

# **Vattenfall Wind Power Ltd**

## **Thanet Extension Offshore Wind Farm**

Annex I to Appendix 25 of Deadline 1 Submission:  
Applicant's Responses to the Examining  
Authority's First Written Questions – EXQ 1.12.12

Relevant Examination Deadline: 1

Submitted by Vattenfall Wind Power Ltd

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Revision A

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## 1 Introduction

- 1 This consultation matrix has been drafted in support of the response to Question 1.12.12 raised by ExA following Issue Specific Hearing 2 (ISH2) on 12/12/2018.

## 2 Consultation Matrix

Consultee	Engagement	Consultation on Method	Consultation on draft content	Key issues raised in consultation	Action taken in regard to consultation
MCA	January 2016 (Meeting) – Pre-Scoping	Yes	Yes	Requirement for NRA	MGN 543 Compliant NRA Produced
	January to December 2016 (Emails) – Pre-Scoping			Requirement for Early Engagement with PLA	Early meetings with PLA and ESL held to discuss pilotage
	January 2017 - Scoping Response			Impact on Pilotage at North East Spit	Pilotage study and Pilotage Simulation Study conducted with PLA and ESL showing that pilotage is feasible. Reduction made to RLB to improve sea room.
	December 2017 (Meeting) – NRA			Alignment of WTG with Existing Thanet Wind Farm	Commitment to maintain line of orientation and symmetry.
	January 2018 (Meeting) – NRA			Impact on Anchorage at Margate	Analysis of anchorage footprint at Margate shows extent.

Consultee	Engagement	Consultation on Method	Consultation on draft content	Key issues raised in consultation	Action taken in regard to consultation
	January 2018 – S42 Response			Impact on Navigation Safety	MGN 543 Compliant NRA produced showing risks with ALARP.
	February 2018 (Meeting) – Post-S42			Impact on Vessel Routeing	Vessel routeing reviewed showing minimal impact.
	March to April 2018 – Review of NRA			Cable Burial Depths	Cable burial depths would not exceed 5% UKC
	22-Aug-2018 Post submission			Impacts on AIS/Radar/VHF Coverage	Review of previous studies suggests no significant impact
	04-Oct-2018 Post submission and RR review			Reduction in Sea Room	Collision modelling and pilotage simulation showed an increase in risk but within ALARP. Reduction in RLB.
				Provision of Hydrography to MCA	Embedded risk control.
				Suitability of Risk Controls	Risk controls reviewed since PEIR
				Impact on SAR	Layout guidance reviewed and recommendations made on line of symmetry and orientation

Consultee	Engagement	Consultation on Method	Consultation on draft content	Key issues raised in consultation	Action taken in regard to consultation
				Requirement for ERCOP, Layout Plan and Lighting/Marking	Recommendation made
Trinity House	January 2016 (Meeting) – Pre-Scoping	Yes	Yes	Requirement for NRA	MGN 543 Compliant NRA Produced
	January to December 2016 (Emails) – Pre-Scoping			Requirement for Early Engagement with PLA	Early meetings with PLA and ESL held to discuss pilotage
	January 2017 - Scoping Response			Impact on Pilotage at North East Spit	Pilotage study and Pilotage Simulation Study conducted with PLA and ESL showing that pilotage is feasible. Reduction made to RLB to improve sea room.
	January 2018 (Meeting) – NRA			Impact on Anchorage at Margate	Analysis of anchorage footprint at Margate shows extent.
	January 2018 – S42 Response			Impact on Navigation Safety	MGN 543 Compliant NRA produced showing risks with ALARP.

Consultee	Engagement	Consultation on Method	Consultation on draft content	Key issues raised in consultation	Action taken in regard to consultation
	February 2018 (Meeting) – Post-S42			Impact on Vessel Routeing	Vessel routeing reviewed showing minimal impact.
	March to April 2018 – Review of NRA			Impacts on AIS/Radar/VHF Coverage	Review of previous studies suggests no significant impact
	22-Aug-2018 Post submission			Reduction in Sea Room	Collision modelling and pilotage simulation showed an increase in risk but within ALARP. Reduction in RLB.
	04-Oct-2018 Post submission and RR review			Suitability of Risk Controls	Risk controls reviewed since PEIR
				Requirement for ERCOP, Layout Plan and Lighting/Marking	Recommendation made
Port of London Authority	January to January 2017 (Emails) – Pre-Scoping	Yes – to scope and define supporting studies into Pilotage	No	Requirement for NRA	MGN 543 Compliant NRA Produced



Consultee	Engagement	Consultation on Method	Consultation on draft content	Key issues raised in consultation	Action taken in regard to consultation
	November 2016 (Meeting) – Pre-Scoping			Impact on Pilotage at North East Spit	Pilotage study and Pilotage Simulation Study conducted with PLA and ESL showing that pilotage is feasible. Reduction made to RLB to improve sea room.
	February 2017 - Scoping Response			Relocation of Pilot Boarding Station	Relative merits of relocation of pilot boarding station reviewed but not recommended.
	May 2017 (Meeting) – Pilotage Study			Operational impact on pilotage	Wear and tear and manning requirements reviewed.
	July 2017 (Meeting) – Pilotage Study			Impact on Anchorage at Margate	Analysis of anchorage footprint at Margate shows extent.
	September 2017 (Meeting) – Pilotage Workshop			Impact on Navigation Safety	MGN 543 Compliant NRA produced showing risks with ALARP. Reduction in RLB.
	December 2017 (Meeting) – NRA			Impact on Vessel Routeing and increased transit time	Vessel routeing reviewed showing minimal impact.

Consultee	Engagement	Consultation on Method	Consultation on draft content	Key issues raised in consultation	Action taken in regard to consultation
	January 2018 – S42 Response			Impacts on AIS/Radar/VHF Coverage	Review of previous studies suggests no significant impact
	31-Aug-18			Reduction in Sea Room	Collision modelling and pilotage simulation showed an increase in risk but within ALARP. Reduction in RLB.
				Suitability of Risk Controls	Risk controls reviewed since PEIR
				Lighting and Buoyage Requirements	Recommendation made
ESL	August to October 2016 (Emails) – Pre-Scoping			Impact on Pilotage at North East Spit	Pilotage study and Pilotage Simulation Study conducted with PLA and ESL showing that pilotage is feasible. Reduction made to RLB to improve sea room.
	March 2017 (Meeting) - Scoping			Relocation of Pilot Boarding Station	Relative merits of relocation of pilot boarding station reviewed but not recommended.
	July 2017 (Meeting) – Pilotage Study			Operational impact on pilotage	Wear and tear and manning requirements reviewed.

Consultee	Engagement	Consultation on Method	Consultation on draft content	Key issues raised in consultation	Action taken in regard to consultation
	September 2017 (Meeting) – Pilotage Workshop			Impact on Anchorage at Margate	Analysis of anchorage footprint at Margate shows extent.
	December 2017 (Meeting) – NRA			Impact on Navigation Safety	MGN 543 Compliant NRA produced showing risks with ALARP.
	January 2018 – S42 Response			Impact on Vessel Routeing and increased transit time	Vessel routeing reviewed showing minimal impact.
	31-Aug-18			Requirement for Simulation	Pilotage simulation study conducted to test feasibility of pilotage, results suggest pilotage would remain feasible.
				Reduction in Sea Room	Collision modelling and pilotage simulation showed an increase in risk but within ALARP. RLB revision to increase sea room.
				Suitability of Risk Controls	Risk controls reviewed since PEIR

Consultee	Engagement	Consultation on Method	Consultation on draft content	Key issues raised in consultation	Action taken in regard to consultation
Port of Ramsgate / Thanet District Council	December 2017 (Meeting) – NRA			Proximity of cable routeing close to Ramsgate	Cable exclusion area implemented in Ramsgate approach channel.
	January 2018 – S42 Response			Impacts during cable laying and maintenance	Cable exclusion area implemented in Ramsgate approach channel and commitment to cooperate with port during cable laying.
				Possible risk controls	Discussion of risk controls to minimise impact.
				Impact on pilotage operations	Pilotage simulation study conducted to test feasibility of pilotage, results suggest pilotage would remain feasible.
Royal Temple Yacht Club	December 2017 (Meeting) - NRA			Proximity of cable routeing close to Ramsgate	Cable exclusion area implemented in Ramsgate approach channel.
				Impacts during cable laying and maintenance	Cable exclusion area implemented in Ramsgate approach channel and commitment to cooperate with port during cable laying.

Consultee	Engagement	Consultation on Method	Consultation on draft content	Key issues raised in consultation	Action taken in regard to consultation
Thanet Fishermen Association	December 2017 (Meeting) – NRA			Disruption during construction.	Cooperation plan with fishing groups to be put in place.
	January 2018 – S42 Response			Impact of cable laying and disruption	Cooperation plan with fishing groups to be put in place.
				Offset of shipping into fishing areas	Collision risk modelling and risk assessment undertaken, risks assessed to be within ALARP. Revision of RLB to improve sea room.
				Navigational Marking Requirements	Recommendation made
				Practicality of Risk Controls	Risk controls reviewed since PEIR
RYA	December 2017 (Meeting) - NRA			Offset of shipping into recreational traffic.	Collision risk modelling and risk assessment undertaken, risks assessed to be within ALARP. Revision of RLB to improve sea room.
				Impact of cable protection and UKC	Cable burial depths would not exceed 5% UKC

Consultee	Engagement	Consultation on Method	Consultation on draft content	Key issues raised in consultation	Action taken in regard to consultation
Chamber of Shipping	December 2017 (Meeting) - NRA			Reduction in sea room to west	Collision modelling and pilotage simulation showed an increase in risk but within ALARP. Reduction in RLB.
				Impact on Pilotage Operations.	Pilotage study and Pilotage Simulation Study conducted with PLA and ESL showing that pilotage is feasible. Reduction made to RLB to improve sea room.
				Impact to Navigational Aids, Radar and Communications.	Review of previous studies suggests no significant impact
French Government	January 2018 - S42 Response			Impact to Vessel Routeing	Project site clear of international shipping lanes.
				Impact to Navigational Aids, Radar and Communications.	Review of previous studies suggests no significant impact
Port of Sheerness	January 2018 - S42 Response			Impact on Pilotage at North East Spit	Pilotage study and Pilotage Simulation Study conducted with PLA and ESL showing that pilotage is feasible. Reduction made to RLB to improve sea room.

Consultee	Engagement	Consultation on Method	Consultation on draft content	Key issues raised in consultation	Action taken in regard to consultation
				Reduction in Sea Room	Collision modelling and pilotage simulation showed an increase in risk but within ALARP. Reduction in RLB.
				Impact on Vessel Routeing and increased transit time	Vessel routeing reviewed showing minimal impact.
				Impact to Navigational Aids, Radar and Communications.	Review of previous studies suggests no significant impact
UK Marine Pilots Association	January 2018 – S42 Response			Impacts to Pilotage	Pilotage study and Pilotage Simulation Study conducted with PLA and ESL showing that pilotage is feasible. Reduction made to RLB to improve sea room.

Consultee	Engagement	Consultation on Method	Consultation on draft content	Key issues raised in consultation	Action taken in regard to consultation
				Validity and Limitations of Pilotage Simulation Workshop	The pilotage simulation workshop was designed in consultation with the PLA and ESL to determine the parameters, runs and conditions of each trial. Whilst any simulation is not a true reflection of reality and there are inevitably limitations, it was agreed by the participants that the results of assessment were valid and that pilotage would remain feasible, albeit with a reduced margin for error.
				Impact on Navigational Safety	Collision modelling and pilotage simulation showed an increase in risk but within ALARP. An MGN 534 compliant NRA produced. Reduction in RLB undertaken to improve traffic flow.
Marine Management Organisation	January 2018 - S42 Responses	No	No	NRA	MGN 543 Compliant NRA Produced



Consultee	Engagement	Consultation on Method	Consultation on draft content	Key issues raised in consultation	Action taken in regard to consultation
				Safety zones	Safety zone distance stipulated as 500m during construction
				Aids to Navigation Plan	Required as part of marine license.
				Cable risks	Ongoing monitoring of cable risks to be undertaken
				Thanet Cable Replacement	Scoped into in-combination assessment