

Net Zero Teesside Project

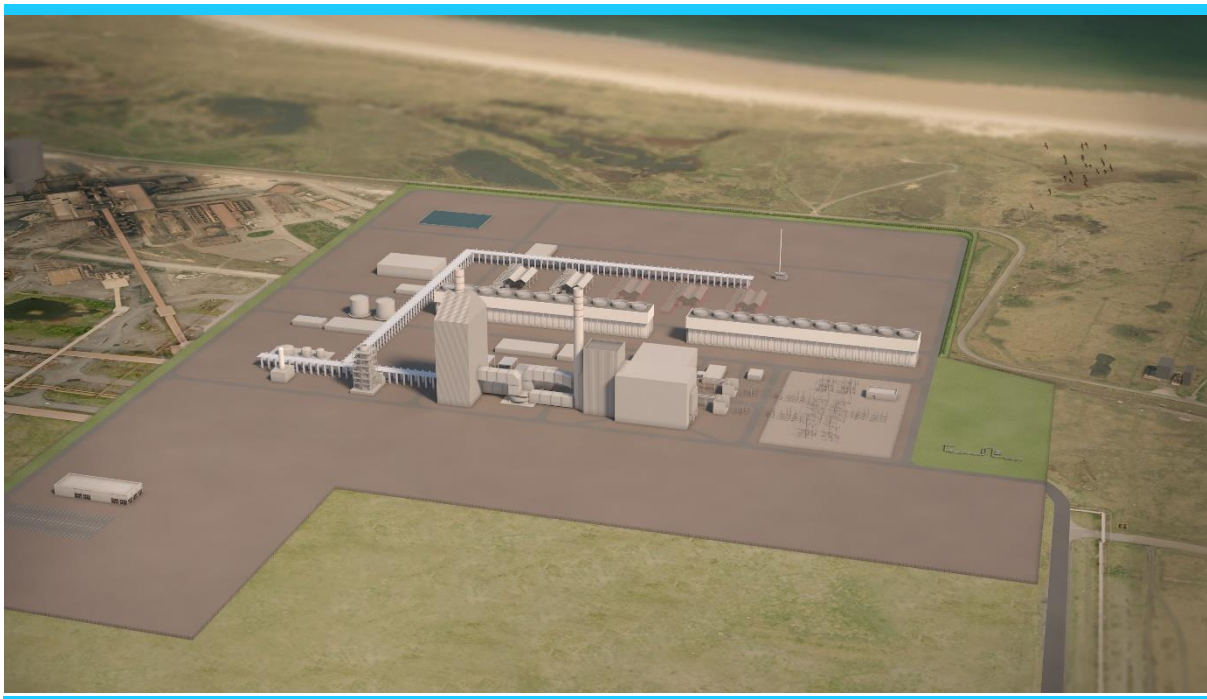
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Land at and in the vicinity of the former Redcar Steel Works site, Redcar and in Stockton-on-Tees, Teesside

The Net Zero Teesside Order

Document Reference: 9.34 – Updated List of Developments in Response to Second Written Question GEN.2.2(i)

Planning Act 2008



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

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GLOSSARY

Abbreviation	Description
AGIs	Above Ground Installations
BEIS	Business, Energy and Industrial Strategy
CO ₂	Carbon dioxide
ES	Environmental Statement
ExA	Examining Authority
Mt	Million tonnes
NZT	The Net Zero Teesside Project
PA 2008	Planning Act 2008
PCC	Power Capture and Compressor Site
Proposed Development	Net Zero Teesside Project
RCBC	Redcar and Cleveland Borough Council
SoS	Secretary of State
STBC	Stockton-on-Tees Borough Council
STDC	South Tees Development Corporation
SWQ	Second Written Question

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1.0 INTRODUCTION

1.1 Overview

- 1.1.1 This document 'Updated List of Developments in Response to Second Written Question GEN.2.2(i)' (Document Ref. 9.34) 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 (the 'ExA') on 6 May 2022. A further change request was submitted to the ExA at Deadline 6 on 23 August 2022 and accepted by the ExA on 6 September 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** – wastewater 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’s (‘STDC’) Teesworks development site (on part of the former Redcar Steel Works Site). The CO₂ export pipeline will also start in this location before heading offshore to the Endurance store, located approximately 145 km to the south-east in the Southern North Sea, approximately 60 km east of Flamborough Head.

1.3 Purpose and structure of his document

1.3.1 This document sets out the Applicants’ response to the ExA’s Second Written Question (‘SWQ’) GEN.2.2 part (i), which was issued on 9 August 2022. SWQ GEN.2.2 part (i) is reproduced below:

“Table 3.1 of the updated Planning Statement [REP1-003] and the updated Long and Short Lists of Developments [REP4-029 and Appendix 1, REP5-027] include a number of additional relevant development proposals in the vicinity of the Order Limits and updates to the status of previously known proposals. The Applicants are asked to:

- At each Deadline, review the tables and figures to include relevant planning applications submitted or determined since production of the most recent lists and confirm whether any such updates would affect the conclusions reached in the Environmental Statement (ES) in particular with regard to cumulative effects; ...”*

1.3.2 This document provides an update of the relevant tables and lists and will be updated at subsequent Examination deadlines. The update takes account of the lists provided by Redcar and Cleveland Borough Council (‘RCBC’) and Stockton-on-Tees Borough Council (‘STBC’) at Deadlines 4 and 5 in addition to any changes that RCBC and STBC have advised the Applicants of since Deadline 5.

1.3.3 The document is structured as follows:

- Section 2 – contains an updated version of Table 3.1 of the Planning Statement [REP1-003].

- Section 3 – contains an updated version of the Long and Short List of Developments [REP4-029, Appendix 1, REP5-027, REP7-011].
- Section 4 – confirms whether the update affects the conclusions reached in the Environmental Statement ('ES') in particular with regard to cumulative effects.

2.0 UPDATE TO TABLE 3.1 OF THE PLANNING STATEMENT

2.1.1 An updated version of Table 3.1 of the Planning Statement [**REP1-003**] is provided below as **Table 2.1**.

2.1.2 Any updates to Table 2.1 since Deadline 7 are shown in red text.

Table 2.1 – Updated version of Table 3.1 of the Planning Statement

NO.	APPLICATION/ PROPOSAL	DESCRIPTION	RELATIONSHIP WITH SITE	STATUS
1.	York Potash Project - The York Potash Harbour Facilities Order 2016	Installation of wharf/jetty facilities with two ship loaders capable of loading bulk dry material at a rate of 12m tons per annum (dry weight). Associated dredging operations to create berth. Associated storage building with conveyor to wharf/jetty. Including a materials handling facility (if not located at Wilton) served by a pipeline (the subject of a separate application) and conveyor to storage building and jetty.	Located to the south of the PCC Site and crossing parts of the CO ₂ gathering, gas and electrical connection and waste water works corridors.	Approved 20.07.16
2.	York Potash Project - Outline planning permission Ref. R/2017/0906/OOM	Overhead conveyor and associated storage facilities in connection with the York Potash Project.	Located south of the PCC Site and crossing parts of the CO ₂ gathering, gas and electrical connection and waste water works corridors.	Approved 30.04.18
3.	Teesworks (Long Acres and South Bank sites) - Planning	Demolition of structures and engineering operations associated with ground	Located east of the PCC Site intersecting with parts of the cooling water,	Approved 27.09.19

NO.	APPLICATION/ PROPOSAL	DESCRIPTION	RELATIONSHIP WITH SITE	STATUS
	permission Ref. R/2019/0427/ FFM	preparation and temporary storage of soils and its final use in the remediation and preparation of land for regeneration and development.	electrical connection and waste water works corridors and construction laydown areas (Long Acres) and to the west of the southern section of the electrical connection corridor (South Bank).	
4.	Redcar Bulk Terminal - Planning application Ref. R/2020/0411/ FFM	Construction of the Redcar Energy Centre consisting of a material recovery facility incorporating a bulk storage facility; an energy recovery facility; and an incinerator bottom ash recycling facility along with ancillary infrastructure and landscaping.	Land at Redcar Bulk Terminal to the north-west of the PCC Site.	Approved 27.01.21
5.	Teesworks (South Bank Site) - Outline planning application Ref. R/2020/0357/ OOM	Demolition of existing structures on site and the development of up to 418,000 sqm (gross) of general industry (use class B2) and storage or distribution facilities (use class B8) with office accommodation (use class B1), HGV and car parking and associated infrastructure works all matters reserved other than access.	Located to the west of the southern section of the electrical connection corridor.	Approved 03.12.20

NO.	APPLICATION/ PROPOSAL	DESCRIPTION	RELATIONSHIP WITH SITE	STATUS
6.	Teesworks (South Bank site) - planning permission ref. R/2020/0465/FFM	Demolition of existing buildings/structures and engineering operations associated with ground remediation and preparation of land for development	Located to the west of the southern section of the electrical connection corridor.	Approved 12.11.20
7.	Teesworks (Foundry Site) - Outline planning permission Ref. R/2020/0821/ESM	Development of up to 464,515qm (gross) of general industry (Use Class B2) and storage or distribution facilities (Use Class B8) with office accommodation (Use Class E), HGV and car parking and associated infrastructure works.	Located to the immediate west and south of the PCC Site and intersecting with parts of the CO ₂ gathering, gas and electrical connection and waste water works corridors and construction laydown areas.	Approved 02.03.22
8.	Teesworks (Long Acres Site) - Outline planning permission Ref. R/2020/0822/ESM	Development of up to 185,806 sqm (gross) of general industry (Use Class B2) and storage or distribution facilities (Use Class B8) with office accommodation (Use Class E), HGV and car parking, works to watercourses including realignment and associated infrastructure works.	Located to the east of PCC Site intersecting with the cooling water, electrical connection and waste water works corridors and construction laydown areas.	Approved 11.03.22
9.	Teesworks (Steel House Site) - Outline planning application	Development up to 15,794sqm (gross) of office accommodation (Use Class E) and car	Located to the east of the northern section of the electrical connection	Validated 21.01.21

NO.	APPLICATION/ PROPOSAL	DESCRIPTION	RELATIONSHIP WITH SITE	STATUS
	Ref. R/2020/0823/ ESM	parking and associated infrastructure works.	corridor and intersecting with part of the cooling water connection corridor.	
10.	Teesworks (Dorman Point Site) - Outline planning application ref. R/2020/0819/ESM	Development of up to 139,353 sqm (gross) of general industry (Use Class B2) and storage or distribution facilities (Use Class B8) with office accommodation (Use Class E), HGV and car parking, works to watercourse including realignment and associated infrastructure works.	Located immediately to the south-west of the southern section of the electrical connection corridor.	Validated 21.01.21 Approved 13.05.22
11.	Teesworks (Lackenby Site) - Outline planning application Ref. R/2020/0820/ESM	Development of up to 92,903sqm (gross) of general industry (Use Class B2) and storage or distribution facilities (Use Class B8) with office accommodation (Use Class E), HGV and car parking and associated infrastructure works.	Located immediately to the south of the southern section of the electrical connection corridor.	Validated 21.01.21 Approved 08.08.22
12.	Teesworks (Bran Sands Site) - planning application Ref. R/2021/0409/FFM	Engineering works for the installation of a hardstanding platform alongside the levelling, improvement and extension of an existing access road.	Located to the south of the PCC Site and immediately west of the wastewater disposal corridor.	Validated 18.05.21 Approved 07.09.22
13.	Land between Tees Dock	Development of soil treatment area	Located to the south east of Tees	Approved 07.10.21

NO.	APPLICATION/ PROPOSAL	DESCRIPTION	RELATIONSHIP WITH SITE	STATUS
	Road and A1085 Trunk Road, Lackenby - planning permission Ref. R/2021/0432/FFM	comprising of hard standing, water treatment area and associated apparatus and structures.	Dock Road subject to access and highway improvements.	
14.	Teesworks (South Bank Site) - planning permission Ref. R/2021/0465/FFM	Erection of 3,396sqm of B2/B8 floorspace including waste storage area, installation of sprinkler tank and associated plant, creation of hardstanding and landscaping works.	Located to the west of the southern section of the electrical connection corridor.	Approved 10.09.21
15.	Teesworks (South Bank Site) - reserved matters approval Ref. R/2021/0878/ESM	Reserved matters application for proposed hardstanding area following outline permission Ref. R/2020/0357/OOM.	Located to the west of the southern section of the electrical connection corridor.	Approved 23.12.21
16.	Cleveland Works, Redcar - planning permission Ref. R/2021/0911/HD	Application for revocation of hazardous substance consent granted under reference R/2011/0208/HD.	Located to the west of the southern section of the electrical connection corridor.	Approved 10.03.22
17.	Teesworks (Land to west of Warrenby, Redcar) - planning application	Engineering operations associated with ground remediation and preparation of the site.	Located on the PCC Site.	Validated 21.01.21 Approved 11.08.22

NO.	APPLICATION/ PROPOSAL	DESCRIPTION	RELATIONSHIP WITH SITE	STATUS
	Ref. R/2021/1048/ FFM			
18.	Teesworks (Bran Sands Site) – planning application Ref. R/2022/0002/ FFM	Engineering works for the installation of 32 conveyor footings along part of the conveyor route previously approved under planning permission Ref. R/2017/0906/OOM.	Located to the south of the PCC Site and immediately east of the wastewater disposal corridor.	Validated 04.01.22
19.	Teesworks (Dorman Point Site) - planning permission Ref. R/2022/0242/ FF	Erection of a LV substation and associated hardstanding.	Located immediately to the south-west of the southern section of the electrical connection corridor.	Approved 26.04.22
20.	Teesworks (South Bank Site) - planning application ref. R/2022/0355/ FFM	Erection of industrial facility (use class B2/B8), associated structures, hardstanding and landscaping works.	Located to the west of the southern section of the electrical connection corridor.	Validated 14.04.22 Approved 16.06.22

3.0 UPDATE TO THE LONG AND SHORT LIST OF DEVELOPMENTS

- 3.1.1 An updated version of the Long and Short List of Developments [**REP4-029** and **Appendix 1, REP5-027**] is provided at **Appendix 1**.
- 3.1.2 The updates to Table 2.2 since Deadline 7 are shown in red text.

4.0 ASSESSMENT OF ENVIRONMENTAL EFFECTS

4.1.1

The Applicants are reviewing the submitted environmental information for ID 123, identified in the updated table contained in **Appendix 1**, and will confirm by Deadline 9 whether this has potential to alter the conclusions of ES Vol I Chapter 24 Cumulative and Combined Effects. No other updates to the long list have been identified as having potential to changes the conclusions of the ES.

APPENDIX 1: UPDATED LONG AND SHORT LIST OF DEVELOPMENTS

Other Development' Details				Stage 1: Within Zol? (Y/N)													Stage 2					Progress to Stage 3/4?	Comments/ Justification	Status at Deadline 6 and affect on conclusions reached in the ES	Status at Deadline 7 and affect on conclusions reached in the ES	Status at Deadline 8 and affect on conclusions reached in the ES												
ID (new Deadline 8 entries in red text)	Application Reference	Authority	Location	Applicant/Description	Approx. distance from PCC Site (km)	Site Area	Timescale of Development	Status	Tier	Stage 1: Within Zol? (Y/N)													Stage 2					Progress to Stage 3/4?	Comments/ Justification	Status at Deadline 6 and affect on conclusions reached in the ES	Status at Deadline 7 and affect on conclusions reached in the ES	Status at Deadline 8 and affect on conclusions reached in the ES						
										Traffic-related	Traffic Noise Zol	Terrestrial Ecology 2km Zol	Terrestrial Ecology 15km Zol	Aquatic Ecology 2km Zol	Aquatic Ecology 15km Zol	Ornithology 2km Zol	Ornithology 15km Zol	Marine Ecology 10km Zol	Marine Ecology 15km Zol	Air Quality Construction Zol	Air Quality Operational Zol	Landscape & Visual Amenity Zol	Heritage Designated Assets Zol	Non-Designated Assets Zol	Marine Heritage Zol	Hydrology & Water Resources Zol	Geology & Hydrogeology Zol						Noise & Vibration Construction Vibration Zol	Noise & Vibration Noise Zol	Progress to Stage 2?	Scale and nature of development likely to have a significant effect?	Major Development (Y/N)?	ES/Scoping Report submitted? (Y/N)
1 (NS)	Not yet submitted	PINS	Application not yet submitted	Net Zero Teesside (Offshore): Offshore elements to be consented by Marine Licence including CO ₂ Export Pipeline below MHWS and geological store and associated facilities. Please note: not shown on Figure 24-2, as planning application boundary is not yet known.	0	Unknown	bp expects to submit the ES in Q4 2022 with a view to obtaining approval for the Development in 2024. Based on current schedule estimates, bp expects installation of the pipelines and seabed infrastructure (including manifolds) to commence in 2025 with drilling of the wells into the Endurance Store expected to commence in 2026. First CO ₂ injection is anticipated in 2027.	Not yet submitted	2	Unknown - application not yet submitted													Y	Y	Y	Y	Unknown	NZT offshore elements	Y	Considered relevant to marine ecology only - scoped out by all other technical disciplines.	Submission of the ES has been delayed to Q4 2022. Consequently installation and first operation will also be delayed. This however will not affect the cumulative assessment	No status change that the Applicants are aware of.	No status change that the Applicants are aware of.	No status change that the Applicants are aware of.				
2	TR030002	PINS	Land at Bran Sands, Teesside, on the South Bank of the River Tees.	York Potash Limited - The installation of wharf/jetty facilities with two ship loaders capable of loading bulk dry material at a rate of 12m tons per annum (dry weight). Associated dredging operations to create berth. Associated storage building with conveyor to wharf/jetty. Including a materials handling facility (if not located at Wilton) served by a pipeline (the subject of a separate application) and conveyor to storage building and jetty.	0	92.44 ha	Construction of the harbour facilities January 2017, with completion of the Phase 1 works expected in July 2018. It is the intention that all works will be completed and the Harbour Facilities will be operating at full capacity by 2024.	Approved	1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Consented but construction not yet started. To ensure a worst case for assessment, assume that construction of the Harbour facilities will take place during the peak month of construction associated with the NZT Project. Linked to IDs 27, 70 and 71.	Y	Major Development (winning/ working of minerals), adjacent to Site, ES submitted	No status change that the Applicants are aware of.	No status change that the Applicants are aware of.	An amendment to the order was approved. The SoS agreed with the Applicant's conclusion that no materially new or materially different significant environmental effects would be introduced. Therefore no changes to the conclusions in the ES are expected.		
3	EN010082	PINS	Land at the Wilton International Site, Teesside	Sembcorp Utilities (UK) Limited - Tees CCGT, a gas fired combined cycle gas turbine (CCGT) power station with a maximum generating capacity of up to 1,700 MWe (assuming carbon capture and storage requirements are met). The project will utilise existing Gas and National Grid connections.	3.9	800 ha	Two scenarios presented - both with construction beginning in 2019 and operation in 2022. Second option includes construction of a further 850 Mwe within five years of its commercial operation, finished in 2030.	Approved	1	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Note Construction beginning in 2019 and operation in 2022 - plant should be operational prior to NZT construction beginning; 3.9km from PCC Site. Operational emissions to be	Y	Major development, ES submitted	No status change that the Applicants are aware of.	No status change that the Applicants are aware of.	No status change that the Applicants are aware of.			
4	EN010051	PINS	Dogger Bank Zone (North Sea), with cabling coming ashore between Redcar and Marske-by-the-Sea (Wilton complex, Redcar & Cleveland). Easting: 506535 Northing: 610896	Forewind Ltd. (formerly Dogger Bank Teesside B) - Project previously known as Dogger Bank Teesside A&B. Dogger Bank Teesside A & B is the second stage of Forewind's offshore wind energy development of the Dogger Bank Zone (Zone 3, Round 3). Dogger Bank Teesside A & B will comprise up to two wind farms, each with an installed capacity of up to 1.2GW, which are expected to connect to the National Grid at the existing National Grid substation at Lackenby, near Eston. It follows that Dogger Bank Teesside A & B could have a total installed capacity of up to 2.4GW Dogger Bank Teesside A & B is located within The Dogger Bank Zone which comprises an area of 8660 square kilometres (km ²) located in the North Sea between 125 kilometres (km) and 290km off the UK North East coast. Note: the start of the offshore element has been labelled on Figure 24-1, the onshore elements are not labelled.	4.1	Teesside A: 560km ² / 216 sq. miles Teesside B: 593km ² / 229 sq. miles	Project Description ES Chapter indicates, for both projects (Teesside Project A & Teesside Project B): - Earliest construction start onshore: At consent award (subject to discharge of DCO conditions) - Earliest construction start offshore: 18 months after consent award - Latest construction start onshore and offshore: 7 years after consent award - Onshore construction duration window: Up to 36 months - Offshore construction duration window: Up to 6 years - Maximum onshore construction gap between the two projects (from first onshore construction finish to second onshore construction start): Up to 5 years - Latest construction finish onshore: 10 years after consent award - Latest construction finish offshore: 13 years after consent award	Approved	1	N	N	N	Y	N	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Main elements are offshore. To ensure a worst case for assessment, assume that construction of the Harbour facilities will take place during the peak month of construction associated with the NZT Project.	Y	Major development, ES submitted, overlap in construction periods	No status change that the Applicants are aware of.	No status change that the Applicants are aware of.	No status change that the Applicants are aware of.		
5	R/2015/0393/RSM	Redcar and Cleveland	Stokesley Road, Guisborough	Bellway Homes Ltd, residential development (188 dwellings) with associated vehicular and pedestrian accesses including landscaping (resubmission), land at Stokesley Road - Guisborough.	9.3	7.1 ha	Online satellite imagery indicates that construction of this development has now been completed.	Approved 16/11/2015	1	N	N	N	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N - 188 dwellings - small scale	Y	(Resubmitted previous (2013) ES)	N	Planning Statement states: "The current proposal is largely identical to the approved scheme, with the exception of a number of minor detail changes to the approved house types...All proposed works largely remain as previously approved, but with alterations to the approved house type designs."	Y	Remote from the Site (9.3 km from PCC), not within the Zol for construction traffic and not likely to result in any other non-traffic related cumulative effects. Online satellite imagery indicates that construction of this development has now been completed.	No status change that the Applicants are aware of.	No status change that the Applicants are aware of.	No status change that the Applicants are aware of.

