

**From:** [Dominika Phillips](#)  
**To:** [Hornsea Project Three](#); [KJ Johansson](#); [Kay Sully](#)  
**Cc:** [Andrew Guyton](#); [Stuart Livesey](#)  
**Subject:** Hornsea Project Three (UK) Ltd response to Deadline 4 (Part 12)  
**Date:** 15 January 2019 23:18:39  
**Attachments:** [image001.png](#)  
[D4\\_HOW03\\_Appendix 49\\_Roulund et al 2019a.pdf](#)  
[D4\\_HOW03\\_Appendix 50\\_Roulund et al 2019b.pdf](#)  
[D4\\_HOW03\\_Appendix 51\\_Defra MC7 Guidance 2010.pdf](#)  
[D4\\_HOW03\\_Appendix 53\\_WQ\\_2.1.3.pdf](#)  
[D4\\_HOW03\\_Appendix 54\\_Aviation Assessments.pdf](#)  
[D4\\_HOW03\\_Appendix 55\\_Development Principles\\_rev2.pdf](#)  
[D4\\_HOW03\\_Appendix 56\\_Manwell et al 2009.pdf](#)  
[D4\\_HOW03\\_Appendix 57\\_Helideck Certificates.pdf](#)  
[D4\\_HOW03\\_Appendix 58\\_Indicative Array Layout.pdf](#)  
[D4\\_HOW03\\_Appendix 59\\_FCLP\\_rev3.pdf](#)  
[D4\\_HOW03\\_Appendix 60\\_Draft CFD Budget Notice.pdf](#)  
[D4\\_HOW03\\_Appendix 62\\_O2.2.34.pdf](#)  
[D4\\_HOW03\\_Appendix 63\\_O2.2.7\\_O2.2.44.pdf](#)  
[D4\\_HOW03\\_Appendix 64\\_Dogger Bank.pdf](#)

---

Dear Kay, K-J

Please find attached the 12<sup>th</sup> instalment of documents.

Best regards,  
**Dr Dominika Chalder PIEMA**  
Environment and Consent Manager



Environmental Management UK | Wind Power  
5 Howick Place | London | SW1P 1WG



Please consider the environment before printing this e-mail

\*\*\*\*\*

This communication contains information which is confidential and is for the exclusive use of the addressee(s).

If you are not a named addressee, please inform the sender immediately and also delete the communication from your system.

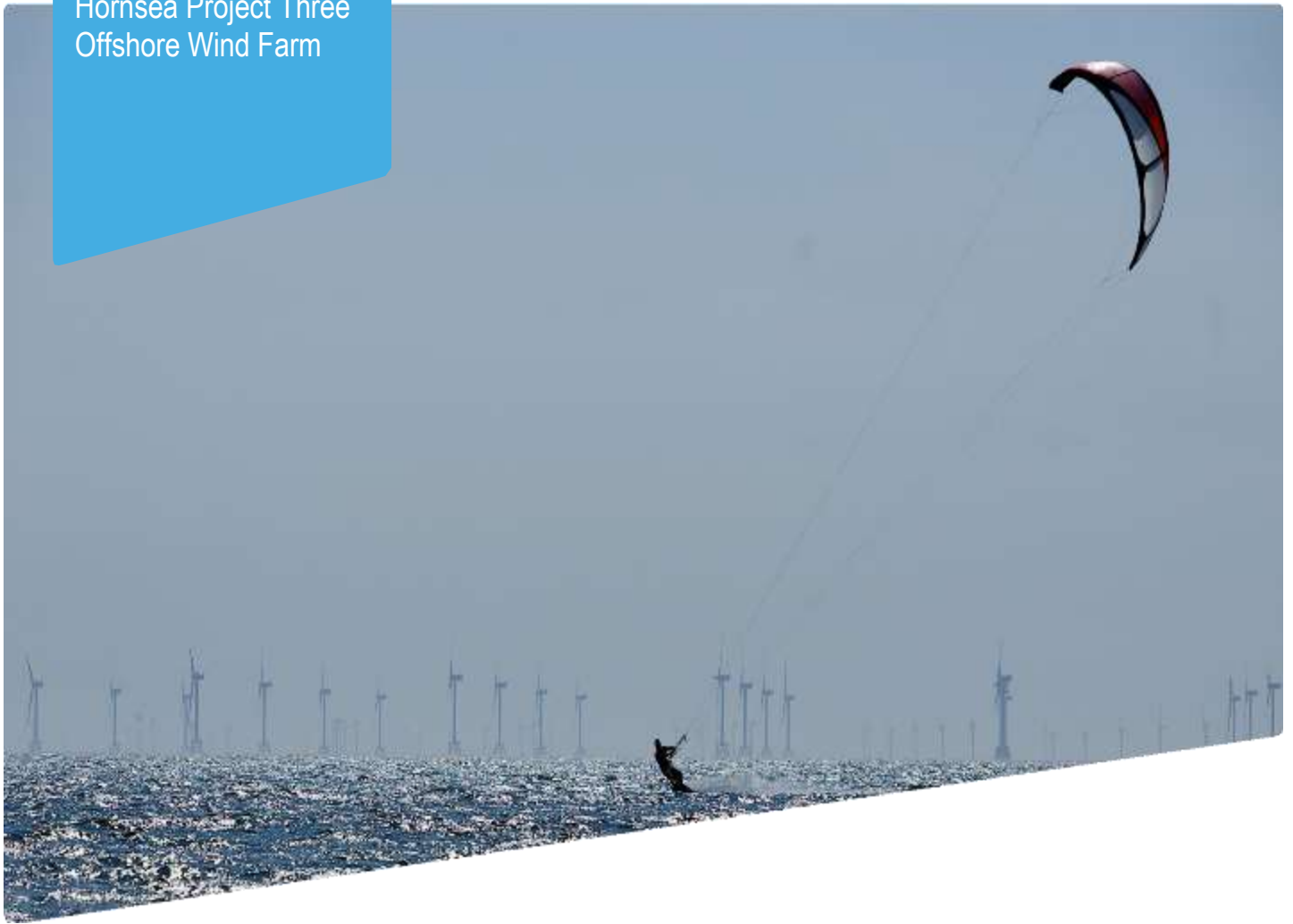
Orsted Power (UK) Limited is registered in England  
Registered number: 04984787  
Registered Address: 5 Howick Place, London, SW1P 1WG  
The Company is a wholly owned subsidiary of Orsted A/S (a company registered in Denmark)  
More information on the business of the Orsted group can be found at [www.orsted.com](http://www.orsted.com)  
Disclaimer version 1.1

---

This email has been scanned by the Symantec Email Security.cloud service.  
For more information please visit <http://www.symanteccloud.com>

---

Hornsea Project Three  
Offshore Wind Farm



## Hornsea Project Three Offshore Wind Farm

---

### Appendix 57 to Deadline 4 Submission – Helideck Certificates for Chiswick and Grove Platforms

---

Date: 15<sup>th</sup> January 2019

Document Control			
<b>Document Properties</b>			
Organisation	Ørsted Hornsea Project Three		
Author	HCA		
Checked by	n/a		
Approved by	n/a		
Title	Appendix 57 to Deadline 4 Submission – Helideck Certificates for Chiswick and Grove Platforms		
PINS Document Number	n/a		
<b>Version History</b>			
Date	Version	Status	Description / Changes
15/01/2019	A	Final	Submitted at Deadline 4 (15/01/2019)

Ørsted

5 Howick Place,

London, SW1P 1WG

© Orsted Power (UK) Ltd, 2019. All rights reserved

Front cover picture: Kite surfer near a UK offshore wind farm © Ørsted Hornsea Project Three (UK) Ltd., 2019.



# HELICOPTER LANDING AREA CERTIFICATE

## Chiswick

The above named helideck has been inspected in accordance with CAP 437, BSL D 5-1, and HCA requirements for Offshore Helidecks.

The helideck has been found suitable for helicopter operations subject to:

1. Such non-compliances and restrictions as may be listed below; and,
2. Authorization by the helicopter operator.

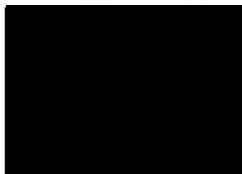
Wind (T°)	Kts	Limitation /Comment
		<ul style="list-style-type: none"> <li>• NUI</li> <li>• Daylight operations only</li> </ul>

Misc	Non Compliance
	No automatic fire-fighting facilities TD/PM circle and "H" lighting not fitted

Valid for helicopters with: Maximum 'D' value:	<b>'D' = 16.66</b>
Maximum take-off weight:	<b>'t' = 6.8</b>
This certification shall remain in force until (unless previously revoked or suspended)	<b>27<sup>th</sup> June 2018</b>

### Notes:

1. This certificate is non-transferable.
2. The certificate holder is responsible for ensuring that the helideck, its environs and related equipment are at all times fit for purpose and that the helideck crew are suitably qualified, equipped and trained in the exercise of their duties.
3. This certificate shall cease to be valid if:
  - ◆ Changes of ownership or name of installation/vessel are made without notification to the HCA.
  - ◆ Changes to the helideck, its environs and/or related equipment are made without prior agreement of the HCA.
  - ◆ Levels of Helideck crew qualifications/competency are not maintained to the levels described in the UKOOA Guidelines for Management of Offshore Helidecks or suitable alternative standards.
  - ◆ Vessel has been laid-up for longer than 180 days.
4. Any proposed changes are to be accompanied by drawings in plan and elevation with photographs where possible, particularly when such changes concern:
  - ◆ Modification to installation/vessel physical characteristics within the 150°, 210° and 180° falling gradient obstacle protected surfaces; and/or structural modifications to other areas of the installation/vessel that may affect or alter the airflow or turbulence experienced over the helideck
5. The Norwegian 1.25D requirement is only relevant to vessels constructed ( keel laid ) after 1 January 2008.



Alex Knight  
Helideck Certification Agency

Date: 11<sup>th</sup> April 2017





# HELICOPTER LANDING AREA CERTIFICATE

## Grove

The above named helideck has been inspected in accordance with CAP 437, BSL D 5-1, and HCA requirements for Offshore Helidecks.

The helideck has been found suitable for helicopter operations subject to:

1. Such non-compliances and restrictions as may be listed below; and,
2. Authorization by the helicopter operator.

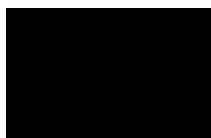
Wind (T°)	Kts	Limitation /Comment
		<ul style="list-style-type: none"> <li>• NUI</li> <li>• Table 1(T) if overflight of either access unavoidable</li> <li>• Circle &amp; "H" lights fitted</li> </ul>

Non Compliance		
<b>150°</b>	Handrails in LOS are 1.87m from SLA @ 0.70m adl	
<b>5:1</b>	East and west access side platform structure	West
<b>Misc</b>	Aiming circle offset No automatic fire-fighting facilities	

Valid for helicopters with: Maximum 'D' value:	<b>'D' = 17.5</b>
Maximum take-off weight:	<b>'t' = 6.8</b>
This certification shall remain in force until (unless previously revoked or suspended)	<b>27 February 2020</b>

### Notes:

1. This certificate is non-transferable.
2. The certificate holder is responsible for ensuring that the helideck, its environs and related equipment are at all times fit for purpose and that the helideck crew are suitably qualified, equipped and trained in the exercise of their duties.
3. This certificate shall cease to be valid if:
  - ◆ Changes of ownership or name of installation/vessel are made without notification to the HCA.
  - ◆ Changes to the helideck, its environs and/or related equipment are made without prior agreement of the HCA.
  - ◆ Levels of Helideck crew qualifications/competency are not maintained to the levels described in the UKOOA Guidelines for Management of Offshore Helidecks or suitable alternative standards.
  - ◆ Vessel has been laid-up for longer than 180 days.
4. Any proposed changes are to be accompanied by drawings in plan and elevation with photographs where possible, particularly when such changes concern:
  - ◆ Modification to installation/vessel physical characteristics within the 150°, 210° and 180° falling gradient obstacle protected surfaces; and/or structural modifications to other areas of the installation/vessel that may affect or alter the airflow or turbulence experienced over the helideck
5. The Norwegian 1.25D requirement is only relevant to vessels constructed ( keel laid ) after 1 January 2008.



Alex Knight  
Helideck Certification Agency

Date: 19 November 2018