| ABBREVIATED AVIATION ACCIDENT REPORT (AAAR)<br>FOR ALL CLASS C, D, E, F, COMBAT A AND B, AND ALL AIRCRAFT GROUND<br>For use of this form, see DA Pamphlet 385-40; the proponent agency is OCSA. | *REQUIREMENTS CONTROL SYMBOL*<br>CSOCS-309 |
|---|---|

**COMPLETE BLKS 1-18 FOR ALL ACDTS, NO FURTHER ENTRY IS REQUIRED FOR CLASS D, E, AND F ACDTS NOT INVOLVING HUMAN ERROR / INJURY.**

| 1. DATE/CASE NO. OF ACCIDENT | a. (YYYYMMDD) 20000420 | b. Time (Lcl) 14:00 |
|---|---|---|

**2.** a. Classification [ ] A [ ] B [ ] C [X] D [ ] E [ ] F D

b. Category [X] Flight [ ] Flight Related [ ] Acft Ground [ ] UAS A - Flight

**One-Liner**

Ramp actuator possibly had a problem similar to a hardover. Ramp struck the ground during landing sequence.

| 1c. Aircraft Serial Number 8424175 | 3. TYPE OF ACFT (MTDS) CH47D - CH47D |
|---|---|

**4. PERIOD OF DAY** [ ] Dawn [X] Day [ ] Dusk [ ] Night 2 - Day

| 5.NO ACFT INVOLVED 1 | 6. NEAREST MIL INSTALLATION 06419 Ft Irwin, CA |
|---|---|

**7. ACCIDENT LOCATION**

a. [X] On-Post [ ] Off-Post Y - Yes

b. [ ] On Airfield [X] Not on Airfield N - No

| c. City (Nearest to acdt site) | d. State | e. Country (If not USA) |
|---|---|---|
| NotAvailableAtConversion | 06 - California | US - United States |

**f. Grid or Latitude / Longitude** Not Reported Not Reported Not Reported.Not Reported / Not Reported Not Reported.Not Reported

**8. ORGANIZATION INVOLVED**

| a. Name of Unit | c. Home Station | d. Army HQ |
|---|---|---|
| Not Reported | 21128 - Ft Campbell, KY | (b)(3) -FORSCOM |

**b. UIC (6 Digit Unit Id Code)** **Aircraft Serial Number** 8424175

| UIC8 | UIC7 | UIC6 | UIC5 | UIC4 | UIC3 | UIC2 | UIC1 |
|---|---|---|---|---|---|---|---|
| (b)(3) | | | | | | | |
| A CO | | | 7/101AB | 159AVBD | 101ABDV | 18CORPS | FORSCOM |

**9. ORGANIZATION DEEMED ACCOUNTABLE (If same as block 8 leave blank)**

| a. Name of Unit | b. UIC (6 Digit Unit Id Code) | c. Home Station | d. Army HQ |
|---|---|---|---|
| Not Reported | (b)(3) - A CO | 21128 - Ft Campbell, KY | (b)(3) FORSCOM |

**b. UIC (6 Digit Unit Id Code)** **Aircraft Serial Number** 8424175

| UIC8 | UIC7 | UIC6 | UIC5 | UIC4 | UIC3 | UIC2 | UIC1 |
|---|---|---|---|---|---|---|---|
| (b)(3) | | | | | | | |
| A CO | | | 7/101AB | 159AVBD | 101ABDV | 18CORPS | FORSCOM |

| | | | |
|---|---|---|---|
| **10. ESTIMATED ACCIDENT COST** | **a. Acft Total Loss** | ☐ Yes ☒ No N - No | Serial- 8424175 |
| **b. Acft Damage (Excl man hr)** | $3,284 | **Responsible Owner** | A Army |
| **c. No. Man Hrs** 244 | **d. Man Hrs Cost** | $3,904 | **Aircraft Owner** A Army |
| **e. Other Damage Mil** | $0 | **Responsible Owner** | Not Reported Not Reported |
| **f. Civilian Damage** | $0 | **Responsible Owner** | Not Reported Not Reported |
| **g. Injury Cost** $0 | **h. Total (this aircraft)** | $7,188 | **i. Total (All Aircraft)** $7,188 |

| | | | | |
|---|---|---|---|---|
| **11. GEN. DATA** | **a. Msn** | **(1) Type (Trig, Svc, etc.)**<br>T - Training<br>Not Reported<br>Not Reported | **(2)** S - Single<br>☒ **Single-ship** ☐ **Multi-ship** | **b. Flight Plan** 0 - VFR<br>☐ **NA** ☒ **VFR** ☐ **IFR** |

| | |
|---|---|
| **c. Digital Source Collector Installed** R - Not Reported<br>☐ **Yes** ☐ **No** **If "Yes" Specify Type** Not Reported | **d. Night Vision Device/System In use** R - Not Reported<br>☐ **Yes** ☐ **No** **If "Yes" Specify Type** |
| **e. Fire** Not Reported<br>☐ **None** ☐ **Postcrash** ☐ **Inflight** ☐ **Other** | **f. Flammable Fluid Spillage (If "Yes" for Class A, B, and C acdts, attach DA Form 2397-6)**<br>☐ **Yes** ☐ **No** R - Not Reported |

**g. Field Training Exercise (FTX)** F - Field Exercise (FTX)

☒ **Yes** ☐ **No** **If "Yes" Name of FTX** 06 - Rotational Tng (NTC)

**Location Description** NotAvailableAtConversion

| | | |
|---|---|---|
| **Explosive Involved**<br>R Not Reported | **Present**<br>R Not Reported | **Secured**<br>R Not Reported |

| | | |
|---|---|---|
| **Source** 6 AAAR | **Coder** 9 | **Date Received** 15 Feb 2001 |
| **USASC Investigate** R Not Reported | **Advisor Sent** R Not Reported | **Transaction Date** 21 Feb 2001 |
| **ARAS Case ID** Not Reported | **Initial Notification Number** Not Reported | **RCAS Case ID** Not Reported |
| **Mil Grid Ref System** Not Reported | **Latitude** Not Reported | **Longitude** Not Reported |

| **12. FLIGHT DATA** | **Flight Duration** | **Phase of Operation (Enter max of 3 codes from Table 3-4 of DA Pam 385-40 or specify phase (e.g. hover, NOE, etc.)** | **Altitude AGL** | **Airspeed KIAS** | **Aircraft Weight** | **Overgross for Conditions** | |
|---|---|---|---|---|---|---|---|
| | | | | | | **Yes** | **No** |
| **a. At Emergency** | **Hours** 0<br>**Tenths** 3 | M - Landing Aircraft<br>Not Reported<br>Not Reported | Not Reported | Not Reported | 32000 | | |
| **b. At Impact /Acdt or Termination** | **Hours** #Error<br>**Tenths** #Error | Not Reported<br>Not Reported<br>Not Reported | Not Reported | Not Reported | Not Reported | Not Reported | Not Reported |

| | |
|---|---|
| **13. TYPE EVENTS (Enter max 3 codes from Table 3-2 DA Pam 385-40 or specify type event which best describes the acdt/incdt, e.g. tree strike, genderator failure, eng overspeed, hard landing, fuel exhaustion, dropped cargo, oil cooler bearing failure, etc.)** | 87 - Hydraulic System<br>Not Reported<br>Not Reported |

| **14. ACCIDENT CAUSE FACTORS (Enter D, S, or U to identify Definite, Suspected, or Undetermined causes)** | | | |
|---|---|---|---|
| | **a.** | N | **Human Error (If D or S complete blks 21, 23, &24)** |
| | **b.** | S | **Materiel Failure/Malfunction complete blks 21, 23, & 24)** |
| | **c.** | N | **Environmental (If D or S Complete blk 17)** |

**15. SUMMARY (Enter summary of acdt sequence from onset of emergency through termination of flight. For Class D, E, and F, include the type of materiel failure and/or environmental factors.)**

Acft was repositioning to re-arrange the acft parking plan. After landing, the PC noticed that the LCT's were not in the ground position and asked the FE at the ramp area to confirm ground contact light were on. The lights were not on, but the landing gear was fully on the ground. It was noticed at this time the ramp area had sustained sheet metal damage near that the ramp actuator attaches to the airframe. The ramp position was level to slightly above, IAW with (b)(3), (b)(6) and all other unit policies. Due to physical evidence, it could not be determined when the damage occured to the ramp actuator mounting point on the airframe. It is believed that the ramp actuator possibly had a problem similar to a hardover. After in-depth analysis, no physical evidence was found on the ground, or scratches and dent on the ramp to substantiate suspicions that the ramp struck the ground during landing sequence. The ramp actuator was replaced and a suppl AAAR will be submitted if CCAD tear-down analysis indicated problem with ramp actuator. The acft was returned to home station with no further damage.

**16. COMPONENT AND PART FAILURE/MALFUNCTION DATA (part that initiated failure/malfunction)**

| **Aircraft MTDS** | Not Reported - Not Reported | **Aircraft Serial #** | Not Reported |
|---|---|---|---|

| **Identification** | **Major Component** | **Part** |
|---|---|---|
| **a. Nomenclature** | Not Reported | Not Reported |
| **b. Type, Design, and Series** | Not Reported | |
| **c. Part Number** | Not Reported | Not Reported |
| **d. NSN** | Not Reported | Not Reported |
| **e. Manufacturer's Code** | Not Reported | Not Reported |
| **f. Part Serial No.** | Not Reported | Not Reported |

| **g. Cause Failure / Malfunction** | **(1) Materiel** | **(2) Maintenance** | **FGCODE (USACRC)** | **TYPEFL** | **CAUFL** |
|---|---|---|---|---|---|
| | Not Reported | Not Reported | | Not Reported | Not Reported |
| | **(3) Design** | **(4) Manufacture** | | | |
| | Not Reported | Not Reported | | | |

**17. ENVIRONMENTAL (Chk conditions at time of acdt.)**

**a. General** (1) [ ] IMC (2) [X] VMC (3) [ ] Unk — 2 - VMC

**b. Environmental Conditions**

| (1) Weather Conditions | | | | (2) Other Conditions | | | |
|---|---|---|---|---|---|---|---|
| (a) Hail | Not Reported | (g) Lightning | Not Reported | (a) Animals | Not Reported | (g) Glare | Not Reported |
| (b) Sleet | Not Reported | (h) Thunderstorm | Not Reported | (b) Fowl | Not Reported | (h) FOD | Not Reported |
| (c) Fog | Not Reported | (i) Gusty Winds | X WI Gusty Winds | (c) Surface | Not Reported | (i) Temperature | Not Reported |
| (d) Drizzle | Not Reported | (j) Freezing Rain | Not Reported | (d) Noise | Not Reported | (j) Vibration | Not Reported |
| (e) Rain | Not Reported | (k) Other | Not Reported | (e) Chemicals | Not Reported | (k) Dust | X OK Dust |
| (f) Snow | Not Reported | | | (f) Radiation | Not Reported | | |

| | | | |
|---|---|---|---|
| **Aircraft MTDS** | CH47D - CH47D | **Aircraft Serial #** | 8424175 |

**c. Acft Icing** [X] No [ ] Yes N - No

**d. Turbulence** [X] No [ ] Yes N - No

| | | | | | |
|---|---|---|---|---|---|
| **Accident Site** | **Secured** | R Not Reported | **Disturbed** | R Not Reported | **Photos** R Not Reported |

| | | | |
|---|---|---|---|
| **Multi Ship Number** | Not Reported | **Position in Flight** | Not Reported |

| | |
|---|---|
| **Digital Source Collector Type** | Not Reported |

| Injuries | Fatal | Disabling | Nondisabling | Missing | NotInjured |
|---|---|---|---|---|---|
| Occupants Military | Not Reported | Not Reported | Not Reported | Not Reported | Not Reported |
| Occupants Other | Not Reported | Not Reported | Not Reported | Not Reported | Not Reported |
| Non-Occupants Military | Not Reported | Not Reported | Not Reported | Not Reported | Not Reported |
| Non-Occupants Other | Not Reported | Not Reported | Not Reported | Not Reported | Not Reported |
| Total this Acft | | | | | |

| 18. BOARD PRESIDENT/ASO/POC (Name, Signature, and Date) | Grade | Branch | Address and Tel. No. |
|---|---|---|---|
| | | Not Reported | |
| | E-mail | | |

**COMPLETE BLKS 19 - 26 FOR ALL CLASS C, COMBAT CLASS A, B, ACFT GROUND CLASS A, B, C, AND ALL CLASS ACDTS INVOLVING HUMAN ERROR/INJURY.**

**19. MOON ILLUMINATION DATA (For night Class A, B, or C acdts. If blk a is "No", no other entry is required).**

| a. Moon Above Horizon [ ] Yes [ ] No | b. Moon Visible [ ] Yes [ ] No | c. Moon (Degrees Above Horizon) |
|---|---|---|
| R - Not Reported | R - Not Reported | Not Reported |

| | | | |
|---|---|---|---|
| **d. Percent of Moon Illumination** | Not Reported | **e. Moon (Clock Position from Flight Path/Nose of Acft)** | Not Reported |

| 20. WIRE STRIKE DATA (If "no" in blk a, no other entry is required) | | | |
|---|---|---|---|
| **Aircraft MTDS** | CH47D - CH47D | **Aircraft Serial #** | 8424175 |

| | | |
|---|---|---|
| **a. Wire Strike** ☐ **Yes** ☒ **No** N - No | **b. WSPS Installed** ☐ **Yes** ☐ **No** Z - Not Applicable | **c. WSPS Engaged Wire** ☐ **Yes** ☐ **No** Z - Not Applicable |
| **d. WSPS Cut Wire** ☐ **Yes** ☐ **No** Z - Not Applicable | **e. WSPS Functioned as Designed** ☐ **Yes** ☐ **No** Z - Not Applicable | |

| | | | |
|---|---|---|---|
| **Aircraft MTDS** | Not Reported | **Aircraft Serial #** | Not Reported |

**f. Wires Struck** **No.** Not Reported **Dia (inches)** Not Reported Not Reported

**21. PERSONNEL DATA (Complete for each crew member with access to flight controls or other personnel injured or having a contributing role in the accident, use additional forms as needed).**

| a. Name (last, first MI) | (1) SSN | (2) Grade | (3) Gender |
|---|---|---|---|
| PII Data | PII Data | Not Reported | Not Reported |

| (4) Duty | (5) SVC | (6) UIC (Assigned) | (7) Contributing Role ☐ D ☐ S ☐ N ☐ U |
|---|---|---|---|
| Not Reported | Not Reported | Not Reported | PII Data |

| (8) On Flt Controls ☐ Yes ☐ No | (9) (a) Lab Test ☐ Yes ☐ No | (9) (b) Results ☐ Pos ☐ Neg |
|---|---|---|
| Not Reported | Not Reported | Not Reported |

| (10) Activity (Last 24 Hrs) | (a) Hrs Slept Not Reported | (b) Hrs Worked Not Reported | (c) Hrs Flown Not Reported |
|---|---|---|---|

| (11) (a) RL ☐ 1 ☐ 2 ☐ 3 | (b) FAC ☐ 1 ☐ 2 ☐ 3 | (c) DATE Redeployed from Combat Zone |
|---|---|---|
| Not Reported | Not Reported | Not Reported |

| (12) Injury (if "yes" complete DA Form 2397-9) | (13) Total Flight Hours (acdt MTDS) | (14) Total Flight Hours |
|---|---|---|
| ☒ Yes ☐ No Not Reported | Not Reported | Not Reported |

**23. ACDT CAUSE FACTORS (Blk 24 must support all cause factors checked: See DA Pam 385-40 for definition of cause factors)**

| | | | | | |
|---|---|---|---|---|---|
| a. Training Failure | Not Reported | (Stds exist but not known or ways to achieve them not known) | c. Leader Failure | Not Reported | (Stds are known but not enforced) |
| b. Standards Failure | Not Reported | (Stds not clear, practical or do not exist) | d. Individual Failure | Not Reported | (Stds are known but not enforced) |

e. Support Failure: Not Reported (Inadequate equip/facilities/svcs/no or type personnel)

**22. IMPACT/PROTECTIVE/ESCAPES/SURVIVAL/RESCUE DATA (For Class A, B, and C acdts)**

| Aircraft MTDS | CH47D = CH47D | Aircraft Serial # | 8424175 |
|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| a. Acft Occupiable Space Compromised (If "yes" DA Form 2397-6 is required) | | Yes | X | No | N - No |
| b. Escape/Survival Difficulties (If "yes" DA Form 2397-10 required for the individual) | | Yes | X | No | |
| c. Protective/Restraint Equip Functioned as designed (If "no" DA Form 2397-10 required for the individual) | X | Yes | | No | Y - Yes |

**24. FINDINGS AND RECOMMENDATIONS (See Instructions in DA Pam 385-40 for writing findings and recommendations. Use additional sheet if required)**

Not Reported

Not Reported

| USACRC use only | Duty | Role | Failure/error Code | SI 1 | RM 1 | RM 2 | RM 3 |
|---|---|---|---|---|---|---|---|
| | Phase of OP | Task/part no. | | SI 2 | RM 1 | RM 2 | RM 3 |

**25. LIST OF ATTACHMENTS (CCAD, DA Forms 2397-4, 8, 9, etc.)**

**26. COMMAND REVIEW (Required for Class A and b combat and all Class C acdts. Use separate sheet for nonconcurrence, additional findings, and recommendations.)**

| REVIEWER | Organization | Name (Typed/Printed) | Rank | Signature | Comments | | | |
|---|---|---|---|---|---|---|---|---|
| a. Unit Commander | Not Reported | PII Data | Not Reported | | | Concur | | Non-concur |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **b. Reviewing Official** | Not Reported | PII Data | Not Reported | | | **Concur** | | **Non-concur** |
| **c. Approving Authority** | Not Reported | PII Data | Not Reported | | | **Concur** | | **Non-concur** |
| **d. DA Review** | Not Reported | PII Data | Not Reported | | **Approved for entry into ASMIS (YYYYMMDD)** | | | |
| | | | | | Not Reported | | | |

| **Duty Type** | **Duty** | **Role** |
|---|---|---|
| Not Reported | Not Reported Not Reported | Not Reported |

**US Army Combat Readiness/Safety Center Recorded Information**

| **Source** | **Coder** | |
|---|---|---|
| G - AAAR | 9 PII Data | |
| **Received Date** | **Established Date** | **Transaction Date** |
| 2001 02 15 | 2001 02 20 | 2001 02 21 |
| **USASC Investigate** | **Advisor Sent** | |
| R - Not Reported | R - Not Reported | |
| **ARAS Case ID** | **Initial Notification Number** | **RCAS Case ID** |
| Not Reported | Not Reported | Not Reported |

** 3W Data **

**ABACUS DATA**

| **Cause No** | **Role** | **Phase of Operation** |
|---|---|---|
| 1 | S - Suspected | 7B - Landing-Touchdown |

| **Subject** | **Action Verb** | **Sub Manner** |
|---|---|---|
| M010873 - Airframe - Cargo Handling, Securing Equip - Loading Ramp | B15 - Binding | Not Reported - Not Reported |

| **Position/Condition** | **Object Qualifier** |
|---|---|
| Not Reported - Not Reported<br>Not Reported - Not Reported | Not Reported - Not Reported<br>Not Reported - Not Reported |

| **Object** | **Reason Qualifier** | **Reason Category** |
|---|---|---|
| Not Reported - Not Reported | Not Reported - Not Reported | N1 - Not Reported |

| Cause No | Result No | Subject | Action Verb |
|---|---|---|---|
| 1 | 1 | M010873 - Airframe - Cargo Handling, Securing Equip - Loading Ramp | S21 - Struck |

| Position/Condition | Object Qualifier |
|---|---|
| Not Reported - Not Reported<br>Not Reported - Not Reported | Not Reported - Not Reported<br>Not Reported - Not Reported |

**Object**

ET - Terrain

| Cause No | Result No | Subject | Action Verb |
|---|---|---|---|
| 1 | 2 | M010873 - Airframe - Cargo Handling, Securing Equip - Loading Ramp | P08 - Provided |

| Position/Condition | Object Qualifier |
|---|---|
| Not Reported - Not Reported<br>Not Reported - Not Reported | Not Reported - Not Reported<br>Not Reported - Not Reported |

**Object**

Not Reported - Not Reported

**A5 Summary**

Acft was repositioning to re-arrange the acft parking plan. After landing, the PC noticed that the LCT's were not in the ground position and asked the FE at the ramp area to confirm ground contact light were on. The lights were not on, but the landing gear was fully on the ground. It was noticed at this time the ramp area had sustained sheet metal damage near that the ramp actuator attaches to the airframe. The ramp position was level to slightly above, IAW with (b)(3), (b)(6) and all other unit policies. Due to physical evidence, it could not be determined when the damage occured to the ramp actuator mounting point on the airframe. It is believed that the ramp actuator possibly had a problem similar to a hardover. After in -depth analysis, no physical evidence was found on the ground, or scratches and dent on the ramp to substantiate suspicions that the ramp struck the ground during landing sequence. The ramp actuator was replaced and a suppl AAAR will be submitted if CCAD tear-down analysis indicated problem with ramp actuator. The acft was returned to home station with no further damage.