



UNITED STATES MARINE CORPS  
MARINE CORPS AIR STATION YUMA  
BOX 99100  
YUMA AZ 85369-9100

StaO 3750.1D  
DOSS  
27 Jan 21

STATION ORDER 3750.1D

From: Commanding Officer  
To: Distribution List

Subj: BIRD/ANIMAL AIRCRAFT STRIKE HAZARD REDUCTION PLAN

Ref: (a) FAA Advisory Circular 150/5200-33C  
(b) OPNAVINST 3750.6S Safety Management System  
(c) ALSAFE 20-017 Risk Management Safety Reporting Guidance  
(d) CNICINST 3750.1A BASH Program Implementing Guidance  
(e) NAVFAC P-73, Vol II  
(f) OPNAVINST 5090.1E  
(g) FAA Handbook 7110.65Y  
(h) CNAF M-3710.7  
(i) MCAS Yuma Integrated Pest Management Plan, 2020  
(j) NAVAIR 00-80T-124, NATOPS Airfield Operations Manual

Encl: (1) Bird/Animal Aircraft Strike Report  
(2) Birdstrike Evidence Collection Instructions  
(3) BASH Reduction Plan Contact List

1. Situation. The hazard posed by birds and animals to flight operations is ever present. Elimination of the hazard is impossible, but an active program can mitigate the risk associated with bird activity.

2. Cancellation. StaO 3750.1C.

3. Mission. To reduce the bird/animal strike hazard to aircraft aboard Marine Corps Air Station (MCAS) Yuma by creating an integrated hazard abatement program.

4. Execution

a. Commander's Intent and Concept of Operations

(1) Commander's Intent

(a) To minimize aircraft exposure to potentially hazardous bird/animal strikes in the vicinity of MCAS Yuma.

(b) To reduce the bird/animal strike potential through awareness, avoidance, monitoring, and actively controlling bird and animal populations and movements.

(2) Concept of Operations

(a) MCAS Yuma minimizes Bird/Animal Aircraft Strike Hazard (BASH) risk by establishing a BASH Working Group (BWG) to evaluate methods and practices to reduce associated hazards.

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(b) MCAS Yuma implements a Bird Watch Condition (BWC) notification standard to disseminate bird/animal activity information and implement dispersal procedures.

(c) BWC levels are based on visual reports of estimated airfield bird/animal activity and can be reported by any airfield personnel or aircrew. BWC may be elevated when below the thresholds described below if the bird/animal activity poses an unacceptable risk to airfield operations. The three types of BWC are as follows:

1. BWC Green (LOW) exists when there is no significant threat of bird/animal activity to flight operations.

2. BWC Yellow (MODERATE) exists when concentrations of 10 to 15 large birds (egrets, waterfowl, raptors, gulls, etc.) or 15 to 30 small birds (terns, swallows, doves, etc.) are observed in locations that represent a probable hazard to flight operations. This condition requires increased vigilance by all agencies and caution by aircrew due to the increased potential for a strike. Touch-and-go traffic should be reduced. Use Automatic Terminal Information System (ATIS) to communicate this BWC to all users.

3. BWC Red (SEVERE) exists when heavy concentrations of birds (more than 15 large birds or 30 small birds) are observed on or directly above runways, taxiways, infield areas, and departure or arrival routes or in areas that represent an imminent hazard to flight operations. Aircrew should thoroughly evaluate mission need before operating during BWC Red. Use ATIS to communicate this BWC to all users and base operations notifies tenant and transient commands via phone.

b. Subordinate Element Missions

(1) Station Director of Operations

(a) Serve as MCAS Yuma BASH program lead.

(b) Serve as Chairperson of the BWG.

(2) Airfield Operations Officer

(a) Monitor the airfield for bird activity and direct bird abatement actions.

(b) Make the final BWC determination based on reports and recommendations from airfield personnel or aircrew.

(c) Inform the Natural Resources Office of any changes to low-level routes or training areas.

(d) Liaise with all aviation activities at MCAS Yuma to develop and maintain awareness of this order.

(e) Deploy a bird dispersion group on short notice to remove birds from sensitive areas of the airfield.

(f) Issue Notices to Airmen for BASH mitigation that may affect airfield operations, such as habitat disturbances or removal.

(3) Air Traffic Control Facility Officer

(a) Recommend BWC updates, as necessary, to the Airfield Operations Officer whenever observed or reported bird activities within the Approach Control Airspace differ from the current BWC and update ATIS.

(b) Coordinate with surrounding airfields when any local BWC may also affect their airspace.

(c) Promptly report potentially hazardous wildlife conditions to the Airfield Operations Officer, Station Aviation Safety Officer (ASO), and Conservation Manager.

(d) Ensure BASH points of contact, reporting, collection procedures and how to obtain collection kits for animal remains are included in the Course Rules Brief.

(4) Conservation Manager

(a) Maintain required permits for dispersal and depredation programs.

(b) Ensure properly trained personnel are available to conduct bird dispersal and depredation activities when required.

(5) Natural Resources Specialist/Soil Conservationist/Conservation Law Enforcement Officer

(a) Review all locally generated BASH Reports and attempt to identify all bird remains.

(b) Review low-level routes, training areas, and changes to existing routes/areas for BASH potential.

(c) Liaise with United States Fish and Wildlife Service (USFWS), Audubon Society, and other agencies to provide additional information on migratory, local, and seasonal bird activities.

(d) Assist the Station ASO with the information and education program.

(e) Send all remains found on MCAS Yuma to the Smithsonian Institute for official review and cataloging.

(f) Speak with local farmers on MCAS Agricultural Leases surrounding the airfield, and mandate that they grow non-habitat/food producing crops and limit the amount of standing water to the maximum extent practical. The Soil Conservationist notifies the Airfield Operations Officer of any habitat disturbances that may impact airfield safety.

(g) Conduct bird dispersal and depredation activities when required.

(h) Maintain records of control efforts and methods.

(i) Maintain necessary non-lethal and lethal equipment and devices required for bird abatement, dispersal, and depredation.

(6) Station ASO

(a) Deliver any bird remains to the Natural Resources Specialist and forward a copy of the BASH Strike Report (see enclosure (1)) to the Natural Resources Specialist following every bird strike.

(b) Ensure tenant units submit BASH Reports via Risk Management Information Streamlined Incident Reporting (RMI-SIR) following all incidents.

(c) Assist visiting units with appropriate BASH procedures and report via RMI-SIR on their behalf. This report is for record keeping/tracking purposes of any incidents on MCAS Yuma.

(d) Maintain a database of all Animal/Bird strikes and activity that poses a threat to aircraft operations.

(e) Compile BASH Hazard Reports (HAZREP) and Aviation Safety Awareness Program BASH reports to present to the BWG.

(7) Installation and Logistics

(a) Investigate, evaluate, and incorporate bird exclusionary devices in hangars and other structures.

(b) Manage all vegetation within airfield boundaries and surrounding agricultural leases to remain within an acceptable level. Act, as necessary, to minimize locations where birds can nest or feed.

(c) After heavy rains, record areas of standing water and derive a plan for better drainage in the future. Standing water attracts birds and other wildlife not welcomed in the aviation environment.

(d) Provide facilities support services and maintenance such as mowing, fence maintenance, trash removal, vegetation and landscape management to deter bird and animal activity on the airfield.

(e) Pest Management Officer. Report the locations of bird/animal findings to the Safety Department and Natural Resources Specialist. If Pest Management finds large clusters of birds, they should notify the Natural Resources Specialist and the Station ASO.

(8) Community Plans and Liaison Office

(a) Provide insight and advise the BWG on the public relations impact of MCAS Yuma BASH reduction methods.

(b) Inform the Airfield Operations Officer about planned community development, as detailed in reference (a) that is not compatible with BASH mitigation.

(9) Provost Marshal's Office

(a) Periodically conduct surveys of perimeter fence integrity and report discrepancies to the Facilities Maintenance Section.

(b) Coordinate with the Natural Resources Office and Airfield Operations to request animal depredation, as required.

(c) Animal Control Officer. Assist the Pest Management Officer and Airfield Operations Officer, as required, in removing feral/domestic animals (dogs/cats) from on/around the runway or taxiway surfaces.

(10) BWG. Meet quarterly to assess the status of the BASH reduction program and to recommend improved procedures and coordination. The Station ASO coordinates these meetings. The BWG shall consist of the following billets or their representatives:

- (a) Station Director of Operations (Chairperson)
- (b) Airfield Operations Officer
- (c) Air Traffic Control Facility Officer
- (d) Conservation Manager
- (e) Natural Resources Specialist/Soil Conservationist
- (f) Station ASO
- (g) Installation and Logistics
  - 1. Facilities Requirements Branch
  - 2. Facilities Maintenance Branch
- (h) Community Plans and Liaison Office
- (i) Tenant Unit Representatives
  - 1. Marine Aircraft Group 13 ASO
  - 2. Marine Aviation Weapons and Tactics Squadron 1 ASO
  - 3. Marine Fighter Training Squadron 401 ASO
  - 4. Marine Operational Test and Evaluation Squadron 1 ASO

c. Collection and Reporting. Each unit aboard the air station shall record BASH incidents using enclosure (1) and shall utilize a BASH kit, available from the Station ASO in Building 460 or the Natural Resources Specialist in Building 151, for collecting animal strike remains. Enclosure (2) provides animal sample collection and delivery instructions.

(1) BASH incidents shall be reported in RMI-SIR in accordance with HAZREP procedures outlined in references (b) and (c), and a copy of the HAZREP shall be forwarded to the Station ASO.

(2) If bird remains are collected, deliver the remains to the Natural Resources Specialist in Building 151. Accompany all bird remains with a HAZREP and an RMI-SIR number.

(3) The Natural Resources Specialist sends any collected remains to the addresses listed in enclosure (2).

d. Coordinating Instructions

(1) Submit all recommendations concerning this Order to the Commanding Officer, MCAS Yuma, via the appropriate chain of command.

(2) Reference enclosure (3) for BASH Reduction Plan points of contact.

5. Administration and Logistics

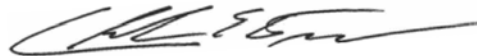
a. The BWG shall review this Order annually, submitting any changes as necessary. Per reference (d), this Order shall be updated at least every five years.

b. Directives issued by this Command are published and distributed electronically via the MCAS Yuma web page at:  
<https://eis.usmc.mil/sites/mcasymc/Station%20Orders/Forms/allitems.aspx>.

6. Command and Signal

a. Signal. This Order is effective the date signed.

b. Command. This Order is applicable to all Station, tenant, and transient organizations.



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Distribution: A

## BIRD AND ANIMAL AIRCRAFT STRIKE REPORT

NOTE: This does not take the place of an **RMI-SIR REPORT**.

In the event of a reported Bird/Animal Aircraft strike, including suspected strike, obtain the following information and provide it to ATC and Airfield Operations. Strikes should be expeditiously reported but not at the expense of safety of flight.

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a. Date: \_\_\_\_\_ Time of Incident (local) \_\_\_\_\_

b. Aircraft Type: \_\_\_\_\_ Call Sign: \_\_\_\_\_ Squadron: \_\_\_\_\_ Bureau Number: \_\_\_\_\_

c. Geographic location of strike, be as exact as possible:  
(Where on airfield, Lat/Long or DME/radial from NAVAID)

d. Phase of flight (circle all that may apply):

ground ops      takeoff      landing      cruise      climbing      descending      unknown

e. Aircraft Impact Location: \_\_\_\_\_ (i.e. Canopy/Engine/Pylon)

f. Description of damage to aircraft, as applicable:

g. Injuries to personnel?

h. Lights used on aircraft: Yes / No

i. Type of Strike (circle one):      bird                  animal                  other: \_\_\_\_\_

Indicate Species (If known) \_\_\_\_\_

j. Approximate number of birds/animals seen at time of incident (circle one):

0-5                                  5-15                                  more than 15

k. Who removed remains (circle one):

None found      Maintenance      Natural Resources      ARFF      Other: \_\_\_\_\_

l. Weather/visibility at time of incident: \_\_\_\_\_

m. Point of contact: name \_\_\_\_\_ extension/email \_\_\_\_\_

### Routing

(a) Unit Safety Officer \_\_\_\_\_

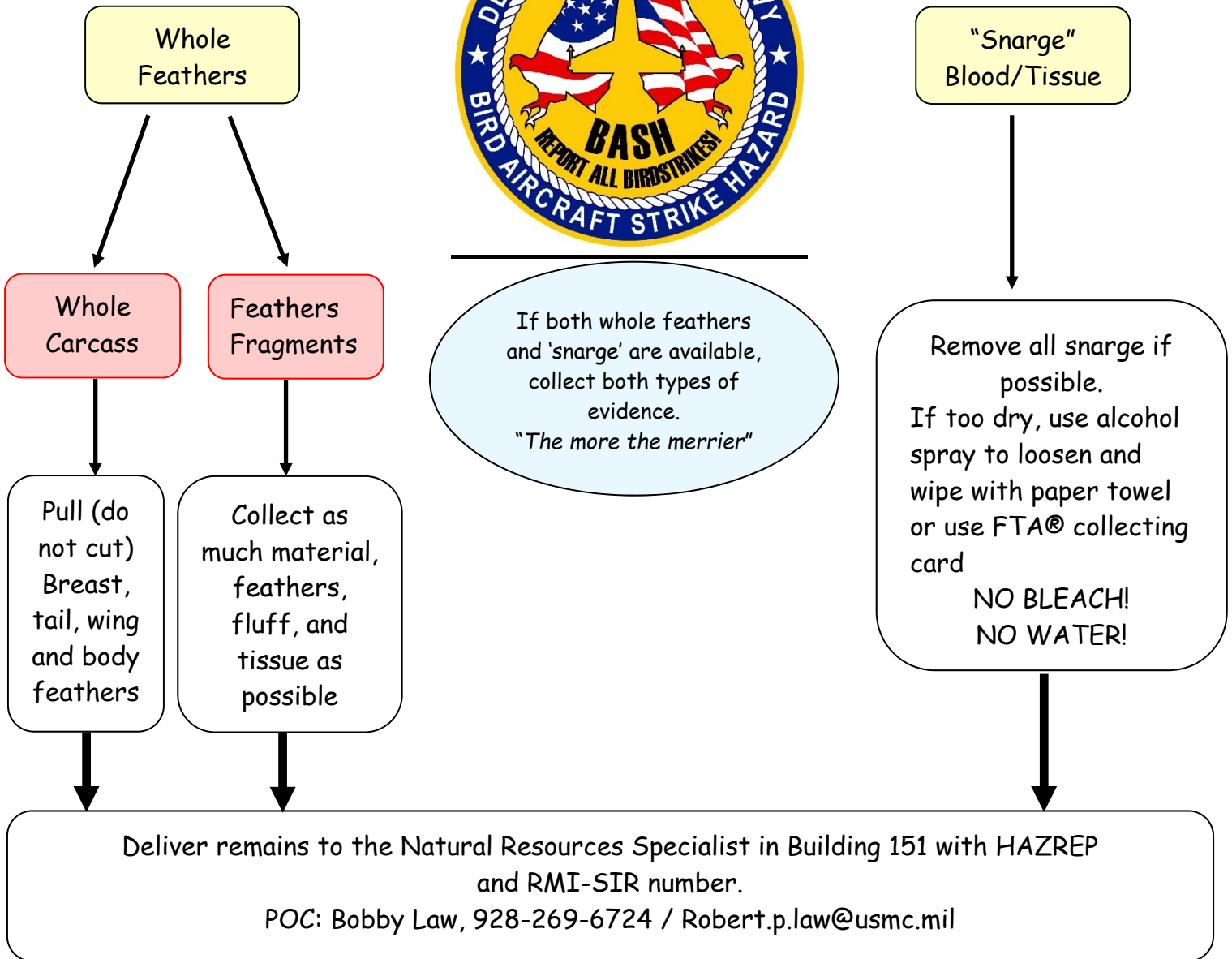
(b) Airfield Operations Office \_\_\_\_\_

(c) Station ASO (x5611) \_\_\_\_\_

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All bird/animal remains are to be delivered to the Natural Resources Office (928-269-6724) in building 151.

# HOW TO COLLECT BIRDSTRIKE EVIDENCE



## OVERNIGHT SHIPMENT

Smithsonian Institution  
Feather Identification Lab  
E-600, MRC 116  
10<sup>th</sup> & Constitution Ave., NW  
Washington, DC 20560

- Include HAZREP and RMI-SIR number.
- If FOREIGN:
  1. Cert. of Origin
  2. US APHIS permit
  3. Cert. of Treatment

## REGULAR SHIPMENT

Smithsonian Institution  
Feather Identification Lab  
E-600, MRC 116  
PO Box 37012  
Washington, DC 20013-7012



**BASH Reduction Plan Contact List**

<u>Agency</u>	<u>Phone Number</u>
Airfield Operations Officer	269-3327
Air Traffic Control Facility Officer	269-9472
Station ASO	269-5611
Conservation Manager	269-3401
Natural Resources Specialist	269-6724
Installation and Logistics	
Facilities Requirements Branch	269-2497
Facilities Maintenance Branch	269-5344
Provost Marshall	269-2205
Animal Control Officer	269-6303
Community Plans and Liaison	269-2103
Tenant Unit Aviation Safety Representatives	
Marine Aircraft Group 13	269-5588
Marine Aviation Weapons and Tactics Squadron 1	269-3539
Marine Fighter Training Squadron 401	269-2138
Marine Operational Test and Evaluation Squadron 1	269-6820