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| MORAY EAST VESSEL SPECIFICATION REPORT | Issue Date | 22/04/2020 |
| | | |
| | Ref: 8460001-PC0010-MWE-REP-0020 | Rev: 02 |


Vessel specs and details

Update: 22/04/2020



Relevant Marine Licences: Wind Farm Marine Licences (Telford, Stevenson and MacColl Offshore Wind Farms); Offshore Transmission Infrastructure (OfTI) Marine Licence and Offshore Substation Platform (OSP) Marine Licence

Moray Offshore Windfarm (East) Limited (Moray East)



Vessel details for 2019

| ID | Vessel | Vessel Type / Function | Operator | Contact Details | Vessel call sign | Vessel key characteristics | Date on site | Relevant Marine Licence |
|----|--|---|---------------|--|---------------------------------------|--|-----------------|---|
| 1 | JUV Apollo  | Offshore Heavy Lift DP2 jack up vessel Pile installation works | DEME Offshore | VSAT: +49 421 517 219 1711 bridge.Apollo@ships.deme-group.com | LXBP IMO 9769764 MMSI 253586000 | LOA: 89.3 m Beam: 42.0 m Draught: 15 m | From 18/05/2019 | Wind Farm, OfTI and OSP Marine Licences |



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|----|---|---|--|--|--|---|-----------------|---|
| 2 | MV Normand Service  | DP 2 PSV vessel Infield pile installation supply and support | DEME Offshore | Bridge +870 773 152 045 +44 7465 844 147 VSAT +44 293 608 9671 bridge@service.solstad.com | LAFR8 IMO: 9656644 MMSI: 257062690 | LOA: 88.80 m Beam: 19.0 m Draught: 6.60 m | From 18/05/2019 | Wind Farm, OfTI and OSP Marine Licences |
| 3 | GV Replenish  | Construction guard vessel | Kinnaird Marine Services Replenish (FR) LLP | Onshore Office Kirkton House, South Road Fraserburgh AB43 8TJ 01346 518035 Vessel email. gvreplenish@gmail.com George West george@kinnairdmarine.co.uk VHF | MASY7 MMSI: 235055180 | LOA: 24.36 m Beam: 7.17 m Draught 3.48 m | From 17/05/2019 | Wind Farm, OfTI and OSP Marine Licences |



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|----|---|---------------------------|--------------------------|--|-----------------------------|---|-----------------|---|
| 4 | KMS Ability N294  | Construction guard vessel | Kinnaird Marine Services | Onshore Office Kirkton House, South Road Fraserburgh AB43 8TJ 01346 518035 Vessel email. kmsability@gmail.com George West george@kinnairdmarine.co.uk VHF | MDFW3 MMSI: 235014666 | LOA: 23.14 m Beam: 6.63 m Depth: 3.20 m | From 05/06/2019 | Wind Farm, OfTI and OSP Marine Licences |
| 5 | Rover Alpha  | Construction guard vessel | Kinnaird Marine Services | Onshore Office Kirkton House, South Road Fraserburgh AB43 8TJ 01346 518035 Vessel email. TBC George West george@kinnairdmarine.co.uk VHF | MLAS2 IMO 920661 | LOA: 19.21 m Beam: 6.0m Draught: 5.8 m | From TBC | Wind Farm, OfTI and OSP Marine Licences |



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| 6 | Natalie C  | Construction guard vessel | Kinnaird Marine Services | Onshore Office Kirkton House, South Road Fraserburgh AB43 8TJ 01346 518035 Vessel email. TBC George West george@kinnairdmarine.co.uk VHF | GHNE IMO 8673126 | LOA: 26.36 m Beam: 6.4m Draught: 3.24 m | From TBC | Wind Farm, OfTI and OSP Marine Licences |
| 7 | Resolute  | Construction guard vessel | Kinnaird Marine Services | Onshore Office Kirkton House, South Road Fraserburgh AB43 8TJ 01346 518035 Vessel email. TBC George West george@kinnairdmarine.co.uk VHF | MLPD5 IMO 7008025 | LOA: 25.2 m Beam: 6.86m Draught: 2.6 m | From 11/11/2019 | Wind Farm, OfTI and OSP Marine Licences |



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|----|---|---|-----------------|--|--|---|-----------------|-------------------------|
| 8 | Voe Jarl  | HDD Utility Vessel and anchored at HDD exit point | Delta Marine | Onshore contact Dave McNaughton 07748986716 dave@deltamarine.co.uk Vessel Mobile for Master +44(0)7502297888 voejarl@delta-marine.co.uk VHF | MSBB3 IMO 9429974 MMSI 235055168 | LOA: 26.0 m Beam: 11.5 m Depth: 5.1 m | From 14/07/2019 | OfTI Marine Licence |
| 9 | Rona  | Secure tail end of HDPE during tow/Crew Transfers/Medical Emergency | Caldive Limited | Iain Beaton 18 High Street, Invergordon IV18 0ET, Ross-shire, Scotland Tel: + 44 (0) 1349 853688 (24 hour service) Tel: + 44 (0) 1349 853688 Mob: + 44 (0) 7713 064672 Master TBC | MACN3 | LOA: 26 m Beam: 11 m Draught: 2.25m | From 02/08/2019 | OfTI Marine Licence |

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|----|--|---------------------------------|-----------------|---|------------------|--|-----------------|---|
| 10 | Shuna  | Tug boat for ducting pull works | Caldive Limited | Iain Beaton 18 High Street, Invergordon IV18 0ET, Ross-shire, Scotland Tel: + 44 (0) 1349 853688 (24 hour service) Tel: + 44 (0) 1349 853688 Mob: + 44 (0) 7713 064672 Master TBC | VQBP3 | LOA: 16.8 m Beam: 5.29 m Draught: 2.3 m | From 02/08/2019 | OfTI Marine Licence |
| 11 | Teal of Wick  | Multipurpose vessel | Caldive Limited | Iain Beaton 18 High Street, Invergordon IV18 0ET, Ross-shire, Scotland Tel: + 44 (0) 1349 853688 (24 hour service) Tel: + 44 (0) 1349 853688 Mob: + 44 (0) 7713 064672 Master TBC | ZQXM9 | LOA: 18.25 m Beam: 8.0 m Draught: 1.85 m | From 02/08/2019 | Wind Farm, OfTI and OSP Marine Licences |

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| 12 | Waterfall  | Workboat, UK MCA Cat 2 Sound recording equipment and acoustic loggers deployment / recovery | University of Aberdeen | Bill Ruck Moray First Marine Ltd Tel: 07775 802 963 bill@moraymarine.com | 2CBT4 / 235071392 | LOA: 16 m Beam: 6.5 m Draught: 1.7 m | From 15/05/2019 | Wind Farm Marine Licences |
| 13 | Coral Wind  | Workboat, UK MCA Cat 2 Sound recording equipment and acoustic loggers deployment / recovery | University of Aberdeen | Bill Ruck Moray First Marine Ltd Tel: 07775 802 963 bill@moraymarine.com | 2EMX8 / 235086491 | LOA: 14 m Beam: 5.1 m Draught: 1.2 m | From 15/05/2019 | Wind Farm Marine Licences |

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|----|---|---|-----------------|---|-------------------|--|--------------|--|
| 14 | Isle of Jura  | BV Class Anchor Handling Offshore Support Vessel MCA Workboat Class V111 | Caldive limited | Iain Beaton 18 High Street, Invergordon IV18 0ET, Ross-shire, Scotland Tel: + 44 (0) 1349 853688 (24 hour service) Tel: + 44 (0) 1349 853688 Mob: + 44 (0) 7713 064672 Master TBC | MFFY6 / 232021966 | LOA: 33.2 m Beam: 14.5 m Draught: 4.85 m with aft thrusters deployed | 27/11/2019 | Wind Farm, OfT and OSP Marine Licences |

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Vessel details from 2020 onwards

| ID | Vessel | Vessel Type / Function | Operator | Contact Details | Vessel call sign | Vessel key characteristics | Date on site | Relevant Marine Licence |
|----|---|--|------------------------|--|------------------|---|----------------|---|
| 1 | HLV Orion  | Offshore Heavy Lift DP3 Installation Vessel WTG and OSP Jacket Foundation Installation and OSP Topside Installation | GeoSea | Onshore contact Mr Sollie +32 475 535382 SOLLIE.KRIS@DEME-GROUP.COM | TBC | LOA 216 m Beam 49 m Draught 16.8 m | 2020 | Wind Farm, OfTI and OSP Marine Licences |
| 2 | NKT Victoria  | Cable Lay (export cables) PLGR Pre-Crossing Installation Boulder Pelocation | NKT / Remoy Management | Tommy Stuesson Project Manager D +46 455 53520 tommy.stuesson@nkt.com | LAWV7 | LOA: 140 m Beam: 30 m Draught: 7.2 m | From June 2020 | OfTI Marine Licence |



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|----|---|---|-----------------------------|--|---|---|--------------|------------------------------------|
| 3 | Havila Phoenix  | Trenching Vessel (export cables) | Havila shipping/ Deep Ocean | TBC | C68D2 | LOA: 127 m Beam: 23 m Draught: 6.25 m | 2020 | OfTI Marine Licence |
| 4 | Zwerver II  | Pre-lay Grapnel – Anchor Handling Vessel Route Clearance with Grapnel / Hook Train on Seabed (inter-array and OSP interconnector cables) | HVS Dredging Support | Onshore contact Mr. Arjan (J.J.) van Stee +31 (0) 6 53663292 Vessel e mail TBC Vessel tel TBC VHF | PCTQ IMO 9794458 MMSI 244870718 | Length: 35 m Breadth: 15 m Draught: 4.07m | 2020-2021 | Wind Farm and OfTI Marine Licences |



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|----|--|--|-------------|-----------------|------------------|---|--------------|------------------------------------|
| 5 | CLV NDurance  | Cable lay (inter-array and OSP interconnector cables) | Boskalis | TBC | 5BVH3 | LOA: 99.0 m Beam: 30 m Draught: 4.3 m | 2020-2021 | Wind Farm and OfTI Marine Licences |
| 6 | ACTA ISV Orion  | Survey, equipment and personnel transfer (inter-array and OSP interconnector cables) | ACTA Marine | TBC | PCEN | LOA: 107 m Beam: 16 m Draught: 5.5 m | 2020-2021 | Wind Farm and OfTI Marine Licences |



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| 7 | TSV Grand Canyon  | Cable burial and survey (inter-array and OSP interconnector cables) | Helix Energy Solutions | TBC | LACJ8 | LOA: 128 m Beam: 26 m Draught: 6.7 m | 2020-2021 | Wind Farm and OfTI Marine Licences |
| 8 | OSV Vos Start  | Personnel and equipment transfer (inter-array and OSP interconnector cables) | Vroon | TBC | PBIH | LOA: 80 m Beam: 18 m Draught: 5 m | 2020-2021 | Wind Farm and OfTI Marine Licences |



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| 9 | RPV Rock Piper  | Rock dump installation and fall pipe vessel (inter-array and OSP interconnector cables) | Acta Marine | TBC | 5BML3 | LOA: 107 m Beam: 16 m Draught: 5.5 m | 2020-2021 | Wind Farm and OfTI Marine Licences |
| 10 | Maersk Connector  | Survey of site one cable route. | Enshore | Offshore Manager / Party Chief: Scott Gooding Sgooding@enshoresubsea.com | OWEB2 | LOA: 138 m Beam: 28 m Draught: 5.4 m | 2020 | OfTI Marine Licence |




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| 11 | Havila Venus  | Boulder Clearance on Export Cable route and Inter Array Cable Route | Havila Shipping/Oceaning | Vessel Master Tel: +47 23675864 Vessel E-mail: Bridge.venus@havilaship.com | LAZC | LOA: 92 m Beam: 22 m Draught: 7.1 m | From April 2020 | OfTI and OSP Marine Licences |
| 12 | Flintstone  | Pipelay/ Boulder Clearance and Scour Protection installation | DEME Group | Vessel Master Tel: +494215172191963 Vessel E-mail: captain.flintstone@ships.deme-group.com | PBZD | LOA:154.6 m Beam 32.23 m Draught: 6.7 m | From April 2020 | OfTI and OSP Marine Licences |



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| 14 | <p>Ocean Enterprise</p>  | <p>Workboat, UK MCA Cat 2 Survey vessel/Port tender</p> | <p>Moray First Marine Ltd</p> | <p>Bill Ruck Moray First Marine Ltd Tel: 07775 802 963 bill@moraymarine.com</p> | <p>MECUS/ 232018791</p> | <p>LOA: 14 m Beam: 7 m Draught: 1.2 m</p> | <p>April 2020</p> | <p>Windfarm licence</p> |
| 15 | <p>Wagenborg Barge 7, Wagenborg Barge 8 and Wagenborg Barge 10</p>  | <p>Barges / OSPs Transport</p> | <p>Royal Wagenborg B.V. / Wagenborg Towage</p> | <p>Wagenborg Towage TBC</p> | <p>IMO: 0989329 Company IMO: 0303304</p> | <p>LOA: 100 m Beam: 33 m Draught: 6.05 m</p> | <p>May 2020</p> | <p>OSP Marine Licence</p> |



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| 16 | Multratug 3  | Tugboats / OSPs Transport | Multraship | Multraship Towage & Salvage TBC | PCDB IMO: 9537408 | LOA: 32.14 m Beam: 13.29 m Draught: 6.31 m | June 2020 | OSP Marine Licence |
| 17 | Multratug 17  | Tugboats / OSPs Transport | Multraship | Multraship Towage & Salvage TBC | PHPV IMO: 9481752 | LOA: 35.70 m Beam: 11.50 m Draught: 4.35 m | June 2020 | OSP Marine Licence |
| 18 | Multratug 18  | Tugboats / OSPs Transport | Multraship | Multraship Towage & Salvage TBC | PBRY IMO: 9492880 | LOA: 35.70 m Beam: 11.50 m Draught: 4.85 m | June 2020 | OSP Marine Licence |



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| 19 | Multratug 27  | Tugboats / OSPs Transport | Multraship | Multraship Towage & Salvage TBC | PCWB IMO: 9667875 | LOA: 28.67 m Beam: 10.43 m Draught: 4.80 m | June 2020 | OSP Marine Licence |
| 20 | Boskalis Spirit/ex Stemat  | Cable Layer | Royal Boskalis | TBC | 5BWK4 | LOA: 90 m Beam: 28 m Draught: 3.8 m | 2020 | OfTI and OSP Marine Licences |



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|----|---|---|------------------------|-----------------|---|---|--------------|------------------------------|
| 21 | Bold Tern  | Offshore Construction Jack-up vessel./WTG | Fred.Olsen Windcarrier | TBC | Call sign 9HA3053 IMO 95837 MMSI 229080000 | LOA: 131.73m Beam: 39 m Draught: 6.2m | TBC | OfTI and OSP Marine Licences |
| 22 | Acta Centaurus  | DP2 WTG W2W Construction Support vessel | Acta Shipping 3BV | TBC | Call sign PB01 IMO 9850355 MMSI 244341000 | LOA:93.4 m Beam: 18 m Draught: 5.6 m | TBC | OfTI and OSP Marine Licences |

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| 23 | GMS Endeavour  | Offshore Jack up Platform vessel. OSP hook up commissioning | Fred.Olsen Windcarrier | TBC | Call sign 3EUG6 IMO 9558983 MMSI 370582000 | LOA:84.1 m Beam 36 m Draught 5.9 m | TBC | Wind Farm, OfTI and OSP Marine Licences |
| 24 | NDeavor  | Cable lay (inter-array and OSP interconnector cables) | Boskalis | TBC | Call Sign 5BVG3 MMSI- 209752000 IMO- 9650212 | LOA:99 m Beam:30 m Depth: 7 m | TBC | Wind Farm and OfTI Marine Licences |

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| 25 | Boka Falcon  | Anchor Handler / Boulder Clearance Plough | Boskalis | Boskalis TBC | TBC | LOA : 93.5m Beam : 22m Draught : 7.8m | July 2020 TBC | Wind Farm and OfT Marine Licences |
| 26 | Boka Pegasus  | Anchor Handler / Boulder Clearance Plough | Boskalis | Boskalis TBC | IMO 9495210 Call sign 9HA5057 | LOA 91.0: m Beam 21.95 : m Draught 8.0 : m | July 2020 TBC | Wind Farm and OfT Marine Licences |
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