

MIL-C-82662
 AMENDMENT 4
28 January 1981
 SUPERSEDING
 AMENDMENT 3
 16 May 1980

MILITARY SPECIFICATION

CATAPULT, AIRCRAFT EJECTION SEAT,
 CKU-5/A ASSEMBLY

This amendment forms a part of Military Specification MIL-C-82662, dated 31 January 1977, and is approved for use by all Departments and Agencies of the Department of Defense.

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- * 2.1 After "MIL-STD-810 Environmental Test Standards", insert:
 "MIL-STD-1168 Ammunition Lot Numbering"

- 2.1 Under "DRAWINGS: Insert:

"Naval Air Systems Command (Code Ident 30003)
 736AS159 Shear Pin"

Under "Naval Ordnance Station, Indian Head (Code Ident 14083)": Insert

"DL 11743975 List of Drawings, Catapult Aircraft
 Ejection Seat, CKU-5/A Assembly"

Delete: "11740613 Shear Pin

11820861 Box, Packing, Catapult, Aircraft Ejection
 Seat, CKU-5/A

11820862 Box, Fiberboard (Inner) Packing, Catapult,
 Aircraft Ejection Seat, CKU-5/A"

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- * 3.3.1 Delete and substitute:

"3.3.1 Explosive components. All explosive components, including but not limited to ignition powders and igniters, shall be manufactured within the 12 months prior to the contract scheduled delivery date for the assembly lot. Primers shall be manufactured or requalified within the 12 months prior to the contract delivery date for the assembly lot.

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- * 3.3.2 Change "... catapult assemblies lot." to "... assembly lot."

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3.4.1.1(c), Change "No abnormal nozzle erosion ..." to "No excessive erosion ...".

TABLE I:

Change rocket motor ignition delay from "50 ms" to "30 ms" at all three temperatures.

Change "Action time (ms)" to "Action time (ms)##".

Add note at bottom of table: "## Nominal rocket motor action time at 70°F is 350 ms."

Change rocket motor thrust angle (reference) from "58°" to "54°" at all three temperatures.

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3.6: Delete and substitute:

"3.6 Shear pin strength. Each lot of shear pins in accordance with drawing 736AS159-2 shall be tested in accordance with 4.5.7. Shear pins shall shear (double shear) when subjected to a load of 58 - 63 lbs applied at a rate of .125 inches per minute."

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Add: "3.11.4 Thirty (30) day storage test. The rocket catapult shall be capable of withstanding the thirty (30) day storage test of 4.4.1.4."

- * 3.13.1 Delete and substitute:

"3.13.1 Production lot designation. The production lot number shall follow MIL-STD-1168. The construction of the lot number shall be as follows:

IHM75D002-007
| | | | |
a b c d e

where:

- a = Manufacturer's Identification Code
- b = The year of manufacture of the oldest batch of propellant in the lot.
- c = The month of manufacture of the oldest batch of propellant in the lot expressed as an alpha code in accordance with 4.1.3 of MIL-STD-1168.

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d = Lot interfix number (controlled by Naval Ordnance Station, Code 5151, Indian Head, MD 20640 or procuring activity).
e = Lot sequence number - lot number (manufacturer is responsible for the assignment of lot numbers)"

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4.4, line 2: Delete "sample of 12" and substitute "sample of 18".

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TABLE III. Delete and substitute new TABLE III.

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Add: "4.4.1.4 Thirty (30) day storage. Three units shall be placed in storage at -65° and three at $+165^{\circ}$ F for 30 days each. Insuring that the proper temperature is maintained shall be the only attention required outside normal working hours."

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4.5.2.3, after first sentence, add: "Samples shall be chosen by Naval Ordnance Station, Indian Head, Maryland, personnel or by a designated government representative upon completion of the production lot assembly."

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4.5.6.2: Delete line 7 and substitute: "particle, penetrant, or radiographic inspection as specified, per 4.5.6.3, 4.5.6.4 and 4.5.6.4.1."

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Add: "4.5.6.4.1 Radiographic inspection. In lieu of penetrant inspection per 4.5.6.4, the breach may be radiographically inspected in accordance with MIL-STD-453."

4.5.7, line 3: Delete " 41 ± 5 lbs." and substitute "58 - 63 lbs. (double shear)."

5.1.1, line 2: Delete "... drawings 11820861 and 11820862..." and substitute "... drawings listed on DL11743975 ...".

TABLE III. First article evaluation test program. 1/

TEST PARA	TEST	UNIT NUMBER																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
4.5.6.1	Radiographic Inspection	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
4.4.1.1	High Temperature	b	b	b	b	b													
4.4.1.2	Vibration -65°F					b	b	b											
4.4.1.2	Vibration +165°F								b	b									
4.4.1.4	30 Day Storage -65°F												b	b					
4.4.1.4	30 Day Storage +165°F																b	b	b
4.5.6.1	Radiographic Inspection	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c
4.4.1.3	Temp Shock	d	d	d	d	d	d	d	d	d	d	d							
4.5.6.1	Radiographic Inspection	e	e	e	e	e	e	e	e	e	e	e							
4.4.2	Ballistic Test -65°F	f	f				f			f				d			d		
4.4.2	Ballistic Test +70°F			f	f			f			f				d			d	
4.4.2	Ballistic Test +165°F				f	f		f		f		f				d			d

1/ Letters denote sequence of testing.

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5.2, line 3: Delete "... drawings 11820861 and 11820862 ..." and substitute "... drawings listed on DL11743975 ...".

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6.3.2, line 3: Delete "... and 4.5.5 (contractor)." and add "... and 4.5.5.1 (contractor)."

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6.4.6, line 4: Delete "from 6 inches before to 6 inches after separation" and substitute "from separation to 12 inches after separation".

Marginal notation. The margins of this amendment are marked with an asterisk to indicate where changes (additions, modifications, corrections, deletions) from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of the document based on the entire content irrespective of the marginal notation and relationship to the last previous issue.

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