



Document Ref: 5.3
PINS Ref: EN010082

Tees CCPP Project

The Tees Combined Cycle Power Plant Project
Land at the Wilton International Site, Teesside

Gas Connection Statement



The Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and
Procedure) Regulations 2009

Regulation 6(1)(a)(ii)

Applicant: Sembcorp Utilities UK
Date: November 2017

DOCUMENT HISTORY

Document Ref	5.3		
Revision	1		
Author	D Watson		
Signed		Date	November 2017
Approved By	S Taylor		
Signed		Date	November 2017
Document Owner	Sembcorp Utilities UK Limited		

GLOSSARY

Abbreviation	Description
AGI	Above Ground Installation
CCPP	Combined Cycle Power Plant
DCO	Development Consent Order
FCO	Full Connection Offer
km	kilometre
MWe	Megawatt electrical
NTS	National Transmission System
TPS	Teesside Power Station

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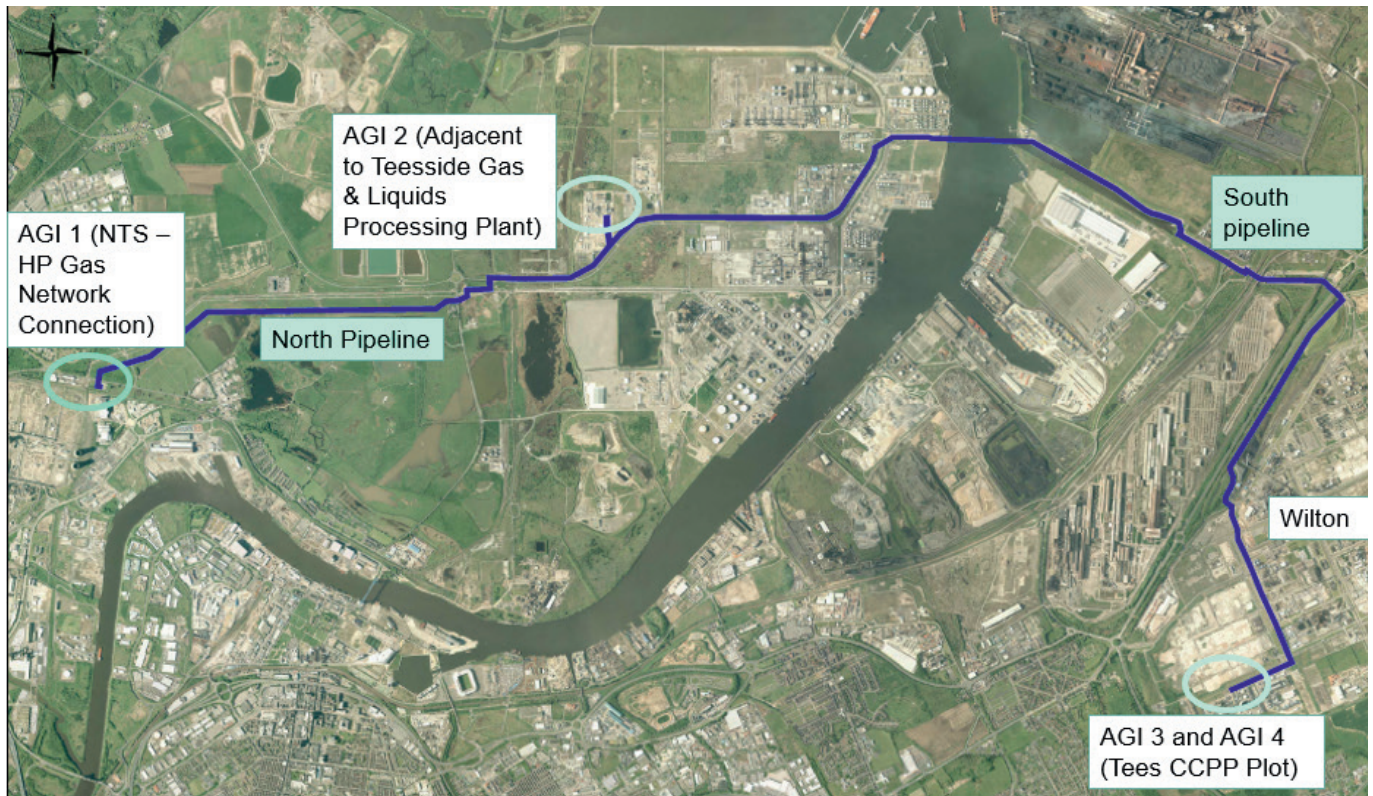
1. INTRODUCTION

- 1.1 Sembcorp is making an application to the Secretary of State for a Development Consent Order (DCO) to construct and operate a new 1,700 MWe gas fired Combined Cycle Power Plant (Tees CCPP) at the Wilton International Site, Teesside.
- 1.2 Under Section 31 of the Planning Act 2008, a DCO is required to authorise development and subsequent operation of a generation asset of this size.
- 1.3 This Gas Connection Statement accompanies the application and has been prepared in accordance with The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009.

2. EXISTING PIPELINE

- 2.1 In respect of this statement, it is notable that Tees CCPP will be situated on a site formally occupied by Teesside Power Station (TPS) a former 1,875MWe gas fired combined cycle power station. The turbines and all generation equipment associated with TPS were removed during demolition which was completed in 2015. Two grid connection substations, the gas connection and site drainage infrastructure were all however left in place.
- 2.2 The gas connection is provided by a 14km/24 inch high pressure buried pipeline, owned by SembCorp, that connects to the National Transmission System (NTS) at Belasis Avenue in Billingham, North Tees. The NTS take off-point at Belasis Avenue feeds into Sembcorp's AGI-1 (Above ground Installation) which is equipped with control valve and metering systems. The pipeline heads east for 4 km to Seal Sands where it connects to AGI-2. From here the pipeline continues for another 10km initially heading further east, then passing under the river Tees, on to SembCorp's Wilton International site. After crossing the Wilton site, the pipeline surfaces in the North East corner of the Tees CCPP site at AGI-4.
- 2.3 The pipeline operates at NTS pressure and can supply in excess of 350x106 MJ per day. Since the decommissioning of TPS, the pipeline has been out of service, in a state of preservation pending re-commissioning. The gas supply capability of the pipeline is well in excess of the requirement for the new Tees CCPP, with a total capacity to power a 4,000 MWe CCGT plant.
- 2.4 AGI-1 and AGI-2 have their own access arrangements. AGI-4 and the proposed AGI-3 are within the red line DCO application boundary for the new development and is accessed from the highway via the existing power station site entrance on the south bound carriageway of the A1053. Given that all of the required gas connection infrastructure will be provided by existing assets, courtesy of the former development, Sembcorp believe that the proposed connection is entirely feasible and deliverable. There will not be a requirement for any additional land associated the provision of the Gas Connection. Environmental, visual and technical parameters will remain unchanged.
- 2.5 The new power plant will also be able to supply the Wilton International site via AGI-3 (located next to AGI-4). The on-site AGI will supply the Power Station and also via a further AGI (AGI-3) be able to supply gas to the Wilton Site (replicating the arrangements of the original Power Station).

Figure 1 Overview of gas pipeline highlighting above ground installations (AGIs)



3. CONTRACTUAL ARRANGEMENTS

- 3.1 Semcorp has had ongoing discussions with National Grid with regards to the reconnection of the existing 24" Natural Gas Pipeline that Semcorp owns and which runs between the Enron Billingham Exit Point on the NTS and the Project Site. Semcorp will be duly submitting an initial application for connection and capacity to National Grid in the next few weeks.
- 3.2 The initial application allows National Grid to assess the feasibility of the proposed reconnection and the associated workscope in order to provide Semcorp a Full Connection Offer (FCO). The FCO will detail the physical construction costs, programme of works and layout of the propose connection.
- 3.3 This process takes circa 6 months and on acceptance of the offer, detailed design works and equipment procurement are undertaken, with mobilisation, construction and commissioning taking up to 24 months.