

Service Life Definition

- CAD/PADs are service life limited and must be replaced when expired.
- Most CADs have both a shelf life and an installed life.
- PADs have only a shelf life.
- CAD/PADs intended for aircraft/equipment installation also have a minimum shelf life.
- Aircraft/equipment must be grounded if expired CAD/PADs are not replaced or extended.

AUDIO: Service life is the period of time during which a CAD or PAD is allowed to be used. This period is affected by various environmental conditions which result in the necessity of assigning time limits designated as SHELF LIFE, INSTALLED LIFE, and MINIMUM SHELF LIFE. You can select the terms on the screen for detailed definitions of each term.

The establishment of service life limits is based upon development, qualification, lot acceptance, and fleet-retained quality evaluation tests. The established limits are assigned by the CAD PAD Program on behalf of the Commander, Naval Air Systems Command and shall be adhered to as specified.

When CADs and PADs expire, they must be replaced or extended. Otherwise the aircraft or equipment **MUST** be grounded!

Service Life

Service life is the specified period of time during which a CAD or PAD is allowed to be used.

Shelf Life

Shelf life is the period of time, beginning from the date of manufacture, that a CAD can remain in its environmentally sealed container and still be serviceable. The shelf life expiration date shall always be computed from the date of manufacture available from the lot number for the assembled device. Shelf life for a PAD device is the period of time between the date of propellant manufacture (as reflected in the Lot number for the rocket motor) and the expiration date.

Minimum Shelf Life

Minimum Shelf Life is the amount of time that must remain on CADs and PADs when issued from the primary and secondary stock points.

Installed Life

Installed life is the period of time a CAD is allowed to be used after its hermetically sealed container is opened; however, the installed life expiration date shall never exceed the shelf life expiration date. The installed life expiration date is computed from the date the environmentally sealed container is opened and is always computed to the last day of the month involved. Installed life is not applicable to PADs.

Service Life Determination

- Assigned Service Lives are based on:
 - Developmental test data
 - Qualification test data
 - Lot Acceptance Test data
 - Fleet-Return Quality Evaluation Test data

AUDIO: No maintenance check or inspection exists to prove CADs and PADs will perform in service when required. These devices must function perfectly when needed or the escape system or other critical emergency system may fail. The reliability of these devices is assured through the assignment of specific service lives.

Developmental and Qualification tests establish the performance criteria for each item and prove it will perform in its intended application. Testing is conducted and a service release is approved before the item is placed in production for service use. These tests establish acceptance criteria for production and lot acceptance.

A sample of each lot produced is test fired to ensure the lot performs to the criteria established during the development and qualification. A lot is accepted for service use only after a successful Lot Acceptance Test.

After service use, lots are recalled and test fired to the same development and qualification test criteria. The fleet returned test data provides the basis for validating assigned service lives and for changes or extensions.

Service Life Extension

- Waived only with IHDIV, NSWC /NAVAIR HQ approval.
- Types of extensions:
 - Automatic
 - Additional
 - World-Wide

AUDIO: The permanent service life of a CAD or PAD can be changed only by an Interim Change or revision to the NAVAIR 11-100 CAD PAD tech manual. Those of you using the technical manual on CD-ROM will receive an Interim Rapid Action Change or IRAC by Naval Message. You will need to follow the instructions in the IRAC for posting the changes. Changes to the WEB manual will be posted by Indian Head on your behalf.

Service life may be temporarily extended only in compliance with the procedures specified in the NAVAIR 11-100 1 point 1 tech manual. The following screens provide definition and procedures for the three types of extensions.

Automatic Service Life Extension

- Automatic service life extensions may be applied on a one-time-only basis when replacements are not available.
- The CAD/PAD program at IHDIV, NSWC must be notified prior to flight.
- Automatic extensions may only be applied to the original service life expiration date.
- Use procedures for additional extension to extend service life beyond the automatic.

AUDIO: Automatic service life extensions may be granted by the Commanding Officer, or his authorized alternate.

These extensions may be applied on a one-time-only basis to a specific CAD or PAD when replacements are not available and failure to extend the service life would disrupt flight operations.

Automatic, one-time extensions are contingent upon notification of the CAD PAD program at NSWC Indian Head prior to flight.

Automatic extensions apply only to the original service life expiration date.

Extension beyond the automatic shall be requested as specified in procedures for additional extension.

Additional Service Life Extension

- Additional extensions:
 - May extend service life beyond the initial automatic or world-wide extension.
 - Are dependent upon review of available qualification and Fleet-return test data.
 - Require IHDIV, NSWC approval prior to flight.

AUDIO: When the situation warrants, additional extension beyond the initial automatic or world-wide extension may be requested.

These extensions are dependent upon review of available qualification and Fleet-return test data and require NSWC Indian Head approval prior to flight.

World-Wide Service Life Extension

- Applied when there is a shortage of an individual CAD or PAD.
- Issued to the fleet, retransmitted by the TYCOMs.
- Available for download on the CAD/PAD Web page - <http://cadpad.ih.navy.mil>
- Includes date/time/group for logbook/history card entry.

AUDIO: If there is a severe shortage of an individual CAD or PAD, the CAD PAD program may issue a temporary world-wide extension to enable continued operations. World-wide extensions are issued to the Fleet, retransmitted by the Type Commanders. These extensions are available on the CAD PAD Web page – cadpad.ih.navy.mil and may be downloaded.

Three Methods of Requesting An Extension

Choose the type of extension request, VFS SLE provides a means to request an extension over the web. Email requests are done via email messages and naval message requests are done via naval message.

- VFS SLE
- Email
- Naval message

AUDIO:

If Web access is available within your command, all extensions shall be submitted through the CAD PAD VFS SLE system. These extensions are instantaneous, downloadable, and include an SLE number for logbook history card tracking.

If Web access is unavailable, but email is available within your command, all extensions should be submitted via email in accordance with local procedures. Automatic extensions via email shall be limited to 30 days.

If Web or email access is unavailable within your command, extensions shall be submitted via Naval message.

VFS SLE MENU

With VFS SLE, you can request a service life extension or run an SLE report. For aircraft/equipment not in the system, you can process a manual request where you provide all of the data.

- Extension Requests
- Manual Requests
- Reports

AUDIO: The VFS SLE module is accessible worldwide via a modem or LAN connection 24 hours a day, 7 days a week to all authorized users and is the preferred method for submitting an extension request. The SLE Module is a single repository to document, validate, track, and report extension requests .

It is a dynamic, interactive system that provides a user friendly, streamlined environment to facilitate, in real time, SLE functions.

Access to the Module is limited to individuals whose user identification and access levels have been established within the CAD PAD VFS system. These access levels ensure users can view and modify the information for CADs and PADs for their activity while ensuring integrity of the system by blocking unauthorized users from entry.

Select Extensions Requests for training on how to make a service life extension request.

Select Manual Requests for training on how to manually enter information for a service life extension request.

Select Reports for training on service life extension reports.

VFS Service Life Extension Requests (Page 1 of 5)

- As a general rule, all items can get a one-time automatic 30 day extension to extend the original service life expiration date. The web SLE extension module will check Indian Head's parameter database for approval. The parameters within the system are authorized by Indian Head engineers.
- If your extension falls within the parameters, it will automatically be approved, even if it is for more than 30 days.
- If it goes outside the parameters, your request will be forwarded to Engineering for approval. Engineering will post a response on the Internet within 1 to 5 days depending on the request type. You can see the updated statuses by using the SLE Report Module, which is one of the modules on the Main Module screen.
- Once your request is processed, a request result page will display.
- The result page emulates a naval message and serves as the formal authorization to extend the requested item.

VFS Service Life Extension Requests (Page 2 of 5)

The following is the Narration that will go with the interactive training screens:

- Use Internet Explorer Version 5.0 or higher to go to the VFS CAD/PAD Virtual Fleet Support Home Page.
- Click on the Log On button on the upper left portion of the screen.
- Type in your Login Name and Password and click the OK button.
- Click on the Module Menu button on the upper left portion of the screen.
- A list of modules for which you have access will display
- Click on the SLE Requests button to access the Service Life Extensions module.
- The CAD PAD Service Life Extension form will display in a separate Internet Explorer Window. A list of BUNO Tail Numbers will display based on who you are and where you are located. If a BUNO is missing from the list, it probably has not been reported in Traceability or the system has not received the Aircraft Transfer Authorization. In this case, you must use the Manual Request Process.

VFS Service Life Extension Requests (Page 3 of 5)

- Use your mouse to select a Request Type. This will set a priority for response from Indian Head when the request time frame is outside the parameters of the automated system's capabilities and warrants an engineering review. Op Immediately is 1 workday, Priority is 3 workdays, and Routine is 5 workdays. If you do not choose a request type, the default is Routine.
- Use your mouse to select a BUNO from the BUNO Tail Number list. Once highlighted, the BUNO number will transfer to the Selected BUNO list.
- All data for the selected BUNO, which are expiring within the next 24 months, will display in a table at the bottom of the screen. Some items, such as stores and release, are not tracked and will not be included in the table. Those items will need to be extended using the Manual Request Process.

VFS Service Life Extension Requests (Page 4 of 5)

- Select one or more items in the table that you wish to extend. You can select an item by placing your cursor in the far-left column to the left of the BUNO. When your cursor changes to a right arrow, you can left-click the mouse to select the row. The entire row will highlight when it is selected. To select an additional row, hold the Control key down while you click on the row. To select a range of rows, hold the Shift key down while you click on another row and all items in between will be selected.
- Click on the Select Rows button to reduce the items in the table to the selected items.
- If you included an item by mistake, you can select the item by clicking the column to the left of the BUNO number and clicking on the Delete Row button.
- Next you will need to fill in the “extend to” date and choose a reason.

VFS Service Life Extension Requests (Page 5 of 5)

- Place your cursor in the “extend to” box and click using the left button on your mouse. An arrow will display in the right side of the box. Click on the arrow and a calendar will display. The month and year displayed in the calendar will be the one with the current expiration date. Choose a new date from the calendar and that date will be copied to all of the extend to boxes in your data table. You may manually make changes to individual items, if desired. If you manually type in a date, use the Month Month Day Day Year Year date format.
- Next, pick a Reason for the extension. Place your cursor in the Reason box and click using the left button on your mouse. An arrow will display in the right side of the box. Click on the arrow and a list of reasons will display. Choose your reason from the list: local shortage, maintenance cycle, operational commitment, worldwide shortage, or other.
- Scroll down to bottom of screen and click the submit button to process your request.

VFS Manual Service Life Extension Request

(page 1 of 2)

This is the narration for Manual Requests (to go with interactive screen shots):

- A manual request is used only when the BUNO does not display in the BUNO Tail Number list or if the required DODIC does not appear in the data table for a selected BUNO.
- Click on the Manual Requests button on the service life request screen. The manual request form will display. All fields with the exception of Serial Number and Line Number must be completely filled out.
- First select the type of request, either Install or Shelf.
- Type in the BUNO for the aircraft in which the item is installed. If you are an FMS customer, input your case number without the dashes in place of the aircraft tail number.
- Click on the arrow in the DODIC field to display a list of DODICs for the BUNO you entered. Select from the list the DODIC you wish to extend.
- Enter the Serial Number, Line Number, Open Date, Install Date, Expiration Date, and Requested Extension Date.

VFS Manual Service Life Extension Request

(Page 2 of 2)

- Click on the arrow in the Reason box to display a list of valid reasons. Choose Local Shortage, Maintenance Cycle, Operational Commitment, Worldwide Shortage, One Time Flight, or Other.
- The Type of Aircraft will be filled in for you depending on the BUNO you entered.
- Type in the Incoming Message date time group.
- Choose the Request Type, either Contingency or Additional.
- The Activity is filled in for you, based on your user profile.
- After verifying that your data is correct, click on the SAVE button.
- You can click on the ADD NEW button to add another manual request .
- When you are finished click the DONE button .

VFS SLE Reports

- This is a historical tool for management. It will show all requests processed within the last 30 days (even those done manually).
- Run reports at the Squadron, Wing, or TYCOM level based on your user profile.
- View prior SLEs by selecting an existing SLE number.
- Regardless of whether the request was processed via the web, Email, or Navy message, it will be stored in Virtual for future tracking. A surrogate at Indian Head enters all SLEs received via email and message.

VFS SLE Reports (Page 1 of 2)

The following is the Narration that will go with the interactive training screens:

- Use Internet Explorer Version 5.0 or higher to go to the VFS CAD PAD Virtual Fleet Support Home Page.
- Click on the Log On button in the upper left portion of the screen.
- Type in your Login Name and Password and click the OK button.
- Click on the Module Menu button in the upper left portion of the screen.
- A list of modules for which you have access will display.
- Click on the SLE Reports button to access the SLE Reports module.

VFS SLE Reports (Page 2 of 2)

- The Show SLE's For Selected Activity Report is pre-selected for you. The other report, Show All SLE's for Time Period is only available for Indian Head management.
- You can run a report by TYCOM, Wing, or Squadron, depending on your user profile. The TYCOM is able to view any or all Wings under its cognizance. Wings are able to view any or all Squadrons under their cognizance. Squadrons may only view their own data.
- All squadrons will be included in a Wing report unless you specify an individual squadron. Similarly, all Wings will be included for a TYCOM report unless an individual Wing is specified.
- You can choose to sort your report by BUNO, DODIC, or Activity.
- You must specify start and end dates for your report.
- Click the submit button to run the report with the parameters you have specified.

Email SLE

- Extensions should be submitted via email in accordance with local procedures.
- Email extension requests should be mailed to cadpadsle@ih.navy.mil.
- Send a copy of the email to yourself, and use “sent” information (e.g. Sent by: your _email_address@xxxxx.xxxx.mil, Thursday, July 08, 1999 10:49 AM) for recording the extension in the log book/history card.
- Automatic extensions via email shall be limited to 30 days.
- Extensions must be documented before aircraft is flown.
- Sample Email Automatic Extension Request
- Sample Email Additional Extension Request

Audio: Be sure to include all information in the sample email formats so your request can be processed. Email extension requests should be mailed to cadpadsle@ih.navy.mil and you should send a copy of the message to yourself for your records. Additional extensions requested by email normally take 1, 3, or 5 days for approval, depending on the precedence selected – op immediate, priority, or routine, respectively.

Sample Email Automatic Extension Request

From: your_email_address@xxxxx.xxxx.mil
Sent: Thursday, July 08, 1999 10:49 AM
To: cadpadsle@ih.navy.mil
Copy To: your_email_address@xxxxx.xxxx.mil
(Your Type Commander)
(Your Wing or Group ALSS rep)

Subject: CAD (or PAD) AUTOMATIC SERVICE LIFE EXTENSION NOTIFICATION

Ref: (a) NAVAIR 11-100-1.1-CD

1. Nomenclature
2. DODIC and NSN
3. Lot number and manufacture date
4. Container open date (for CADs only)
5. Original computed expiration date
6. Requisition number or "1-877" order number
7. Aircraft or equipment involved (e.g. Type/Model/Series, bureau number, parachute serial number, LPU serial number, target serial number)
8. Specific reason for extension (e.g., deployment, maintenance, supply)
9. POINT OF CONTACT: Include name, rank, and telephone numbers (DSN and commercial)

Sample Email Additional Extension Request

From: your_email_address@xxxxx.xxxx.mil
Sent: Thursday, July 08, 1999 10:49 AM
To: cadpadsle@ih.navy.mil
Copy To: your_email_address@xxxxx.xxxx.mil
(Your Type Commander)
(Your Wing or Group ALSS rep)

Subject: CAD (or PAD) ADDITIONAL SERVICE LIFE EXTENSION NOTIFICATION

Ref: (a) NAVAIR 11-100-1.1-CD

1. Nomenclature
2. DODIC and NSN
3. Lot number and manufacture date
4. Container open date (for CADs only)
5. Original computed expiration date
6. Previously extended expiration date, if applicable. (Tracking number or message date/time/group for previous automatic , additional, or world-wide extensions applied to affected CADs/PADs.)
7. Requisition number or "1-877" order number
8. Aircraft or equipment involved (e.g. Type/Model/Series, bureau number, parachute serial number, LPU serial number, target serial number)
9. Specific reason for extension (e.g., deployment, maintenance, supply)
10. POINT OF CONTACT: Include name, rank, and telephone numbers (DSN and commercial)

Naval Message SLE

- Extensions should be submitted via Naval Message in accordance with local procedures.
- Automatic extensions submitted via Naval message shall be limited to 30 days.
- Use date/time/group for logbook/history card entry.
- Naval message extension requests must be sent prior to filing.
- Extensions must be documented before aircraft is flown.
- Sample Naval Message Automatic Extension Request
- Sample Naval Message Additional Extension Request

Audio: Be sure to include all information in the sample naval message formats so your request can be processed. Additional extensions requested by Naval message can be as quick as 2-3 days for op immediate, 3-7 days for priority, or 5-14 days for routine, depending on how fast the messages work their way to and from the approving authority. Additional extensions via message will be answered by message and include a date time group for recording in the logbook history card.

Sample Naval Message Automatic Extension Request

FROM: (Activity making notification or request)

TO: NAVSURFWARCENDIV INDIAN HEAD MD//5320/5110//

INFO: COMNAVAIRSYS COM PATUXENT RIVER MD//PMA-201J2)

(YOUR TYPE COMMANDER)

(YOUR WING OR GROUP ALSS REP)

BT

UNCLAS//N08010//

SUBJ: CAD (or PAD) AUTOMATIC EXTENSION NOTIFICATION

A. NAVAIR 11-100-1.1-CD

POINT OF CONTACT (Include name, rank, and telephone numbers (DSN and commercial)

1. NOMENCLATURE
2. DODIC AND NSN
3. LOT NUMBER AND MANUFACTURE DATE
4. CONTAINER OPEN DATE (FOR CADS ONLY)
5. ORIGINAL COMPUTED EXPIRATION DATE
6. REQUISITION NUMBER OR "1-877" ORDER NUMBER.
7. Aircraft or equipment involved (e.g., Type/ Model/Series, bureau number, parachute serial number, LPU serial number, target serial number)
8. SPECIFIC REASON FOR EXTENSION (e.g., deployment, maintenance, supply)

BT

Sample Naval Message Additional Extension Request

FROM: (Activity making notification or request)

TO: NAVSURFWARCENDIV INDIAN HEAD MD//5320/5110//

INFO: COMNAVAIRSYS COM PATUXENT RIVER MD//PMA-201J2)
(YOUR TYPE COMMANDER)
(YOUR WING OR GROUP ALSS REP)

BT

UNCLAS//N08010//

SUBJ: CAD (or PAD) ADDITIONAL EXTENSION REQUEST

A. NAVAIR 11-100-1.1-CD

POINT OF CONTACT (Include name, rank, and telephone number (DSN and commercial))

1. NOMENCLATURE

2. DODIC AND NSN

3. LOT NUMBER AND MANUFACTURE DATE

4. CONTAINER OPEN DATE (FOR CADS ONLY)

5. ORIGINAL COMPUTED EXPIRATION DATE

6. PREVIOUSLY EXTENDED EXPIRATION DATE, if applicable. (Tracking Number or message date/time/group for previous automatic, additional, or world-wide extensions applied to affected CADs/PADs.)

7. REQUISITION NUMBER OR "1-877" ORDER NUMBER

8. AIRCRAFT OR EQUIPMENT INVOLVED (e.g., Type/Model/Series, bureau number, parachute serial number, LPU serial number, target serial number)

9. SPECIFIC REASON FOR EXTENSION (e.g., deployment, maintenance, supply)

BT

Pop-up List (make hot throughout)

- **AIRRS** - Aircraft Inventory Readiness Reporting System
- **Authorized Users** - Anyone with need to know and who has received the designated signatures and are registered as VFS users
- **COR** - Contracting Officer's Representative
- **Designated Signature Authority** - Immediate Supervisor
- **Domestic** - fleet, government, and industry users
- **FMS** - Foreign Military Sales
- **IHDIV, NSWC** - Indian Head Division, Naval Surface Warfare Center,
- **Installed Life** - Installed life is the period of time a CAD is allowed to be used after its hermetically sealed container is opened; however, the installed life expiration date shall never exceed the shelf life expiration date. The installed life expiration date is computed from the date the environmentally sealed container is opened and is always computed to the last day of the month involved. Installed life is not applicable to PADs.
- **Minimum Shelf Life** - Minimum Shelf Life is the amount of time that must remain on CADs and PADs when issued from the primary and secondary stock points.
- **Service Life** - Service life is the specified period of time during which a CAD or PAD is allowed to be used.
- **Shelf Life** - Shelf life is the period of time, beginning from the date of manufacture, that a CAD can remain in its environmentally sealed container and still be serviceable. The shelf life expiration date shall always be computed from the date of manufacture available from the lot number for the assembled device. Shelf life for a PAD device is the period of time between the date of propellant manufacture (as reflected in the Lot number for the rocket motor) and the expiration date.
- **SLE** - Service Life Extension
- **TYCOM** - Type Commander
- **VFS** - Virtual Fleet Support