



# United States Department of the Interior

## FISH AND WILDLIFE SERVICE



West Virginia Field Office  
694 Beverly Pike  
Elkins, West Virginia 26241

June 21, 2011

Re: Evaluation of Communication Tower Projects in West Virginia under the Migratory Bird Treaty Act and Endangered Species Act

Dear Interested Party:

The U.S. Fish and Wildlife Service's (Service) West Virginia Field Office recognizes that review of individual proposed actions by the Service is not required under certain conditions, such as small-scale proposed actions that have routine and predictable minor or discountable impacts on the environment. In this regard, the Service has reviewed our recent consultations on communication tower projects within the State of West Virginia, and updated our recommendations. This letter supercedes the information in our previous March 9, 2007, letter.

To streamline the review process for these proposed actions, we have developed avoidance and minimization measures for migratory birds, Criteria for "No Effect" Determinations for Federally-listed species, and procedures for proposed action review and reporting. Our analysis takes into consideration available information on migratory birds and Federally-listed threatened and endangered species within the State, in accordance with provisions of the Migratory Bird Treaty Act of 1940 (MBTA) (40 Stat. 755; 16 U.S.C. 703-712); the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*); and the National Environmental Policy Act of 1969 (83 Stat. 852; 42 U.S.C. 4321 *et seq.*).

### **Migratory Birds**

#### **Recommendations to Protect Migratory Birds**

The MBTA prohibits the taking, killing, possession, and transportation of migratory birds, their eggs, parts and nests, except when specifically permitted by regulations. Migratory birds are a Federal trust resource and are protected under the MBTA. Each year millions of migratory birds collide with communication and cell towers, especially those with lights and guyed wires. The number of communication towers is increasing, which indicates a greater potential impact to migratory birds. The Service has reviewed recent published information regarding this potential effect and revised our recommendations accordingly to reduce impacts to migratory birds and comply with the spirit and intent of the MBTA.

Gehring et al. (2009) conducted a study to determine what risks, if any, the nighttime communication tower lighting systems posed to migratory birds. The study compared different lighting systems being used at night, and different communication tower heights combined with different lighting systems. The study concluded that shorter towers between 381-479 feet (116-146 meters above ground level [AGL])

equipped with only red or white flashing lights had a significant decrease in migratory bird mortality as opposed to taller towers greater than 1000 feet (305 *meters* AGL) that had red pulsating or constant red lights.

As the number of communication and cell towers increases, the mortality rate of migratory birds is also expected to increase. To minimize adverse individual and cumulative impacts, the Service strongly encourages lowering *tower* height to below 479 feet (146 meters AGL), collocating new equipment and antennae on existing structures (e.g., towers, water tanks and large buildings, etc.), and minimizing lighting. To reduce bird fatalities when lights are used on new guyed towers, the Service recommends red or white flashing lights. For existing guyed towers, the Service recommends replacing lights with red or white flashing lights. The implementation of the above recommendations will provide significant protection and reduce the impact to migratory birds. These recommendations are based on *the* best information available at this time, and are the most prudent and effective measures for avoiding bird strikes at towers. As new information becomes available, these recommendations will be updated accordingly.

#### **Federally-listed Species**

The purpose of the ESA is to protect and recover imperiled species and the ecosystems upon which they depend. Imperiled species are added to *the* Federal List of Endangered and Threatened Wildlife and Plants as threatened or endangered. These Federally-listed threatened and endangered species are afforded protection under the ESA. Please refer to the current list of Federally-threatened and endangered species in West Virginia on this website: <https://www.tws.gov/westvirginiafieldoffice>. Proposed actions (or projects) have varying levels of impacts on threatened and endangered species and their habitats. The Service has determined that proposed actions complying with the following criteria should have no effect on Federally-listed species in West Virginia.

#### **Criteria for "No Effect" Determinations**

1. Collocate new equipment and antennae with an existing structure (*e.g.*, tower, water tank, large building, etc.) where all ground disturbance occurs within previously cleared areas.
2. Conduct routine maintenance of existing tower sites (*e.g.*, painting, antennae replacement).
3. Repair or replace existing towers and/or equipment, provided such activities occur within previously cleared areas.
4. Transfer ownership of existing towers.
5. Construct new towers to meet all of the following criteria such that the proposed action:
  - involves alteration of less than one acre of habitat during construction (including access roads, construction preparation, and tower sites);
  - does not result **in** any impacts to, or crossings of, streams listed in *the* enclosure titled Aquatic Habitats Supporting Federally-listed Species in West Virginia;

- does not involve tree clearing, grading, placing gravel or fill, or other alterations to habitats in Grant, Greenbrier, Pendleton, Pocahontas, Randolph, Tucker or Webster counties that occur above 2600 feet (793 meters) Mean Sea Level; and
- has received a negative finding in response to a data request to the West Virginia Division of Natural Resources (WVDNR) Natural Heritage Program. (The WVDNR may be reached at P. O. Box 67 Elkins, West Virginia 26241; or by phone at 304-637-0245. Please contact them to obtain their review procedures.)

### **Proposed Action Review and Reporting Procedures**

The procedures in this document may be used to make an ESA determination of "no effect" for all Federally-listed species within West Virginia. For a proposed action that complies with the above Criteria for "No Effect" Determinations for Federally-listed threatened and endangered species, and implements the recommendations to reduce impacts to migratory birds, there is no need to contact this office for individual proposed action review.

In order that the West Virginia Field Office may track the number of proposed actions covered under this letter and periodically review how each proposed action will demonstrate compliance with the "no effect" criteria and migratory bird recommendations outlined above, please send a letter to this office with the following statement and information:

- "The following proposed communication tower action has incorporated into the project description the U.S. Fish and Wildlife Service's recommendations to avoid and minimize impacts to migratory birds to the extent practicable, and complies with criteria for the "no effect" determination to Federally-listed species as outlined in the Service's letter dated May 25, 2011."
- Please provide the name of the company proposing to do the work, the name of the proposed action, county location and U.S. Geological Survey (USGS) topographic map quadrangle(s) in which the proposed action occurs, and the criteria number (i.e., 1, 2, 3, 4, or 5) under which the proposed action is determined to have no effect on Federally-listed species. More than one proposed action may be included in each letter.

If a proposed action does not comply with the Criteria for "No Effect" Determinations or implement the migratory bird recommendations outlined above, please send this office a letter requesting individual proposed action review that includes the following information:

- a brief description of the proposed action, including name, West Virginia county, company proposing the work, the type of habitats affected, and the amount of clearing or filling associated with proposed action construction;
- the reason(s) why the proposed action does not comply with the Criteria for "No Effect" Determinations or implement the migratory bird recommendations above. Please provide any supporting documentation as available;
- a copy of the USGS topographic map showing the location of all project-related facilities. Please identify the quadrangle(s) in which the proposed action may be located;

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- recent photographs of the proposed site including any access roads, and areas to be filled or cleared; and
- contact name, address, and phone number in case additional information may be required.

The Service will provide a site-specific review of the proposed action. While we normally attempt to respond to individual requests within 30 days of the receipt of the request, staffing and work-load considerations that are beyond our control may delay our response beyond this timeframe.

If additional information on Federally-listed threatened and endangered species becomes available, the determination criteria in this letter may be reconsidered. The Service will annually review and update this letter, if required. If you have any questions regarding this issue, please contact Ms. Barbara Douglas of my staff at (304) 636-6586, Ext. 19, or at the letterhead address.

Sincerely,

A handwritten signature in cursive script that reads "Deborah Carter". The signature is written in black ink and is positioned to the left of a vertical line.

Deborah Carter  
Field Supervisor

Enclosure

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#### LITERATURE CITED

Gehring, J., P. Kerlinger, and A. M. Manville. 2009. Communication towers, lights, and birds: Successful methods of reducing the frequency of avian collisions. *Ecological Application* 19(2):505-514.

