

## Queiros J (Joao)

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**From:** Holland G (Gayle)  
**Sent:** 02 July 2014 10:34  
**To:** Wilson J (Jared); Bennet F (Finlay); Tait A (Adrian) (MARLAB); Queiros J (Joao)  
**Subject:** FW: Forth & Tay CRM

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**From:** John Uttley [<mailto:John.Uttley@snh.gov.uk>]  
**Sent:** 02 July 2014 08:46  
**To:** Holland G (Gayle)  
**Cc:** Alex Robbins; Sue.O'Brien@jncc.gov.uk; [Karen.Hall@jncc.gov.uk](mailto:Karen.Hall@jncc.gov.uk); Catriona Gall; [Lisa.Chilton@jncc.gov.uk](mailto:Lisa.Chilton@jncc.gov.uk); Glen Tyler  
**Subject:** Forth & Tay CRM

Gayle

Alex has re-run the CRM with the new parameters as agreed on Friday.

We will advise with respect to puffin displacement on Friday. Please contact Alex directly if you have any queries about the CRM.

J

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SNH have revised the collision risk modelling for Seagreen Alpha and Bravo to account of a raised hub height (now 111m above MSL), which with a rotor radius of 83.5m increases the air gap to 27.5m (MSL). We have taken the collision risk estimates and applied the apportioning, as per our previous advice.

This amendment reduces the number of collisions for both Seagreen Alpha and Bravo, as well as the cumulative total. The new predicted impacts during the breeding season (using option 2 at 98% AR) are outlined in table 1 below, with percentage change in survival for all species, except gannet, which is given as total number of birds.

**Table 1. Updated predicted collision risk impacts during the breeding season (option 2 at 98% avoidance).**

Species and SPA		Alpha: Previous	Alpha: New	Bravo: Previous	Bravo: New	Cumul.: Previous
Kittiwake	Buchan Ness	-0.1	-0.0	-0.1	-0.0	-0.2
	Forth Islands	-0.1	-0.1	-0.1	-0.1	-0.8
	Fowlsheugh	-0.7	-0.5	-0.7	-0.5	-1.9
	St Abbs	-0.2	-0.1	-0.2	-0.1	-0.6
Gannet	Forth Islands	744	490	462	305	2161
Lesser black-backed gull	Forth Islands	-0.06	-0.04	-0.15	-0.11	-0.28
Herring gull	Buchan Ness	-0.02	-0.01	-0.01	-0.01	-0.03
	Forth Islands	-0.04	-0.03	-0.03	-0.02	-0.17
	Fowlsheugh	-0.15	-0.12	-0.11	-0.09	-0.27
	St Abbs	-0.04	-0.03	-0.03	-0.02	-0.11

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Further advice will follow on Friday. Please contact Alex directly if you have any queries about this work.

John Uttley | Principal Adviser | Planning & Renewables Unit | Scottish Natural Heritage | [www.snh.gov.uk](http://www.snh.gov.uk) | 01595 693345 | 07876447403 (this is the best number for me today)

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