

# Wylfa Newydd Project

## 8.29 Phasing Strategy

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## Executive Summary

The Wylfa Newydd DCO Project comprises construction works across multiple sites. This includes the Associated Developments which are required to facilitate the construction programme and mitigate the likely effects arising during construction.

This Phasing Strategy relates entirely to the delivery of key environmental mitigation measures identified in the ES. This strategy sets out the agreed triggers by which key mitigation will be delivered. The Phasing Strategy contains Horizon's commitment to relevant pre-delivery restrictions prior to the delivery of certain key mitigation. These commitments are made to minimise environmental and socio-economic effects until the key mitigation is delivered and to provide assurances as to the timely delivery of such key mitigation.

This Phasing Strategy is secured through Requirement PW2 in the Wylfa Newydd (Nuclear Generating Station) Order ("Order"), which requires the delivery of the mitigation to be in accordance with the Phasing Strategy, unless otherwise approved by IACC. The Requirement also states that Horizon should give advance notice to IACC when construction of the mitigation has commenced and when it has been delivered.

Table 2-1 sets out the triggers and the pre-delivery restrictions for the key mitigation.

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## 1 Introduction

### 1.1 Purpose

1.1.1 The Wylfa Newydd DCO Project includes a number of key mitigation measures to minimise the likely significant effects that may arise from the construction phase of the Wylfa Newydd DCO Project. These key mitigation measures are incorporated into the Order as "authorised development" and as such are embedded mitigation.

1.1.2 This Phasing Strategy relates entirely to the delivery of key environmental mitigation measures identified in the ES. This strategy sets the agreed triggers by which key mitigation will be delivered. Compliance with this Phasing Strategy is secured through Requirement PW2 in the Order. The Requirement also states that Horizon should inform IACC when the mitigation has commenced and when it has been delivered.

1.1.3 The key mitigation measures are as follows:

- Ecological Compensation Sites;
- the Logistics Centre at Parc Cybi;
- the A5025 Off-line Highways Improvements;
- the Park and Ride at Dalar Hir;
- the Marine Off-Loading Facility (MOLF);
- Landscape Mounds within the WNDA; and
- the Site Campus (including the Site Campus Medical Centre) at the Wylfa Newydd Development Area ('WNDA').

1.1.4 These key mitigation measures have been identified in the Integrated Traffic and Transport Strategy [APP-107], Workforce Accommodation Strategy [APP-412], the Environmental Statement and the other assessments, as key mitigation to manage the effects (i.e. traffic and socio-economic) related to the Wylfa Newydd DCO Project.

1.1.5 A description of the Site Campus, Landscape Mounds, MOLF and Ecological Compensation Sites is set out in Volume D Chapter 1 of the Environment Statement [APP-120] and the Construction Method Statement ("CMS") [APP-136]. A description of the Logistics Centre is set out in chapter H1 of the Environment Statement [APP-355]; the A5025 Off-line Highway Improvements is set out in chapter G1 of the Environment Statement [APP-304]; and the Park and Ride is set out in chapter F1 of the Environment Statement [APP-266].

1.1.6 This Phasing Strategy does not set out the sequence of construction works for the Wylfa Newydd DCO Project. The CMS [REP8-042] describes in greater detail the strategic construction programme, indicative detailed construction phases, activities and techniques that could be undertaken for construction of the Wylfa Newydd Development Area Development. This Phasing Strategy should be read alongside the CMS. The indicative construction timeline for the Wylfa Newydd DCO Project is set out in chapter A2 of the Environmental Statement [APP-056].

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## **2 Wylfa Newydd DCO Project - Indicative Construction Timeline and Trigger Definitions**

### **2.1 Indicative Construction Timeline and Key Mitigation Delivery**

2.1.1 Figure 2-1 below sets out the indicative construction timeline and illustrates the expected construction and delivery of the key mitigation in accordance with Table 2-1. The exact triggers for delivery of the key mitigation are set out in Table 2-1. Figure 2-2 shows the indicative construction worker profile across the construction period of the Wylfa Newydd DCO Project.

2.1.2 The indicative construction timeline is taken from the Construction Method Statement and illustrates the key Wylfa Newydd DCO Project milestones, including First Nuclear Concrete (FNC) and Commercial Operation Date (COD), and the indicative construction timeline for the Wylfa Newydd DCO Project. It represents in broad outline the indicative construction timescale. It is provided in this Phasing Strategy for information and to give an indication of how the delivery of key mitigation would fit within the indicative construction timeline for the Wylfa Newydd DCO Project.

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## Figure 2-1 Key Mitigation Delivery- Illustrative

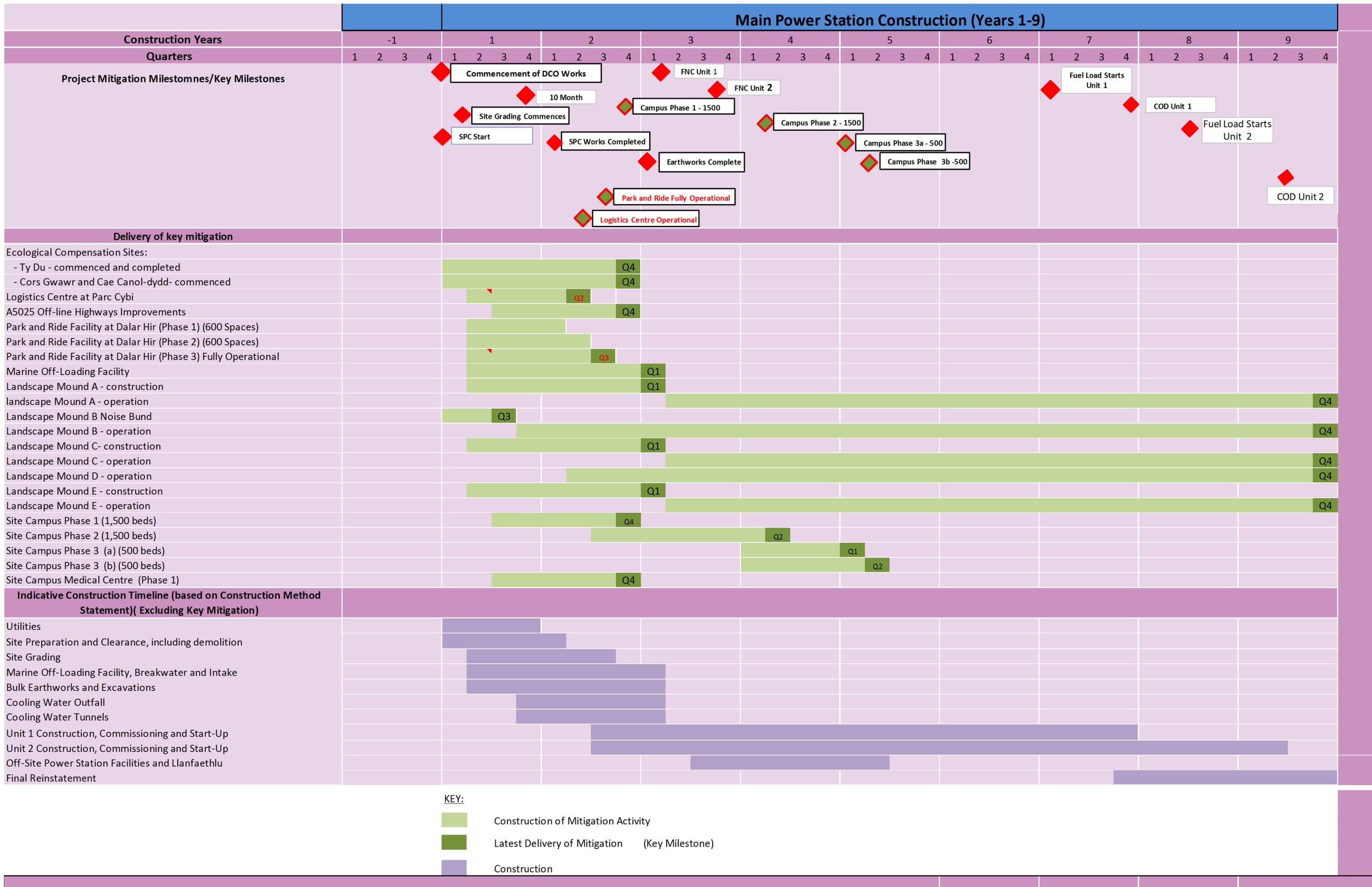
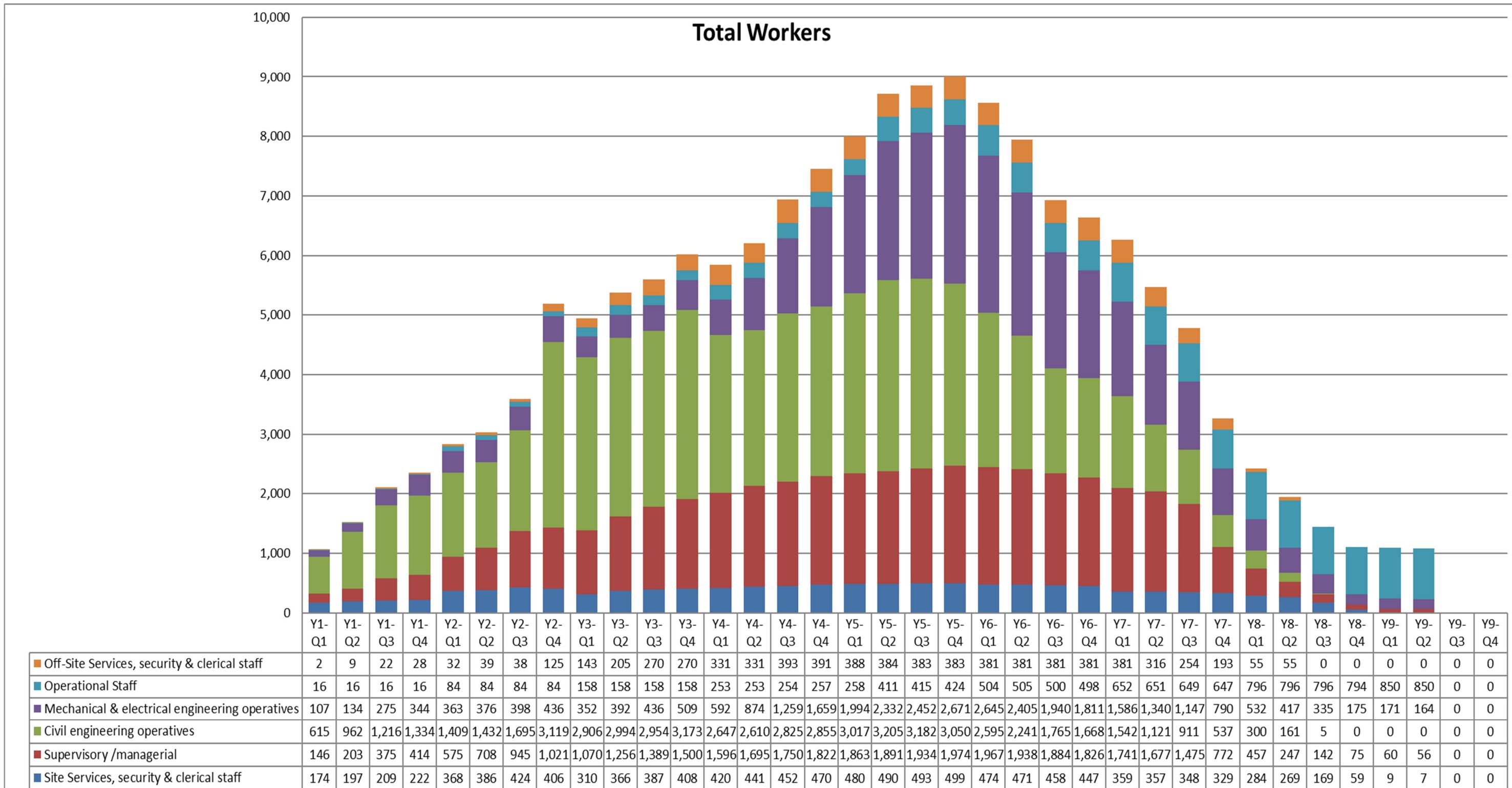


Figure 2-2 Indicative Construction Workforce Profile



## 2.2 Key Triggers and Pre-Delivery Restrictions

2.2.1 Table 2-1 sets out the trigger for each key mitigation measure. Where appropriate this Phasing Strategy contains Horizon's commitment to relevant pre-delivery restrictions prior to the delivery of certain key mitigation. These commitments are made to minimise environmental and socio-economic effects until the key mitigation is delivered and to provide assurances as to the timely delivery of such key mitigation. Reasons for each mitigation can be found in the Mitigation Route Map (submitted at Deadline 9 (10 April 2019)).

2.2.2 The Logistics Centre or the Park and Ride Facility may be delivered earlier than the timing set out in Table 2-1 below. However, early delivery will require timely submissions of all discharge applications by the undertaker and IACC's agreement to an accelerated submission and determination process of such applications under Schedule 19 of the Order. Pro-active engagement between the parties prior to submission will be required to facilitate this.

**Table 2-1 Key Mitigation Triggers**

| Key mitigation                | Timing for Delivery (Triggers)  | Pre-delivery Restriction  |
|-------------------------------|---|---|
| Ecological Compensation Sites | Cors Gwawr and Cae Canol-dydd to be commenced during the first two years following DCO commencement. Ty Du will be commenced and completed within the first two years following DCO commencement. | As secured by Requirement ECS4 of the Order, Horizon will need to complete hydrological and hydrogeological monitoring and need to provide details of the design before works can begin on Cae Canol-dydd or Cors Gwawr.  |
| Logistics Centre at Parc Cybi | To be delivered by Year 2 Quarter 2.  | Prior to the A5025 Off-line Highway Improvements opening to traffic, Horizon commits to limit the number of HGV movements by road on A5025 at Valley so as not to exceed <ul style="list-style-type: none"> <li>22 HGV deliveries (44 movements) per hour between the hours of 07:00 and 19:00 Mondays to Fridays;</li> <li>20 HGV deliveries (40 movements) between 19:00 and 23:00 Mondays to Fridays; and</li> <li>50 HGV deliveries (100 movements) between 08:00 and 13:00 Saturdays.</li> </ul> |

| Key mitigation                      | Timing for Delivery (Triggers)   | Pre-delivery Restriction  |
|-------------------------------------|--|---|
| A5025 Off-line Highway Improvements | To be delivered prior to the first nuclear concrete date for Unit 1.   | <p>Prior to the A5025 Off-line Highway Improvements opening to traffic, Horizon commits to limit the number of HGV movements by road on the A5025 at Valley so as not to exceed:</p> <ul style="list-style-type: none"> <li>• 22 HGV deliveries (44 movements) per hour between the hours of 07:00 and 19:00 Mondays to Fridays;</li> <li>• 20 HGV deliveries (40 movements) between 19:00 and 23:00 Mondays to Fridays;</li> <li>• 50 HGV deliveries (100 movements) between 08:00 and 13:00 Saturdays;</li> <li>• 113 HGV deliveries (226 movements) per day; and</li> <li>• 2,500 HGV deliveries (5,000 movements) per month.</li> </ul> |
| Park and Ride Facility at Dalar Hir | <p>The Park and Ride facility to be delivered in three phases:</p> <ul style="list-style-type: none"> <li>• Phase 1 (600 parking spaces);</li> <li>• Phase 2 (600 parking spaces); and</li> <li>• Phase 3 (700 parking spaces).</li> </ul> <p>Delivery of all three phases of the Park and Ride prior to exceedance of 3,000 workers travelling to the WNDA.</p> | <p>Prior to the opening of any phase of the Park and Ride facility at Dalar Hir, the percentage of construction workers travelling daily by car to the WNDA is not to exceed the mode share target for car travel specified in Table 5.2 of the WN CoCP.</p>  |
| Marine Off-Loading Facility         | To be delivered prior to the first nuclear concrete date for Unit 1.   | <p>Prior to the A5025 Off-line Highway Improvements opening to traffic, Horizon commits to limit the number of HGV movements by road on the A5025 at Valley so as not to exceed:</p> <ul style="list-style-type: none"> <li>• 22 HGV deliveries (44 movements) per hour between the hours of 07:00</li> </ul>   |

| Key mitigation               | Timing for Delivery (Triggers)  | Pre-delivery Restriction  |
|------------------------------|---|---|
|                              |   | <p>and 19:00 Mondays to Fridays;</p> <ul style="list-style-type: none"> <li>• 20 HGV deliveries (40 movements) between 19:00 and 23:00 Mondays to Fridays;</li> <li>• 50 HGV deliveries (100 movements) between 08:00 and 13:00 Saturdays;</li> <li>• 113 HGV deliveries (226 movements) per day; and</li> <li>• 2,500 HGV deliveries (5,000 movements) per month.</li> </ul> |
| Landscape Mounds A           | Construction Mound – To be delivered prior to the first nuclear concrete date for Unit 1 <sup>1</sup> . | N/A   |
|                              | Operation Mound - To be delivered at the end of final reinstatement.                                    |   |
| Landscape Mound B Noise Bund | Construction Mound - To be delivered on or before 10 months from the date of construction commencing.   | If the noise bund is not delivered on time Horizon will not be able to exceed the noise levels committed to in the CoCP i.e. Horizon cannot exceed 62dB <sub>L<sub>Aeq,1-hour</sub></sub> for more than eight weeks in a year at each relevant receptor.  |
|                              | Operation Mound - To be delivered at the end of final reinstatement.                                    |   |
| Landscape Mounds C           | Construction Mound - To be delivered prior to the first nuclear concrete date for Unit 1 <sup>2</sup> . | N/A   |
|                              | Operation Mound - To be delivered at the end of final reinstatement.                                    |   |

<sup>1</sup> Please note Landscape mounds will continue to change through construction as material is added and taken away as required.

<sup>2</sup> Please note Landscape mounds will continue to change through construction as material is added and taken away as required.

| Key mitigation             | Timing for Delivery (Triggers)   | Pre-delivery Restriction                                |
|----------------------------|--|---|
| Landscape Mounds D         | Operation Mound- To be delivered at the end of final reinstatement.  | N/A   |
| Landscape Mounds E         | Construction Mound - To be delivered prior to the first nuclear concrete date for Unit 1 <sup>3</sup> .<br><br>Operation Mound- To be delivered at the end of final reinstatement.   | N/A   |
| Site Campus                | Horizon must deliver the Site Campus in the following three phases: <ul style="list-style-type: none"> <li>• Deliver the first 1,500 beds of Site Campus prior to exceedance of 2,200 Non-Home Based workers. This phase would include the delivery of the central amenity block.</li> <li>• Deliver further 1,500 beds prior to exceedance of 4,200 Non-Home Based workers and</li> <li>• Deliver a further 500 beds prior to exceedance of 6,000 Non-Home Based workers. Then deliver a final 500 beds prior to exceedance of 6,700 Non- Home Based workers</li> </ul> | <ul style="list-style-type: none"> <li>• N/A</li> </ul> |
| Site Campus Medical Centre | Phase 1 of the Site Campus ( i.e. deliver the first 1,500 beds of Site Campus prior to exceedance of 2,200 Non-  | N/A   |

<sup>3</sup> Please note Landscape mounds will continue to change through construction as material is added and taken away as required.

| Key mitigation | Timing for Delivery (Triggers)  | Pre-delivery Restriction |
|----------------|---|--------------------------|
|                | Home Based workers) to include a Medical Centre at the Site Campus appropriate to the number of patients on site. |                          |

## 2.3 Definitions of Triggers

2.3.1 The definitions of the triggers give clarity about when these elements of mitigation will be delivered during the construction programme. Horizon is will deliver this mitigation to reduce any significant effects and ensuring appropriate time frames and triggers, in relation to the indicative Construction Timeline, exist to ensure that this Phasing Strategy is enforced. **Table 2.2** highlights these definitions:

**Table 2-2 Definition of Triggers**

| Trigger for Mitigation Delivery                                      | Definition of Trigger   |
|--|---|
| To be delivered prior to the first nuclear concrete date for Unit 1. | The date of the first pour of the structural reinforced concrete for buildings or structures with nuclear safety significance, which also represents commencement of first practicably irreversible nuclear construction; |
| To be delivered at the end of final reinstatement.                   | This means at the end of final reinstatement (as shown on Figure 2.1 of the Construction Method Statement)  |
| To be delivered on or before 10 months of construction.              | This means the delivery of the mitigation on or before the 10 <sup>th</sup> month of construction after DCO commencement (excluding Work No.12).  |

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