

Net Zero Teesside Project

Planning Inspectorate Reference: EN010103

Land at and in the vicinity of the former Redcar Steel Works site, Redcar and in Stockton-on-Tees, Teesside

The Net Zero Teesside Order

Document Reference: 6.5 – ES Navigation Guide

Planning Act 2008



Applicants: Net Zero Teesside Power Limited (NZN Power Ltd) & Net Zero North Sea Storage Limited (NZNS Storage Ltd)

Date: November 2022

DOCUMENT HISTORY

Document Ref	6.5		
Revision	1.0		
Author	Matthew Coe (MC)		
Signed	MC	Date	01/11/2022
Approved By	Ian Campbell (IC)		
Signed	IC	Date	01/11/2022
Document Owner	AECOM		

GLOSSARY

Abbreviation	Description
BEIS	The Department for Business, Energy and Industrial Strategy
CCGT	Combined Cycle Gas Turbine
CCUS	Carbon Capture, Utilisation and Storage
CO ₂	Carbon dioxide
DCO	Development Consent Order
ES	Environmental Statement
ExA	Examining Authority
FEED	Front End Engineering Design
km	Kilometres
NZT	The Net Zero Teesside Project
NZT Power	Net Zero Teesside Power Limited
NZNS Storage	Net Zero North Sea Storage Limited
PA 2008	Planning Act 2008
PCC	Power Capture and Compressor Site
PINS	Planning Inspectorate
SoS	Secretary of State
STDC	South Tees Development Corporation

CONTENTS

1.0	Introduction	2
2.0	ES Navigation Guide.....	4

1.0 INTRODUCTION

1.1 Overview

1.1.1 This document is a response to Action 7 from Issue Specific Hearing 6 (ISH6) [EV11-005] has been prepared on behalf of Net Zero Teesside Power Limited and Net Zero North Sea Storage Limited (the 'Applicants'). It relates to the application (the 'Application') for a Development Consent Order (a 'DCO'), that has been submitted to the Secretary of State (the 'SoS') for Business, Energy and Industrial Strategy ('BEIS'), under Section 37 of 'The Planning Act 2008' (the 'PA 2008') for the Net Zero Teesside Project (the 'Proposed Development').

1.1.2 The Application was submitted to the SoS on 19 July 2021 and was accepted for Examination on 16 August 2021. A change request made by the Applicants in respect of the Application was accepted into the Examination by the Examining Authority on 6 May 2022.

1.2 Description of the Proposed Development

1.2.1 The Proposed Development will work by capturing CO₂ from a new the gas-fired power station in addition to a cluster of local industries on Teesside and transporting it via a CO₂ transport pipeline to the Endurance saline aquifer under the North Sea. The Proposed Development will initially capture and transport up to 4Mt of CO₂ per annum, although the CO₂ transport pipeline has the capacity to accommodate up to 10Mt of CO₂ per annum thereby allowing for future expansion.

1.2.2 The Proposed Development comprises the following elements:

- **Work Number ('Work No.') 1** – a Combined Cycle Gas Turbine electricity generating station with an electrical output of up to 860 megawatts and post-combustion carbon capture plant (the '**Low Carbon Electricity Generating Station**');
- **Work No. 2** – a natural gas supply connection and Above Ground Installations ('AGIs') (the '**Gas Connection Corridor**');
- **Work No. 3** – an electricity grid connection (the '**Electrical Connection**');
- **Work No. 4** – water supply connections (the '**Water Supply Connection Corridor**');
- **Work No. 5** – waste water disposal connections (the '**Water Discharge Connection Corridor**');
- **Work No. 6** – a CO₂ gathering network (including connections under the tidal River Tees) to collect and transport the captured CO₂ from industrial emitters (the industrial emitters using the gathering network will be responsible for consenting their own carbon capture plant and connections to the gathering network) (the '**CO₂ Gathering Network Corridor**');
- **Work No. 7** – a high-pressure CO₂ compressor station to receive and compress the captured CO₂ from the Low Carbon Electricity Generating Station and the CO₂

Gathering Network before it is transported offshore (the '**HP Compressor Station**');

- **Work No. 8** – a dense phase CO₂ export pipeline for the onward transport of the captured and compressed CO₂ to the Endurance saline aquifer under the North Sea (the '**CO₂ Export Pipeline**');
- **Work No. 9** – temporary construction and laydown areas, including contractor compounds, construction staff welfare and vehicle parking for use during the construction phase of the Proposed Development (the '**Laydown Areas**'); and
- **Work No. 10** – access and highway improvement works (the '**Access and Highway Works**').

1.2.3 The electricity generating station, its post-combustion carbon capture plant and the CO₂ compressor station will be located on part of the South Tees Development Corporation ('STDC') Teesworks area (on part of the former Redcar Steel Works Site). The CO₂ export pipeline will also start in this location before heading offshore. The generating station connections and the CO₂ gathering network will require corridors of land within the administrative areas of both Redcar and Cleveland and Stockton-on-Tees Borough Councils, including crossings beneath the River Tees.

1.3 The Purpose of this Document

1.3.1 The purpose of this document is to respond to Action 7 of ISH6, which notes:

“Consider producing a final consolidated version of the Environmental Statement (ES), or a navigational guide to the ES together with all addendums.”

1.3.2 Section 2 of this document provides the requested navigational guide set out in tabular format and includes links to all documents listed.

2.0 ES NAVIGATION GUIDE

Table 1: ES Navigation Guide

ES chapter name and ref	Versions of document	When and why updated	Document link
ES Vol I Chapter 1: Introduction	Original ES chapter [APP-083]	N/A (submitted with DCO application)	Link
ES Vol I Chapter 2: Assessment Methodology	Original ES chapter [APP-084]	N/A (submitted with DCO application)	Link
ES Vol I Chapter 3: Description of Existing Environment	Original ES chapter [APP-085]	N/A (submitted with DCO application)	Link
	Environmental Statement Addendum - Volume I [AS-050]	The area of the Order Limits is reduced from 462 ha to 304 ha.	Link
	Second Environmental Statement Addendum - Volume I [REP6-107]	The area of the Order Limits is reduced from 304 ha to 267 ha.	Link
	Third Environmental Statement Addendum – Volume I [REP12-XXX]	The area of the Order Limits is reduced from 267 ha to 246 ha. A minor change to remove a reference to the existing Steelworks outfall located between the former blast furnace and coke works is put in place.	Link TBC
ES Vol I Chapter 4: Proposed Development	Original ES chapter [APP-086]	N/A (submitted with DCO application)	Link
	Environmental Statement Addendum - Volume I [AS-050]	Scheme description updated following the First Change Request, submitted pre-examination, which predominately comprised reductions of the Order Limits.	Link

ES chapter name and ref	Versions of document	When and why updated	Document link
	Second Environmental Statement Addendum - Volume I [REP6-107]	Scheme description updated following the Second Change Request, submitted at Deadline 6, which predominately comprised reductions of the Order Limits and confirmation of the Tees crossing construction method.	Link
	Third Environmental Statement Addendum – Volume I [REP12-XXX]	Scheme description updated following the Third Change Request, submitted at Deadline 11, which identified a change in the Water Discharge Connection Corridor which removed references to the existing wastewater outfall.	Link TBC
ES Vol I Chapter 5: Construction Programme and Management	Original ES chapter [APP-087]	N/A (submitted with DCO application)	Link
	Environmental Statement Addendum - Volume I [AS-050]	Description of construction method updated following First Change Request.	Link
	Second Environmental Statement Addendum - Volume I [REP6-107]	Description of construction method updated following Second Change Request.	Link
	Third Environmental Statement Addendum – Volume I [REP12-XXX]	Description of construction method updated following Third Change Request.	Link TBC
ES Vol I Chapter 6: Alternatives and Design Evolution	Original ES chapter [APP-088]	N/A (submitted with DCO application)	Link
	Environmental Statement Addendum - Volume I [AS-050]	Additional information provided about the design evolution process for the First Change Request.	Link

ES chapter name and ref	Versions of document	When and why updated	Document link
	Second Environmental Statement Addendum - Volume I [REP6-107]	Additional information provided about the design evolution process for the Second Change Request.	Link
	Third Environmental Statement Addendum – Volume I [REP12-XXX]	Additional information provided about the design evolution process for the Third Change Request.	Link TBC
ES Vol I Chapter 7: Legislative and Planning Policy Context	Original ES chapter [APP-089]	N/A (submitted with DCO application)	Link
ES Vol I Chapter 8: Air Quality	Original ES chapter [APP-090]	N/A (submitted with DCO application)	Link
ES Vol I Chapter 9: Surface Water, Flood Risk and Water Resources	Original ES chapter [APP-091]	N/A (submitted with DCO application)	Link
ES Vol I Chapter 10: Geology, Hydrogeology and Contaminated Land	Original ES chapter [APP-092]	N/A (submitted with DCO application)	Link
	Hydrogeological Impact Assessment [REP4-027]	Supplementary document submitted at Deadline 4 to address comments raised by the Environment Agency in their Relevant Representation dated 17 th December 2021 [RR-024].	Link
ES Vol I Chapter 11: Noise and Vibration	Original ES chapter [APP-093]	N/A (submitted with DCO application)	Link
	Environmental Statement Addendum - Volume I [AS-050] Appendix A	The Noise and Vibration assessment was updated to assess the effects of Change 8 (included in First Change Request), which involved commencing the proposed HDD crossing of the River Tees closer to residential properties to the south of the Tees.	Link
ES Vol I Chapter 12:	Original ES chapter [APP-094]	N/A (submitted with DCO application)	Link

ES chapter name and ref	Versions of document	When and why updated	Document link
Terrestrial Ecology and Nature Conservation			
ES Vol I Chapter 13: Aquatic Ecology and Nature Conservation	Original ES chapter [APP-095]	N/A (submitted with DCO application)	Link
ES Vol I Chapter 14: Marine Ecology and Nature Conservation	Original ES chapter [APP-096]	N/A (submitted with DCO application)	Link
ES Vol I Chapter 15: Ornithology	Original ES chapter [APP-097]	N/A (submitted with DCO application)	Link
	Environmental Statement Addendum - Volume I [AS-050] Appendix B.	The Ornithology assessment was updated to assess the effects of Change 8 (included in First Change Request), which involved commencing the proposed HDD crossing of the River Tees near Bran Sands lagoon designated as part of the Teesmouth and Cleveland Coast SPA.	Link
ES Vol I Chapter 16: Traffic and Transportation	Original ES chapter [APP-098]	N/A (submitted with DCO application)	Link
	Sensitivity Test Construction Traffic Modelling – HGVs and Worker Vehicles [REP3-013]	Sensitivity test submitted at Deadline 3 produced in response to ExQ1 TT.1.2 [PD-012].	Link
ES Vol I Chapter 17: Landscape and Visual Amenity	Original ES chapter [APP-099]	N/A (submitted with DCO application)	Link
ES Vol I Chapter 18: Cultural Heritage	Original ES chapter [APP-100]	N/A (submitted with DCO application)	Link
	Response to Examining Authority’s Written Question HE.2.6 [REP7-010]	Further assessment of listed buildings at Marsh Farm provided at Deadline 7 in response to ExQ2 HE.2.6 [REP6-121].	Link
ES Vol I Chapter 19: Marine Heritage	Original ES chapter [APP-101]	N/A (submitted with DCO application)	Link
ES Vol I Chapter 20: Socio-Economics and Tourism	Original ES chapter [APP-102]	N/A (submitted with DCO application)	Link
ES Vol I Chapter 21:	Original ES chapter [APP-103]	N/A (submitted with DCO application)	Link

ES chapter name and ref	Versions of document	When and why updated	Document link
Climate Change	Cumulative GHG Onshore and Offshore Assessment [REP6-123]	Cumulative GHG assessment resubmitted at Deadline 6 in response to ExQ1 CC.1.5 [PD-012].	Link
ES Vol I Chapter 22: Major Accidents and Disasters	Original ES chapter [APP-104]	N/A (submitted with DCO application)	Link
	Environmental Statement Addendum - Volume I [AS-050]	Major Accidents and Disasters assessment updated to assess risks during construction, operation and decommissioning of the CO ₂ Gathering Network pipeline being installed in the Sembcorp No. 2 Tunnel. Updated versions of Tables 22-2 and 22-3 were presented.	Link
ES Vol I Chapter 23: Population and Human Health	Original ES chapter [APP-105]	N/A (submitted with DCO application)	Link
ES Vol I Chapter 24: Cumulative and Combined Effects	Original ES chapter [APP-106]	N/A (submitted with DCO application)	Link
	Further Response to Written Question GEN.1.37 [REP4-029]	Cumulative assessment updated at Deadline 4 in response to ExQ1 GEN.1.37 [PD-012].	Link
	Updated List of Developments in Response to Second Written Question GEN.2.2(i) [REP7-011]	Cumulative assessment updated at Deadline 7 in response to ExQ2 GEN.2.2 [PD-016].	Link
	Updated List of Developments in Response to Second Written Question GEN.2.2(i) [REP8-048]	Cumulative assessment updated at Deadline 8 in response to ExQ2 GEN.2.2 [PD-016].	Link

ES chapter name and ref	Versions of document	When and why updated	Document link
	Updated List of Developments in Response to Second Written Question GEN.2.2(i) [REP9-013]	Cumulative assessment updated at Deadline 9 in response to ExQ2 GEN.2.2 [PD-016].	Link
	Updated List of Developments in Response to Second Written Question GEN.2.2(i) [REP11-012]	Cumulative assessment updated at Deadline 11 in response to ExQ2 GEN.2.2 [PD-016].	Link
ES Vol I Chapter 25: Summary of Significant Effects	Original ES chapter [APP-107]	N/A (submitted with DCO application)	Link
ES Vol II – Figures	Original ES Figures	N/A (submitted with DCO application)	Link
	Environmental Statement Addendum - Volume I [AS-050]	All figures with updated Order Limits updated for the first change request [AS-052 to AS-132].	Link
	Updated Landscape figures [REP6-093 to REP6-095]	Updates to Viewpoint 2 at Deadline 6 in response to Action 1 from ISH4 [EV8-006]	Link to 093 Link to 094 Link to 095
	Second Environmental Statement Addendum - Volume I [REP6-107]	All figures with updated Order Limits updated for the second change request [REP6-046 to REP6-104].	Link
	Third Environmental Statement Addendum - Volume I [REP12-TBC]	All figures with updated Order Limits updated for the third change request [REP12-TBC to REP12-TBC].	Link TBC
ES Vol III Appendix 1A: EIA Scoping Report	Original document [APP-238 to APP-240]	N/A (submitted with DCO application)	Link to Part 1 Link to Part 2 Link to Part 3
ES Vol III Appendix 1B: EIA Scoping Opinion	Original document [APP-241 to APP-243]	N/A (submitted with DCO application)	Link to Part 1 Link to Part 2

ES chapter name and ref	Versions of document	When and why updated	Document link
			Link to Part 3
ES Vol III Appendix 1C: Statement of Competence	Original document [APP-244]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 2A: Transboundary Screening	Original document [APP-245]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 5A: Framework Construction Environmental Management Plan	Original document [APP-246]	N/A (submitted with DCO application)	Link
	ES Vol III Appendix 5A - Framework CEMP (Clean) August 2022 [REP5-013]	Updated and submitted at Deadline 5 to include commitments made at previous deadlines.	Link
	ES Vol III Appendix 5A - Framework CEMP (Clean) Oct 2022 [REP9-007]	Updated and submitted at Deadline 9 to include commitments made at previous deadlines.	Link
ES Vol III Appendix 8A: Air Quality - Construction Assessment	Original document [APP-247]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 8B: Air Quality - Operational Assessment	Original document [APP-248]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 8C: Air Quality Assessment of Amine Degradation Products	Original document [APP-249]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 9A: Flood Risk Assessment	Original document [APP-250 to APP-252]	N/A (submitted with DCO application)	Link to Part 1 Link to Part 2 Link to Part 3
	Appendix WE.1.15: Environment Agency Flood Zones and Defences [REP2- 057]	Updates to SFRA mapping in response to ExQ1 WE.1.11.	Link
ES Vol III Appendix 9B:	Original document [APP-253]	N/A (submitted with DCO application)	Link

ES chapter name and ref	Versions of document	When and why updated	Document link
Background Water Quality Data Tables and Water Resources Data			
ES Vol III Appendix 9C: Water Framework Directive Assessment	Original document [APP-254]	N/A (submitted with DCO application)	Link
	Updated WFD Assessment October 2022 [REP11-009]	Updated at Deadline 11 to take into account of revised discharge modelling.	Link
ES Vol III Appendix 10A: Preliminary Sources Study Report	Original document [APP-255 to APP-292]	N/A (submitted with DCO application)	Link to Part 1 Links to Others
ES Vol III Appendix 10B: Contaminated Land: Conceptual Site Model	Original document [APP-293]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 10C: Contaminated Land: Environmental Risk Assessment	Original document [APP-294]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 10D: Geotechnical Risk Register	Original document [APP-295]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 11A: Construction Noise Assessment Methodology	Original document [APP-296]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 11B: Operational Noise Information	Original document [APP-297]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 12A: Legislation and Planning Policy Relevant to Ecology	Original document [APP-298]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 12B: Ecological Impact Assessment Methods	Original document [APP-299]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 12C: Preliminary Ecological Appraisal Report	Original document [APP-299 to APP-304]	N/A (submitted with DCO application)	Link to Part 1 Link to Part 2 Link to Part 3 Link to Part 4 Link to Part 5

ES chapter name and ref	Versions of document	When and why updated	Document link
ES Vol III Appendix 12D: Bat Survey Report	Original document [APP-305 to APP-306]	N/A (submitted with DCO application)	Link to Part 1 Link to Part 2
ES Vol III Appendix 12E: Reptile Survey Report	Original document [APP-307]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 12F: Invertebrate Survey Report	Original document [APP-308]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 12G: Water Vole and Otter Survey Report	Original document [APP-309]	N/A (submitted with DCO application)	Link
	Riparian Mammal Report [REP5-029]	Results of additional surveys provided at Deadline 5.	Link
ES Vol III Appendix 12H: Supplementary Habitat Information Report: Coatham Sands (Teessmouth and Cleveland Coast SSSI)	Original document [APP-310 to APP-311]	N/A (submitted with DCO application)	Link to Part 1 Link to Part 2
ES Vol III Appendix 12I: Terrestrial Invertebrate Survey Coatham Dunes	Original document [APP-312]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 12J: GCN Survey Report	Original document [APP-313]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 13A: Aquatic Ecology Supplementary Desk Study and Field Survey Report	Original document [APP-314]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 14A: Intertidal Benthic Ecology Survey Report	Original document [APP-315]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 14B: Fisheries and Fish Survey Report	Original document [APP-316 to APP-318]	N/A (submitted with DCO application)	Link to Part 1 Link to Part 2 Link to Part 3
ES Vol III Appendix 14C: Marine Mammal Survey Report	Original document [APP-319]	N/A (submitted with DCO application)	Link

ES chapter name and ref	Versions of document	When and why updated	Document link
ES Vol III Appendix 14D: Subtidal Benthic Ecology	Original document [APP-320]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 14E: Coastal Modelling Report	Original document [APP-321]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 15A: Baseline Ornithology Report	Original document [APP-322 to APP-325]	N/A (submitted with DCO application)	Link to Part 1 Link to Part 2 Link to Part 3 Link to Part 4
ES Vol III Appendix 15B: Confidential Baseline Ornithology Report	Original document [APP-326]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 16A: Transport Assessment	Original document [APP-327 to APP-332]	N/A (submitted with DCO application)	Link to Part 1 Link to Part 2 Link to Part 3 Link to Part 4 Link to Part 5 Link to Part 6
ES Vol III Appendix 16B: Framework Construction Worker Travel Plan	Original document [APP-333]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 16C: Framework Construction Traffic Management Plan	Original document [APP-334]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 17A: Landscape Character	Original document [APP-335]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 17B: Landscape and Visual Methodology	Original document [APP-336]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 17C: Potential Viewpoints	Original document [APP-337]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 18A:	Original document [APP-338]	N/A (submitted with DCO application)	Link

ES chapter name and ref	Versions of document	When and why updated	Document link
Cultural Heritage Baseline Report			
ES Vol III Appendix 18B: Cultural Heritage Gazetteer	Original document [APP-339]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 20A: Economic Benefits Report	Original document [APP-340]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 20B: Navigational Risk Assessment	Original document [APP-341 to APP-343]	N/A (submitted with DCO application)	Link to Part 1 Link to Part 2 Link to Part 3
ES Vol III Appendix 24A: Planned Development and Development Allocations	Original document [APP-344]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 24B: Assessment of Cumulative Effects Stages 1-3	Original document [APP-345]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 24C: Statement of Combined Effects	Original document [APP-346]	N/A (submitted with DCO application)	Link
ES Vol III Appendix 25A: Commitments Register	Original document [APP-347]	N/A (submitted with DCO application)	Link
	Environmental Commitments Register [REP7-003]	Updated and submitted at Deadline 7 to include commitments made at previous deadlines.	Link
Habitat Regulations Assessment	Original document [APP-080]	N/A (submitted with DCO application)	Link
	HRA Report - Oct 2021 Rev.2.0 [AS-018]	Updated following submission of Nutrient Nitrogen Briefing Paper [REP9-015] and updated Water Framework Directive Assessment [REP11-010]	Link
	Habitat Regulations Assessment Report Rev 3 [AS-194]	Updated following First Change Request.	Link

ES chapter name and ref	Versions of document	When and why updated	Document link
	Habitat Regulations Assessment Report (Clean) [REP3-002]	Updated at Deadline 3 to address comments by Natural England on their Written Representation dated 14/06/2022, which included comments on potential HDD collapse and impacts of the outfall head replacement.	Link
	Habitats Regulations Assessment Report (Clean) August 2022 [REP6-044]	Updated at Deadline 6 to address further comments by Natural England. This included presenting the assessment such that potential HDD and impacts of outfall head replacement were carried through to Appropriate Assessment, rather than screened out.	Link
	Habitats Regulations Assessment Report (Change Request) (Clean) August 2022 [REP6-109]	Updated at Deadline 6 in response to the Second Change Request. This included confirmation of the confirmation of the Tees crossing construction method.	Link
	Habitat Regulations Assessment Report (Clean) [REP8-009]	Updated at Deadline 8 following acceptance of Second Change Request.	Link
	Habitats Regulations Assessment Report (Clean) Oct 2022 [REP9-003]	Updated at Deadline 9 following comments raised in the Report on the Implications for European Sites (RIES) Report.	Link
	Habitats Regulations Assessment Report (Clean) Oct 2022 [REP12-TBC]	Updated at Deadline 12 following third Change Request.	Link TBC

