



## CAD/PAD International Logistics Meeting (ILM)

### F/A-18 Platform Status and Training

**Capt. Scott H. Kraft, USN**  
**Commanding Officer**

**Mr. Ashley G. Johnson, SES**  
**Technical Director**

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# State of the Platform

- BLUF: The F/A-18 program is a logistically challenging program that continues to be plagued by stock shortage, conventional ordnance deficiency (CODR), extension production times, and continued production line support
  - Continued production delays of the WB55 and WB56 Delay cartridges, strictly manage all fleet request
  - Continued production delays of detonating cord sets (TLX) and TLX lines
  - Currently in production of shielded mild detonating cord (SMDC) Sets and SMDC lines
  - CWDR status update
  - SR95 status update

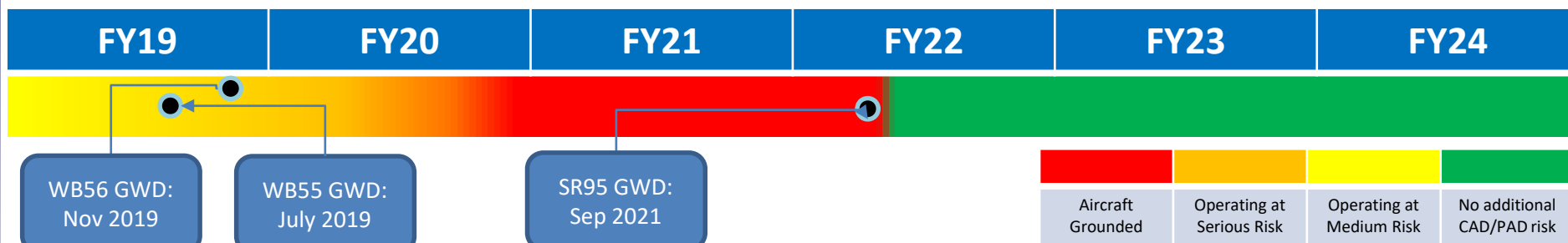


# Agenda

- Platform Department of Defense Identification Code (DODIC) Summary
- Interim Rapid Action Changes (IRAC)
- Service Life Extensions (SLE)
- CODRs
- DODIC Status
- Questions



# F-18 CAD/PAD Summary



| Critical DODICs                          | Issue  | Potential or Current Impact   |
|--|--|---|
| SR95<br>EA-18/F-18 DFIRS                 | <b>Contract award and delivery delays</b> <ul style="list-style-type: none"> <li>- Up to three years to award contract; requirements nearly five years late in delivery</li> <li>- Non man-rated</li> </ul>  | Service life extensions (SLE) to mitigate shortages (DFIRS system is not man-rated)   |
| WB56 (SCID)* NACES*<br>2-seat 0.75 Delay | <b>Production</b> <ul style="list-style-type: none"> <li>- Vendor has more demand than resources</li> <li>- WB56 production pending WB55 completion</li> <li>- *Small Column Insulated Delay (SCID)</li> <li>- *Navy Aircrew Common Ejection Seat (NACES)</li> </ul> | If deliveries are delayed program office coordination required for service life extensions (SLE).<br>Decreased RIK availability of stock.   |
| WB55 (SCID)<br>NACES<br>0.315 Delay      | <b>Production</b> <ul style="list-style-type: none"> <li>- Similar items had test failures and production halted due to quality escapes delaying deliveries</li> <li>- Several items competing for priority from single production line</li> </ul>                   | If deliveries are delayed program office coordination required for SLE. Decreased RIK availability of stock.<br>Currently on six month HRA. |



# F-18 CAD/PAD Summary

FY19

FY20

FY21

FY22

FY23

FY24

CWDR GWD:  
Aug 2020

MW19 GWD:  
May 2020

Aircraft  
Grounded

Operating at  
Serious Risk

Operating at  
Medium Risk

No additional  
CAD/PAD risk

## Critical DODICs

## Issue

## Potential or Current Impact

**CWDR  
NACES Thermal Battery**

**Obsolescence**  
- Obsolescence issues hindering future procurements.

If deliveries are delayed program office coordination required for SLE.  
Decreased RIK availability of stock.

**MW19  
SEAWARS**

Fleet not keeping proper records of Open/Install dates.  
Production Line needs to send their requirements to ensure units are procured.  
Production issues causing major delays.

If deliveries are delayed Program Office coordination required for SLE.  
Decreased RIK availability of stock.  
Production line coming in at a rapid speed requesting stock.

### Actions in process to get well

- Working with fleet to prioritize change-outs and return assets to NSWC IHEODTD for OA
- SLE to keep aircraft operational

### Help Needed

- Fund requirements for active aircraft that exceed A-II budget exhibit quantities (inc. out-years).
- Send CAD/PAD Adv. procurement funding for production line aircraft in time for contracts to provide deliveries by need date
- Program office assistance with overall service life extension on deployable flight incident recorder sets (DFIRS)



# IRACs

- **IRAC #145, OCT 2018**
- Service Life Exceptions for DODIC MF72 and XW57
  - DODIC MF72 permanently changed the shelf life from 192 to 204 months and changed the installed life from 120 to 132 for lots with prefix (SCN or CHG) only. All other MF72 lots remain unchanged at 192 months shelf and 120 months installed.
  - DODIC XW57 permanently changed the shelf life from 159 to 183 months and change the installed life from 96 to 108 months for lots with prefix (UCO, OAC, OEA, OR UPC) only. All other XW57 lots remain unchanged at 159 months shelf and 96 months installed.
- **IRAC #146, DEC 2018**
- SERVICE LIFE EXCEPTIONS for DODIC XW72 and CWDR
  - DODIC XW72 permanently changed the shelf life from 192 to 216 months for lots with prefix MSV only. All other XW72 lots shelf life remains unchanged at 192 months. Permanently changed the installed life from 96 to 120 months for lots with MSV only. All other XW72 lots installed life remains unchanged at 96 months
  - DODIC CWDR permanently changed the shelf life from 120 to 144 months. Permanently changed the installed life from 96 to 120 months.

# SLEs

Navy had 728 SLE requests from June 2018 to March 2019

| DODIC | Approved Beyond | Approved | Limited Approval | Denied | Total |
|-------|-----------------|----------|------------------|--------|-------|
| AWAR  | 0               | 1        | 1                | 0      | 2     |
| AWAS  | 0               | 10       | 0                | 0      | 10    |
| AWAV  | 0               | 1        | 0                | 0      | 1     |
| CWDR  | 0               | 62       | 7                | 0      | 69    |
| JL42  | 0               | 6        | 1                | 0      | 7     |
| JL43  | 0               | 8        | 0                | 0      | 8     |
| JL44  | 0               | 5        | 1                | 0      | 6     |
| JL97  | 0               | 10       | 0                | 0      | 10    |
| JL98  | 0               | 6        | 0                | 0      | 6     |
| JL99  | 0               | 22       | 0                | 0      | 22    |
| JM01  | 0               | 24       | 0                | 0      | 24    |
| MC50  | 0               | 17       | 1                | 0      | 18    |
| MD65  | 0               | 1        | 0                | 0      | 1     |
| MD68  | 0               | 1        | 0                | 0      | 1     |
| MF72  | 0               | 8        | 1                | 3      | 12    |





# SLEs (con't)

Navy had 728 SLE requests from June 2018 to March 2019

| DODIC | Approved Beyond | Approved | Limited Approval | Denied | Total |
|-------|-----------------|----------|------------------|--------|-------|
| MG94  | 0               | 3        | 0                | 0      | 3     |
| MG98  | 0               | 2        | 0                | 0      | 2     |
| MH07  | 0               | 2        | 1                | 3      | 6     |
| MH23  | 0               | 1        | 0                | 0      | 1     |
| MH26  | 0               | 1        | 0                | 0      | 1     |
| MH36  | 0               | 4        | 0                | 0      | 4     |
| MH37  | 0               | 4        | 0                | 0      | 4     |
| MH38  | 0               | 4        | 0                | 0      | 4     |
| MH41  | 0               | 1        | 0                | 0      | 1     |
| MJ98  | 2               | 34       | 5                | 5      | 46    |
| MS69  | 0               | 113      | 0                | 1      | 114   |
| MS73  | 0               | 3        | 0                | 0      | 3     |
| MT13  | 1               | 22       | 4                | 1      | 28    |
| MT16  | 0               | 41       | 4                | 0      | 45    |





# SLEs (con't)

Navy had 728 SLE requests from June 2018 to March 2019

| DODIC | Approved Beyond | Approved | Limited Approval | Denied | Total |
|-------|-----------------|----------|------------------|--------|-------|
| MT29  | 0               | 8        | 1                | 9      | 18    |
| MT30  | 0               | 1        | 0                | 0      | 1     |
| MT31  | 0               | 10       | 0                | 0      | 10    |
| MT88  | 0               | 3        | 0                | 0      | 3     |
| MT89  | 0               | 2        | 0                | 0      | 2     |
| MT91  | 0               | 23       | 0                | 1      | 24    |
| MT98  | 0               | 1        | 0                | 0      | 1     |
| MH38  | 0               | 4        | 0                | 0      | 4     |
| MH41  | 0               | 1        | 0                | 0      | 1     |
| MW19  | 1               | 17       | 0                | 0      | 18    |
| SN98  | 0               | 7        | 0                | 0      | 7     |
| SR95  | 0               | 14       | 0                | 0      | 14    |
| SS49  | 0               | 3        | 0                | 0      | 3     |
| SS67  | 0               | 9        | 0                | 0      | 9     |
| WB15  | 0               | 2        | 1                | 6      | 9     |



# SLEs (con't)

Navy had 728 SLE requests from June 2018 to March 2019

| DODIC         | Approved Beyond | Approved   | Limited Approval | Denied    | Total      |
|---------------|-----------------|------------|------------------|-----------|------------|
| WB16          | 1               | 13         | 0                | 0         | 14         |
| WB19          | 0               | 1          | 0                | 1         | 2          |
| WB55          | 2               | 55         | 4                | 10        | 71         |
| WB56          | 0               | 25         | 6                | 1         | 32         |
| XW52          | 0               | 4          | 0                | 0         | 4          |
| XW53          | 0               | 9          | 0                | 0         | 9          |
| XW54          | 0               | 3          | 0                | 0         | 3          |
| XW55          | 0               | 3          | 0                | 0         | 3          |
| XW58          | 0               | 5          | 2                | 0         | 7          |
|               |                 |            |                  |           |            |
| <b>TOTALS</b> | <b>7</b>        | <b>640</b> | <b>40</b>        | <b>41</b> | <b>728</b> |



# CODRs (con't)

Platform has had 121 CODRs since June 2018 to March 2019

| <b>DODIC</b> | <b>DESCRIPTION</b>  | <b>QTY</b> |
|--------------|---------------------|------------|
| JL42         | Fire Ext Cartridges | 8          |
| JL43         | Fire Ext Cartridges | 5          |
| JL44         | Fire Ext Cartridges | 6          |
| JM04         | Cord, Detonating    | 1          |
| JM10         | Cord, SMDC          | 1          |
| JM11         | Cord, SMDC          | 1          |
| JM12         | Cord, SMDC          | 1          |
| JM14         | Cord, SMDC          | 2          |
| JM17         | Cord, SMDC          | 1          |
| MF72         | Initiator, Actuated | 2          |
| MG84         | Cord, SMDC          | 2          |
| MH04         | Cord, SMDC          | 1          |
| MH06         | Cord, SMDC          | 1          |
| MH11         | Cord, SMDC          | 1          |



# CODRs (con't)

| <b>DODIC</b> | <b>DESCRIPTION</b>  | <b>QTY</b> |
|--------------|---------------------|------------|
| MH13         | Cord, SMDC          | 1          |
| MH19         | Cord, SMDC          | 1          |
| MH26         | Cord, SMDC          | 1          |
| MH30         | Cord, SMDC          | 1          |
| MH32         | Cord, SMDC          | 1          |
| MH33         | Cord, SMDC          | 1          |
| MH36         | Cord, SMDC          | 5          |
| MH37         | Cord, SMDC          | 7          |
| MH38         | Cord, SMDC          | 11         |
| MH39         | Cord, SMDC          | 11         |
| MJ98         | Initiator, Actuated | 3          |
| MS71         | Cord, SMDC          | 1          |
| MT13         | Impulse Cartridge   | 2          |
| MT88         | Impulse Cartridge   | 1          |
| MT89         | Impulse Cartridge   | 6          |
| MU55         | Cord, SMDC          | 1          |
| MU57         | Cord, SMDC          | 1          |



# CODRs

| <b>DODIC</b>         | <b>DESCRIPTION</b>     | <b>QTY</b> |
|----------------------|------------------------|------------|
| SN97                 | Cord, Detonating       | 1          |
| SN98                 | Cord, Detonating       | 5          |
| SP06                 | Cord, Detonating       | 1          |
| SP07                 | Cord, Detonating       | 6          |
| SP08                 | Cord, Detonating       | 1          |
| SP10                 | Cord, Detonating       | 3          |
| SP11                 | Cord, Detonating       | 3          |
| SP15                 | Cord, Detonating       | 2          |
| SP16                 | Cord, Detonating       | 2          |
| SP17                 | Cord, Detonating       | 3          |
| SP18                 | Cord, Detonating       | 1          |
| SQ04                 | Mount Cutter Cartridge | 1          |
| SS49                 | Generator, Gas         | 1          |
| XW48                 | Impulse Cartridge      | 1          |
| XW55                 | Initiator, Actuated    | 1          |
| XW71                 | Switch, Actuated       | 1          |
| <b>Total Assets:</b> |                        | <b>121</b> |

**Replacement cost approximately:  
\$103.8k**

# WB56 Status

## Production

- WB56: Cartridge actuated initiator time delay, which supplies gas pressure for actuating various components used in the sequencing system of the aircraft, used on two seaters
- JAU-77/A, NSN: 1377-01-492-6470 P/Ns: 3205AS268 & 826852-04 EA-18G, FA-18B/D, NEA18G, NFA-18D

## Inventory/E-Stock

- NSWC IHEODTD stock inventory is limited inventory
- Only filling fleet requirements within 60 days of expiration date, unless aircraft will be deploying
- Continuing to work with the manufacturer to expedite future deliveries and issuing SLE's, if possible
- Currently have alternate source for digital inline timer (DIT)



# WB55 Status

## Production

- WB55: Cartridge actuated initiator is used as a time delay pressure booster, as well as a power source for the harness release initiator in the Aircraft Personnel Escape System
- JAU-76/A, NSN: 1377-01-492-6460 P/N: 826852-02 EA-18G, FA-18A,B,C,D,E,F, NEA18G, NFA-18C & D

## Inventory/E-Stock:

- NSWIC IHEODTD stock inventory is limited and actively controlled
- Only filling fleet requirements within 60 days of expiration date, unless aircraft will be deploying
- Per TYCOM direction, seat does not need to be pulled to change out the WB55's
- Continuing to work with the manufacturer to expedite future deliveries and issuing SLE's, if possible
- Currently have alternate source, DIT and MC50s
- Data supports additional extensions up to six months of SLEs



# TLX Sets and TLX Lines Status

## Production

- JL97, JL98, MU73, MU94 : TLX sets, detonating cord assembly (DCA) transfers the explosive stimulus required for DFIRS operation
- SP05, SP08, SP12, SP14: Individual TLX lines, DCA transfers the explosive stimulus required for operation of the DFIRS

## Inventory/E-Stock

- NSWC IHEODTD stock inventory is limited inventory
- Product recall and backlog
- Prioritization established, but contractor process and paperwork issues are causing major delays
- Continuing to work with the manufacturer to expedite future deliveries and issuing SLE's

# SMDC Sets and SMDC Lines Status

## Production

- AWAR, JM01, JL99, SS95: SMDC sets are used in the aircraft canopy emergency jettison system and seat ejection system
- MH24: Individual SMDC line is used in the aircraft canopy emergency jettison system and seat ejection system

## Inventory/E-Stock

- NSWIC IHEODTD Stock inventory is limited
- Production deliveries were delayed in FY18; the manufacturer is in production to delivery assets in FY19
- Continuing to work with the manufacturer to expedite future deliveries and issuing SLE's



# CWDR Status

## Production

- CWDR: Thermal battery
- Old design obsolete; no longer available for procurement
- Sole source vendor identified. New production units expected May 2020

## Inventory/E-Stock

- NSWC IHEODTD stock inventory is limited
- Expecting additional small delivery from prior vender
- Will maximize use of SLEs to maintain as much stock for production line and emergency replacement
- Issued a permanent service life change in Dec 2018 on IRAC 146 from 96 to 120 months installed and from 120 to 144 months shelf life

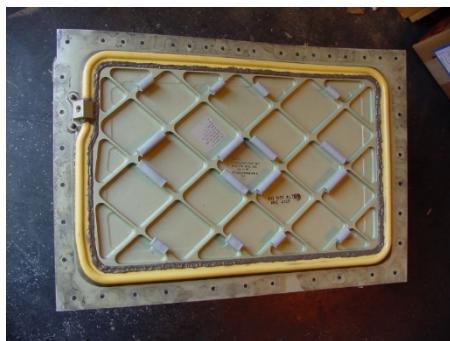
# SR95 Status

## Production:

- DFIRS doors contains a pyrotechnic assembly that severs the center section of the cover to permit deployment of the RD-633/A Signal Data Recorder
- Production: Vendor delays on delivery
- SLE: Have been providing 24 month extensions
- Investigating at increasing the service life limits
- Inventory/ E-Stock: Limited inventory

## Inventory/E-Stock:

- NSWC IHEODTD stock inventory is limited
- Will maximize use of SLEs to maintain as much stock for production line and emergency replacement



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# Questions ???