



**South Tees
Site Company**

STSC: New Environmental Permit Application

Present situation:

- STSC operates environmental permit JP3638HM/V006 for an integrated iron and steelworks on the behalf of the Official Receiver.

Future situation:

- STSC requires assistance with the generation of a new bespoke environmental permit application for discharge activities
- The scope shall cover the successful completion of all relevant application forms and reports, and any required modelling using H1 software tool for carrying out environmental risk assessments.



General Description: Site Description

- Brief overview of the site's history
- Site boundaries and nature of the land
- Approximate number of employees
- Brief overview of ongoing activities:
 - Keep Safe
 - Demolition
 - Decontamination Project
 - Waste Removal
- Third-party activities:
 - Runtech
 - D Jones
 - Falck
 - OCS
 - Interface with other third parties (British Steel, RBT, STDC)

- Buildings (occupied and unoccupied)
- Pipelines
- HV/LV network
- Road network
- Site waterways
- Landfill (covered by a separate permit)



General Description: Inputs

- Electricity (National Grid)
- Water (Northumbrian Water)
- Gas
 - Small quantities in mobile cylinders
 - Nitrogen via third party provider (fixed distribution network)
- Fuel



General Description: Outputs

- Electricity (via diesel generator)
- Historic waste
- Arising waste (WEEE, office consumables, waste oil, etc.)
- Water to site outfalls
- Sewage
- NO_x and SO_x from diesel generator and vehicle movements



Redcar Coke Ovens - Water Treatment Facility (1)

- Input: rainwater runoff from around the site
 - Gullies
 - Pits
 - Sumps
 - Firewater runoff
 - Bunds
- Output: R1 point source to Tees estuary



Redcar Coke Ovens - Water Treatment Facility (2)

- Description of process
 - Oil-water separation
 - Sedimentation
- Analysis
 - From various tanks and sumps throughout the system
 - R1
- Emissions
 - Air x
 - Land x
 - Water ✓
 - Waste ✓



Electricity Generation

- 6MW generator
- Hours (runtime)
- Maintenance
- Inputs:
 - Diesel/Water (cooled; industrial & potable, application of treatment chemicals)
- Outputs
 - Water/Electricity
 - $\text{PM}_{10/2.5}$ / NO_x / SO_x
 - CO_2 / Consumables
 - Heat/Noise
- Analysis – W3 outfall



Gas Main Nitrogen Blanket

- COG main
 - Approx. 27km long, with approx. 7km of underground sections
- RCO By-Products tanks
 - Coal tar and distillates – approx. 6,000T
- SBCO By-Products tanks
 - Coal tar and distillates – approx. 4,000T
- Inputs:
 - Nitrogen (+H₂O) blanket
- Outputs:
 - Nitrogen (point source + fugitives)
 - H₂O/condensate
 - Analysis
 - 3rd party disposal



HV/LV Network

- Description of system
- Supplies STSC and third parties
- Inputs:
 - Electricity
 - Oil for maintenance (transformers)
 - SF6 gas
- Outputs:
 - Transformer oils
 - Electricity



SLEMS Activities

- Storage/loading of BOS oxide material via shovel
- Carried out by third party for the Official Receiver
- Inputs:
 - None
- Outputs:
 - BOS oxide material (recovery activity by third party); reduction in levels of historic BOS oxide



STSC: New Environmental Permit Application