

# Appendix F

## Using the Search Functions in e-AVIATRS

***Note:** All searches only look at reports that have been submitted to the database. Just because a mishap has appeared on the message board does not mean it has been posted in the database - it may take a few days. Also, Class A/B mishaps in which a MAB is convened are usually not in the database until the Commandant's Safety Board reviews the mishap report.*

There are five ways to search in **e-AVIATRS**:

- 1) [View Mishap Reports Function](#)
- 2) [Search Mishaps Function](#)
- 3) [Advanced Search Function](#)
  - a. [Tips for Advanced Search](#)
  - b. [Report Design](#)
- 4) [Abbreviated Report Search Function](#)
- 5) [Auxiliary Abbreviated Report Function](#)

As an alternative - The [AVGEN DATABASE](#) is kept on the FSO Portal (p. 16)

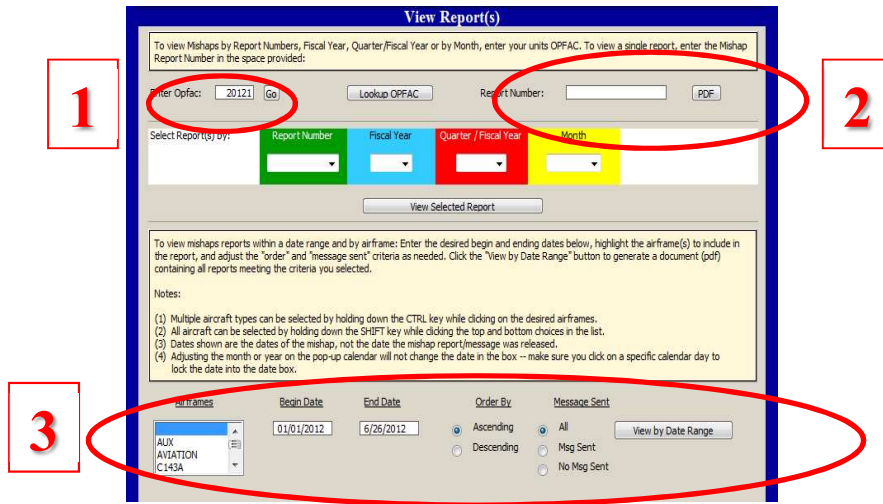
Some basics of the eAviatrs database:

**Printing/Viewing/Saving**: Reports are in the form of a portable data file (.pdf): [SAMPLE](#). The report can be viewed, printed, saved, or emailed.

**Mishap Type**: Part of the 113 review process is to classify each submitted mishap by a general type. This is added before the report is sent to the database and can help group reports as you search. The link at the start of this paragraph will take you to a complete list of the options for mishap types.

## View Mishaps Reports Function

**View Mishap Reports** provides three options for searching for mishap reports. All three options display the entire mishap report(s) in a canned report format.



*Output = Single .pdf file containing full reports meeting search parameters in chronological order*

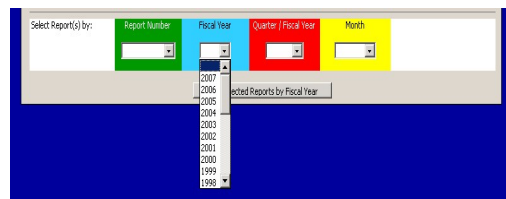
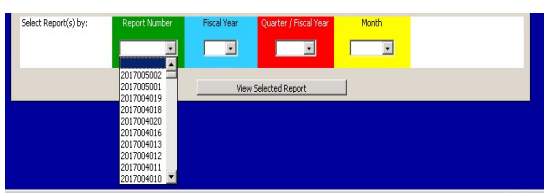
*How to use:*

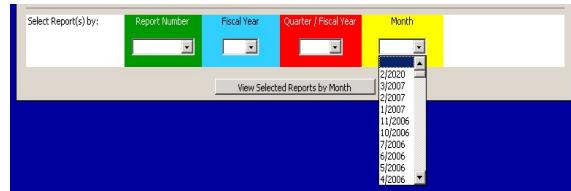
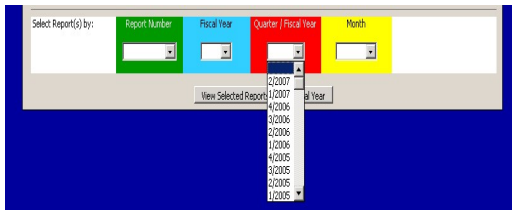
- Lookup Reports by OPFAC.** Enter an OPFAC and click **Go**. There are four options provided for selecting reports.
  - A single report number (RNO).
  - All reports for a Fiscal Year.
  - All reports for a Quarter/Fiscal Year
  - All reports for a Month/Calendar Year.



Highlight your choice and click **View Selected Report by FY/Month/Quarter**.

Examples of dropdown lists:



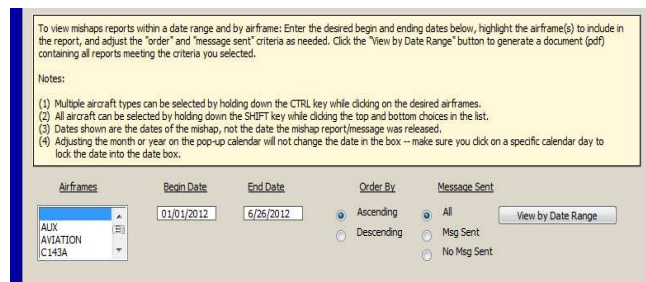


**Note:** *If there are no reports for a month, quarter or year, that choice will not appear in the dropdown list. Another common error is selecting the wrong RNO, which sometimes happens with units that have changed names like Sector Columbia River or when unit names are not intuitive within the matches, like “CG Avtracen Mobile.”*

2. Search by RNO. Type in the report number (RNO = OPFAC + FY + three digit sequential #) and click **Go**.



3. Search by Mishap Date Range, Airframe, and method of release. Enter the airframe, date range, and select ascending or descending. The CNTRL and SHIFT buttons can be used to pick multiple airframes. Click “Msg Sent” or “No Msg Sent” if you want to sort based on whether a message was sent. (This is particularly useful when looking for past reports that were sent straight to database.) Click **View by Date Range** to view the reports matching the criteria.



## **Search Mishaps Function**

**Search Mishaps** is a simple “keyword” word search. For example, you could search for reports containing the word “hoist,” “propeller,” “nvg,” and/or “fadec” in 7 specific report categories. Using the word **and** between keywords may be helpful, as a space between words will be treated as an “or.” *For example, a search for “landing gear” gets 500+ reports but a search for “landing AND gear” returns about 150 records.*

**Output:** *List of RNOs (and their short descriptions) meeting the word search criteria. Each RNO must be viewed as an individual report and only 5 RNOs to a page. Reports are sorted by RNO number (0000000001 would be first), so the sequence of reports will not be grouped in a useful way.*

### **Good for:**

- Searching for a specific mishap or two you only have vague details on and/or are certain of a keyword or two used in the report, but don't know the date or unit of mishap. In other words, using this function can help narrow down your search before using a more sophisticated function.
- Starting point for determining how many reports meet certain criteria, e.g., “xxx# of reports use both terms 65 and *overtorque*,” and the description of the mishap is sufficient to tell if the mishap is a match.

### **Not good for:**

- Searching for mishaps in which you want to mine through lots of full reports or you prefer a summary report (*with this search, every report must be viewed/printed individually*).
- 
- Searching for a type of mishap you expect to return lots of reports, the best example being H-65 main gearbox *overtorques*. Again, it's hard to mine through the output.
- Searching when you want to control the order of the output – there are no such options here.
- Using the “frequently used words” search function. This tells you what the most commonly used words are in reports. Not surprisingly, it will usually tell you that words like “flight,” “engine,” “light,” and “power” are the most common words in aviation mishap reports.

**NOTE:** A space between words is the same as using “or.”

Search for: **nvg** (pg 1 of 6)

RNO: <b>1140810001</b> Date: 1/21/2010 Time: 0849 Opfac: 11408 Unit: CGC MORGENTHAU Class: <b>D</b> HARD LANDING DURING NVG DLQS Permanent Record	<a href="#">Print Report</a>
RNO: <b>2011508004</b> Date: 11/14/2007 Time: 1730 Opfac: 20115 Unit: CG AIRSTA CAPE COD Class: <b>D</b> TFOA- NVGS FELL FROM CABIN DURING AJF TRAINING Permanent Record	<a href="#">Print Report</a>
RNO: <b>2013099002</b> Date: 3/1/1999 Time: 2231 Opfac: 20130 Unit: CG AIRSTA ELIZABETH CITY Class: <b>D</b> NVG CASE DEPARTED AIRCRAFT IN FLIGHT. Permanent Record	<a href="#">Print Report</a>
RNO: <b>2013509021</b> Date: 9/25/2009 Time: 2200 Opfac: 20135 Unit: CG AIRSTA SAVANNAH Class: <b>D</b> ACTIVATION OF EMERGENCY LIGHTING DURING NVG SHIPBOARD LANDING, HARD LANDING Permanent Record	<a href="#">Print Report</a>
RNO: <b>2014001040</b> Date: 6/30/2001 Time: 0300 Opfac: 20140 Unit: CG AIRSTA MIAMI Class: <b>D</b> NVGS LOST OUT OF CABIN DOOR, DURING DMB DEPLOYMENT. Permanent Record	<a href="#">Print Report</a>

Page 1 of 6



**Output:** Matching reports will be displayed 5 at a time with their unit, date & time, and a short description of the mishap. The order is sequential based on their RNO. Use the green arrow at the bottom to page thru multiple pages. Click “Print Report” to view a report (and to then print it). Reports will have to be opened/viewed one at a time.

## Advanced Search Function

The **Advanced Search** function is an ad hoc query that allows you to select the fields you want to query, enter your search criteria, and then design the report output. This is useful for when you know how you want to narrow down your search criteria and in situations where you only want to browse report “summaries” and don’t need to view full reports. The “yes/no” types of boxes are helpful here, as you can quickly isolate ship/helo, day/night, small boat, or MRM mishaps from the rest of the reports.

**Note:** One thing to keep in mind is that certain categories are filled by dropdown and others with text. The dropdowns are straightforward, but the text boxes can be prone to typos or different spellings (or even misspellings) of the same term:

- overtorque, over-torque, over torque, OT, or overq
- hard landing or hardlanding
- main gear box, main gearbox or mgb
- birdstrike, bird strike, B/S
- qty, quantity
- flight, flt
- rescue swimmer, RS, swimmer, AST, ASM, rescueman (old term)

**Note:** In the **Mishap Type** category (which is a controlled field) only the word “overtorque” is used, but the **Mishap Description** and other text fields the term is not contained and may contain the other spellings.

Another consideration is that if you do a text search for a term like “spatial disorientation” you should consider other words the FSO might have used to describe the same phenomenon. Some examples:

- (Hoist) entanglement, shear, snag, part, foul
- Spatial disorientation: spatial d, vertigo, leans, milkbowl, whiteout, brownout

When you select **Advanced Search**, the following screen comes up:

The screenshot shows the e-AVIATRIS v-2.45 interface. At the top, there are navigation tabs: 'New Report Options', 'Statistical Database Options', 'Admin Functions', and 'General'. Below these are several buttons: 'Add New', 'Edit Pending', 'Delete Pending', 'Submit Change', 'View Mishap Reports', 'Advanced Search' (circled in red), 'Search Mishaps', 'Abbreviated Report', 'Aux Abbr. Report', 'Edit Profile', 'Log Off', and 'Home'. The main section is titled 'Advanced Query / Reports' and contains a list of fields to query on, each with a checkbox. The fields are: Date Range/Qty/Fiscal Year, Class, Aircraft, Opmodes, Flight Plan, Weather, Mishap Type, Mission(s), Phase, Engine Data, General (Narrative etc), Property Damage, Medical Information, Ship/Helo, Small Boat, and Causal Factors. At the bottom of the list are two buttons: 'Run Saved Reports' and 'Continue >>'.

This next screen shows all the fields that can be queried. Several categories have additional drop down lists. Click the fields you want to search. Once you have selected the fields to search, click on **Continue** located at the bottom (not shown).

Select fields to query on below: ( Clicking on Dates / Aircraft / General / Property / Medical fields will open up more selections)

**Date Range/Qty/Fiscal Year**  Selected  
 Select by Date Range   
 Select by Fiscal Year   
 Select by Quarter/FY

**Class**  Selected  
**Aircraft**  Selected  
 Select by Type Aircraft  Tail Number   
 Select by Rotary or Fixed Wing

**Qmodes**  Selected  
**Flight Plan**  Selected  
**Weather**  Selected  
 Search Weather Narrative  Meteorological Conditions:   
 Period of Day  Obstructions to Visibility

**Mishap Type**  Selected  
**Mission(s)**  Selected  
**Phase**  Selected  
**Engine Data**  Selected  
**General (Narrative etc)**  Selected  
 Unit Name  Safety Equipment   
 Mishap Description  Aviation Life Support Equipment   
 Narrative  Night Vision Devices   
 Additional Findings  Personal Protective Equipment   
 Commanding Officer Comments  Crew Resource Management   
 Location  Maintenance Resource Management

**Property Damage**  Selected  
 Parts  CG Aux Property Damage Costs   
 CG Property Damage Costs  Non-CG Property Damage Costs   
 Total Cost Range

**Medical Information**  Selected  
 Days Hospitalized  Number of Injuries   
 Lost Work Days (NFFD/SIQ)  Parts of Body Injured   
 Days Restricted (FILD)  Nature of Injury   
 Source of Injury

**Ship/Helo**  Selected  
**Small Boat**  Selected  
**Causal Factors**  Selected

Run Saved Reports      Continue >>

**Run saved reports:** Diverts you to a different screen (below) to run searches you've previously saved.

**Continue:** Takes you to the next screen (Specify query parameters)

Run	Report Name:	Delete
	<a href="#">bird strike</a>	
	<a href="#">cabin doors</a>	
	<a href="#">hoist entanglement</a>	
	<a href="#">potter1</a>	

Close Window

**Specify query (search) parameters page:** Select parameters from the boxes/pulldown menus or type in the search terms. Sometimes you may click boxes just to eliminate certain types of mishaps, e.g., check **flight** and **flight-related** to eliminate the **ground** mishaps.

Specify query parameters:

**Note:** Multiple items in a select list may be selected by pressing and holding the CTRL key while clicking on the selections with your mouse.

Select Records Where:

Airframes: (Multiple ok) AUX AVIATION AND

Mishap Type: (a list of keywords for this search box is available in Appendix G of Users Guide) AND

Mission(s): AI ALPAT AND

Unit Name: AND

Mishap Description: AND

Narrative: AND

Additional Findings: AND

Aviation Life Support Equip:  Yes  No  N/A AND

Night Vision Devices:  Yes  No  N/A AND

Personal Protective Equipment:  Yes  No  N/A AND

Crew Resource Management:  Yes  No  N/A AND

Maint. Resource Management:  Yes  No  N/A AND

Ship/Helo Ops:  Yes  No  N/A AND

Causal Factors: Contractor/Civilian Crew Assignment

Reset Selections Select Additional Fields Design Report >>

**Reset Selections:** Blanks out text fields and deselects all the selections you've made.

**Select Add'l Fields:** Saves what you have done on this page and backs you up one screen

**Design Report:** Takes you to the next page (Design Report).

**Note:** For fields with pick list, multiple selections can be made by holding down the CTRL or SHIFT key.

**“AND / OR” Box** - Click on the green **“AND”** boxes to toggle between **“and”** and **“or.”** Keep in mind that the **“OR”** essentially creates a new search. The search will look for everything before the **“OR”** and then search for everything after the search. **“AND”** looks for reports matching all parameters.



## **Tips on Advanced Search Criteria**

For text fields, the following rules apply.

- A space between words is treated as an “or”. Any report containing any of the terms in the queried field will be returned.
- A plus sign (+) or the word “AND” will return any record containing that word in the queried field.
- A minus sign (-) means “NOT”. This will look for reports that do not contain or match the word.
- Placing words in parenthesis – e.g., (cabin door) – will search for that phrase. The plus sign (+) and minus sign (-) carry the same rules as they do for single words.

Keep in mind that the text fields (**Mishap Description, Weather, Narrative, Additional Findings, CO’s Comments** and **Parts**) are not controlled and are entered by different people with different background. When searching text fields consider the different ways a word can be spelled or abbreviated.

There are also times when the key words are not listed in the **Mishap Type** or **Mishap Description**.

Other times a text field may contain the word/words but in a different context. Something like “the crew thought it was an overtorque” or “this event had the same symptoms as an overtorque” or “this was not an overtorque”.

Terms like “hoist”, “cabin door”, “injury” or “swimmer” can be used in the **Mishap Description** but the mishap may involve something else.

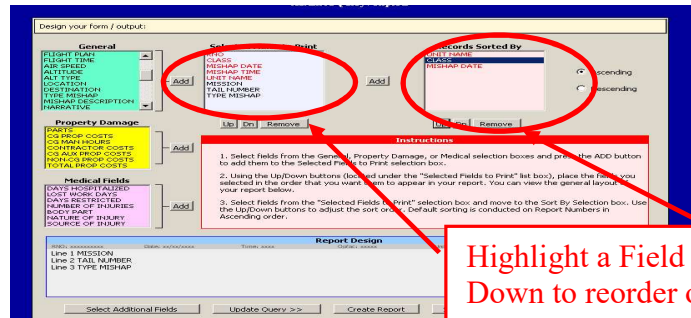
Watch for words within a word. Searching for “dual” as in “dual qual” can yield reports with the word “individual” or “residual”. Searching for “qual” can result in reports with “qualified”, “squal” or “equal”.

Reading the narratives is very important when using the advanced search.

The **Advanced Search** does not allow changing the search order of the fields. This may mean having to do multiple searches. We are looking at a couple other programs, but in the mean time, call CG-1131 program manager for assistance.

The **Advanced Search** does not provide summary data except for a count of the records found at the top of the print out.

## Design Report



On the **Design Form / Output** page, you are presented with 3 highlighted windows (General, Property Damage, and Medical) on the left side, each representing a different section of the mishap report. Double click or click once on the fields then click **Add** to add fields to the final report. Fields selected will be displayed in Selected Fields to Print window. To remove a field from the report, select the Field and click **Remove** button.

**Tip:** Add **Mishap Description** and **Narrative** to the “Selected Fields to Print” box, then click the **Create Report** button. Look this over, browse the narratives to initially check to make sure you’re getting the types of reports you wanted. From here, you can close the report and go back to spend more time designing your output.

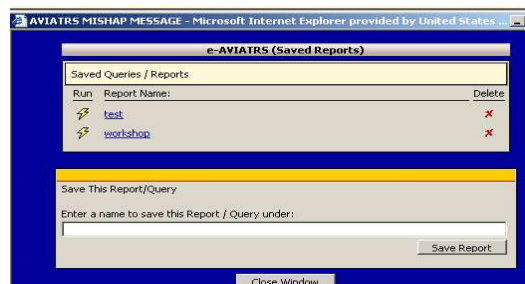
**Select Fields to Print:** After populated this box with the fields you want to print, change the order of fields to print by highlighting a field in the print window and clicking Up/Down.

**Records Sorted By:** You can specify how the records will be sorted by highlighting the Field in the Sort window and selecting ascending or descending. Change the sort order by highlighting a Field in the Sort window and clicking Up/Down. To remove a field from the sort, select the field and click **Remove** button.

**Note:** Certain fields (in red; RNO, Mishap Date, Time, OPFAC, Unit and Class) will always be printed as the report header.

When you have completed designing the report, click **Create Report** to view the output.

**Reminder:** You may have to read thru the **mishap narratives** to be 100% sure you have captured only the mishap reports you want.



You can save the report for later use. However, two downsides are the saved report cannot be changed nor can the search criteria be viewed.

## Abbreviated Report Search

The screenshot shows the 'Abbreviated Report Search' interface in the e-Aviats v2.2 system. The interface is divided into three main sections, each highlighted with a red circle and a number:

- Section 1:** Search criteria for Aircraft Type (a dropdown menu with 'AVIATION' selected), Begin Date (3/19/2007), and End Date (4/19/2007). A note indicates that multiple aircraft types can be selected by holding the CTRL key.
- Section 2:** A field for a single Report Number (202599099) and a 'View Single Report' button.
- Section 3:** A table for selecting reports by Report Number, Fiscal Year, Quarter/Fiscal Year, and Month/Calendar Year. The table has the following data:

Select Report(s) by:	Report Number	Fiscal Year	Quarter / Fiscal Year	Month / Calendar Year
	2025907016	2007	2/2007	3/2007
	2025907014	2006	1/2007	2/2007
	2025907013	2005	4/2006	1/2007
	2025907012	2004	3/2006	11/2006

The **Abbreviated Report** function was developed to display only the first 11 lines of the mishap report. These represent the “factual” fields which are technically releasable for public consumption, i.e., FOIA requests. There are three options for generating this report.

- 1) **Aircraft Type** and **Mishap Date** range. Select **Aircraft Type** and enter **Mishap Date** range and click SEARCH.

**Note:** To select multiple choices from a drop down list hold the Ctrl or Alt key while clicking on the choices.

- 2) **RNO**. Enter **RNO** and click View.
- 3) **OPFAC** and **RNO** (Fiscal Year, Quarter/Fiscal Year or Month/Calendar Year). Highlight your choice from the drop down lists at the bottom and click on SELECT FROM CHOICES ABOVE.

**Printing/ Viewing/ Saving:** All reports generated by e-AVIATRS are in the form of a pdf. The report can be viewed on line, send to a printer or saved to a file and opened in another application.

## AUXAIR Abbreviated Report Function

***This search function only lets you search through USCG Auxiliary Air mishaps, and will only provide non-privileged, releasable data.***

The screenshot displays the e-AVIATRS v-2.45 web interface. At the top, there are navigation tabs: "New Report Options", "Statistical Database Options", "HQ Functions", and "General". Below these are several buttons: "Add New", "Delete Pending", "Edit Pending", "Submit Changes", "View Mishap Reports", "Advanced Search", "RATS / HFACS", "Search Mishaps", "Abbreviated Report", "Aux Abbr. Report", "Admin Reports", "Review Pending", "Delete Pending", "Edit Approved", "Delete Approved", "Log Off", "Home", "Account Functions", and "Admin Functions". The main section is titled "Abbreviated Auxiliary Report Search". It contains a search form with the following fields and options:

- A text input field: "Enter the Aircraft Type (Multiple Selections Allowed), Starting Date and Ending Date to continue..."
- Three input fields: "Aircraft Type" (with a dropdown menu showing "ALX"), "Begin Date" (with "5/26/2012"), and "End Date" (with "6/26/2012").
- A yellow callout box: "Note: Multiple Aircraft Types may be selected by pressing and holding the CTRL key while clicking on the AC Type with your mouse."
- A "Search by Type and Date Range" button.
- A text input field: "Enter a single Report Number to view:"
- A "View Single Report" button.
- A text input field: "Enter the desired OPFAC, then select reports by Report Number, Fiscal Year, Quarter/Fiscal Year or Month/Fiscal Year."
- An "Enter Opfac:" input field, a "Go" button, and a "Lookup OPFAC" button.

The **Aux Abbreviated Report** function was developed to accommodate the AUXAIR Safety Program. Most Auxiliarists do not have access Admin OIX and therefore do not have ready access to CG aviation mishap reports. By using the AuxAir Abbreviated Report Function aviation mishaps can be printed/shared with the AuxAir in a timely manner. (See the e-AVIATRS User Guide for a discussion on Auxiliary Air mishaps)

The screenshot shows a Microsoft Internet Explorer window titled "AVIATRS MISHAP MESSAGE - Microsoft Internet Explorer provided by Unit...". The page content is titled "AVIATRS Abbreviated Auxiliary Incident Report" and includes the following information:

- Buttons: "Copy Report to Clipboard" and "Send Report(s) to Printer".
- U.S. COAST GUARD AUXILIARY INCIDENT REPORT logo.
- Disclaimer: "U.S. COAST GUARD ABBREVIATED AUXILIARY INCIDENT REPORT For security purposes the complete mishap report is not authorized to be released outside of the Coast Guard computer network. This abbreviated report outlines factual information from the incident and is releasable to Coast Guard Auxiliarists for mishap prevention purposes only in accordance with COMINST M5100.47. Auxiliarists are always authorized to view the report in its entirety, but shall coordinate with the Order Issuing Authority (OIA) Flight Safety Officer (FSO) to ensure dissemination remains within approved standards."
- Report Data:
  1. AIR STATION OR UNIT/CG AIRSTA CAPE COD//MISHAP REPORT NUMBER/2011507020//
  2. AIRCRAFT TYPE: ALX//COAST GUARD IDENTIFICATION NUMBER CGNR/N35J0//
  3. MISHAP DESCRIPTION/POWER LOSS DURING TAKEOFF//
  4. OPMODE/FLIGHT/CLASS/A//
  5. DATE/09-25-07//LOCAL TIME/0830//PERIOD OF DAY/DAY//
  6. LOCATION OF MISHAP/SKYLARK AIRPARK AIRPORT (766)- WAREHOUSE POINT, CT//LAT/LONG/41-55S/072-34W//
  7. WEATHER AT TIME/PLACE OF MISHAP/SKY CLEAR//METEOROLOGICAL CONDITIONS/NMC//OBSTRUCTIONS TO VISIBILITY/NONE//
  8. FLIGHT INFORMATION.
    - A. MISSION/PWCS//FLT TIME/0.10//FLT PLAN/CLEARANCE/N/A//DESTINATION/LONG ISLAND SOUND PWCS PATROL//
    - B. PHASE OR EVOLUTION AT TIME OF MISHAP/TAKEOFF//AIRSPEED/80 KT//ALTITUDE/10 AGL//
  9. AIRCREW INFORMATION.

The abbreviated report contains only factual data and has been approved for release outside the Coast Guard system. The narratives are here, but the "additional findings" and "recommendations" sections are not. Abbreviated messages can be distributed to Auxiliarists via the Auxiliary Aviation Standardization Team and the Auxiliary District Flight Safety Officer (DFSFO).

Auxiliarists are encouraged to view CG Auxiliary aviation mishap messages in their entirety and these should be available for review through the Air Station Flight Safety

Officer (FSO), due to the possible privileged information content of a mishap message they can not be released outside the Coast Guard system.

The **AUX Abbreviated Report** has three options for generating a report and works just like the Abbreviated Report Function, but only aviation mishaps involving the AUXAIR will be displayed.

- 1) **Mishap Date** range. Enter **Mishap Date** range and click SEARCH.
- 2) **RNO**. Enter **RNO** and click VIEW.
- 3) **OPFAC** and **RNO** (Fiscal Year, Quarter/Fiscal Year or Month/Calendar Year). Highlight your choice from the drop down lists at the bottom and click on SELECT FROM CHOICES ABOVE.

## **CG-113 data request form**

There are over 10,000 reports in **e-AVIATRS** dating back to the late 70's. CG-113 has experience analyzing the data and can help searching the data. The "USCG Aviation Data Request Form" (available both on the CG-113 website and the FSO Sharepoint site) should be your starting point to make this request.


CG-113 also will have exclusive access to mishap recommendations and can help tracking these items down.

### **QUESTIONS/THINGS TO THINK ABOUT WHEN REQUESTING DATA**


- Is it a current or a long term problem?
- Are you trying to show something is or isn't a problem?
- Are there similar events, words or terms to look for?
- What other unit has this problem? Is your unit the only unit?
- Did we change something (equipment, procedure, parts, flight manual, etc)? Is it working? Was it the wrong fix? Has it created another problem?
- What time period? You will want enough data to do a comparison, before and after the change. (Note: 15,000+ records, dating back to the early 80's).
- Time of year, tail number, and unit can be quite telling? Example – an East Coast unit has several incidents, no other unit does. Suddenly East Coast unit stops having problem and a West Coast unit starts having the same problems. Either an airframe or personnel moved.
- Could it be a seasonal problem (cold weather, humidity, etc)?
- Do you want to show how much it costs us each year because we haven't found a fix? Or how much cost and down time we've eliminated by changing something?

# SAMPLE MISHAP REPORT

100% Find



## United States Coast Guard



***Final***  
For Official Use Only  
USE LIMITED IN ACCORDANCE WITH COMDTINST M5100.47 (SERIES)

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Unit: (20255) CG AIRSTA BARBERS PT

Report Number: 2025585001	Class: C
Date of Mishap: 10/30/1984 / 1430 L	Aircraft Type: HC130H
	Tail Number: 1346
	Boat Type: N/A

---

Flight Plan: N/A	Mission: SAR	Opmode: FLIGHT
Flight Time: 0.0 Hrs	Air Speed: 0.0 Kt	Altitude: 0 N/A
Ship/Helo Ops: NO	Phase: N/A	
Engine: N/A		

---

Mishap Type: ENGINE, REDUCTION GEARBOX

Description of Mishap:

Location of Mishap: MOLOKAI, HI

Latitude / Longitude: 00-00 N / 00-00 W

Destination:

---

Meteorological Cond: N/A      Visibility:      Period of Day: N/A

Weather (Narrative):

Additional Factors:      N/A

Narrative:  
REDUCTION GEARBOX FAILED.

Corrective Actions and Additional Findings:

Commanding Officer Comments:

Recommendations:

Parts / Damage Information:  
PARTS: REDUCTION GEARBOX  
COST: \$53,800.00 LABOR COST: \$0.00 CONTRACTOR COST: \$0.00  
TOTAL COST OF MISHAP: \$53,800.00

## AVGEN Database

113 and the HSWL programming staff has developed the AVGEN database product to provide an alternate search methodology. The AVGEN has any eAviators report entries made dating back to the late 1970s. It is a fully sortable Excel spreadsheet, with a wide array of options to adjust and filter results.

You can find the Current AVGEN File and the archive on the FSO Portal, under Safety Stats in the Safety Statistics Folder:

**CGPORTAL**  
the information YOU need

All Sites [v] [m] [?]  
Advanced Personnel Search

Home Strategy Units Communities Training & Education References Applications Business Intelligence CG Portal Help

Flight Safety Officer

CG Portal > Flight Safety Officer > Home

**Libraries**

- Safety Stats
- FSO Initial

**Safety Policy**

- Safety and Environmental Health Manual
- Safety and Environmental Health Policy
- Occupational Safety and Health Protection
- Unit Safety Policies

**Safety Risk Management**

- Risk Management Instruction
- RM Guidance and Job Aids
- Crew Endurance Management

## U.S. Coast Guard Flight Safety Officer Portal

AVIATION SAFETY  
UNITED STATES COAST GUARD

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## Using AVGEN for Mishap Analysis

Highly recommend downloading a copy of the file to your personal directory to manipulate. You will be able to copy and save your specific search results without making changes to the shared file.

Each column is filterable. You can narrow down results in any combination of ways to include specific airframe or model, FW/RW Communities, Flight/Flight Related/Ground Mishaps, Mission, Mishap Type (Explained below) or any combination of selections that drill down to the level of detail you require for your research.

RNO	Report Date	Opfac	Mishap Date	Mishap Time	Fy	Class	Unit Name	Op Mode	Acft	Gov Id	Op Mode2	Mission	Phase	Mishap Typ
17933	2023586005	10/30/1985	20235	10/25/1985	1010	1986 B	CG AIRSTA BORINQUEN	Flight	HU25A	2139	Flight	TRNG	N/A	ENGINE,
17934	2024586002	10/21/1985	20245	10/25/1985	0745	1986 D	CG AIRSTA CORPUS CHRISTI	Flight	HU25A	2129	Flight	SAR	N/A	FLT
17935	2011586009	11/6/1985	20115	10/25/1985	1245	1986 D	CG AIRSTA CAPE COD	Flight	HU25A	2115	Flight	LE	N/A	CSD HYD SY
17936	6510086010	10/25/1985	65100	10/25/1985	1131	1986 D	CG AVTRACEN MOBILE	Flight	HU25A	2120	Flight	TRNG	N/A	SMOKE/FUME
17937	6510086011	11/29/1985	65100	10/25/1985	0904	1986 D	CG AVTRACEN MOBILE	Flight	HU25A	2141	Flight	TRNG	N/A	INDICATOR,
17938	2011586008	10/29/1985	20115	10/24/1985	1415	1986 D	CG AIRSTA CAPE COD	Flight	HU25A	2117	Flight	TRNG	N/A	ELECTRICAL,
17939	2028086002	11/6/1985	20280	10/23/1985	1507	1986 D	CG AIRSTA SITKA	Flight	HH3F	1482	Flight	SAR	N/A	ENGINE,
17940	6510086009	11/18/1985	65100	10/22/1985	1532	1986 C	CG AVTRACEN MOBILE	Flight	HH65A	6505	Flight	TRNG	N/A	ENGINE, FUEL
17941	7201496001	11/11/1985	72014	10/22/1985	1045	1986 D	APO GRAND PRARIE	Flight	HH65A	6501	Flight	TRNG	N/A	MLG, BRAKES
17942	2011586006	10/28/1985	20115	10/22/1985	1828	1986 D	CG AIRSTA CAPE COD	Flight	HU25A	2119	Flight	LE	N/A	ENGINE, OL,
17943	2011586007	10/31/1985	20115	10/22/1985	1345	1986 D	CG AIRSTA CAPE COD	Flight	HH3F	1438	Flight	TRNG	N/A	AIRFRAME,
17944	2023586004	10/22/1985	20235	10/21/1985	1022	1986 D	CG AIRSTA BORINQUEN	Flight	HH65A	6513	Flight	TRNG	N/A	MGB, CHIP LT
17945	6510086008	10/12/1985	65100	10/19/1985	0810	1986 D	CG AVTRACEN MOBILE	Flight	HH65A	6507	Flight	TRNG	N/A	AIRFRAME,
17946	6510086007	11/12/1985	65100	10/18/1985	0959	1986 D	CG AVTRACEN MOBILE	Flight	HH65A	6509	Flight	TRNG	N/A	ENGINE, CHIP
17947	2028086001	11/5/1985	20280	10/18/1985	1000	1986 D	CG AIRSTA SITKA	Flt-Rel	HH3F	1482	Flt-Rel	TRNG	N/A	BROSTRKRE,
17948	2027086002	11/5/1985	20270	10/17/1985	1730	1986 C	CG AIRSTA KODIAK	Flight	HC130H	1708	Flight	TRNG	N/A	ENGINE,
17949	6510086006	11/12/1985	65100	10/17/1985	1530	1986 C	CG AVTRACEN MOBILE	Flight	HH65A	6504	Flight	TRNG	N/A	HARDLANDIN
17950	2011586005	10/24/1985	20115	10/16/1985	1502	1986 D	CG AIRSTA CAPE COD	Flight	HU25A	2117	Flight	TRNG	N/A	ENGINE, PZT2
17951	2025086004	11/19/1985	20250	10/15/1985	0000	1986 C	CG AIRSTA NEW ORLEANS	Flight	HH65A	6510	Flight	TRNG	N/A	ENGINE, FOD
17952	2024586001	10/25/1985	20245	10/15/1985	1630	1986 D	CG AIRSTA CORPUS CHRISTI	Flight	HU25A	2129	Flight	TRNG	N/A	ECS, ECU
17953	2025086003	11/21/1985	20250	10/13/1985	1630	1986 D	CG AIRSTA NEW ORLEANS	Flight	HH3F	1477	Flight	TRNG	N/A	VIBRATIONS,
17954	2023586003	10/22/1985	20235	10/11/1985	1805	1986 D	CG AIRSTA BORINQUEN	Flight	HH65A	6514	Flight	TRNG	N/A	FLT
17955	6510086005	11/12/1985	65100	10/11/1985	1655	1986 D	CG AVTRACEN MOBILE	Flight	HH65A	6507	Flight	TRNG	N/A	ENGINE,
17956	2023586002	10/17/1985	20235	10/10/1985	0815	1986 D	CG AIRSTA BORINQUEN	Flight	HH65A	6512	Flight	TRNG	N/A	HYD SYS,
17957	2025086002	11/19/1985	20250	10/10/1985	1410	1986 D	CG AIRSTA NEW ORLEANS	Flight	HH65A	6510	Flight	TRNG	N/A	INDICATOR, N
17958	2011586004	11/21/1985	20115	10/10/1985	1556	1986 D	CG AIRSTA CAPE COD	Flight	HU25A	2119	Flight	TRNG	N/A	DRAG CHUTE

Once you have established your data set – You can either use the report features above to pull each canned PDF format report, or you can read the narrative and other information right from AVGEN. You can also use “Ctrl+F” or the Find function of Excel to search Keywords.

There are just over 19,000 records in the file, but with careful consideration of your filters – You can make that number much smaller and find just the specific events or flight profiles you need.

## Mishap Types

One of these is added to each mishap by CG-113 in the HQ review process before releasing to database

A/C, DEPARTED RUNWAY  
A/C, IMPACTED FENCE  
A/C, IMPACTED HANGAR  
A/C, IMPACTED TERRAIN  
A/C, IMPACTED WATER

ADS, AIRFRAME  
ADS, DROP  
ADS, DROP CHUTE  
ADS, DROP HOOK  
ADS, DROP PUMP  
ADS, LINE CUTTER  
ADS, STATIC/TRAIL LINE

AFCS  
AFCS, COMPUTER  
AFCS, COMPUTER, MOISTURE  
AFCS, HARDOVER  
AFCS, HARDOVER, MOISTURE  
AFCS, MOISTURE  
AFCS, PITCH SERIES ACTUATOR  
AFCS, ROLL SERIES ACTUATOR  
AFCS, YAW CHANNEL  
AFCS, YAW SERIES ACTUATOR

AIRCREW

AIRFRAME  
AIRFRAME, ANTENNA  
AIRFRAME, ANTENNA, ELT  
AIRFRAME, ANTENNA, HF  
AIRFRAME, ANTENNA, HF, DPTD INFLT  
AIRFRAME, ANTENNA, LONGWIRE  
AIRFRAME, APU COWLING  
AIRFRAME, AVIONICS WINDOW  
AIRFRAME, BLEED AIR LEAK  
AIRFRAME, CABIN WINDOW  
AIRFRAME, CARGO  
AIRFRAME, CHECKSTAND  
AIRFRAME, CHINE PANEL  
AIRFRAME, COWLING  
AIRFRAME, DEER STRIKE  
AIRFRAME, DOOR  
AIRFRAME, DOOR, DPTD INFLT  
AIRFRAME, DOOR, OPEN INFLT  
AIRFRAME, ENGINE, COWLING  
AIRFRAME, FIRE BOTTLE, TAXIING  
AIRFRAME, FIRE BOTTLE, TOWING  
AIRFRAME, FLIR  
AIRFRAME, FOD, HARD  
AIRFRAME, FUSELAGE  
AIRFRAME, GROUND EQUIP  
AIRFRAME, GROUND HANDLING  
AIRFRAME, GROUNDING WIRE  
AIRFRAME, HOISTING  
AIRFRAME, JACKING

AIRFRAME, LANDING LT  
AIRFRAME, LOCATOR LT  
AIRFRAME, MGB, COWLING  
AIRFRAME, NOISE  
AIRFRAME, NOSEOVER  
AIRFRAME, PANEL  
AIRFRAME, PANEL, DPTD INFLT  
AIRFRAME, PITOT TUBE  
AIRFRAME, SEARCH LT  
AIRFRAME, SEAT  
AIRFRAME, SKI  
AIRFRAME, SPONSON WINDOW  
AIRFRAME, SPONSON WINDOW, DPTD  
AIRFRAME, TAXIING  
AIRFRAME, TFOA  
AIRFRAME, TIEDOWNS  
AIRFRAME, TOWING  
AIRFRAME, WEATHER  
AIRFRAME, WEIGHT & BALANCE  
AIRFRAME, WINDOW  
AIRFRAME, WINDOW, CRACKED  
AIRFRAME, WINDOW, DPTD INFLT  
AIRFRAME, WINDOW, WEATHER  
AIRFRAME, WINDSCREEN  
AIRFRAME, WINDSCREEN, ANTI-ICE  
AIRFRAME, WINDSCREEN, CRACKED

AIRSICK, AIRCREW

APU  
APU, FIRE LT  
APU, FIRE, START  
APU, GENERATOR  
APU, SMOKE/FUMES

AUX HYD SYS, LINE  
AUX HYD SYS, PUMP  
AUX HYD SYS, SERVO

BATTERY  
BATTERY, OVERTEMP

BIRDSTRIKE  
BIRDSTRIKE, AIRFRAME  
BIRDSTRIKE, COWLING  
BIRDSTRIKE, ENGINE  
BIRDSTRIKE, FLAPS  
BIRDSTRIKE, FUSELAGE  
BIRDSTRIKE, MRB  
BIRDSTRIKE, NO DAMAGE  
BIRDSTRIKE, PROP  
BIRDSTRIKE, RADOME  
BIRDSTRIKE, SLAT  
BIRDSTRIKE, SPONSON  
BIRDSTRIKE, VERT STAB  
BIRDSTRIKE, WINDOW

BIRDSTRIKE, WINDSCREEN  
 BIRDSTRIKE, WING  
 BIRDSTRIKE, WING, LEADING EDGE  
  
 BLEED AIR  
 BLEED AIR, DUCT  
 BLEED AIR, LINE  
 BLEED AIR, MANIFOLD  
 BLEED AIR, OVHT  
  
 BOOSTER HYD SYS  
  
 CABIN DOOR  
 CABIN DOOR, DPTD INFLT  
 CABIN DOOR, GROUND EQUIP  
 CABIN DOOR, LOCKING MECHANISM  
 CABIN DOOR, PRESSURIZATION  
 CABIN DOOR, ROLLERS  
 CABIN DOOR, ROLLERS, DPTD INFLT  
 CABIN DOOR, TRACK  
 CABIN DOOR, TRACK, DPTD INFLT  
 CABIN DOOR, WINDOW  
  
 CARGO, FIRE  
 CARGO, FUEL SPILL  
 CARGO, FUMES  
 CARGO, SHIFTED  
  
 COMMS  
 COMMS, CCD LOCKUP  
  
 CSD HYD SYS  
 CSD HYD SYS, ACCUMULATOR, LINE  
 CSD HYD SYS, LINE  
 CSD HYD SYS, PRESSURE SWITCH  
 CSD HYD SYS, PUMP  
 CSD HYD SYS, XMITTER  
  
 DELUGE SYS, INADVERTANT ACTIVATION  
  
 DMB  
  
 DRAG CHUTE  
 DRAG CHUTE, SEPARATED  
  
 ECS  
 ECS, ECU  
 ECS, ECU, SENSOR  
 ECS, PRESSURIZATION  
  
 ECU, COMPRESSOR  
  
 ELECTRICAL  
 ELECTRICAL, 115/26 VAC XFORMER  
 ELECTRICAL, AC SYS  
 ELECTRICAL, AC SYS, ALTERNATOR  
 ELECTRICAL, AC SYS, GENERATOR  
 ELECTRICAL, AFCS PANEL  
 ELECTRICAL, ANTI-ICE  
 ELECTRICAL, ANTI-ICE, CONTROLLER  
 ELECTRICAL, CONVERTER  
 ELECTRICAL, DC SYS

ELECTRICAL, DC SYS, GENERATOR  
 ELECTRICAL, DC SYS, LINE CONTACTOR  
 ELECTRICAL, FIRE  
 ELECTRICAL, FIRE, ANTI-ICE  
 ELECTRICAL, FUMES  
 ELECTRICAL, GCU  
 ELECTRICAL, GENERATOR  
 ELECTRICAL, HARS COUPLER  
 ELECTRICAL, INVERTER  
 ELECTRICAL, MOISTURE  
 ELECTRICAL, PITOT HEAT  
 ELECTRICAL, RELAY  
 ELECTRICAL, SMOKE/FUMES  
 ELECTRICAL, SMOKE/FUMES, AUTOPILOT  
 ELECTRICAL, SMOKE/FUMES, HEATER  
 ELECTRICAL, SMOKE/FUMES, RADAR  
 ELECTRICAL, SMOKE/FUMES, RADIO  
 ELECTRICAL, SMOKE/FUMES, WIRING  
 ELECTRICAL, STARTER/GENERATOR  
 ELECTRICAL, SUPERVISORY PANEL  
 ELECTRICAL, WIRING  
  
 ELECTRONICS, AVIONICS  
 ELECTRONICS, MOISTURE  
  
 ELT/CPI, DEPLOYED  
  
 EMI  
  
 ENGINE  
 ENGINE, ACCESSORY DRIVE GEARBOX  
 ENGINE, AIRFLOW MODULATOR  
 ENGINE, AIRSTART  
 ENGINE, ANTICIPATOR  
 ENGINE, ANTICIPATOR, ACTUATOR  
 ENGINE, ANTI-ICE  
 ENGINE, ASPIRATOR  
 ENGINE, BEARING  
 ENGINE, BEARING SEAL  
 ENGINE, BEARING, MAKING METAL  
 ENGINE, BLEED AIR  
 ENGINE, CHIP LT  
 ENGINE, CHIP LT, BEARING  
 ENGINE, CHIP LT, BREAK-IN MATERIAL  
 ENGINE, CHIP LT, CARBON  
 ENGINE, CHIP LT, CHIPS  
 ENGINE, CHIP LT, DETECTOR  
 ENGINE, CHIP LT, FLAKES  
 ENGINE, CHIP LT, FUZZ  
 ENGINE, CHIP LT, GRANULES  
 ENGINE, CHIP LT, METAL  
 ENGINE, CHIP LT, NO METAL  
 ENGINE, CHIP LT, PARTICLES  
 ENGINE, CHIP LT, SLIVERS  
 ENGINE, CHIP LT, SPLINTERS  
 ENGINE, CHIP LT, TYPE I  
 ENGINE, CHIP LT, TYPE II  
 ENGINE, COMPRESSOR  
 ENGINE, DECU  
 ENGINE, DESWIRL DUCT  
 ENGINE, DRIVE SHAFT  
 ENGINE, ECA

ENGINE, EFCL  
ENGINE, FFCL  
ENGINE, FIRE  
ENGINE, FIRE DETECTION SYS  
ENGINE, FIRE LT  
ENGINE, FIRE, SHUTDOWN  
ENGINE, FIRE, START  
ENGINE, FLAMEOUT  
ENGINE, FLAMEOUT, FUEL COMPUTER  
ENGINE, FLAMEOUT, FUEL SYS  
ENGINE, FLOW FENCE  
ENGINE, FOD  
ENGINE, FOD, HARD  
ENGINE, FOD, SOFT  
ENGINE, FUEL COMPUTER  
ENGINE, FUEL CONTROL  
ENGINE, FUEL SYS, FLOW DIVIDER  
ENGINE, GCU  
ENGINE, GENERATOR  
ENGINE, GROUND HANDLING  
ENGINE, HIGH SPEED SHAFT  
ENGINE, HMU  
ENGINE, HP TURBINE  
ENGINE, IGNITION SYS  
ENGINE, IGNITOR  
ENGINE, IGV ACTUATOR  
ENGINE, MGT  
ENGINE, MONOPOLE  
ENGINE, MOUNTS  
ENGINE, NACELLE OVHT  
ENGINE, NF TACH GENERATOR  
ENGINE, NG OVERSPEED  
ENGINE, NG TACH GENERATOR  
ENGINE, NP  
ENGINE, NP GOVERNOR  
ENGINE, NP OVERSPEED  
ENGINE, NR DROOP  
ENGINE, NR TACH GENERATOR  
ENGINE, OEI  
ENGINE, OIL  
ENGINE, OIL COKING  
ENGINE, OIL COOLER  
ENGINE, OIL FILTER  
ENGINE, OIL LEAK  
ENGINE, OIL LINE  
ENGINE, OIL PRESS  
ENGINE, OIL PRESS, CAP  
ENGINE, OIL PRESS, CAP, O'RING  
ENGINE, OIL PRESS, FILLER NECK  
ENGINE, OIL PRESS, O'RING  
ENGINE, OIL PRESS, PUMP  
ENGINE, OIL PRESS, SCAVENGE PUMP  
ENGINE, OIL PRESS, XDUCER  
ENGINE, OIL PRESS, XMITTER  
ENGINE, OIL QTY  
ENGINE, OIL TEMP  
ENGINE, OIL, CAP  
ENGINE, OIL, CHIP DETECTOR, O'RING  
ENGINE, OIL, REDUCTION GEARBOX  
ENGINE, OVERSPEED  
ENGINE, OVERSPEED, AUTO  
ENGINE, OVERTEMP  
ENGINE, OVERTEMP, START  
ENGINE, OVERTEMP, WASH  
ENGINE, OVERTORQUE  
ENGINE, OVERTORQUE, OVERHAUL  
ENGINE, OVERTORQUE, PILOT  
ENGINE, OVHT DETECTOR  
ENGINE, P2T2  
ENGINE, P2T2 PROBE  
ENGINE, POWER LOSS  
ENGINE, POWER LOSS, FUEL COMPUTER  
ENGINE, POWER LOSS, FUEL CONTROL  
ENGINE, POWER TURBINE  
ENGINE, PROP  
ENGINE, PROP DEICE  
ENGINE, PROP, FOD, HARD  
ENGINE, PROP, GROUND HANDLING  
ENGINE, PROP, NTS BRACKET  
ENGINE, PROP, OIL  
ENGINE, PROP, OIL PRESS  
ENGINE, PROP, OIL THRUST NUT  
ENGINE, PROP, PITCHLOCK  
ENGINE, PROP, SYNCHROPHASER  
ENGINE, PROP, TAXIING  
ENGINE, PROP, VALVE HOUSING  
ENGINE, Q-SPLIT  
ENGINE, Q-SPLIT, ANTICIPATOR  
ENGINE, Q-SPLIT, GOVERNOR  
ENGINE, Q-SPLIT, XDUCER  
ENGINE, Q-SPLIT, XMITTER  
ENGINE, REDUCTION GEARBOX  
ENGINE, SHUTDOWN, INFLT  
ENGINE, SLOW TO SPOOL  
ENGINE, SMOKE/FUMES  
ENGINE, SMOKE/FUMES, ANTI-ICE  
ENGINE, SMOKE/FUMES, OIL  
ENGINE, SPEED SELECTOR  
ENGINE, STALL  
ENGINE, STALL, AIRFLOW MODULATOR  
ENGINE, STALL, COMPRESSOR  
ENGINE, STALL, FLOW FENCE  
ENGINE, STALL, FOD  
ENGINE, STALL, IGV ACTUATOR  
ENGINE, STALL, SALT  
ENGINE, START  
ENGINE, STARTER  
ENGINE, STARTER/GENERATOR  
ENGINE, STATOR VANE ACTUATOR  
ENGINE, TAILCONE  
ENGINE, TAILCONE, DPTD INFLT  
ENGINE, TAILPIPE, DPTD INFLT  
ENGINE, TD SYSTEM  
ENGINE, THROTTLE  
ENGINE, THUNDERSTORM  
ENGINE, TORQUE  
ENGINE, TORQUE METERING SYS  
ENGINE, TORQUE XDUCER  
ENGINE, TURBINE  
ENGINE, WASH  
ENGINE, WIRING HARNESS  
ENGINE, ZONE 2 OVHT  
ENGINE, ZONE 2 OVHT, DETECTOR

FENESTRON, BLADES  
 FENESTRON, FOD  
 FENESTRON, GROUND HANDLING  
 FENESTRON, GROUND STRIKE  
 FENESTRON, STRIKE  
 FENESTRON, TOWING

FIRE BOTTLE, INADVERTANT DISCHARGE  
 FIRE, GROUND EQUIP

FLARES

FLOAT BAG, DEPLOYED INFLT  
 FLOAT BAG, INADVERTANT DEPLOYMENT  
 FLOAT BAGS

FLT COMPUTER

FLT CONTROLS  
 FLT CONTROLS, AILERON  
 FLT CONTROLS, AILERON BOOST PACKAGE  
 FLT CONTROLS, AILERON, WIND  
 FLT CONTROLS, AIRBRAKE  
 FLT CONTROLS, BINDING  
 FLT CONTROLS, COLLECTIVE  
 FLT CONTROLS, COLLECTIVE, BINDING  
 FLT CONTROLS, COLLECTIVE, DOWNLOCK  
 FLT CONTROLS, COLLECTIVE, SERVO  
 FLT CONTROLS, COUPLING  
 FLT CONTROLS, COUPLING, MIXING UNIT  
 FLT CONTROLS, CYCLIC  
 FLT CONTROLS, CYCLIC, BINDING  
 FLT CONTROLS, CYCLIC, TRIM  
 FLT CONTROLS, ELEVATOR  
 FLT CONTROLS, ELEVATOR BOOST PACK  
 FLT CONTROLS, ELEVATOR, TRIM  
 FLT CONTROLS, FLAPS  
 FLT CONTROLS, FLAPS, GROUND EQUIP  
 FLT CONTROLS, FLAPS, MOISTURE  
 FLT CONTROLS, FOD  
 FLT CONTROLS, ICING  
 FLT CONTROLS, LATERAL SERVO  
 FLT CONTROLS, LOCKUP  
 FLT CONTROLS, RUDDER  
 FLT CONTROLS, RUDDER BOOST PACKAGE  
 FLT CONTROLS, RUDDER, TOWING  
 FLT CONTROLS, RUDDER, TRIM  
 FLT CONTROLS, RUDDER, WIND  
 FLT CONTROLS, SERVO  
 FLT CONTROLS, SLATS  
 FLT CONTROLS, UNCOMMANDED MVMT  
 FLT CONTROLS, WEATHER

FLT DIRECTOR

FLT INSTRUMENTS  
 FLT INSTRUMENTS, ALTIMETER  
 FLT INSTRUMENTS, BDHI  
 FLT INSTRUMENTS, CMS  
 FLT INSTRUMENTS, DDU  
 FLT INSTRUMENTS, ECA  
 FLT INSTRUMENTS, FMS

FLT INSTRUMENTS, LIGHTING  
 FLT INSTRUMENTS, PITOT/STATIC SYS  
 FLT INSTRUMENTS, RADALT  
 FLT INSTRUMENTS, RADALT, CYCLING  
 FLT INSTRUMENTS, RADAR  
 FLT INSTRUMENTS, SMOKE/FUMES

FUEL SPILL

FUEL SYS  
 FUEL SYS, 7 MICRON FILTER  
 FUEL SYS, BOOST PUMP  
 FUEL SYS, CAP  
 FUEL SYS, CELL  
 FUEL SYS, COMPUTER  
 FUEL SYS, CONTAMINATION  
 FUEL SYS, FEEDTANK  
 FUEL SYS, FILTER  
 FUEL SYS, FILTER BYPASS  
 FUEL SYS, FLAPPER VALVE  
 FUEL SYS, FUELING  
 FUEL SYS, FUMES  
 FUEL SYS, FUMES, LINE  
 FUEL SYS, JETTISON VALVE  
 FUEL SYS, LEAK  
 FUEL SYS, LINE  
 FUEL SYS, MANAGEMENT  
 FUEL SYS, MANIFOLD  
 FUEL SYS, MOTIVE CHECK FLOW VALVE  
 FUEL SYS, O'RING  
 FUEL SYS, PRESS  
 FUEL SYS, PRESS, XMITTER  
 FUEL SYS, PUMP  
 FUEL SYS, SPILL  
 FUEL SYS, TANKS  
 FUEL SYS, TRANSFER PUMP  
 FUEL SYS, TRANSFER VALVE  
 FUEL SYS, VALVE

GEARUP LANDING

GROUND EQUIP

GYRO  
 GYRO, ATTITUDE  
 GYRO, COMPASS  
 GYRO, PORT  
 GYRO, STARBOARD  
 GYRO, VERTICAL  
 GYRO, YAW RATE

HANGAR

HARDLANDING  
 HARDLANDING, AUTO  
 HARDLANDING, WATER

HAZMAT EXPOSURE

HIFR

HOIST

HOIST, ASSEMBLY	INDICATOR, FUEL
HOIST, BASKET	INDICATOR, FUEL, FEEDTANK
HOIST, BOAT	INDICATOR, FUEL, FILTER
HOIST, BOATCREW	INDICATOR, FUEL, FILTER BYPASS
HOIST, CABLE	INDICATOR, FUEL, PRESS
HOIST, CABLE, FOULED	INDICATOR, FUEL, PUMP
HOIST, CABLE, PARTED	INDICATOR, GENERATOR
HOIST, CABLE, SHEARED	INDICATOR, HYD SYS
HOIST, CONTROL PANEL	INDICATOR, LIMIT LT
HOIST, DOOR	INDICATOR, MGB
HOIST, HOOK	INDICATOR, MGB, CHIP LT
HOIST, HYD SYS	INDICATOR, MGB, FIRE LT
HOIST, RESCUE SWIMMER	INDICATOR, MGB, NR
	INDICATOR, MGB, OIL PRESS
HORZ STAB	INDICATOR, MGB, OIL TEMP
HORZ STAB, GROUND EQUIP	INDICATOR, MGB, PUMP
HORZ STAB, ICE	INDICATOR, MGT
HORZ STAB, TOWING	INDICATOR, MLG
	INDICATOR, NLG
HYD JENNY	INDICATOR, NR TACH
	INDICATOR, PRI HYD SYS
HYD SYS	INDICATOR, Q UNIT
HYD SYS, FILTER	INDICATOR, ROTOR BRAKE
HYD SYS, LINE	INDICATOR, SEC HYD SYS
HYD SYS, PRESS	INDICATOR, TORQUE XDUCER
HYD SYS, PRESS, CAP	INDICATOR, TRIPLE TACH
HYD SYS, PRESS, XMITTER	INDICATOR, TRIPLE TORQUE
HYD SYS, PUMP	INDICATOR, WARNING HORN
HYD SYS, RESERVOIR	INDICATOR, WCA/MASTER WARNING LT
HYD SYS1	INDICATOR, ZONE 2 OVHT
HYD SYS1, PRESS	
HYD SYS1, PRESS, XMITTER	INJURY
HYD SYS1, PUMP	INJURY, BACK
HYD SYS1, RESERVOIR	INJURY, BURN
HYD SYS2	INJURY, CABIN PRESSURE
HYD SYS2, PRESS	INJURY, CARGO PALLET
HYD SYS2, PUMP	INJURY, EARS
HYD SYS2, RESERVOIR	INJURY, EARS, CABIN PRESSURE
	INJURY, ELECTRICAL
IGB, CHIP LT	INJURY, EYES
IGB, CHIP LT, DETECTOR	INJURY, EYES, FUEL
IGB, CHIP LT, METAL	INJURY, EYES, HYD FLUID
IGB, CHIP LT, NO METAL	INJURY, FALL
IGB, FOD	INJURY, FINGER
	INJURY, FIRE BOTTLE
ILLNESS, AIRCREW	INJURY, FUEL, FUMES
	INJURY, FUMES
INDICATOR	INJURY, GROUND EQUIP
INDICATOR, CCD	INJURY, HAND
INDICATOR, DOOR LT	INJURY, HEAD
INDICATOR, ECU	INJURY, HOISTING
INDICATOR, ELECTRICAL	INJURY, JACKING
INDICATOR, ENG	INJURY, MRB, HEAD
INDICATOR, ENG, FIRE DETECTION SYS	INJURY, RADAR EXPOSURE
INDICATOR, ENG, FIRE LT	INJURY, RESCUE SWIMMER
INDICATOR, ENG, ITT	INJURY, TEETH
INDICATOR, ENG, OIL	
INDICATOR, ENG, OIL PRESS	INPUT MODULE
INDICATOR, ENG, OIL TEMP	INPUT MODULE, CHIP LT, CHIPS
INDICATOR, ENG, TORQUE	INPUT MODULE, CHIPT LT, DETECTOR
INDICATOR, ENGINE, NG	
INDICATOR, ENGINE, NP	JETTISON, FUEL TANK

JETTISON, LOAD

LIFE SUPPORT EQUIP

LIGHTNING STRIKE  
LIGHTNING STRIKE, AIRFRAME  
LIGHTNING STRIKE, RADOME

MAIN ROTOR  
MAIN ROTOR, BRAKE  
MAIN ROTOR, FREQ ADAPTER

MERCURY SPILL, MANOMETER

MGB  
MGB, CHIP LT  
MGB, CHIP LT, BEARING  
MGB, CHIP LT, CHIPS  
MGB, CHIP LT, DETECTOR  
MGB, CHIP LT, FLAKES  
MGB, CHIP LT, FUZZ  
MGB, CHIP LT, MAKING METAL  
MGB, CHIP LT, METAL  
MGB, CHIP LT, NO METAL  
MGB, CHIP LT, PARTICLES  
MGB, CHIP LT, SLIVERS  
MGB, FIRE DETECTION SYS  
MGB, FOD  
MGB, FREEWHEELING UNIT  
MGB, GROUND HANDLING  
MGB, OIL  
MGB, OIL LINE  
MGB, OIL PRESS  
MGB, OIL PRESS, CONTAMINATION  
MGB, OIL PRESS, FILTER BOWL  
MGB, OIL PRESS, PUMP  
MGB, OIL PRESS, XDUCER  
MGB, OIL PRESS, XMITTER  
MGB, OIL TEMP  
MGB, OIL, FILTER BOWL  
MGB, OIL, FILTER BYPASS  
MGB, OVERSPEED  
MGB, OVERSPEED, AUTO  
MGB, OVERTORQUE  
MGB, OVERTORQUE, AUTO  
MGB, OVERTORQUE, INSPECTION  
MGB, OVERTORQUE, PILOT  
MGB, OVERTORQUE, REMOVED  
MGB, OVERTORQUE, REPLACED

MIDAIR, COMM

MLG  
MLG, ANTI-SKID  
MLG, BRAKES  
MLG, DOOR  
MLG, FAILED TO EXTEND  
MLG, FAILED TO EXTEND, MICROSWITCH  
MLG, FAILED TO RETRACT  
MLG, FAILED TO RETRACT, MICROSWITCH  
MLG, FAILED TO RETRACT, UPLOCK  
MLG, FAILED TO RETRACT, WOW SWITCH

MLG, HYD SYS  
MLG, SCISSOR SWITCH  
MLG, SQUAT SWITCH  
MLG, SWITCH  
MLG, TIRES  
MLG, TIRES, BRAKES  
MLG, TOWING  
MLG, UNSAFE  
MLG, UNSAFE, DOOR  
MLG, UNSAFE, ICE  
MLG, UNSAFE, MICROSWITCH  
MLG, UNSAFE, UPLOCK

MRB  
MRB, ANTI-FLAPPING STOP  
MRB, BLADE POCKET  
MRB, BONDING WIRE  
MRB, CHECKSTAND  
MRB, COWLING  
MRB, COWLING, DPTD INFLT  
MRB, DAMPER  
MRB, DEICE HARNESS  
MRB, ENGINE COWLING  
MRB, FIREWALL  
MRB, FOD  
MRB, FOD, HARD  
MRB, GROUND EQUIP  
MRB, GROUND HANDLING  
MRB, HOISTING  
MRB, IBIS  
MRB, STATIC WICK  
MRB, STRIKE  
MRB, STRIKE, AIRFRAME  
MRB, STRIKE, COWLING  
MRB, STRIKE, GROUND HANDLING  
MRB, STRIKE, TAIL PYLON  
MRB, STRIKE, TAXIING  
MRB, TIP CAP  
MRB, TOWING  
MRB, WEATHER

NAVIGATION  
NAVIGATION, GPS

NLG  
NLG, ACTUATOR  
NLG, DOOR  
NLG, FAILED TO EXTEND  
NLG, MICROSWITCH  
NLG, STEERING  
NLG, STEERING, ICE  
NLG, STRUT  
NLG, TOWBAR  
NLG, TOWING  
NLG, UNSAFE  
NLG, UNSAFE, MICROSWITCH  
NLG, WHEEL

NMAC  
NMAC, CIV  
NMAC, COMM  
NMAC, HELO

NMAC, MIL	SMOKE/FUMES, INSULATION
NON-CG PROPERTY	SMOKE/FUMES, O2 MASK
	SMOKE/FUMES, WIPER MOTOR
NVG	STABILATOR
PADS	STABILATOR, ACTUATOR
PADS, AIRFRAME	STABILATOR, AMP
PADS, DRAIN MAST	STABILATOR, TRIM
PADS, DROP	STBY HYD SYS
PADS, DROP CHUTE	T/R
PADS, DROP HANDLE	T/R, DRIVE SHAFT
PADS, DROP HOOK	T/R, FOD
PADS, LINE CUTTER	T/R, HUB ASSEMBLY
PADS, NON-CG PROPERTY	T/R, SERVO
PADS, STATIC/TRAIL LINE	T/R, STRIKE
PRESSURIZATION SYS	TAIL PYLON
PRESSURIZATION, BLEED AIR	TAIL SKID
PRI HYD SYS	TAIL SKID, GROUND
PRI HYD SYS, LINE	TAIL SKID, STRIKE
PRI HYD SYS, PRESS, XMITTER	TAIL WHEEL
PRI HYD SYS, PUMP	TAIL, GROUND EQUIP
PRI HYD SYS, SERVO	TDP LOCKUP
PROP/JET WASH	TGB
PROP/JET WASH, NON-CG PROPERTY	TGB, CHIP LT
RADAR	TGB, CHIP LT, CARBON
RADOME, ANTI-ICE	TGB, CHIP LT, DETECTOR
RADOME, GROUND HANDLING	TGB, CHIP LT, FLAKES
RADOME, PRESSURIZATION	TGB, CHIP LT, FUZZ
RADOME, TOWING	TGB, CHIP LT, METAL
RADOME, WEATHER	TGB, CHIP LT, NO METAL
ROTORWASH	TGB, CHIP LT, SLIVERS
ROTORWASH, NON-CG PROPERTY	TOOL CONTROL
RUNWAY, INCURSION	TOWBAR
SEC HYD SYS	TRB, DELAMINATION
SEC HYD SYS, CONTAMINATION	TRB, FOD
SEC HYD SYS, LEAK	TRB, FOD, HARD
SEC HYD SYS, PRESS	TRB, GROUND HANDLING
SEC HYD SYS, PRESS, XMITTER	UTILITY HYD SYS
SEC HYD SYS, PUMP	UTILITY HYD SYS, PUMP
SEC HYD SYS, SERVO	VERT FIN
SEC HYD SYS, WIRING	VERT FIN, GROUND HANDLING
SHIP/HELO, DAMAGE	VERT FIN, TIPCAP
SIGNAL DATA CONVERTER	VERT FIN, TOWING
SLING LOAD	VERT STAB
SLING LOAD, INADVERTANT RELEASE	VERT STAB, GROUND EQUIP
SMOKE/FUMES	VERT STAB, TOWING
SMOKE/FUMES SIU	VIBRATIONS
SMOKE/FUMES, ECA	VIBRATIONS, AFCS
SMOKE/FUMES, ECU	VIBRATIONS, AIRFRAME



VIBRATIONS, BATTERY  
VIBRATIONS, ENGINE  
VIBRATIONS, MGB  
VIBRATIONS, MRB  
VIBRATIONS, MRB, SEPARATION  
VIBRATIONS, ROTOR, FREQ ADAPTOR  
VIBRATIONS, STARTER/GENERATOR  
VIBRATIONS, T/R  
VIBRATIONS, UNKNOWN

WAKE TURBULENCE

WEATHER, DOWNBURST  
WEATHER, TURBULENCE  
WEATHER, WINDSHEAR

WING  
WING RAFT, DEPLOYED  
WING RAFT, DEPLOYED INFLT  
WING, FUELING  
WING, GROUND EQUIP  
WING, GROUND HANDLING  
WING, JACKING  
WING, TAXIING  
WING, TOWING