

MONA OFFSHORE WIND PROJECT

Outline Dust Management Plan [F01 F02 \(Tracked\)](#)

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Image of an offshore wind farm

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Acronyms

Acronym	Description
CCoC	Constitutional Committee
CoC	Code of Construction Practice
DCC	Devon County Council
MCC	Metropolitan Council
MCC	Metropolitan Council

Units

Unit	Description
m	Metre

1 Outline Dust Management Plan

1.1 Introduction

1.1.1 Background

1.1.1.1 The Outline Dust Management Plan is provided in accordance to the Outline Code of Construction Practice (CoCOP) set out the requirements that must be implemented during the construction phase of the Mona Offshore Wind Project.

1.1.1.2 The Outline Dust Management Plan seeks to manage potential impacts that occur from the construction of the onshore and intertidal elements of the Mona Offshore Wind Project. These elements occur in the order of Main body of the project and comprise:

- Landfill
- Onshore Cable Corridor
- Onshore Substation
- Offshore Wind Connection Cable Corridor.

1.1.1.3 In addition to these elements the Outline Dust Management Plan also considers the temporary construction compounds for the access and mitigation areas required to support the construction of the Mona Offshore Wind Project.

1.1.1.4 The relevant planning authorities for the landfill and the western section of the Onshore Cable Corridor are: West of London London Councils and the Greater London Authority (GLA). The relevant planning authorities for the eastern section of the Onshore Cable Corridor, the Onshore Substation and the Offshore Wind Connection Cable Corridor are: Dorset Council and the Dorset Council.

1.1.2 Purpose of the Outline Dust Management Plan

1.1.2.1 The draft Development Consent Order (DCO) Document Reference C001 includes a requirement for the provision of a final CoCOP. The final CoCOP must be supported by a series of management plans including a Dust Management Plan as part of the final CoCOP. The CoCOP must be submitted to and approved by the relevant planning authority prior to the commencement of onshore works.

1.1.2.2 The purpose of this Outline Dust Management Plan is to set out the key construction dust control measures that must be required during construction of the onshore and intertidal elements of the Mona Offshore Wind Project.

1.1.2.3 This is an outline document based on the details set out in Volume 1 of the Project Description of the Environmental Statement and includes measures that have been identified as part of the project process.

1.1.2.4 The Outline Dust Management Plan should be read in conjunction with the Outline CoCOP Document reference J26 and its supporting appendices. Management measures relating to air emissions from construction activities are described in the Outline Traffic Plan and the Outline Construction Traffic Management Plan Document reference J26.001.

1.2 Scope of the Outline Dust Management Plan

1.2.1.1 The scope of this Outline Dust Management Plan applies to the onshore site preparation work and construction activities of the Mona Offshore Wind Project located inland of M001. The plan does not apply to activities associated with offshore work. Record of M001

1.2.1.2 Onshore site preparation work includes undertaken prior to the commencement of construction. These work ~~comprise the following:~~

- ~~Site clearance include vegetation clearance~~
- ~~Demolition~~
- ~~Grading and/or end contouring~~
- ~~Re-erosion prevention~~
- ~~Environment survey~~
- ~~Contamination~~
- ~~Investigation for the purpose of assessing ground condition~~
- ~~Remediation or in respect of contamination or other adverse ground condition~~
- ~~The diversion and use of utilities and services~~
- ~~Site security~~
- ~~The erection of a temporary means of enclosure~~
- ~~The erection of a temporary road tunnel~~
- ~~The erection of a fire fence~~
- ~~Creation of site access~~
- ~~Temporary removal of the notice or advertisement~~

1.2.1.2.1 The onshore site preparation work detailed in section 1.2.1.2 will be carried out in accordance with the measures set out in this Outline Dust Management Plan as part of the CoC and secured and requirement in the certified through the DCO.

1.2.1.2.2 The final Dust Management Plan will be in accordance with the principles established in the Outline Dust Management Plan and will be agreed with the relevant authority prior to commencing construction of the relevant phase of the onshore and intertidal or subtidal M001. For the purpose of this plan the term construction includes remedial engineering construction and restoration activities as outlined in the DCO and the Order and the

1.3 Roles and responsibilities

1.3.1 Overview

1.3.1.1 The roles and associated responsibilities set out in this Outline Dust Management Plan are set out below. The Construction Design and Management Regulation 2007 identifies the duties, responsibilities and obligations of the main roles within the construction team.

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1.1.1.2 The responsibilities of each role shall be refined as necessary in the final Duty Management Plan.

Applicant

1.1.1.1 The applicant shall be responsible for the following:

- ensuring that the Duty Management Plan is implemented effectively
- providing necessary direction to contractors for effective setting contractual obligations
- Re-evaluating and refining the Duty Management Plan where necessary in conjunction with the Principal Contractor.

Principal Contractor

1.1.1.1 The Principal Contractor shall be appointed as the applicant and shall be overall responsible for:

- identifying and determining the final Duty Management Plan on behalf of the applicant
- ensuring procedures in the Duty Management Plan are followed
- ensuring all contractors are suitably qualified and experienced in implementing the measures within the Duty Management Plan
- Maintaining records relevant to the Duty Management Plan.

Contractors/Sub contractors

1.1.1.1 Contractors and sub-contractors shall be required to understand their responsibilities and implement the measures within the Duty Management Plan e.g. to ensure that all equipment is switched off after use and at the end of the working shift.

1.3.2 Training and competence

1.1.2.1 All construction staff shall receive training as part of the site induction on the importance of managing duty from the construction work area. Training shall include the control measures within the Duty Management Plan and the reporting procedures for duty incidents. Specific training e.g. toolbox talks shall be given for those staff involved in duty generating construction activities and for those staff undertaking duty monitoring. All staff shall be made aware of any changes to the Duty Management Plan.

1.1.2.2 Staff responsible for the operation/maintenance or repair of duty suppression systems shall be trained and competent and documented upon training records.

1.1.2.1 All sub-contractors working on site shall be made aware of the Outline Duty Management Plan and shall be expected to comply with it at all times.

1.1.2.1 A list of approved repair contractors shall be kept in the site office and relevant site operatives shall be made aware of the existence and the location of the list. Where appropriate, competent persons shall be kept on site.

1.4 Process description

- 1.4.1.1 The following table of activities during construction of the Mona Offshore Wind Project could result in future dust emissions:
- Earthworks
 - Landfill and disposal of spoil
 - Installation of concrete materials from storage
 - Handling of loose construction materials
 - Movement of vehicles on and off site trackout
- 1.4.1.2 The spread distribution of construction dust emissions is determined according to factors such as the type of dust, duration and location of dust-generating activities, weather conditions and the effectiveness of dust suppression methods.
- 1.4.1.3 The main effect of any dust emissions if not mitigated could be annoyance due to coating of surfaces, curtains, windows and furniture. However, as a normal consequence of the implementation of proper control and good practice methods, i.e. the methods described in this plan, to ensure that dust deposition does not give rise to significant adverse effects, both short-term events may occur e.g. due to technical failure or exceptional weather conditions.

1.5 Sensitive receptors where impacts could occur

- 1.5.1.1 The location of sensitive receptors where impacts could occur are identified in Volume 1 Chapter 11: An Assessment of the Environment, statement and include all receptors within 500m of the construction activities.

1.6 Routine construction phase mitigation measures

1.6.1 Overview

- 1.6.1.1 The mitigation measures outlined in this document are based on the generally recommended measures for the site of the medium duration as detailed in the Institute of Environmental Management (IEM) guidance on the assessment of dust from demolition and construction (IEM 2020).
- 1.6.1.2 Site-specific mitigation measures are divided into the following general measures: measures to control dust measures specific to earthworks construction and the movement of dust and dirt from a construction site onto the public road network (referred to as trackout).

1.6.2 Preparing and maintaining the site

- 1.6.2.1 The following site preparation and maintenance measures shall be ordered to throughout the construction phase:
- An site map out of the project area on site to that machine and dust control activities are located away from receptors for as long as possible
 - Wind screens or barriers should be erected around dust activities and fully enclosed where there is a high potential for the production of dust
 - Use of site fencing, barriers and cordoning can also be used to set method

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- Remove material that could be potential to produce dust from site as soon as possible unless it is required on site. If it is required on site cover it or decrusted as soon as possible
- If there is material to be stored for over 6 months it should be covered to minimise erosion or exposed to re-vegetate naturally
- Cover seed or fence exposed to prevent wind erosion where practicable. Seeding of topsoil and subsoil should site runoff of water or mud.

1.6.3 Site Management

1.6.3.1 The following site management measures shall be ordered to throughout the construction phase:

- Record dust and air quality compliance data cause the appropriate measures to reduce emissions in time manner and record the measure taken
- Record noise level incident that cause dust and/or emissions either on or offsite and the action taken to resolve the situation in the short term
- Make the compliance to CC/C and DCC when needed.
- Hold regular liaison meetings with other nearby construction site to inform of the site boundary to ensure that are coordinated and dust and particulate matter emissions are minimised. This should include understanding the interaction of the offsite transport of dust and particulate matter the same traffic road network route.

1.6.4 Communications

1.6.4.1 The following communication measures shall be ordered to throughout the construction phase:

- Display the project notice number on the site boundary
- Display the public liaison Officer contact information on the site boundary
- Display the lead or liaison office contact information.
- Communication of the local authority order should be undertaken prior to and during construction prior to commencement outlined in the Outline Communication Plan Document reference J26.2 and contact details should be displayed on the site boundary for reporting air quality and dust issues.

1.6.5 Monitoring

1.6.5.1 The following monitoring measures should be ordered to throughout the construction phase:

- Undertake dust on site and offsite inspection where receptors including roads are near to monitor dust record inspection results and make the data available to the local authority when needed. This should include regular dust count check of surface dust on street furniture cars and roads and other items in the boundary to clean to be avoided if necessary

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- Carry out regular site inspections to monitor compliance of the Dust Management plan record inspection results and make an inspection report available to CC&C and DCC when needed
- Increase the frequency of site inspections of the person accountable for air quality and dust issues on site when activities of a high potential to produce dust are being carried out and during prolonged dry or windy conditions
- Free dust deposition dust fall or real time PM₁₀ continuous monitoring location of CC&C and DCC.

1.6.6 Operations (Construction Phase)

- 1.6.6.1 The following operation measures shall be ordered to throughout the construction phase:
- On site cutting, grinding or other equipment fitted or in conjunction of suitable dust suppression techniques such as water sprays or dust extraction e.g. suitable dust extraction system
 - Use enclosed chute and conveyor and covered roads
 - Minimise drop height from conveyor, loading points, booms and other loading or unloading equipment and use fine water sprays on such equipment wherever appropriate
 - Ensure an adequate water supply on site for effective dust suppression matter suppression mitigation using non-potable water where possible and appropriate
 - Ensure equipment is regularly cleaned on site to clean and drop residue and clean up residue as soon as reasonably practicable after the event using wet cleaning method
 - Ensure that enclosed chute and conveyor and covered roads are used during the construction phase.

1.6.7 Waste management

- 1.6.7.1 The following waste management measures shall be ordered to throughout the construction phase:
- No burning or burning of waste materials

1.6.8 Operating vehicle/machinery and sustainable travel

- 1.6.8.1 The following measures shall be adopted in regard to operating machinery and travel:
- Ensure vehicles are switched off engine when stationary and idling reduced
 - Avoid the use of diesel or petrol powered generators and use mains electricity or other powered equipment where practicable
 - Ensure the vehicle fleet for construction activities are of low emission category where possible
 - Reduce construction traffic to minimise the carbon footprint of food and materials

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- Mobile and transport maximum speed limit of 30 mph on surfaced and 10 mph on unsurfaced roads and wherever possible on public routes are required to be reduced to the minimum in the future. Additional control measures provided in accordance with the Construction Method Statement.
- Management to ensure that support and encourage public to use the road.

1.6.9 Measures specific to construction

- 1.6.9.1 Measure that will be implemented that are specific to construction are the following:
- Road closure of concrete surface of road.
 - Ensure sand and other materials are stored in bunded areas and are not allowed to drift out onto the road. Required for a particular process to ensure that appropriate additional control measures are in place.
 - Ensure dust cement and other fine powder materials are delivered in enclosed tankers and stored in a way that minimises dust emission control system to prevent escape of material and overfilling during delivery. For material storage of fine powder materials ensure that they are sealed after use and stored appropriately to prevent dust.

1.6.10 Measures specific to trackout

- 1.6.10.1 Measure that will be implemented that are specific to trackout are the following:
- The intermitted dust suppression on the access and roads to remove any necessary material tracked out of the site. This may require the use of continuous use.
 - Road drainage of the road.
 - Ensure vehicle entering and leaving the site are covered to prevent escape of material during transport.
 - Inspect on site public routes for integrity and initiate necessary repairs to the surface as soon as possible to prevent further damage.
 - Record inspection of public routes and any subsequent action in the log book.
 - Public routes to be re-surfaced down to the first or more of the system or more of the system and re-surfaced.
 - Management to ensure that the system is run to the maximum to minimise accumulated dust and mud prior to leaving the site where necessary to prevent further damage.
 - Ensure there is an adequate level of road surfaced road between the site and the first or more of the system and the site entrance.
 - Access to be located at least 100m from residential properties and other sensitive areas.

1.7 Decommissioning phase mitigation

- 1.7.1 Prior to the commencement of the decommissioning phase decommissioning will be committed to CC&C and DCC and other necessary measures.

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1.1.2 The most appropriate measure that should be undertaken to mitigate air quality and dust issues are the same as during the construction phase.

1.8 Additional mitigation/control measures

1.1.1 Trigger levels have been defined to reduce nuisance dust effects at the nearest receptor during normal conditions.

1.1.2 The trigger levels identified for the site include any of the following occurring alone or in combination:

- Any dusts are or are forecast to become moderate or severe discomfort class – described as conditions under which dust and noise levels are regarded as nuisance even to most on duty when there has been no rain for the last three days or more
- Routine detection of dust on site where identified evidence of dust off site
- Dust complaint received
- Failure in equipment or control identified or an abnormal/unintentional situation occurs. i.e. failure.

1.1.1 The additional controls to be employed if trigger levels exceeded are set out below:

- Increase frequency of use of the road sweeper on site and on local roads
- Temporary cessation of the activities responsible for causing the dust impact until the trigger level no longer exceeded
- Use of additional dust suppression measures such as dampening of specific surfaces
- Relocation of activities so that the distance between the source of emission and the receptor is increased.

1.1.1 The additional control measures listed in paragraph 1.1.1 shall be implemented either alone or in combination as necessary to effectively control dust emissions as evidenced by the visual and monitoring checks described in the section 1.1.

1.1.1 The site manager shall be responsible for implementing these risk management measures in accordance with the procedure.

1.9 Procedures to check the dust controls/mitigation are effective

1.9.1 Monitoring

1.1.1 The results of the inspection shall be recorded in a file on site. The prevailing weather conditions and the activities undertaken at the time of the inspection shall also be recorded in the file on site.

1.1.2 If any of the trigger levels in section 1.1 are exceeded and additional measures are employed the frequency of the visual and sound inspection shall increase to twice a day until such time as no dust is visible or the construction work is reduced. If after two days the results of such monitoring indicate that the additional control measures are not effective the site manager shall instruct appropriate operatives that the operation should cease until the issue can be resolved.

1.1.1 An emergency dust inspection sheet shall be provided in Table 1.1.

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Table 1.1: Daily dust inspection sheet

Dust Inspections sheet			Date		
Time of test					
Location of test e.g. Street name etc					
Weather condition drizzle, rain, fog, snow etc					
Temperature Per °C or °F cold or degree of frost					
Wind direction none, light, moderate, strong from which direction e.g. from north					
Duration of test					
Continuous or intermittent in time period or persistence					
Receptor identified e.g. house, school, etc					
Other source identified					
Notes Other comment or observation					

1.9.2 Monitoring dust complaints

- 1.9.2.1 Complaints received during the construction process should be recorded in accordance with the principles in section 1.9.1. Complaints are an important indicator of community dissatisfaction and provide a useful form of monitoring. It is important to bear in mind that complaints are only a symptom of annoyance or nuisance; there are many reasons why complaints are not an exact indicator of dust annoyance or nuisance. It is therefore essential to collect, monitor and manage complaints of

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comment record is an important method of indicating the effectiveness or otherwise of measures implemented to reduce nuisance due to dust.

1.10.2.2 The site manager shall implement a system of comment monitoring and comment comment collected, recorded and updated as described in Section 1.10 of the Dust Management Plan. The record of comment received at the end of each calendar quarter shall be reviewed to identify:

- Trend in terms of the subject/coupe or origin of comment
- Object experienced at one location that could spread to other locations

1.10.3 In an action deemed necessary because of the comment problem identified and discussed in order to programme a course of corrective action.

1.10 Complaints action procedure

1.10.1 Receipt of a complaint

1.10.1.1 If an comment is made by a member of the public about an matter associated with the construction work create the manager responsible person shall give notice in writing to CCOC or DCC no later than the next working day after the comment is received. This written notification shall normally be in the form of an email. The notification shall include a description of the comment, the name and address of the person making the comment if possible and the action proposed as a result. Depending on the nature of the comment it may not be possible to resolve the matter within the short time scale. In such cases an indication shall be given that further investigation are necessary.

1.10.1.2 Once a comment has been received the comment details shall be recorded.

1.10.2 Complaint registration

1.10.2.1 A record of all comment received shall be maintained. In the event that a comment is received there is potential dust nuisance from the construction site:

- The comment shall be fed into a registration system
- Comment data should be recorded in a systematic open access computer system standard dust descriptor, time and direction and site or activity.

1.10.2.2 A standardised form shall be used for recording this information and entered into the registration system as per in Table 1.2.

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Table 1.2: Form for the recording of dust-related complaint

Dust Complaint Report Form		Sheet 1 of 1	
Date:		Time:	
Name and address of complainant:			
Telephone of complainant:			
Time and date of complaint:			
Date, time and duration of offending dust:			
Location of dust if not at above address:			
Weather conditions i.e. direction of wind:			
Wind strength and whether dust was blowing from roof or under eaves:			
Wind direction:			
Complainant's description of dust i.e. colour, texture etc.			
Any other comment on other comment about the dust			
Are there any other comments relating to the situation or to that location either previously or relating to the same episode?			
Any other relevant information:			
On the date and time the dust occurred:			
Other than condition at time nuisance dust occurred identified.			
Action taken:			
Form completed by		Signed	

1.10.3 Responding to a complaint

- 1.10.3.1 For any telephone message and complaint submitted by email or by letter on acknowledgement and information will be given by telephone or by email within 24 hours provided that telephone or email contact details have been given on the complaint. The site manager will respond as rapidly as possible to the complaint to maximise the opportunity for identifying the source of the nuisance dust. Where possible the site manager or an appropriate representative of the site manager will inspect the nuisance dust location referred to in the complaint.
- 1.10.3.2 Where complaints cannot be resolved on first contact and further investigation are required, written response will be made within 5 working days of submission of the complaint. The complaint will be followed up by the case and copy on a timeline to the response.
- 1.10.3.3 The primary reasons for further investigation of complaints are to assess potential nuisance and identify the measure and source of the dust so that nuisance can be reduced or stopped. In the case of further investigation, the site manager will communicate to the complainant the course of action likely to be taken. In summary the response will include:
- The reason for the nuisance dust event
 - The measured duration of the nuisance dust event
 - What can be done to end the nuisance dust event
 - What preventative steps will be implemented to prevent recurrence
 - What reference procedure the affected party can take.

1.10.4 Investigation of dust complaints

- 1.10.4.1 The site manager will investigate the complaint and provide a response. The response will be by letter or email or if preferred by telephone call.
- 1.10.4.2 The investigation aims to capture evidence to establish whether the nuisance dust identified is attributable to the construction activities. If the source of the nuisance dust is deemed to be the construction activities, the information recorded will be used to identify if there has been a failure in the existing mitigation controls or the need for a new mitigation control measure. If a new mitigation control measure is required, the site manager will update the Dust Management Plan.

1.11 References

HM 2020 guidance on the assessment of dust from demolition and construction. Available at: <http://hmm.co.uk/guidance> accessed: October 2020.