

**BY ORDER OF THE COMMANDER  
56TH FIGHTER WING (AETC)**



**LUKE AFB INSTRUCTION 21-115**

**17 APRIL 2009**

Certified Current on 14 April 2013

**Maintenance**

**CRASHED AIRCRAFT DISPOSAL  
PROCEDURES**

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

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OPR: 56 MXG/MXQI  
OCR: 56 CMS     BEE  
      56 LRS     EOD  
      56 EMS

Certified by: 56 MXG/CC  
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Pages: 9

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It implements Air Force Policy Directive (AFPD) 21-1, *Managing Aerospace Equipment Maintenance* and Technical Order (TO) 1-1-638, *Repair and Disposal of Aerospace Vehicles*. It references Department of Defense (DoD) 4160.21-M, *Defense Material Disposition Manual*; DoD 4160.21-M-1, *Defense Demilitarization Manual*; Defense Logistics Agency Regulation (DLAR) 4145.25, *Storage and Handling of Compressed Gasses and Liquids in Cylinders, and of Cylinders*; and Consultative Letter, AL-OE-BR-CL-1998-0108, *Response to Aircraft Mishaps Involving Composite Materials*. This instruction establishes procedures and responsibilities for all base agencies required to properly, safely, and efficiently dispose of the remains of a crashed aircraft. This instruction replaces 56 FW OI 21-9, *Crashed Aircraft Disposal Procedures*. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with AFMAN 33-363, *Management of Records*, and disposed of in accordance with the Air Force Records Disposition Schedule located at [https://afrims.amc.af.mil/rds\\_series.cfm](https://afrims.amc.af.mil/rds_series.cfm).

**DEFINITION:** A salvageable item is defined as an item needing only very minor or superficial repairs. The salvaged item needs to be turned in to supply according to the directions outlined on the Aircraft Turn-In Checklist ATIC (**Attachment 1**).

## **1. Responsibilities**

### **1.1. Owing Aircraft Maintenance Unit (AMU) will:**

- 1.1.1. Assign an Aircraft Disposal Officer (ADO) as the point of contact and to coordinate all aspects of wreckage disposal.
  - 1.1.2. Contact Hill AFB, Migration Planning Branch, 500th Aircraft Sustainment Squadron (ACSS)/GFLA for two copies of a "Save List" (DSN 586-1452 or 777-3585) (Requires aircraft tail number and Mission Design Series designator).
  - 1.1.3. Execute the ATIC (**Attachment 1**) and the DRMS Aircraft Certification Document (ACD) (**Attachment 2**). Ensure DRMS ACD has the appropriate signatures
  - 1.1.4. Assist the responsible clean-up organization (as needed) if 56th Aerospace Medical Squadron (AMDS) Bioenvironmental Engineering (BEE) identifies a potential health hazard.
  - 1.1.5. Recover salvageable components identified on "Save List" for 56th Logistics Readiness Squadron (LRS) Flight Service Center processing.
  - 1.1.6. Ensure all classified items are removed from the wreckage and turned in for 56 LRS Flight Service Center processing or demilitarized in accordance with (IAW) DoD 4160.21-M-1.
  - 1.1.7. Ensure Explosive Ordnance Disposal (EOD) personnel evacuate/save damaged aircraft weapons systems and ordnance. **Do not** co-mingle Ammunition, Explosives and Dangerous Article (AEDA) items with other wreckage.
  - 1.1.8. Recover aircraft batteries or cells for 56th Component Maintenance Squadron (CMS) Electro-Environmental section disposal.
  - 1.1.9. Using applicable technical data identify any components containing radioactive materials and coordinate with BEE for disposal.
  - 1.1.10. Drain all structures and components of residual fluids and properly dispose of fluids.
  - 1.1.11. Ensure all compressed gas cylinders are depleted and conform to [DLAR 4145.25](#), section 8.
  - 1.1.12. Coordinate with DRMS, Tucson representative for containers and 56 LRS to move the wreckage.
  - 1.1.13. Place the wreckage into containers.
  - 1.1.14. Coordinate the turn-in of the containers and the AEDA (see **paragraph 1.1.7.**) residue with 56 LRS with DRMS, Tucson representative.
- 1.2. The 56 FW support sections or flights listed below will accomplish the following tasks:

**1.2.1. EOD:**

1.2.1.1. Verify all explosive components are removed from the wreckage prior recovery and/or turn in to DRMS Tucson. Verification will include ensuring the interior spaces of hazardous component(s) can be visually inspected.

1.2.1.2. Identify location of ordnance and hazardous components, safely and properly recover all hazardous components and ordnance required by the Aircraft Investigation Board (AIB). Segregate all explosive hazards from wreckage prior to recovery efforts. Escape system components will be inspected by life support/egress personnel prior to EOD safing the components.

1.2.1.3. Certify that the wreckage is safe on the DRMS ACD. The certifier must be a trained EOD craftsman or journeyman appointed by the Civil Engineering Squadron commander to perform these duties and be identified on an appointment letter on file at the EOD flight.

**1.3. BEE:**

1.3.1. Evaluate the wreckage storage area for potential carbon fiber and other health hazards, provide guidance in clean-up efforts, and identify all personal protective equipment requirements.

**1.4. 56 CMS:**

1.4.1. Fuel System Repair Section:

1.4.1.1. Recover hydrazine tank and store at authorized hydrazine facility while awaiting disposition instructions.

1.4.1.2. Properly prepare hydrazine tank for shipment to authorized depot facility for inspection or disposal.

1.4.1.3. Electro-Environmental System Section:

1.4.1.3.1. Process and dispose of all aircraft batteries using established procedures.

**1.4.2. 56 LRS:**

1.4.2.1. 56 LRS Flight Service Center:

1.4.2.2. Process and route crashed aircraft components IAW found-on-base turn-in procedures.

**1.4.3. 56th Equipment Maintenance Squadron (56 EMS):**

#### 1.4.3.1. Armament Systems Flight:

1.4.3.1.1. Inspect the wreckage for salvageable weapons system items identified on the "Save List," and process items through 56 LRS Flight Service Center.

#### 1.4.3.2. Transient Alert Section:

1.4.3.2.1. Clean up identified carbon fiber hazards in the aircraft storage area IAW BEE directions employing trained technicians using proper PPE for identified hazards.

1.4.3.2.2. Certify on the DRMS ACD that carbon fiber parts being turned in to DRMS, Tucson representative have had a fixative applied IAW applicable directives.

### 2. Aircraft Disposal Procedures:

2.1. Foreign Military Sales aircraft should be disposed of according to owning country instructions.

2.2. The ADO, using an ATIC ( **Attachment 1**), will ensure aircraft wreckage is turned-in to DRMS, Tucson representative.

2.2.1. Non-salvageable **classified items must be demilitarized** by the owning organization before turning them in with the wreckage.

2.2.2. Prior to turn-in to DRMS, Tucson representative, certify that the wreckage is safe on the DRMS ACD. The certifier must be a trained EOD craftsman or journeyman appointed by the Civil Engineering Squadron commander to perform these duties and be identified on an appointment letter on file at the EOD flight . The owning AMU will keep these components segregated from the normal wreckage and identify them to DRMS, Tucson representative personnel.

2.2.3. All items from the aircraft wreckage, except those outlined in 2.2.1 and 2.2.2, do not need to be individually demilitarized if they are to be turned in as part of the wreckage. DRMS, Tucson representative will make the demilitarization a "condition of sale." Items disposed of separate from the wreckage may require demilitarization by the owning agency prior to turn in to DRMS, Tucson representative.

2.2.4. The ADO will ensure all items on the DRMS ACD ( **Attachment 2**) are completed and certified by the performing work centers.

2.2.5. After the ATIC is completed, the owning squadron maintenance authority will certify on the DRMS ACD listed items are complied with and the aircraft wreckage is hazard free.

2.2.6. The owning squadron commander will review and sign the DRMS ACD checklist.

2.2.7. The completed DRMS ACD and a completed DD Form 1348-1A, **ISSUE RELEASE/RECEIPT DOCUMENT**, will be turned in to DRMS, Tucson representative along with the aircraft wreckage.

**3. Adopted Forms:**

AF IMT 2519, *All Purpose Checklist (56 MXG/QA Overprint)*

AF Form 451, *Request for Packing Service*

DD Form 1348-1A, *Issue Release/Receipt Document*

KURT F. NEUBAUER  
Brigadier General, USAF  
Commander

2 Attachments:

1. Aircraft Turn-In Checklist
2. DRMS Aircraft Certification Document

## Attachment 1

## AIRCRAFT TURN IN CHECKLIST (SAMPLE)

ALL PURPOSE CHECKLIST		PAGE 1 OF 3 PAGES		
TITLE/SUBJECT/ACTIVITY/FUNCTIONAL AREA		OPR	DATE	
AIRCRAFT TURN IN CHECKLIST		56 MXG/QA		
NO.	ITEM (Assign a paragraph number to each item. Draw a horizontal line between each major paragraph.)			
	<p><b>IMPORTANT:</b> Classified or explosive items <b>must</b> be demilitarized prior to turn in to DRMS, Tucson representative. All other items from the aircraft wreckage <b>do not</b> need to be individually demilitarized if they are to be turned in as part of the wreckage. DRMS, Tucson representative will make the demilitarization a "condition of sale." If an item from the aircraft wreckage is turned in separately verify item demilitarization requirements in-accordance-with DoD 4160.21-M-1. Demilitarization may need to be accomplished by the owning agency. Contact DRMS, Tucson representative for turn-in requirements <b>and</b>, if demilitarization is required, Bioenvironmental Engineering for a hazard evaluation.</p> <p>PERFORMING ACTION WORKCENTER</p> <p>(1) <b>AMU.</b> Appoint Aircraft Disposal Official (ADO) as POC to ensure proper coordination of the aircraft disposal process.</p> <p>(2) <b>AMU.</b> a. Contact Hill AFB, Migration Planning Branch 500 ACSS/GFLA (DSN 586-1452 or 777-3585) for two copies of the "Save List" (provide the aircraft tail and model numbers and an address to mail the "Save Lists" to). b. Deliver one copy of "Save Lists" to 56 LRS Flight Service Center/LGRMF.</p> <p>(3) <b>AMU.</b> Coordinate with the transportation squadron vehicle dispatch for a vehicle and DRMS, Tucson representative for containers, if available, to be delivered to the wreckage storage area. Note: The vehicle NCO will need to contact dispatch for the scheduling of a vehicle.</p> <p>(4) <b>AMU.</b> Coordinate a meeting at the current wreckage storage area between EOD, Bioenvironmental Engineering (BEE), Fuels System Section and Armament Flight to coordinate personnel and resources in the following tasks: a. Assessment of storage area for improperly contained composite fibers and/or other potential health hazards. b. Identify areas needing immediate clean up. c. Plan for areas needing follow up attention. Example: bags or containers of loose carbon fiber debris may have to be reopened for EOD inspection and may require additional applications of a fixative to safe disturbed/exposed carbon fiber. d. Implement steps to concurrently inspect (by all agencies) and load wreckage into containers.</p>			

NO.	ITEM			
	<p>(Assign a paragraph number to each item. Draw a horizontal line between each major paragraph.)</p> <p><b>PERFORMING ACTION</b></p> <p><b>WORKCENTER</b></p>			
(5)	<p><b>*NOTE:</b> Steps 5 through 9 should be done concurrently to minimize duplication of effort and the disturbance of settled carbon fiber material.</p> <p><b>EOD.</b></p> <ul style="list-style-type: none"> <li>a. Re-inspect all aircraft wreckage for hazardous components and safe as required.</li> <li>b. Identify location of ordnance and hazardous components, safe and properly recover all hazardous components and ordnance required by A.I.B. Segregate all explosive hazards from wreckage prior to recovery efforts. Escape system components will be inspected by life support/egress personnel prior to EOD safing the components.</li> <li>c. Prepare a 1348-1A for the AEDA residue. Individually list each item covered by the 1348-1A and certify on the document that all AEDA residue is inert. File a copy of the 1348-1A with the EOD report on the accident.</li> <li>d. Package and mark the certified AEDA residue and turn it over to the AMU for turn-in.</li> </ul>			
(6)	<ul style="list-style-type: none"> <li>e. Certify that the wreckage is safe on the DRMS Aircraft Certification Document (ACD). The certifier must be a trained EOD craftsman or journeyman appointed by the Civil Engineer Squadron commander to perform these duties and be identified on an appointment letter on file at the EOD flight.</li> </ul> <p><b>Fuel Systems Repair.</b></p>			
(7)	<ul style="list-style-type: none"> <li>a. Recover hydrazine tank and store at authorized hydrazine facility while awaiting disposition instructions.</li> <li>b. Properly prepare hydrazine tank for shipment to authorized depot facility for inspection or disposal.</li> </ul> <p><b>Transient Alert.</b></p>			
(8)	<ul style="list-style-type: none"> <li>a. Coordinate with BEE for actions required to safe the area if a composite fiber hazard exists.</li> <li>b. Verify carbon fiber material has been treated per applicable directives and sign the DRMS ACD. (May be required during the final movement of wreckage to ensure previously unexposed areas are inspected.)</li> </ul> <p><b>AMU.</b></p>			
	<ul style="list-style-type: none"> <li>a. Remove salvageable classified items from wreckage and set aside. Ensure ALL other classified items are demilitarized IAW DoD 4160.21-M-1 and turn in with wreckage.</li> <li>b. Remove salvageable components identified on the "Save List" from the wreckage.</li> <li>c. Remove all batteries and route them to the Electro-Environmental Shop for disposal.</li> <li>d. Determine through applicable technical data, and remove from the wreckage, any components that contain radioactive materials. Contact BEE for disposal instructions.</li> <li>e. Ensure compressed gas cylinders are depressurized prior to complying with disposition instructions outlined in DLAR 4125.25.Section 8, paragraph E.</li> <li>f. Ensure aircraft structures and components are purged of fluids.</li> </ul>			

ALL PURPOSE CHECKLIST		PAGE 3 OF 3 PAGES		
TITLE/SUBJECT/ACTIVITY/FUNCTIONAL AREA <b>AIRCRAFT TURN-IN CHECKLIST</b>		OPR 56 MXG/QA	DATE	
NO.	ITEM <i>(Assign a paragraph number to each item. Draw a horizontal line between each major paragraph.)</i>			
(9)	<p><b>Armament Flight.</b> Recover any salvageable weapons system components identified on the "Save List."</p> <p><b>NOTE:</b> The organization responsible for removing a salvageable item identified on the "Save List" from the wreckage will use the following procedures to turn them into supply.</p>			
(10)	<p><b>Responsible Org.</b> After all salvageable items on the "save list" have been removed from the wreckage turn in the items using the following procedures:</p> <ul style="list-style-type: none"> <li>a. Fill out two DD Forms 1577-2 (green tags) for each item using condition code "P" and annotate in the remarks section that the item is from a crashed aircraft.</li> <li>b. Complete an AFTO Form 350 for each item and annotate in the discrepancy block that the item is from a crashed aircraft.</li> <li>c. Complete an AF Form 451: Request for Packing Service for each item (the unit reusable containers monitor can assist in completion of the form).</li> <li>d. Deliver items, with the appropriate tags, to the 56 LRS Flight Service Center.</li> </ul>			
(11)	<p><b>Electro-Environmental Section.</b> Process and dispose of aircraft batteries/cells through established channels.</p>			
(12)	<p><b>AMU.</b> Ensure all loose carbon fiber material are placed in large plastic rip resistant bags (double-bag configuration). The bags must have a wall thickness of at least 6 mils and fit into a 55-gallon storage drum. All large pieces/structures of carbon fiber will be turned in to DRMS, Tucson representative.</p>			
(13)	<p><b>AMU.</b> Complete DRMS ACD and DD Form 1348-1A for the wreckage with the assistance of owning AMU supply.</p>			
(14)	<p><b>AMU.</b> Coordinate with 56 LRS for a vehicle and DRMS, Tucson representative to establish a time to turn in the wreckage and AEDA residue.</p>			

Attachment 2

DRMS Aircraft Certification Document (Sample)

DRMS AIRCRAFT CERTIFICATION DOCUMENT			
AIRCRAFT TAIL NUMBER: _____		DOC NO.	
AMU: _____			
PURPOSE: THIS DOCUMENT WAS DEVELOPED TO ENSURE ALL AIRCRAFT SYSTEMS AND COMPONENTS ARE CERTIFIED SAFE PRIOR TO ACCEPTANCE BY DRMS, TUCSON REPRESENTATIVE. THIS DOCUMENT MUST BE COMPLETE AND SUBMITTED WITH A DD FORM 1348-1A UPON AIRCRAFT TURN IN TO DRMS, TUCSON REPRESENTATIVE.			
AREA	P/W/C	CERTIFIED BY: (PRINT NAME, RANK AND SIGN)	DATE
" I certify that the item or items listed hereon have been inspected by me and, to the best of my knowledge and belief, contain no items of an explosive nature." (certifier must be on an appointment letter)	EOD		
COMPOSITE MATERIALS HAVE HAD A FIXATIVE APPLIED IAW APPLICABLE DIRECTIVES	TA SECTION		
SALVAGEABLE CLASSIFIED ITEMS REMOVED AND NONSALVAGEABLE CLASSIFIED ITEMS DEMILITARIZED IAW DoD 4160.21-M-1	AMU		
SALVAGEABLE SAVE LIST ITEMS REMOVED	AMU		
ALL BATTERIES REMOVED	AMU		
RADIOACTIVE MATERIALS REMOVED	AMU		
AIRCRAFT STRUCTURES AND COMPONENTS PURGED OF FLUIDS	AMU		
COMPRESSED GAS CYLINDERS SAFED IAW DLAR 4145.25, SECTION 8, PARA E	AMU		
" I certify that the above items have been completed and that the aircraft is hazard free. I also state that this wreckage may contain items requiring demilitarization and I am releasing it to DRMS, Tucson representative with the understanding that the demilitarization will be a 'condition of sale'."	AMU/OIC		
REVIEWED BY	SQ/CC		