

Scottish Hydro Electric Transmission plc
Beauly-Denny Overhead Line Diversion
Environmental Appraisal
Technical Appendices

Appendix B - Species Protection Plan (SPP) - Bird

**July 2025** 



			Applies to
TG-NET-ENV-505	Bird Species Protection Plan		Transmission
			✓
Revision: 3.00	Classification: Internal	Issue Date: November 2024	Review Date: November 2032

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# **Contents**

1	Introd	luction	3
2	Refere	ences	3
3	Respo	nsibilities	3
4	Legisla	ation	3
5	Prote	ction Plan	5
6	Revisi	on History	10
Apper	ndix A	Summary Guidance on Species Specific Disturbance Distances	11
Apper	ndix B	Protected Species Risk Assessment Template	14

	Bird Species Protection Plan		Applies to
TG-NET-ENV-505			Transmission
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## 1 Introduction

Construction works have the potential to negatively impact on breeding birds as a result of either direct destruction of nests or disturbance which may result in breeding failure and/ or a reduction in the bird's physiological condition. In addition, it is an offence to disturb some particularly sensitive species both within *and* outwith the breeding season. These species are discussed in Section 4. The bird breeding season runs from March to August (primarily), though the precise timing within this period varies from species to species, and some species start breeding earlier or finish later than this.

This SPP outlines the procedures that must be followed where there is a potential for breeding birds to be affected. It explains the responsibilities of Scottish Hydro Electric Transmission (SHE Transmission) and its *Contractors*, the legislative protection for birds, and the measures required to minimise impacts on birds and thereby the risk of criminal offences being committed.

#### 2 References

The documents detailed in Table 2.1 – Miscellaneous Documents, should be used in conjunction with this document.

Table 2.1 – Miscellaneous Documents

Title
Wildlife and Countryside Act 1981 (as amended in Scotland)
NatureScot Licencing
https://www.nature.scot/professional-advice/safeguarding-protected-areas-and-species/licensing/species-
licensing-z-guide/
NatureScot (2022) Disturbance Distances in selected Scottish Bird Species

# 3 Responsibilities

It is the *Contractor*'s responsibility to comply with all the requirements of this plan and it is both the *Contractor*'s and SHE Transmission's responsibility to monitor compliance with the plan.

# 4 Legislation

#### 4.1 All Wild Birds

All wild birds are protected by law under the Wildlife and Countryside Act 1981 (as amended).



	Bird Species Protection Plan		Applies to
TG-NET-ENV-505			Transmission
			✓
Revision: 3.00	Classification: Internal	Issue Date: November 2024	Review Date: November 2032

It is an offence to intentionally or recklessly<sup>1</sup>:

- kill, injure or take a bird
- take, damage, destroy or interfere with a nest of any bird while it is in use or being built
- obstruct or prevent any bird from using its nest
- take or destroy an egg of any bird

#### 4.2 Schedule 1 birds

Additional protection is given to rare breeding birds listed under Schedule 1 of the WCA. It is an offence to disturb;

- any bird while it is building a nest
- any bird while is in, on, or near a nest containing eggs or young
- any bird while lekking
- the dependent young of any bird

#### 4.3 Schedule 1A and A1 birds

Further protection is given to birds listed on Schedule 1A and A1 of the Act, making it an offence at any time of year to:

- Intentionally or recklessly harass a white-tailed eagle, golden eagle, hen harrier orred kite(1A); and
- Damage, destroy or interfere a nest habitually used by a white-tailed eagle or golden eagle (A1).

At present, it is not possible to obtain a derogation to disturb Schedule 1 breeding birds or destroy nests of any wild breeding birds for the purposes of development. However, the control of certain species is licensable in a restricted number of circumstances, such as for reasons of public health and safety. A licensing system is also in place for surveying protected species if a disturbance offence is possible.

Further advice is available on the NatureScot website: <a href="https://www.nature.scot/professional-advice/safeguarding-protected-areas-and-species/licensing/species-licensing-z-guide/birds-and-licensing">https://www.nature.scot/professional-advice/safeguarding-protected-areas-and-species/licensing/species-licensing-z-guide/birds-and-licensing</a>.

<sup>&</sup>lt;sup>1</sup> Reckless acts would include disregard of mitigation aimed at protecting birds, resulting in killing, injury, and/or disturbance of birds or their nests.



	Bird Species Protection Plan		Applies to
TG-NET-ENV-505			Transmission
			✓
Revision: 3.00	Classification: Internal	Issue Date: November 2024	Review Date: November 2032

## **5** Protection Plan

In advance of construction at any location where breeding birds may be present, it is **essential** that this plan is followed.

# 5.1 Pre-construction Surveys and Data Collation

- Pre-construction surveys for breeding birds will be completed a maximum of 3
  months prior to start of any works in a particular area, and at an appropriate time of
  year, to ensure availability of up-to-date information to inform any mitigation
  measures required.
- 2. Surveys will be carried out by suitably experienced ecologists / ornithologists using methods agreed with NatureScot under Survey Licences where required.
- 3. Pre-construction surveys will:
  - include up to 1000 m either side of Limits of Deviation (LOD's) / boundaries for substation construction areas and access tracks; and
  - where appropriate, be undertaken in accordance with NatureScot's Guidance on Assessing the Impact of Overhead Power Line Proposals on Birds for overhead lines.
- 4. Relevant local recorders/monitoring organisations, e.g. local Raptor Study Groups, will be contacted at the pre-construction phase for recent records of sensitive species that might be affected<sup>2</sup>.

#### 5.2 Review of Works and Impact Assessment

- The Ecological Clerk of Works (ECoW)/Environmental Adviser will review whether construction activities are likely to affect breeding birds and, if so, what mitigation options are available. A hierarchical approach to mitigation will be applied to any occupied bird habitat that may be affected under the Project works, as detailed in the "General mitigation" section below. Priority will be given to assessing and mitigating impacts to species listed on Schedule 1.
- 2. Construction teams will be advised by the ECoW/ Environmental Adviser of existing / new constraints together with mitigation options.
- 3. Project Geo-databases and / or relevant site documentation, e.g. Construction Environmental Management Plans (CEMP's), will be updated with new and amended information as it is produced, with changes communicated to appropriate staff as required.

<sup>&</sup>lt;sup>2</sup> The Scottish Raptor Study Group is a network of experts who monitor and record raptor species across Scotland. For a fee, they will provide data on breeding raptors within a particular area. Visit <a href="https://www.scottishraptorstudygroup.org/contact/">www.scottishraptorstudygroup.org/contact/</a>



		Applies to	
TG-NET-ENV-505	Bird Species Protection Plan		Transmission
			✓
Revision: 3.00	Classification: Internal	Issue Date: November 2024	Review Date: November 2032

# 5.3 General Mitigation

- 1. This SPP is designed to provide the Contractor and Ecological Clerk of Works (ECoW) with an approved methodology for protecting breeding birds.
- 2. The ECoW will attend site and check for signs of nesting on a regular basis throughout the construction period to ensure all environmental mitigation relevant to breeding birds is delivered. Note that new nests can quickly become established, so regular inspection of the working areas is crucial during the bird breeding season (within 48 hrs prior to construction works due to occur).
- 3. A hierarchical approach to mitigation following Programme / Avoid / Risk Assess, will be applied to any birds that may be affected under the Project works.
  - Where practicable, works will be programmed outwith breeding season see <a href="https://www.nature.scot/bird-breeding-season-dates-scotland">https://www.nature.scot/bird-breeding-season-dates-scotland</a> for information on breeding seasons for areas likely to contain breeding sites.
  - For specially protected or sensitive species, appropriate buffer zones (see table in Appendix A) will be established upon confirmation of nest building / breeding taking place<sup>3</sup>. Buffer zones will be set out by a suitably qualified ECoW for all breeding birds and those species whose roost sites are also protected i.e. red kite and hen harrier. No works will be carried out within these zones whilst birds are:
    - o building or using their nest,
    - o still dependent on the nest site, or
    - o present at roost sites. The ECoW will advise when it is safe for works to be carried out.
- 4. Where programme critical works must be carried out within the buffer zones, the ECoW will carry out a Protected Species Risk Assessment (Appendix B) to assess whether disturbance can be avoided during the works. Considerations will include the species involved, local topography, natural screening, type of works, time of year, time of day and existing levels of human activity, e.g. farming, forestry and habitation. NatureScot should be contacted to determine whether a formal consultation is required.

<sup>&</sup>lt;sup>3</sup> NatureScot guidance provides a suggested buffer zone range for specially protected or sensitive species (see table in Appendix A). The upper limit of the disturbance buffer should be used unless it can be demonstrated that a lower buffer is sufficient. This is intended to provide a precautionary approach, however it is noted that in certain circumstances lower buffers will be appropriate. Factors influencing whether a lower buffer would be considered sufficient include, but are not limited to; type of disturbing activity, duration, topography and known levels of habituation. NatureScot also recognise the importance of incorporating site-specific factors into consideration when applying buffers. The disturbance buffer may then be reduced if it can be demonstrated and agreed (in writing) by a Specialist Adviser and / or NatureScot as required, that works will not cause disturbance.



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TG-NET-ENV-505			Transmission
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Revision: 3.00	Classification: Internal	Issue Date: November 2024	Review Date: November 2032

- 5. Monitoring will be undertaken by the ECoW or Specialist Adviser, where appropriate, to ensure no disturbance is caused<sup>4</sup>. An emergency procedure will be implemented by site workers if breeding birds are unexpectantly encountered within the footprint of construction works. All work within 50 m (non-scheduled species) or the relevant maximum protection distance for species listed in Appendix A will immediately cease, and the ECoW will inspect the site and ensure that works do not affect any nest, bird, eggs or young at this location, through micro-siting or re-programming of works as per the general mitigation outlined in this SPP.
- In exceptional cases, standard mitigation measures (as outlined above) may be insufficient. In such scenarios, mitigation will be determined on a case-specific basis. No construction works shall be undertaken within the buffer zone until mitigation has been agreed (in consultation with NatureScot if required).

## 5.4 Specific Mitigation

#### 5.4.1 Dissuasion Techniques

Dissuasion techniques may be used to make areas less attractive to nesting birds or birds returning back to a previous nesting location (dissuasion will not be carried out where there is potential to harass Schedule 1A species, or interfere with / damage a Schedule A1 nest). Dissuasion may include Scrub clearance / felling / strimming prior to the breeding season commencing . The placement of bird scarers / frightening devices may also be used as a dissuasion technique where appropriate. See details below:

#### • Habitat management

- a) Scrub clearance / felling / strimming may be used to discourage birds nesting prior to the start of the breeding season in suitable areas. This method has a dual purpose in also dissuading reptiles / small mammals. For strimming, a sward is cut to a height of 2-5cm depending upon vegetation type and ground conditions and this can be achieved by hand strimmers or mechanical means depending upon the ground conditions. The advantage of this method is that the vegetation can be cleared in advance of the works and in slow growing areas, i.e. heath, there is a potential for the site to remain free of constraints for a longer period of time. The ECoW will advise on the potential for other ground nesting species to occupy these areas; in such instances, bird scarers may be appropriate in conjunction with the management of sward height.
- b) Clearance of habitat will be undertaken outwith the breeding season Weekly walkover checks by a suitably licenced and experienced ecologist shall then be undertaken to ensure that the mitigation measures are being effective. If clearance of habitat needs to be undertaken within the bird breeding season, a pre-works check should be undertaken by a suitably qualified ecologist within 48hrs of the clearance works.

<sup>&</sup>lt;sup>4</sup> It is important to note that bird heart rate may be increased by exposure to human disturbance before alert behaviour or flight initiation responses are evident. Increased heart rate and increased levels of stress hormones have physiological costs and so disturbance may have subtle impacts even on birds that are not clearly showing behavioural responses to disturbance.



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Revision: 3.00	Classification: Internal	Issue Date: November 2024	Review Date: November 2032

#### Active dissuasion / disturbance

- a) At sites where there will be a high level of human activity, the noise and possible vibration from construction activities should dissuade some nesting activities.
- b) Areas identified to be at risk of nesting birds will be identified and disturbance levels at these locations will be increased. Sites will be visited regularly to dissuade birds from nesting (this may include tower climbing on overhead line projects).
- c) Several types of bird scarer/ frightening device can be used, and are detailed below. The use of each should be determined by the ECoW.
- d) Hawkeyes are probably the most effective of the bird scarers that have been used on the previous projects. A small number of these have been effective in deterring birds from nesting within construction areas. These will be deployed prior to the start of the breeding season and moved around the compound to stop the birds becoming accustomed to them.
- e) Ticker tape can be used in more sheltered areas and can work well, however they can be difficult to attach to poles/canes and work best on fencing such as that for the compounds.
- f) Scarecrows can be constructed using old PPE and are a cheap way to supplement the Hawkeyes.
- g) Scarers will be placed no later than 10 days before construction commences. Once deployed, scarers will be kept on site for a period sufficient to minimize the risk of birds settling on site during the works.
- h) As construction commences, suitable nesting sites within the construction footprint will normally be reduced. The frequency of ongoing checks will then be decided by the ECoW on a site-by-site basis.

#### 5.4.2 Removing Disused Bird Nests

The objective of this mitigation is to provide specific guidelines for the protection of birds and their nesting places before and during construction works, but also to facilitate the removal of old or disused nests where required for construction or maintenance works, such as:

- a) in substations where birds have nested on equipment causing a fire risk;
- b) in order to allow dismantling of redundant towers; or
- c) where the presence of a disused nest interferes with construction, maintenance or upgrading of overhead transmission lines.

#### Not specially protected birds

- a) It is an offence to remove a bird nest while it is being built or in use and it is an offence to take, destroy or possess the egg of a wild bird.
- b) If a bird nest is to be removed, then it must be shown to be disused. It is therefore recommended that the nest is removed outwith the bird breeding season.



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- c) Before a nest of any species is removed, where there is any doubt as to whether the nest is in use or not, it will be monitored by the ECoW over a period of a week. Direct observations of nests will be made on the 1st, 3rd and 5th days as well as monitoring from suitable vantage points and where necessary with camera traps. The nest will be removed only when there is clear evidence that the nest is disused and no eggs are present.
- d) Should eggs be found, the nest will not be moved until a licence has been obtained from NatureScot for the taking of the eggs.

#### Schedule 1 species

- a) For white-tailed eagle and golden eagle (Schedule A1) it is an offence to remove or damage a nest at any time, regardless of whether it is currently in use.
- b) The disused nests of any other Schedule 1 species needing to be removed will be subject to an assessment and agreed in writing with NatureScot. The assessment will detail the needs case for removal, bird species involved, monitoring, information about the nest and clarification of whether it is in habitual use, habitat and any further nests within the area associated with that bird. Nest monitoring will be undertaken by a suitably licensed and experienced ecologist and / or Specialist Adviser.

#### 5.4.3 Drone and Aerial Surveys

NatureScot's guidance on disturbance distances are not differentiated in terms of the source of the disturbance, meaning that the same suggested buffer zones apply to drones as to any other source of disturbance. The following actions must be taken to satisfy compliance with the Wildlife and Countryside Act 1981 and specifically - Schedule 1 protected species:

- a) Any surveys involving the use of drones to be discussed with SSEN Consents & Environment Manager (CEM) in advance of any surveys to ensure relevant data sharing and pertinent information can be provided regarding potential environmental constraints/considerations, to inform the drone survey method.
- b) Drone Survey RAMS are to be provided to the SSEN CEM for review and approval at least one week before the survey is due to be undertaken.



	Bird Species Protection Plan		Applies to
TG-NET-ENV-505			Transmission
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# **6** Revision History

No	Overview of Amendments	Previous Document	Revision	Authorisation
01	Transfer to new template and Nomenclature	TG-PS-LT-718 (Rev 1.00)	1.00	Richard Baldwin
02	Weblinks updated	TG-NET-ENV-505 (Rev 1.00)	1.01	Richard Baldwin
03	Weblinks checked and updated where required.	TG-NET-ENV-505 (Rev 1.01)	2.00	Richard Baldwin
04	Changed SNH Name to new operating name NatureScot Updated to incorporate NatureScot Guidance - Disturbance Distances in selected Scottish Bird Species	TG-NET-ENV-505 (Rev 2.00)	3.00	Simon Hall
05	·			

			Applies to	
TG-NET-ENV-505	Bird Species	<b>Protection Plan</b>	Transmission	
	-	✓		
Revision: 3.00	Classification: Internal	Issue Date: November 2024	Review Date: November 2032	

# Appendix A Summary Guidance on Species Specific Disturbance Distances

Note: the protection zone distances given here are indicative - specific distances will vary depending on individual sites and will require expert advice informed by information provided in Ruddock & Whitfield (2007).

Table A.1

Species	Buffer zone (m) suggestions during the breeding (BR) and non-breeding (NBR) seasons	Overall likely sensitivity to disturbance	
Whooper swan, Cygnus cygnus	NBR = 200-600m	Medium	
White-fronted goose, Anser albifrons	NBR = 200-600m	Medium	
Bean goose, Anser fabalis	NBR = 200-600m	Medium	
Pink-footed goose, Anser brachyrhynchus	BR ≤1000m NBR = 200-600m	Medium	
Greylag goose, Anser anser	BR and NBR = 200-600m	Medium	
Barnacle goose, Branta leucopsis	BR = 50-200m NBR = 200-600m	Medium	
Common shelduck, Tadorna tadorna	BR and NBR = 100-400m	High	
Mallard, Anas platyrhynchos	BR = 50-100m NBR ≥ 100m	Low/Medium	
Gadwall, Anas strepera	BR and NBR = 100-200m	Medium	
Pintail, Anas acuta	BR and NBR = 100-200m	Medium	
Shoveler, Anas clypeata	BR and NBR = 100-200m	Medium	
Eurasian wigeon, Anas penelope	BR = 100-200m NBR = 200-500m	High	
Greater scaup, Aythya marila	NBR = 150-450m	High	
Common eider, Somateria mollissima	BR = 100-200m NBR = 200-500m	Medium/High	
Common scoter, Melanitta nigra	BR = 300-500m	High	
Common goldeneye, Bucephala clangula §	BR = 100-150m NBR = 150-800m	High	
Capercaillie, Tetrao urogallus †, §	BR (nesting females) and NBR = 100- 150m BR (lekking males) = 1000m NBR = 100m	Medium/High	
Black grouse, Tetrao tetrix	BR (nesting females) and NBR = 100- 150m BR (lekking males) = 500-750m NBR = 100m	Medium	
Red-throated diver, Gavia stellata	BR = 500-750m NBR = ≤1000m	High	
Black-throated diver, Gavia arctica	BR = 500-750m NBR = ≤1000m	High	
Great northern diver, Gavia immer	NBR = 100-350m	Medium/High	
Slavonian grebe, Podiceps auritus §	BR and NBR = 150-350m	Medium	
White-tailed eagle, Haliaeetus albicilla *, †, §	BR and NBR = 250-500m	High	
Osprey, Pandion haliaetus §	BR = 350-750m	Medium/High	

			Applies to	
TG-NET-ENV-505	Bird Species	<b>Protection Plan</b>	Transmission	
	-		✓	
Revision: 3.00	Classification: Internal	Issue Date: November 2024	Review Date: November 2032	

Species during the breeding (SRR) and non-breeding (NBR) seasons  Golden eagle, Aquilia chrysaetos * BR = 750-1000m NBR = 250-5000m Medium  Marsh harrier, Circus aeruginosus BR and NBR = 300-3000m Medium  Hen harrier, Circus aeruginosus BR and NBR = 300-500m Medium  Hen harrier, Circus cyaneus *, § BR and NBR = 300-750m Medium  Hen harrier, Circus cyaneus *, § BR and NBR = 300-750m Medium  Honey buzzard, Buteo Buteo BR and NBR = 100-200m Medium  Northern goshawk, Accipiter gentilis BR = 300-500m Medium  Northern goshawk, Accipiter gentilis BR = 300-500m Medium  Eurasian hobby, Falco subbuteo BR = 100-200m NBR = 550m Low/Medium  Eurasian hobby, Falco subbuteo BR = 200-450m Medium  Medium BR = 300-500m NBR = 500m Medium  Eurasian oystercatcher, Haematopus BR = 50-100m NBR = 150-300m Medium  Eurasian oystercatcher, Haematopus Ostralegus  Eurasian oystercatcher, Haematopus BR = 50-100m NBR = 150-300m Medium  Eurasian oystercatcher, Pluvialis agricaria BR = 100-200m NBR = 100-300m Medium  BR = 100-200m NBR = 100-300m Medium  BR = 100-200m NBR = 100-300m Medium  BR = 200-300m Medium  BR =		D 66	1	
Golden eagle, Aquila chrysaetos *         BR = 750-1000m NBR = 250-500m         High           Red kite, Milvus milvus *         BR and NBR = 150-300m         Medium           Marsh harrier, Circus careuginosus         BR and NBR = 300-500m         Medium           Hen harrier, Circus cyaneus *, 9         BR and NBR = 300-750m         Medium           Honey buzzard, Buteo Buteo         BR and NBR = 100-200m         Low/Medium           Honey buzzard, Pernis apivorus         BR = 100-200m         Medium           Northern goshawk, Accipiter gentilis         BR = 100-200m         Medium           Kestrel, Falco tinnunculus         BR = 100-200m NBR = ≤50m         Low/Medium           Eurasian hobby, Falco subbuteo         BR = 200-450m         Medium           Peregrine falcon, Falco peregrinus         BR = 500-750m NBR = ≤200m         Medium           Merlin, Falco columbarius         BR = 300-500m NBR = ≤200m         Medium           Eurasian oystercatcher, Haematopus ostralegus         BR = 300-500m NBR = 150-300m         Medium           Ringed plover, Charadrius hiaticula         BR = 100-200m NBR = 100-300m         Medium           Gorden plover, Pluvialis squatarola         BR = 100-200m NBR = 150-300m         Medium           Burlin, Calidris alpina         BR = 100-200m NBR = 150-300m         Medium           Bed and NBR = 100-300m </td <td>Species</td> <td></td> <td colspan="2"></td>	Species			
Red kite, Milvus milvus * BR and NBR = 150-300m Medium  Marsh harrier, Circus aeruginosus  BR and NBR = 300-500m Medium  Meth harrier, Circus yaneus *, §  BR and NBR = 100-200m Medium  Honey buzzard, Buteo Buteo  Honey buzzard, Pernis apivorus  BR = 100-200m Medium  Northern goshawk, Accipiter gentilis  BR = 300-500m Medium  Nestrel, Falco tinnunculus  BR = 500-750m NBR = ≤50m Low/Medium  Eurasian hobby, Falco subbuteo  BR = 200-450m BR = ≤200m Medium  Peregrine falcon, Falco peregrinus  BR = 500-750m NBR = ≤200m Medium  Berrasian oystercatcher, Haematopus  ostralegus  BR = 500-500m NBR = 150-300m Medium  Brigged plover, Charadrius hiaticula  BR = 100-200m NBR = 100-300m Medium  Molum, Calidris alpina  BR = 100-200m NBR = 150-300m Medium  Medium  Molum, Calidris alpina  BR = 100-200m NBR = 150-300m Medium  Medium  Purple sandpiper, Calidris maritima  BR and NBR = 200-500m MBR = 200-300m Medium  Wood sandpiper, Tringa glareola  BR = 150-300m Medium  Modium  Wood sandpiper, Tringa glareola  BR = 150-300m Medium  Medium  Wood sandpiper, Tringa glareola  BR = 100-200m NBR = 200-300m Medium  BR = 100-300m Medium  Medium  Wood sandpiper, Tringa glareola  BR = 100-200m NBR = 200-300m Medium  BR = 100-300m Medium  Medium  BR = 100-300m Medium  Medium  BR = 200-300m MBR = 300-500m Medium  BR = 100-300m Medium  BR = 200-300m MBR = 300-500m Medium  BR = 300-500m Medium  BR	Coldon coglo Aquilo cherescatos *		High	
Marsh harrier, Circus cyaneus *, § BR and NBR = 300-500m Medium  Hen harrier, Circus cyaneus *, § BR and NBR = 300-750m Medium  Northern goshawk, Accipiter gentilis BR = 300-500m Northern goshawk, Accipiter gentilis BR = 300-500m Medium  Medium  Northern goshawk, Accipiter gentilis BR = 300-500m Medium  Medium  Medium  Merlin, Falco columbarius BR = 200-450m Medium  Me				
Hen harrier, Circus cyaneus *, § BR and NBR = 300-750m	,			
Common buzzard, Buteo Buteo         BR and NBR = 100-200m         Low/Medium           Honey buzzard, Pernis apivorus         BR = 100-200m         Medium           Northern goshawk, Accipiter gentilis         BR = 300-500m         Medium           Kestrel, Falco tinnunculus         BR = 100-200m NBR = ≤50m         Low/Medium           Eurasian hobby, Falco subbuteo         BR = 200-450m         Medium           Peregrine falcon, Falco peregrinus         BR = 500-750m NBR = ≤200m         Medium           Merlin, Falco columbarius         BR = 300-500m NBR = ≤200m         Medium           Burasian oystercatcher, Haematopus ostralegus         BR = 50-100m NBR = 150-300m         Medium           Bringed plover, Charadrius hiaticula         BR = 100-200m NBR = 100-300m         Medium           Gorey plover, Pluvialis squatarola         NBR = 150-300m         Medium           Golden plover, Pluvialis apricaria         BR and NBR = 200-500m         Medium           Purple sandpiper, Calidris maritima         BR = 100-200m NBR = 150-300m         Medium           Wood sandpiper, Tringa glareola         BR = 150-300m         Medium           Common redshank, Tringa rebularia         BR and NBR = 300-500m         Medium           Black-tailed godwit, Limosa laipponica         BR and NBR = 100-200m         Medium           Bar-tailed godwit, Limosa la				
Honey buzzard, Pernis apivorus  BR = 100-200m  Medium  Northern goshawk, Accipiter gentilis  BR = 300-500m  Medium  BR = 200-450m  Medium  Medium  Merin, Falco columbarius  BR = 300-500m NBR = ≤50m  Medium  Merin, Falco columbarius  BR = 300-500m NBR = ≤200m  Medium  Merin, Falco columbarius  BR = 300-500m NBR = ≤200m  Medium  Merin, Falco columbarius  BR = 300-500m NBR = ≤200m  Medium  Merin, Falco columbarius  BR = 300-500m NBR = ≤200m  Medium  Merin, Falco columbarius  BR = 50-100m NBR = 150-300m  Medium  Merin, Falco columbarius  BR = 150-300m NBR = 150-300m  Medium  Meringd plover, Charadrius hiaticula  BR = 100-200m NBR = 150-300m  Medium  Medium  Merin, Falco columbarius  BR = 100-200m NBR = 150-300m  Medium  Medium  Medium  Meringd plover, Pluvialis apricaria  BR and NBR = 200-500m  Medium  Medium  Meringd plover, Pluvialis apricaria  BR = 100-300m  Medium  Medium  Medium  Meringd plover, Calidris maritima  BR = 100-300m  Medium  Medium  Medium  Medium  Meringd plover, Tringa glareola  BR = 100-300m  Medium  Medium  Medium  Medium  Medium  Meringd plover, Tringa nebularia  BR and NBR = 300-500m  Medium  Medium  Medium  Medium  Medium  Medium  Medium  Medium  Medium  Bra-talled godwit, Limosa limosa  BR and NBR = 100-200m  Medium  Medium  Bra-talled godwit, Limosa limosa  BR and NBR = 100-200m  Medium  Bra-talled godwit, Limosa limosa  BR and NBR = 100-200m  Medium  Bra-talled godwit, Limosa limosa  BR and NBR = 100-300m  Medium  Medium  Bra-talled godwit, Limosa limosa  BR and NBR = 100-300m  Medium  Bra-talled godwit, Limosa limosa  BR and NBR = 100-300m  Medium  NBR = 200-400m  Medium  Medium  Medium  NBR = 200-400m  Medium  Medium  NBR = 200-400m  Medium  Medium	•			
Northern goshawk, Accipiter gentilis  Restrel, Falco tinnunculus  BR = 100-200m NBR = ≤50m  Low/Medium  Brergrine falcon, Falco peregrinus  BR = 300-500m  Medium  Merlin, Falco columbarius  BR = 300-500m NBR = ≤200m  Medium  Merlin, Falco columbarius  BR = 300-500m NBR = ≤200m  Medium  BR = 50-100m NBR = 150-300m  Medium  Medium  BR = 50-100m NBR = 150-300m  Medium  Medium  BR = 100-200m NBR = 100-300m  Medium  Medium  Medium  Medium  BR = 100-200m NBR = 100-300m  Medium				
Kestrel, Falco tinnunculus         BR = 100-200m NBR = ≤50m         Low/Medium           Eurasian hobby, Falco subbuteo         BR = 200-450m         Medium           Peregrine falcon, Falco peregrinus         BR = 500-750m NBR = ≤200m         Medium           Merlin, Falco columbarius         BR = 300-500m NBR = ≤200m         Medium           Eurasian oystercatcher, Haematopus ostralegus         BR = 50-100m NBR = 150-300m         Medium           Singed plover, Charadrius hiaticula         BR = 100-200m NBR = 100-300m         High           Grey plover, Pluvialis squatarola         NBR = 150-300m         Medium           Golden plover, Pluvialis apricaria         BR and NBR = 200-500m         Medium           Dunlin, Calidris alpina         BR = 100-200m NBR = 150-300m         Medium           Red knot, Calidris canutus         NBR = 100-300m         Medium           Purple sandpiper, Calidris maritima         BR and NBR < 300m				
Eurasian hobby, Falco subbuteo BR = 200-450m Medium  Peregrine falcon, Falco peregrinus BR = 500-750m NBR = ≤200m Medium  Merlin, Falco columbarius BR = 300-500m NBR = ≤200m Medium  Eurasian oystercatcher, Haematopus ostralegus  Ringed plover, Charadrius hiaticula BR = 100-200m NBR = 150-300m Medium  Grey plover, Pluvialis squatarola NBR = 150-300m Medium  Golden plover, Pluvialis apricaria BR and NBR = 200-500m Medium  Dunlin, Calidris alpina BR = 100-200m NBR = 150-300m Medium  Dunlin, Calidris canutus NBR = 100-300m Medium  Purple sandpiper, Calidris maritima BR and NBR < 300m Medium  Wood sandpiper, Tringa glareola BR = 150-300m Medium  Common redshank, Tringa totanus BR = 100-200m NBR = 200-300m Medium  Greenshank, Tringa nebularia BR and NBR = 300-500m Medium  Black-tailed godwit, Limosa limosa BR and NBR = 100-200m Medium  Bar-tailed godwit, Limosa lapponica NBR = 200-300m Medium  Bar-tailed godwit, Limosa lapponica NBR = 200-300m Medium  Bursian curlew, Numenius arquata BR = 200-300m Medium  Breck-ed-necked phalarope, Phalaropus lobatus  Little tern, Sternula albifrons BR = 100-300m Medium  Bar-tolicker, Sternula albifrons BR = 100-300m Medium  Bar-tolicker, Sternula albifrons BR = 200-400m Medium  Brecked phalarope, Phalaropus lobatus  Little tern, Sterna hirundo BR = 200-400m Medium  Brecked phalarope, Phalaropus lobatus  Little tern, Sterna hirundo BR = 200-400m Medium  Brecked phalarope, Sterna paradisaea BR ≥200m Medium  Brecked phalarope, Sterna fundo BR = 200-400m M				
Peregrine falcon, Falco peregrinus         BR = 500-750m NBR = ≤200m         Medium           Merlin, Falco columbarius         BR = 300-500m NBR = ≤200m         Medium           Eurasian oystercatcher, Haematopus ostralegus         BR = 50-100m NBR = 150-300m         Medium           Ringed plover, Charadrius hiaticula         BR = 100-200m NBR = 100-300m         High           Gorey plover, Pluvialis squatarola         NBR = 150-300m         Medium           Golden plover, Pluvialis apricaria         BR and NBR = 200-500m         Medium           Dunlin, Calidris alpina         BR = 100-200m NBR = 150-300m         Medium           Red knot, Calidris canutus         NBR = 100-300m         Medium           Purple sandpiper, Calidris maritima         BR and NBR < 300m	,	BR = 100-200m NBR = ≤50m	Low/Medium	
Merlin, Falco columbarius       BR = 300-500m NBR = ≤200m       Medium         Eurasian oystercatcher, Haematopus ostralegus       BR = 50-100m NBR = 150-300m       Medium         Ringed plover, Charadrius hiaticula       BR = 100-200m NBR = 100-300m       High         Grey plover, Pluvialis squatarola       NBR = 150-300m       Medium         Golden plover, Pluvialis apricaria       BR and NBR = 200-500m       Medium         Dunlin, Calidris alpina       BR = 100-200m NBR = 150-300m       Medium         Red knot, Calidris canutus       NBR = 100-300m       Medium         Purple sandpiper, Calidris maritima       BR and NBR < 300m	Eurasian hobby, Falco subbuteo	BR = 200-450m	Medium	
Eurasian oystercatcher, Haematopus ostralegus  Ringed plover, Charadrius hiaticula  BR = 100-200m NBR = 100-300m  Medium  Dunlin, Calidris alpina  BR = 100-200m NBR = 150-300m  Medium  Medium  Medium  Medium  Medium  Medium  Medium  Medium  Medium  NBR = 100-200m NBR = 150-300m  Medium  BR = 100-200m NBR = 200-300m  Medium  Medium  Medium  Medium  Medium  Medium  Br = 200-300m  Medium	Peregrine falcon, Falco peregrinus	BR = 500-750m NBR = ≤200m	Medium	
ostralegus       BR = 100-200m NBR = 100-300m       High         Grey plover, Pluvialis squatarola       NBR = 150-300m       Medium         Golden plover, Pluvialis apricaria       BR and NBR = 200-500m       Medium         Dunlin, Calidris alpina       BR = 100-200m NBR = 150-300m       Medium         Red knot, Calidris canutus       NBR = 100-300m       Medium         Purple sandpiper, Calidris maritima       BR and NBR <300m	Merlin, Falco columbarius	BR = 300-500m NBR = ≤200m	Medium	
Grey plover, Pluvialis squatarola       NBR = 150-300m       Medium         Golden plover, Pluvialis apricaria       BR and NBR = 200-500m       Medium         Dunlin, Calidris alpina       BR = 100-200m NBR = 150-300m       Medium         Red knot, Calidris canutus       NBR = 100-300m       Medium         Purple sandpiper, Calidris maritima       BR and NBR < 300m		BR = 50-100m NBR = 150-300m	Medium	
Golden plover, Pluvialis apricaria       BR and NBR = 200-500m       Medium         Dunlin, Calidris alpina       BR = 100-200m NBR = 150-300m       Medium         Red knot, Calidris canutus       NBR = 100-300m       Medium         Purple sandpiper, Calidris maritima       BR and NBR < 300m	Ringed plover, Charadrius hiaticula	BR = 100-200m NBR = 100-300m	High	
Dunlin, Calidris alpina       BR = 100-200m NBR = 150-300m       Medium         Red knot, Calidris canutus       NBR = 100-300m       Medium         Purple sandpiper, Calidris maritima       BR and NBR <300m	Grey plover, Pluvialis squatarola	NBR = 150-300m	Medium	
Red knot, Calidris canutus       NBR = 100-300m       Medium         Purple sandpiper, Calidris maritima       BR and NBR <300m	Golden plover, Pluvialis apricaria	BR and NBR = 200-500m	Medium	
Purple sandpiper, Calidris maritima  BR and NBR <300m  Medium  Mood sandpiper, Tringa glareola  BR = 150-300m  BR = 100-200m NBR = 200-300m  Medium  Medium  Greenshank, Tringa nebularia  BR and NBR = 300-500m  Medium/High  Black-tailed godwit, Limosa limosa  BR and NBR = 100-200m  Medium  Medium  Medium  Medium  Medium  Bar-tailed godwit, Limosa lapponica  BR and NBR = 200-300m  Medium  Medium  BR = 200-300m  Medium  Medium  BR = 200-300m  Medium  Medium  Medium  Medium  BR = 200-300m  Medium  Medium  Red-necked phalarope, Phalaropus  lobatus  Little tern, Sternula albifrons  BR = 100-300m  Medium  Sandwich tern, Thalasseus  sandvicensis  Common tern, Sterna hirundo  BR = 200-400m  Medium/High  Arctic tern, Sterna paradisaea  BR ≥200m  Medium  Medium  Medium/High  Arctic tern, Sterna dougallii  BR ≥200m  Medium	Dunlin, Calidris alpina	BR = 100-200m NBR = 150-300m	Medium	
Wood sandpiper, Tringa glareolaBR = 150-300mMediumCommon redshank, Tringa totanusBR = 100-200m NBR = 200-300mMediumGreenshank, Tringa nebulariaBR and NBR = 300-500mMedium/HighBlack-tailed godwit, Limosa limosaBR and NBR = 100-200mMediumBar-tailed godwit, Limosa lapponicaNBR = 200-300mMediumEurasian curlew, Numenius arquataBR = 200-300m NBR = 200-650mHighWhimbrel, Numenius phaeopusBR and NBR = 100-300mMediumRed-necked phalarope, Phalaropus lobatusBR < 50m	Red knot, Calidris canutus	NBR = 100-300m	Medium	
Common redshank, Tringa totanusBR = 100-200m NBR = 200-300mMediumGreenshank, Tringa nebulariaBR and NBR = 300-500mMedium/HighBlack-tailed godwit, Limosa limosaBR and NBR = 100-200mMediumBar-tailed godwit, Limosa lapponicaNBR = 200-300mMediumEurasian curlew, Numenius arquataBR = 200-300m NBR = 200-650mHighWhimbrel, Numenius phaeopusBR and NBR = 100-300mMediumRed-necked phalarope, Phalaropus lobatusBR <50m	Purple sandpiper, Calidris maritima	BR and NBR <300m	Low/Medium	
Greenshank, Tringa nebularia BR and NBR = 300-500m Medium/High  Black-tailed godwit, Limosa limosa BR and NBR = 100-200m Medium  Bar-tailed godwit, Limosa lapponica NBR = 200-300m Medium  Eurasian curlew, Numenius arquata BR = 200-300m NBR = 200-650m High  Whimbrel, Numenius phaeopus BR and NBR = 100-300m Medium  Red-necked phalarope, Phalaropus lobatus  Little tern, Sternula albifrons BR = 100-300m Medium  Sandwich tern, Thalasseus BR ≥ 200m High  Sandvicensis  Common tern, Sterna hirundo BR = 200-400m Medium/High  Arctic tern, Sterna paradisaea BR ≥ 200m Medium  Roseate tern, Sterna dougallii BR ≥ 200m High  Snowy owl, Bubo scandiacus NBR = 150-500m Medium  Long-eared owl, Asio otus § BR and NBR = 100-300m Medium/High  Short-eared owl, Asio flammeus BR and NBR = 300-500m Medium/High	Wood sandpiper, Tringa glareola	BR = 150-300m	Medium	
Black-tailed godwit, Limosa limosa Bar-tailed godwit, Limosa lapponica Bar-tailed godwit, Limosa lapponica NBR = 200-300m Medium  Eurasian curlew, Numenius arquata BR = 200-300m NBR = 200-650m High Whimbrel, Numenius phaeopus BR and NBR = 100-300m Medium  Red-necked phalarope, Phalaropus lobatus Little tern, Sternula albifrons BR = 100-300m Medium  Sandwich tern, Thalasseus Sandvicensis Common tern, Sterna hirundo BR = 200-400m Medium/High Arctic tern, Sterna paradisaea BR ≥200m Medium  Roseate tern, Sterna dougallii BR ≥200m High Snowy owl, Bubo scandiacus NBR = 150-500m Medium Long-eared owl, Asio otus § BR and NBR = 100-300m Medium/High Medium Medium/High	Common redshank, Tringa totanus	BR = 100-200m NBR = 200-300m	Medium	
Bar-tailed godwit, Limosa lapponica  Eurasian curlew, Numenius arquata  BR = 200-300m NBR = 200-650m  High  Whimbrel, Numenius phaeopus  BR and NBR = 100-300m  Medium  Red-necked phalarope, Phalaropus lobatus  Little tern, Sternula albifrons  BR = 100-300m  Medium  Medium  Sandwich tern, Thalasseus sandvicensis  Common tern, Sterna hirundo  BR = 200-400m  Medium/High  Arctic tern, Sterna paradisaea  BR ≥200m  Medium  Medium  Medium  Medium  Medium  NBR = 200-400m  Medium  Medium/High	Greenshank, Tringa nebularia	BR and NBR = 300-500m	Medium/High	
Eurasian curlew, Numenius arquata  BR = 200-300m NBR = 200-650m  Whimbrel, Numenius phaeopus  BR and NBR = 100-300m  Red-necked phalarope, Phalaropus lobatus  Little tern, Sternula albifrons  BR = 100-300m  Medium  Medium  Medium  BR ≥200m  High  Medium  BR ≥200m  High  Medium  Medium  Medium/High  Arctic tern, Sterna hirundo  BR = 200-400m  Medium/High  Arctic tern, Sterna dougallii  BR ≥200m  Medium  Medium/High	Black-tailed godwit, Limosa limosa	BR and NBR = 100-200m	Medium	
Whimbrel, Numenius phaeopusBR and NBR = 100-300mMediumRed-necked phalarope, Phalaropus lobatusBR <50m	Bar-tailed godwit, Limosa lapponica	NBR = 200-300m	Medium	
Red-necked phalarope, Phalaropus lobatusBR < 50mLowLittle tern, Sternula albifronsBR = 100-300mMediumSandwich tern, Thalasseus sandvicensisBR ≥200mHighCommon tern, Sterna hirundoBR = 200-400mMedium/HighArctic tern, Sterna paradisaeaBR ≥200mMediumRoseate tern, Sterna dougalliiBR ≥200mHighSnowy owl, Bubo scandiacusNBR = 150-500mMediumLong-eared owl, Asio otus §BR and NBR = 100-300mMediumShort-eared owl, Asio flammeusBR and NBR = 300-500mMedium/High	Eurasian curlew, Numenius arquata	BR = 200-300m NBR = 200-650m	High	
lobatusBR = 100-300mMediumSandwich tern, Thalasseus sandvicensisBR ≥200mHighCommon tern, Sterna hirundoBR = 200-400mMedium/HighArctic tern, Sterna paradisaeaBR ≥200mMediumRoseate tern, Sterna dougalliiBR ≥200mHighSnowy owl, Bubo scandiacusNBR = 150-500mMediumLong-eared owl, Asio otus §BR and NBR = 100-300mMedium/HighShort-eared owl, Asio flammeusBR and NBR = 300-500mMedium/High	Whimbrel, Numenius phaeopus	BR and NBR = 100-300m	Medium	
Sandwich tern, Thalasseus sandvicensisBR ≥200mHighCommon tern, Sterna hirundoBR = 200-400mMedium/HighArctic tern, Sterna paradisaeaBR ≥200mMediumRoseate tern, Sterna dougalliiBR ≥200mHighSnowy owl, Bubo scandiacusNBR = 150-500mMediumLong-eared owl, Asio otus §BR and NBR = 100-300mMediumShort-eared owl, Asio flammeusBR and NBR = 300-500mMedium/High		BR <50m	Low	
sandvicensisBR = 200-400mMedium/HighArctic tern, Sterna paradisaeaBR ≥200mMediumRoseate tern, Sterna dougalliiBR ≥200mHighSnowy owl, Bubo scandiacusNBR = 150-500mMediumLong-eared owl, Asio otus §BR and NBR = 100-300mMediumShort-eared owl, Asio flammeusBR and NBR = 300-500mMedium/High	Little tern, Sternula albifrons	BR = 100-300m	Medium	
Arctic tern, Sterna paradisaeaBR ≥200mMediumRoseate tern, Sterna dougalliiBR ≥200mHighSnowy owl, Bubo scandiacusNBR = 150-500mMediumLong-eared owl, Asio otus §BR and NBR = 100-300mMediumShort-eared owl, Asio flammeusBR and NBR = 300-500mMedium/High		BR ≥200m	High	
Roseate tern, Sterna dougallii BR ≥200m High  Snowy owl, Bubo scandiacus NBR = 150-500m Medium  Long-eared owl, Asio otus § BR and NBR = 100-300m Medium  Short-eared owl, Asio flammeus BR and NBR = 300-500m Medium/High	Common tern, Sterna hirundo	BR = 200-400m	Medium/High	
Snowy owl, Bubo scandiacusNBR = 150-500mMediumLong-eared owl, Asio otus §BR and NBR = 100-300mMediumShort-eared owl, Asio flammeusBR and NBR = 300-500mMedium/High	Arctic tern, Sterna paradisaea	BR ≥200m	Medium	
Long-eared owl, Asio otus § BR and NBR = 100-300m Medium  Short-eared owl, Asio flammeus BR and NBR = 300-500m Medium/High	Roseate tern, Sterna dougallii	BR ≥200m	High	
Short-eared owl, Asio flammeus BR and NBR = 300-500m Medium/High	Snowy owl, Bubo scandiacus	NBR = 150-500m	Medium	
	Long-eared owl, Asio otus §	BR and NBR = 100-300m	Medium	
	Short-eared owl, Asio flammeus	BR and NBR = 300-500m	Medium/High	
	Tawny owl, Strix aluco	BR = 50-200m NBR ≥50m		

			Applies to	
TG-NET-ENV-505	Bird Species Protection Plan		Transmission	
	•		✓	
Revision: 3.00	Classification: Internal	Issue Date: November 2024	Review Date: November 2032	

Species	Buffer zone (m) suggestions during the breeding (BR) and non-breeding (NBR) seasons	Overall likely sensitivity to disturbance	
Barn owl, Tyto alba	BR = 50-100m NBR ≥50m	Low	
Corncrake, Crex Crex	BR ≥100m	Medium	
European nightjar, Caprimulgus europaeus §	BR = 150-500m	Medium/High	
Kingfisher, Alcedo atthis	BR and NBR = 50-100m	Low/Medium	
Crested tit, Lophophanes cristatus §	BR and NBR = 10-50m	Low	
Crossbill species, Loxia spp §	BR and NBR = 50-200m	Low	

			Applies to	
TG-NET-ENV-505	Bird Species Protection Plan		Transmission	
	-	✓		
Revision: 3.00	Classification: Internal	Issue Date: November 2024	Review Date: November 2032	

# **Appendix B** Protected Species Risk Assessment Template

<Project name> : Protected Species Risk Assessment

<Title including record ID and location>

#### **Scope of Work**

This method statement is applicable for <insert details of works to be undertaken>. The work comprises of:

#### **Location and Access/Egress**

<Insert details including map / plan>

### Description of species, distance from planned works and ground conditions

Reference Number	BNGR letters	OS Grid reference	Place	Description	Distance from project works	Predicted project impact

<Insert details>

#### **Programme of Works**

The following works are planned within the buffer distance:

<Insert details including timing and duration>

#### **Planned Equipment and Manpower**

The operation will be carried out by the following personnel and using the following equipment:

<Insert details>

#### **Risk Assessment/ Supervision of Work**

<Insert details of baseline conditions including topography, proximity to works, existing disturbance levels, mitigation measures and operational controls, likely levels of disturbance from works and summary of risk rating (Low / Medium / High)>

