

# APPENDIX 3 – Impacts rating of non Red Data species – Perseus Hydra & Perseus Beta 765kV

Note: Electrocution of birds is highly unlikely and is not considered an impact on the proposed tower structure. Likewise, it is highly unlikely that birds will attempt to nest or roost directly above the conductors (with the exception of strain towers), thereby impacting on quality of supply through nesting material, bird pollution or bird streamers and these issues are not discussed further.

Species	Impact & general susceptibility	Location	Significance
<b>Water birds:</b> Great crested Grebe Black-necked Grebe Dabchick White-breasted Cormorant Reed Cormorant Darter Grey Heron Black-headed Heron Goliath Heron Cattle Egret Great White Egret Little Egret Hamerkop Egyptian Goose South African Shelduck Yellow-billed Duck African Black Duck White-faced Duck White-backed Duck Macoa Duck Knob-billed Duck Cape Teal Red-billed Teal Hottentot Teal Cape Shoveller Spur-winged Goose Moorhen	<p>Most of these species are vulnerable to collision with earth wires as they are large slow flying birds with a high wing loading and relatively low maneuverability.</p> <p>These species are relatively tolerant of disturbance and habitat destruction and are unlikely to be impacted by this.</p> <p>Although some of these species are capable of impacting on quality of supply on transmission lines through bird pollution and bird streamers – the proposed structure is not conducive to birds perching and roosting above the hardware.</p>	<p>These species are generally closely associated with water in some form, and will also use arable lands extensively – especially irrigated lands</p>	<p>Collision with earth wires will be MEDIUM</p>

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Red-knobbed Coot Little Bittern			
<b>Large &amp; medium raptors:</b> African Fish Eagle Black Eagle Booted Eagle Steppe Buzzard Jackal Buzzard Pale Chanting Goshawk Osprey Gymnogene Yellow-billed Kite Giant Eagle Owl Spotted Eagle Owl	<p>All of these species are vulnerable to disturbance, especially whilst breeding.</p> <p>Although some of these species are known to nest on power line towers, the proposed structure is not particularly conducive to nesting.</p>	<p>Almost anywhere in the study area, particularly in natural vegetation areas</p>	<p>Disturbance while breeding will be MEDIUM</p>
<b>Ibises &amp; spoonbill:</b> Sacred Ibis Glossy Ibis Hadedda Ibis African Spoonbil	<p>Most of these species are vulnerable to collision with earth wires as they are large slow flying birds with a high wing loading and relatively low maneuverability.</p> <p>These species are relatively tolerant of disturbance and habitat destruction and are unlikely to be impacted by this.</p> <p>Although some of these species are capable of impacting on quality of supply on transmission lines through bird pollution and bird streamers – the proposed structure is not conducive to birds perching and roosting above the hardware.</p>	<p>These species are generally closely associated with water in some form, and will also use arable lands extensively – especially irrigated lands</p>	<p>Collision with earth wires will be MEDIUM</p>

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<p><b>Corvids:</b>  White-necked Raven  Pied Crow  Black Crow</p>	<p>These species will not be impacted on at all by disturbance and habitat destruction and collision.</p> <p>Although these species normally nest on power line towers, thereby impacting on quality of the supply, the proposed structure does not allow any nesting above hardware.</p>	<p>These species can occur anywhere in the study area</p>	<p>Low</p>
<p><b>Large terrestrial birds:</b>  Helmeted Guineafowl  Black Korhaan  Karoo Korhaan</p>	<p>Collision of the Karoo and Black Korhaans is highly likely.</p> <p>These species will be impacted on to some extent through habitat destruction and disturbance</p>	<p>These species will occur in natural vegetation through the study area</p>	<p>Collision of korhaans will be MEDIUM</p>