



CAD/PAD International Logistics Meeting (ILM)

PACKAGING FOR RETIRING AIRCRAFT Naval Packaging Handling Storage and Transportation (PHST) Center

Capt. Scott H. Kraft, USN
Commanding Officer

Mr. Ashley G. Johnson, SES
Technical Director

- 11 June 2019 -



AGENDA

- Proper Packaging is Important
- No Packaging? Now What?
- Getting Help from Others
- Conclusion
- Questions

Proper Packaging is Important

- It's the Law
 - Code of Federal Regulations (CFR) 49
 - International Aviation Transportation Association (IATA)
 - International Civil Aviation Organization (ICAO)
- Safety is a Priority
 - Performance oriented packaging (POP) testing
 - Hazard classification
- Naval PHST Center
 - Tests and qualifies packaging
 - Writes special packaging
 - Instructions



Proper Packaging is Important



Adrian Acord - [SPI-PRST-202.pdf]

SPECIAL PACKAGING INSTRUCTION (SPI)
(DEVELOPED IN ACCORDANCE WITH MIL-STD-2073-10)
NAVAL PACKAGING HANDLING, SHIPPING AND TRANSPORTATION (PHST) CENTER
NAVAL SURFACE WARFARE CENTER INDIAN HEAD DIVISION (PHST) CENTER
HIGHWAY 34 SOUTH, COLTS NECK, NEW JERSEY 07723-0033
<http://www.navsea.navy.mil/naasw/naasw.html>

1. SPI NUMBER SPI-PRST-202	2. ORIGINAL SPI DATE 2003 SEPTEMBER 30	3. CURRENT REVISION NONE	4. NATIONAL SPI NUMBER MULTIPLE
5. PRESTANDARD NUMBER MULTIPLE	6. CASE INDIVIDUAL	7. NONVOLATILE CARTRIDGE ACTIVATED DEVICE (ICAD)	8. UNIT OF ISSUE EACH
9. QTY PER UNIT PACK NOT TO EXCEED UNIT PACK WEIGHT AND DIMENSIONS OF BOX (SEE 15A) (1)	10. UNIT PACK WEIGHT (LBS) 30.00 LBS	11. UNIT PACK CUBE (CU FT) 2.4 CU FT	12. UNIT PACK OUTSIDE DIMENSIONS (INCHES) 15.00 IN. x 15.00 IN. x 15.00 IN.
13. METHOD OF PRESERVATION 22 ITEM IN SEALED PROTECTIVE BAG IN A SEALED CONTAINER, PER MIL-STD-2073-10 APPENDIX J	14. KID 1	15. SPECIAL MARKING S1 PER MIL-STD-2073-10 APPENDIX J	16. UNIT OF ISSUE EACH
17A. LEVEL A PACKING AS REQUIRED	17B. LEVEL B PACKING AS REQUIRED	17C. LEVEL C PACKING AS REQUIRED	17D. LEVEL D PACKING AS REQUIRED
18. SHIPPING CONTAINER HEIGHT (LBS) SEE BLOCK 10	19. SHIPPING CONTAINER CUBE (CU FT) SEE BLOCK 12	20. BILL OF MATERIALS SEE BLOCK 13	21. SHIPPING CONTAINER OUTSIDE DIMENSIONS (INCHES) SEE BLOCK 13
ITEM NO.	QUANTITY REQD	MATERIAL DESCRIPTION	NOTE
1	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
2	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
3	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
4	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
5	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
6	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
7	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
8	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
9	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
10	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
11	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
12	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
13	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
14	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
15	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
16	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
17	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
18	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
19	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
20	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
21	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
22	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
23	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
24	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
25	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
26	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
27	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
28	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
29	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
30	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
31	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
32	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
33	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
34	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
35	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
36	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
37	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
38	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
39	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
40	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
41	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
42	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
43	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
44	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
45	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
46	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
47	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
48	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
49	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
50	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
51	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
52	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
53	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
54	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
55	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
56	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
57	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
58	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
59	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
60	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
61	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
62	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
63	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
64	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
65	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
66	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
67	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
68	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
69	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
70	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
71	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
72	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
73	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
74	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
75	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
76	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
77	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
78	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
79	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
80	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
81	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
82	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
83	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
84	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
85	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
86	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
87	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
88	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
89	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
90	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
91	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
92	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
93	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
94	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
95	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
96	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
97	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
98	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
99	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.
100	1	1. REPAIRING BOX	15.00 IN. x 15.00 IN. x 15.00 IN.



No Packaging? Now What?

- For CADS used on F/A-18 aircraft, most can be packaged in an ammo can per SPI-PHST-203
 - Mixing of CADs within the same can is authorized



PUBLIC RELEASE 18-044

Distribution Statement A (19-069): Approved for Public Release. Distribution unlimited.

No Packaging? Now What? (con't)

- For shielded mild detonating cords (SMDC), most can be packaged in a fiberboard box per SPI-PHST-212



No Packaging? Now What? (con't)

- For under seat rocket motors (USRM), most can be packaged in a commercial-off-the-shelf (COTS) wood crate per SPI-PHST-222



No Packaging? Now What? (con't)

- For CADs used on other aircraft besides F/A-18, packaging in a COTS paint can per SPI-PHST-316 can be considered



No Packaging? Now What? (con't)

- Nonstandard Pack Letters
 - What are they?
 - Approval from the PHST Technical Warrant Holder to use alternate packaging
 - When are they appropriate?
 - When all other alternatives have been exhausted and there is an urgency to ship
- Nonstandard pack letters are only effective for a limited quantity or specific time period

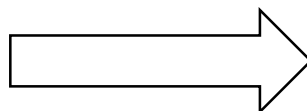
No Packaging? Now What? (con't)

How to get a nonstandard pack letter:

- Send email to: cpvfsFleetReturns@navy.mil
- Provide:
 - DODIC
 - Condition Code
 - Quantity
 - Destination (Ordnance Assessment/DEMIL)
 - Picture of current packaging helpful
- May propose packaging currently available on site

No Packaging? Now What? (con't)

- Example of need for nonstandard pack letter
 - EA-6B retired to museum in Ohio with CADs
 - SS67 cataloged as one per wood box
 - Original wood box not available
 - Nonstandard pack ltr. authorized four SS67s per COTS wood crate per SPI-PHST-222



Distribution Statement A (19-069): Approved for Public Release. Distribution unlimited.

Getting Help From Others

- Contact Naval Surface Warfare Center
Indian Head EOD Technology Division (NSWC IHEODTD) CAD/PAD
program as early as possible via email at
cpvfsFleetReturns@navy.mil
- For MILSTRIPs/destination instructions – Attn: NAVSUP
- For packaging information – Attn: PHST Center
- Contact your closest Weapons Station or Reserve Unit for supplies,
information and direction
- Please note:
 - **NSWC IHEODTD does not have any packaging supplies or
containers in inventory to provide.**
 - **Local procurement is necessary.**

Conclusion

PROPER PACKAGING IS IMPORTANT!

SPIs for RETIRING AIRCRAFT

F/A-18 CADS	- SPI-PHST-203
SMDCs	- SPI-PHST-212
USRMs	- SPI-PHST-222
CADs (other aircraft)	- SPI-PHST-316

If none of the above, then NONSTANDARD PACK LTR

Reach out for help early at cpvfsFleetReturns@navy.mil



Questions?