

# CERTALERT

ADVISORY \* CAUTIONARY \* NON-DIRECTIVE

FOR INFORMATION, CONTACT AIRPORT WILDLIFE SPECIALIST, AAS-317 (202) 267.3389

**DATE:** 17 November, 1997 **No. 97-09**  
**TO:** AIRPORT CERTIFICATION SAFETY INSPECTORS  
**TOPIC:** WILDLIFE HAZARD MANAGEMENT PLAN OUTLINE

An increasing number of questions are being received concerning the preparation and content of a FAA approved airport wildlife hazard management plan. Title 14 Code of Federal Regulations, part 139.337, *Wildlife Hazard Management*, prescribes the specific issues that a wildlife hazard management plan must address for FAA approval and inclusion in the ACM.

A wildlife hazard assessment, defined as an ecological study in part 139.337 (a), conducted by a wildlife damage management biologist, provides the scientific basis for the development, implementation, and refinement of a wildlife hazard management plan. Though parts of the wildlife hazard assessment may be incorporated directly in the wildlife hazard management plan, they are two separate documents. Part of the wildlife hazard management plan can be prepared by the biologist(s) who conducts the wildlife hazard assessment. However, some parts can be prepared only by the airport. For example, airport management assigns airport personnel responsibilities, commits airport funds, and purchases equipment and supplies. Airport management may request the wildlife biologist to review the finished plan.

The wildlife damage management biologist's primary responsibilities are:

- to provide information on the wildlife attractants that have been identified on or near the airport,
- to identify wildlife management techniques,
- to prioritize appropriate mitigation measures,
- to recommend necessary equipment and supplies, and
- to identify training requirements for the airport personnel who will implement the wildlife hazard management plan.

It is often helpful for the airport manager to appoint a Wildlife Hazard Management Group that has responsibility for the airport's wildlife management program. The biologist should assist the Wildlife Hazard Management Group with periodic evaluations of the plan and make recommendations for further refinements or modifications.

The following details the requirements of part 139.337 (e) and (f) and how those requirements should be addressed in a FAA approved wildlife hazard management plan.

**FAR 139.337 REQUIREMENTS**

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<p>139.337(e). The (wildlife hazard management) plan shall include at least the following :</p>	<p>The wildlife hazard management plan must include, and/or identify the responsibility of, and/or actions to be taken, –</p>
<p>139.337(e)(1). The persons who have authority and responsibility for implementing the plan.</p>	<p>Specific responsibilities for various sections of the wildlife hazard management plan must be assigned or delegated to various airport departments such as:</p> <ul style="list-style-type: none"> <li>Airport Director</li> <li>Operations Dept.</li> <li>Maintenance Dept.</li> <li>Security Dept.</li> <li>Planning Dept.</li> <li>Finance Dept.</li> <li>Wildlife Coordinator</li> <li>Wildlife Hazard Group</li> </ul> <p>Local law enforcement authorities that provide wildlife law enforcement and other support also have a role to play:</p> <ul style="list-style-type: none"> <li>State Fish and Game</li> <li>U. S. Fish and Wildlife Service</li> <li>City police</li> <li>County Sheriff</li> </ul>
<p>139.337(e)(2). Priorities for needed habitat modification and changes in land use identified in the ecological study with target dates for completion.</p>	<p>Attractants (food, cover, and water) identified in wildlife hazard assessment, with priorities for mitigation and completion dates. Attractants can be grouped by areas and ownership. (A list of completed habitat modification or other projects designed to reduce the wildlife/aircraft strike potential can be included, and provides a history of work already accomplished.)</p> <ul style="list-style-type: none"> <li>Airport property: <ul style="list-style-type: none"> <li>Aircraft Operations Area (AOA).</li> <li>Within 2 miles of aircraft movement areas.</li> <li>Within 5 miles of aircraft movement areas.</li> <li>Airport structures</li> </ul> </li> <li>Non-airport property <ul style="list-style-type: none"> <li>Within 2 miles of aircraft movement areas.</li> <li>Within 5 miles of aircraft movement areas.</li> <li>Structures</li> </ul> </li> </ul>

## FAR 139.337 REQUIREMENTS

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Habitat/population management recommendations	<p>Management plans for specific areas, attractants, species, or situations, as identified in ecological study (wildlife hazard assessment). This section may include any or all of the following:</p> <ul style="list-style-type: none"><li>Food/Prey-base Management<ul style="list-style-type: none"><li>Rodents</li><li>Earthworms</li><li>Insects</li><li>Other prey</li><li>Trash and debris - handling, storage.</li><li>Handouts</li></ul></li><li>Species specific population management<ul style="list-style-type: none"><li>i.e. deer, gulls, geese, coyotes</li><li>Repelling</li><li>Exclusion</li><li>Removal</li></ul></li><li>Habitat Management<ul style="list-style-type: none"><li>Vegetation Management<ul style="list-style-type: none"><li>AOA vegetation</li><li>Drainage ditch(s) vegetation</li><li>Landscaping</li><li>Agriculture</li></ul></li><li>Water Management<ul style="list-style-type: none"><li>Permanent Water<ul style="list-style-type: none"><li>Wetlands</li><li>Canals/drainage ditches</li><li>Detention/retention ponds</li><li>Sewage (glycol) treatment ponds</li><li>Other water areas</li></ul></li><li>Ephemeral water<ul style="list-style-type: none"><li>Runways, taxiways, &amp; aprons.</li><li>Other wet areas</li></ul></li></ul></li><li>Airport Buildings<ul style="list-style-type: none"><li>Airfield structures</li><li>Abandoned structures</li><li>Terminal</li></ul></li><li>Airport construction</li></ul></li><li>Resource Protection<ul style="list-style-type: none"><li>Exclusion</li><li>Repelling<ul style="list-style-type: none"><li>Chemical</li><li>Auditory</li><li>Visual</li></ul></li></ul></li></ul>
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**FAR 139.337 REQUIREMENTS**

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<p>139.337(e)(3). Requirements for and, where applicable, copies of local, state and Federal wildlife control permits.</p>	<p>Wildlife can be protected at all levels of government – city, county, state, federal, or may not be protected at all, depending on location and species. Therefore the section should address the specific species involved and their legal status.</p> <p>Wildlife management permitting requirements and procedures (spelled out)          Federal - 50 CFR parts 1 to 199.          State - Fish and Game Code (or equivalent)          City, county - ordinances</p> <p>If pesticides are to be used, then the following are also needed.          Pesticide use regulations          Federal- [Federal Insecticide, Fungicide, and Rodenticide Act, as amended (FIFRA)]          State (varies by state)          City/county (if applicable)</p> <p>Pesticide use licensing requirements          State regulations</p>
<p>139.337(e)(4). Identification of resources to be provided by the certificate holder for implementation of the plan.</p>	<p>Lists identifying what the airport will supply in terms of:          Personnel          Time          Equipment, (i.e. radios, vehicle(s), guns, traps).          Supplies (i.e. shellcrackers, mylar tape)          Wildlife Patrol              Personnel              Vehicle(s)              Equipment              Supplies          Pesticides              Restricted/non-restricted              Application equipment          Sources of Supply</p>
<p>139.337(e)(5). Procedures to be followed during air carries operations, including at least...</p>	
<p>139.337(e)(5)(i). Assignment of personnel responsibilities for implementing the procedures;</p>	<p>Who, when, what circumstances          Wildlife Patrol          Wildlife Coordinator          Operations Dept.          Maintenance Dept.          Security Dept.          Air Traffic Control</p>
<p>139.337(e)(5)(ii). Conduct of physical inspections of the movement areas and other areas critical to wildlife hazard management sufficiently in advance of air carrier operations to allow time for wildlife controls to be effective;</p>	<p>Who, when, how, what circumstances --          Runway(s), taxiway(s), and ramp(s) sweeps,          AOA monitoring          Un-mitigated attractants</p>

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<p>139.337(e)(5)(iii). Wildlife control measures;</p>	<p>Who, what circumstances, when, how is the Wildlife Patrol contacted.</p> <ul style="list-style-type: none"> <li>Wildlife Patrol             <ul style="list-style-type: none"> <li>Bird Control                 <ul style="list-style-type: none"> <li>repel</li> <li>capture</li> <li>kill</li> </ul> </li> <li>Mammal control                 <ul style="list-style-type: none"> <li>repel</li> <li>capture</li> <li>kill</li> </ul> </li> </ul> </li> </ul>
<p>139.337(e)(5)(iv). Communication between wildlife control personnel and any air traffic control tower in operation at the airport.</p>	<p>Communication procedures</p> <ul style="list-style-type: none"> <li>Training in communication procedures</li> </ul> <p>Equipment needed</p> <ul style="list-style-type: none"> <li>Radios, mobile phones, etc.</li> <li>Lights</li> </ul>
<p>139.337(e)(6). Periodic evaluation and review of the wildlife hazard management plan for:</p>	<p>At a minimum the airport operator should hold annual meetings, or after an event described in 139.337(a)(1 to 3), with representatives from all airport departments involved in the airport's wildlife hazard management efforts and the wildlife damage management biologist who did the original ecological study (wildlife hazard assessment).</p>
<p>139.337(e)(6)(i). Effectiveness in dealing with the wildlife hazard;</p>	<p>Input from all airport departments, ATC, wildlife biologist, as to effectiveness of plan. Good records are a must for evaluating the effectiveness of a program. Therefore need to know what records are kept, by whom, how, where, and when.</p>
<p>139.337(e)(6)(ii). Indications that the existence of the wildlife hazard, as previously described in the ecological study, should be reevaluated.</p>	<p>Wildlife seen on AOA</p> <p>Request for wildlife dispersal from Tower, pilots, or others</p> <p>Wildlife strike database and other records. Good records are a must.</p>
<p>139.337(e)(7). A training program to provide airport personnel with the knowledge and skills needed to carry out the wildlife hazard management plan required by paragraph (d) of this section.</p>	<p>Wildlife Patrol personnel training</p> <p>All airport personnel - wildlife hazard awareness training</p> <p>Pesticide use training and certification</p>

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<p>139.337(f). Notwithstanding the other requirements of this section, each certificate holder shall take immediate measures to alleviate wildlife hazards whenever they are detected.</p>	<p>Although not required as part of wildlife hazard management plan, this information should be included to fulfill part 139 requirements.</p> <p>Procedures and personnel responsibilities for notification regarding new or immediate hazards by and to:</p> <ul style="list-style-type: none"> <li>Wildlife Patrol</li> <li>Operations             <ul style="list-style-type: none"> <li>NOTAM issuance/cancellation criteria and procedures</li> </ul> </li> <li>Maintenance</li> <li>Security</li> <li>Air Traffic Control</li> <li>Others</li> </ul> <p>Rapid response procedures for new or immediate hazards by:</p> <ul style="list-style-type: none"> <li>Wildlife Patrol</li> <li>Operations</li> <li>Maintenance</li> <li>Security</li> <li>Air Traffic Control</li> <li>Others</li> </ul>
<p>139.337(g). FAA Advisory Circulars in the 150 series contain standards and procedures for wildlife hazard management at airports which are acceptable to the Administrator.</p>	<p>AC 150/5200--33 Hazardous Wildlife Attractants on or Near Airports.</p>

OSB

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