

Tidal Lagoon Swansea Bay

CONSTRUCTION PHASING SCHEME

SUPPORTING DOCUMENT

DCO Requirement 3

April 2020

Table of Contents

1	Introduction	1
1.1	The Swansea Bay tidal lagoon.....	1
1.2	DCO Requirement 3 – Construction Phasing Scheme.....	1
	Purpose of amendment to the approved.....	1
1.3	Construction Phasing Scheme	1
2	Amended Construction Phasing Scheme.....	3
2.1	Initial review	3
2.2	Amendments to the Construction Phasing Scheme.....	3

1 Introduction

1.1 The Swansea Bay tidal lagoon

- 1.1.1 The Swansea Bay tidal lagoon (SBTL) will be the world's first purpose built tidal energy lagoon. The generating station will have an installed capacity of 320 megawatts (MW) and will enclose part of Swansea Bay, from the eastern side of the River Tawe to the eastern edge of the new Swansea University Bay-Campus. In total the seawall will form an approximately 9.5km-long, U-shape which will encompass approximately 11.5km² of the seabed, foreshore and intertidal area of Swansea Bay.
- 1.1.2 A development consent order for the project was granted by the Secretary of State (SoS) on 9 June 2015. The Swansea Bay Tidal Generating Station Order 2015 came into force on 30 June 2015.
- 1.1.3 This supporting document accompanies the following submissions to satisfy DCO Requirement 3 (Construction Phasing Scheme):
- Construction Phasing Scheme (Construction Phasing Scheme_4.0_April_TLSB_DCO3)
 - Construction Phasing Scheme - Annex 1 - Phased Approvals Matrix (version 2.0)

1.2 DCO Requirement 3 – Construction Phasing Scheme

3.—(1) The authorised development must not commence until a construction phasing scheme for the authorised development has been submitted to and approved in writing by the relevant planning authorities. The phasing scheme must set out the sequence of construction of the authorised development and under which requirements approvals are to be sought in whole or in part depending on the contents of the construction phasing scheme.

(2) Where a construction phasing scheme has been submitted to and approved by the relevant planning authorities, the details to be submitted to the relevant planning authorities to discharge any requirement may relate to a particular construction phase only, in order that the construction or operation of that phase may commence in accordance with the approved details for that phase alone. Where details have not been submitted in relation to any particular construction phase, then construction of that phase must not commence until the relevant part of any requirement has been discharged in relation to that phase. Construction must then be carried out in accordance with any relevant approval.

1.3 Purpose of amendment to the approved Construction Phasing Scheme

- 1.3.1 An application to discharge requirements 3 of the DCO was previously submitted and approved (Application Reference 2017/0801/DCO) by the City and County of Swansea Council (CCSC) and Neath Port Talbot Council (NPTC). During this application process, a number of iterations of the proposed Construction Phasing Scheme were prepared

which were subject to consultation with CCSC, NPTC and National Resources Wales (NRW). The Construction Phasing Scheme (reference Construction Phasing Scheme_2.0_May17_TLSB_DCO3, dated 19 May 2017) was approved in 2017.

- 1.3.2 The last few years has seen significant changes to key aspects of the project. It was previously considered that mobilisation of construction in the first phase would occur in parallel on land and in the marine area (below mean low water) in order to streamline the construction programme. It is more complex to commence the authorised development below mean low water, therefore attention is now focused on mobilising landward construction only in the first phase of the authorised development. It is proposed to undertake Phase 1 mobilisation of the authorised development through commencement of Work 7a and development (on land) in connection with Work 7a (in accordance with Schedule 1 Part 1A of the DCO).
- 1.3.3 Work 7a was previously planned for later in the construction programme. Therefore, a review of the Phasing Scheme, which included a sequence of work, was required in order to facilitate the revised approach to mobilisation in the first phase to commence the authorised development.
- 1.3.4 In addition, the Construction Phasing Matrix which formed part of the approved Construction Phasing Scheme intended to support a phased approach to approvals, in accordance with Requirement 3(2). Therefore, a review of the matrix was also required in light of the revised approach to the first phase of the authorised development, to support a phased approach to obtaining the approvals required prior to commencement of Work 7a and development (on land) in connection with with Work 7a (in accordance with Schedule 1 Part 1A of the DCO). As such, in order to facilitate a phased approach to discharging the requirements of the DCO with the relevant authorities to facilitate the construction of the Swansea Bay Tidal Lagoon, a revised Construction Phasing Scheme is submitted for approval in accordance with Requirement 38 (amendments to approved details).

2 Amended Construction Phasing Scheme

2.1 Initial review

- 2.1.1 The initial brief was to amend the approved phasing scheme as little as possible because the reason for change was uncomplicated. However, upon review of the approved document and associated matrices that were appended to the phasing scheme, it was apparent that there were a number of issues that needed to be resolved for the document to be effective in supporting a phased approach to authorised development.
- 2.1.2 The review found that the approved document was difficult to navigate and was repetitive. There insufficient focus on 'phasing', and perhaps more importantly, errors were found (including in relation to description of Works with reference to Schedule 1, Part 1A).
- 2.1.3 Therefore, the submitted amended Construction Phasing Scheme and associated Phased Approvals Matrix are the result of a comprehensive review of the approved Construction Phasing Scheme. As a result, the amendment is a streamlined document with greater focus on phasing and the phasing of pre-commencement approvals. It should be much easier to navigate to support decision-making and implementation relating to the DCO.

2.2 Amendments to the Construction Phasing Scheme

- 2.2.1 The following amendments to the Construction Phasing Scheme are included in the submitted Construction Phasing Scheme_4.0_April_TLSB_DCO3:
- **Corrected references to Works**, as set out in Appendix 2 (with Tables 2.1 and 2.3 setting out the Works, and tables 2.2 and 2.4 setting out the authorised categories of development in connection with the respective Works). This has involved removal of what was described as 'Works' 8a, 8b, 8c, 8d, 8e, 8f, 8g, 8h, 8i, 10d, 10e, 10f, 10g, 10h, also 'viewing areas' and 'art siting' (see tables 2.2. and 2.4); these are now addressed as part of the relevant Work as they were not Works, therefore their status has been corrected. Their description has been clarified in the updated Construction Phasing Scheme. The approvals that were highlighted for these development descriptions have been added to the relevant Work, e.g. Work 1a, 1b, 2a.
 - **More emphasis on the construction phases**, in line with Environmental Statement(6.2.4 ES Project Description), making it clear which Works (including development in connection with) come forward in each phase.
 - **A new first phase** of construction to be focused on terrestrial only commencement of the authorised development, Work 7a and development in connection with Work 7a.
 - **Updated Construction sequence.**
 - **Updated Requirements matrix**, indicating the phasing of approvals of pre-commencement Requirements relating to each phase and Work.

- Updated matrix for phased Construction Environmental Management Plan (CEMP) and Adaptive Environmental Management Plan (AEMP) , now indicating only pre-commencement approvals of surveys and survey methodologies.
- Removal of 'useful documents' and 'tools' as surplus to requirement to the revised simplified Construction Phasing Scheme.