

## APPENDIX A: SPECIES SPECIFIC RECOMMENDATIONS

*These reasonable recommendations are derived from the best available science and represent preferred management actions to protect wildlife and wildlife habitats where oil and gas development is occurring.*

### RAPTORS

#### General Raptor Mitigation Measures

- Prior to ground disturbing activities, determine either through consultation with CDOW or surveys the locations of raptor nesting and roosting sites.
- Provide raptor survey data for incorporation into the CDOW raptor database.
- Consult with and implement CDOW recommendations regarding raptor protection measures including seasonal timing restrictions and recommended buffer zones.
- Avoid disturbance of raptor nesting habitat during the breeding season (variable by species--January 1 to July 15).
- Avoid impacts to raptor roost sites during the wintering period (variable by species--November 15 to April 1).
- Survey any suitable habitat (cliffs, large trees, snags) within 1 mile of a proposed project site for raptor nests. Where raptor nests are found, site the project to provide a suitable buffer zone, and/or place sufficient seasonal limitations on construction activity to protect the nest site.
- Bury utility lines in defined areas with high collision risk for birds.
- Implement recommendations from both *"Suggested Practices for Avian Protection on Power Lines, the State of the Art in 2006"* and the *"Avian Protection Plan (APP) Guidelines"* (2005) for proper design and retrofit considerations for powerlines and poles to minimize raptor electrocution. These documents can be ordered at the Edison Electric Institute web site ([www.eei.org](http://www.eei.org)) or can be downloaded at the Avian Power Line Interaction Committee web site ([www.aplic.org](http://www.aplic.org)).

#### Bald Eagle

- No surface occupancy (beyond that which historically occurred in the area) within 0.25 mile of any active or historic bald eagle nest site.
- No human disturbance or construction activity within 0.5 mile of any active bald eagle nest from November 15 to July 31. Activity within 0.5 mile of bald eagle nest sites would be best conducted between August 15 and October 15.
- No surface occupancy or construction within 0.25 mile of any active bald eagle winter night roost site, where there is no direct line of sight to the roost, between December 1 and February 28 and within 0.5 mile of any active bald eagle winter night roost site, where there is a direct line of sight to the roost, between December 1 and February 28.
- No human disturbance within 0.5 mile of any active bald eagle winter roost site from November 15 to March 15 except for periodic visits such as oil maintenance and monitoring Maintenance and monitoring work within the buffer zone after development should be restricted to the period between 10:00 a.m. and 2:00 p.m.

- No human disturbance within any mapped winter concentration areas between November 15 and March 15.

#### **Ferruginous Hawk**

- No surface occupancy (beyond that which historically occurred in the area) within 0.5 mile of active nest sites and associated alternate nests.
- No human encroachment or construction activity within 0.5 mile of any active ferruginous hawk nest or alternate nest site from February 1 to July 15.

#### **Golden Eagle**

- No surface occupancy (beyond that which historically occurred in the area) within 0.25 mile of any active golden eagle nest site.
- No human encroachment or construction activity within 0.5 mile of any active golden eagle nest from December 15 to July 15.

#### **Mexican Spotted Owl**

- No surface occupancy (beyond that which historically occurred in the area) within designated Mexican spotted owl protected activity centers (PAC's) without USFWS consultation.
- No surface disturbance between March 1 to August 31 within and adjacent to Mexican spotted owl protected activity centers (PAC's) without USFWS consultation.

#### **Osprey**

- No surface occupancy (beyond that which historically occurred in the area) within 0.25 mile of any active osprey nest site.
- No human encroachment or construction activity within 0.25 mile of any active osprey nest from April 1 to August 31.

#### **Peregrine Falcon**

- No surface occupancy (beyond that which historically occurred in the area) within 0.5 mile of any active or historic peregrine falcon nest site.
- No human encroachment or construction activity within 0.5 mile of any active peregrine falcon nest site from March 15 to July 31.

#### **Burrowing Owl**

- Adhere to recommended survey protocol and actions to protect nesting Burrowing Owls (e.g. survey active and inactive prairie dog colonies for presence of Burrowing Owls when construction will occur between March 1 and October 31).
- Conduct surface disturbance within 300 feet of any active burrowing owl nest site outside the period between March 1 and August 15.