 1	2T1350000667511	R219	20	J* (R)
Mk 30 Mod 0	2T1350011203982	R222	15	J* (R)
Compensator, Dept Mk 3 Mod 0	2T1350000386740	R270	15	F (R)
Control Box Mk 30 Mod 1	2T1350007070659	R276	15	J (R)
Counter, Actuation Mk 10 Mod 0	2T1350000387584	R584	5	F
Mk 10 Mod 1	2T1350008959756	R301	5	F
Mk 10 Mod 2	2T1350004713612	R589	5	F
Mk 10 Mod 3	2T1350005913539	R590	5	F
Mk 10 Mod 4	2T1350005913555	R591	5	F
Delay Element Mk 21 Mod 1	6T1350012348558	2W53	15	J
Mk 21 Mod 2	6T1350012348559	2W54	15	J
Depth Control Unit Mk 78 Mod 0	2T1350008959755	UJ83	10	J
Mk 78 Mod 1	2T1350005803136	CW68	10	J

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Detector, Magnetic Pole Mk 10 Mod 0	2T1350008957015	UJ87	15	J
Detector, Pressure Mk 1 Mod 0	2T1350000386842	R296	15	J
Detonator Assembly Mk 57 Mod 2	6T1351010386204	R769	15	J*
Detonator, Electric Mk 46 Mod 1	2T1351000930658	R766	20	J* (R
Driver, Explosive Mk 2 Mod 1	2T1351008981942	UJ89	20	J (R
Mk 4 Mod 0	2T1351008957038	UJ91	20	J (R
Extender Mechanism Mk 14 Mod 2	2T1350000386871	R317	20	F (R
Firing Mechanism Mk 11 Mod 4	2T1350000387038	R385	20	F (R
Mk 20 Mod 0	2T1350000387046	R393	10	J
Mk 20 Mod 1	2T1350007070628	R394	10	J
Mk 22 Mod 1	2T1350007157998	R396	10	J
Mk 26 Mod 1	2T1350009281940	R401	15	J
Mk 42 Mod 4	6T1350010272266	EW31	4	J
Mk 42 Mod 6	6T1350010840146	KW91	4	J
Fitting, Explosive Mk 9 Mod 0	2T1351008957024	UJ92	20	J* (R
Mk 18 Mod 0	2T1351008957025	UJ93	20	J* (R
Mk 26 Mod 0	6T1351010351699	EW38	15	J*
Mk 26 Mod 1	6T1351011356848	YW89	15	J*
Mk 27 Mod 0	2T1351009174176	UF56	20	J* (R
Mk 30 Mod 0	6T1351010386117	GW25	20	J* (R
Mk 31 Mod 0	6T1351010386118	GW26	20	J* (R
Mk 32 Mod 0	6T1351010386119	GW27	20	J* (R
Mk 34 Mod 0	6T1351010386120	GW28	20	J* (R
Flag Actuator Dwg 3186737	6T1350012395302		15	F

ENCLOSURE (1)

<u>ITEM</u>	<u>NSN</u>	<u>NALC</u>	<u>TIME SPAN (Years)</u>	<u>OVERAGE CONDITION CODE</u>
Guide Block, Aft Dwg 3015651	6T1350LLHDBM267		15	F
Guide Block Assembly Dwg 3015456	6T1350010351702	EW41	15	F
Hydrostat Mk 4 Mod 1	2T1350009685344	R447	15	F
Kit, Mine Flight Gear Mk 160 Mod 0	6T1351012082477	1W32	15	J
Knob Dwg 3015859	6T1355LLHDBM269		15	F
Primer, Electric Mk 159 Mod 0	6T1351010600022	R805	15	J*
Propellent Assembly Dwg 3014502	2T1351004323218	RW24	5	J*
Dwg 3014503	2T1351004323220	RW25	5	J*
Rope, Wire WS 14014	6T135010010400593		15	F
Safety Device, Arming Group Mk 45 Mod 1	6T1350012381282	2W63	2-1/2	J
Squib, Electric Mk 16 Mod 0	6T1351010608570	KW49	15	J*
Sterilizer Mk 10 Mod 0	2T1350000387697	R607	15	J*
Mk 10 Mod 2	2T1350005913567	R600	15	J*
Switch, Hydrostatic Mk 41 Mod 0	2T1350009685349	UW52	15	F
Mk 42 Mod 0	2T1350008967060	UK02	15	F
Mk 110 Mod 0	2T1350000667512	YW88	20	F (R

ENCLOSURE (1)

<u>ITEM</u>	<u>NSN</u>	<u>NALC</u>	<u>TIME SPAN (Years)</u>	<u>OVERAGE CONDITION CODE</u>
Timing Element				
Mk 1 Mod 0	2T1350000387724	BW76	15	J*
Mk 4 Mod 0	2T1350009490060	YW04	15	J*
Target Detecting Device				
Mk 57 Mod 0	6T1350010894889	GW53	10	F
Mk 57 Mod 1	6T1350011246766	YW13	10	F
Mk 58 Mod 0	6T1350012065914	9W83	10	F
Tail Section				
Mk 7 Mod 1	6T1351012366316	2W61	15	F
Mk 11 Mod 1	6T1351012036113	1W20	15	J
Mk 12 Mod 0	6T1351011987046	1W03	15	J
Valve, Flood				
Mk 10 Mod 0	6T1350011911525	9W47	5	J
Mk 10 Mod 1	6T1350011911513	9W37	5	J
Washer, Soluble				
Dwg 1389172	2T1350000387687	UC45	10	H

* Refer to Paragraph 5a(3)(b) of basic instruction.