

# Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

---

TATA Steel UK Limited

Port Talbot Steelworks  
Port Talbot  
SA13 2NG

Variation application number

EPR/BL7108IM/V015

Permit number

EPR/BL7108IM

# Port Talbot Steelworks

## Permit number EPR/BL7108IM

### Introductory note

#### **This introductory note does not form a part of the permit**

The following notice gives notice of the variation and consolidation of an environmental permit.

#### Upgrade of the internal power generation facility

This variation has been issued to consolidate the permit to incorporate changes made as a result of the planned upgrade to the internal power generation facility at the site. The upgrade (the new Power Station) will comprise the installation of two new boilers (nominally up to 164 MWth each) and associated steam turbine sets with an electrical power generation capacity of up to 150 MWe output.

The new boilers will replace four of the site's existing boilers (Service Boilers 4 and 5, Boiler 5 (Margam A) and Mitchell Boiler), which will be decommissioned once the new plant is commissioned and operating in a continuous and reliable manner. Three stacks associated with these boilers (represented in the permit as emission points A50, A51 and A53) will also be decommissioned. The turbo alternators B1, 2 and 3 will also be decommissioned. The decommissioned plant will not be removed from the site. The upgrade will increase the overall onsite electricity generation capacity of the steelworks, whilst at the same time limiting the requirement for flaring of process gases.

The new Power Station will be predominantly fuelled by gases which are generated by the steel making process (that is, blast furnace gas (BFG), basic oxygen steelmaking gas (BOSG) and coke oven gas (COG)). The primary fuel will be BFG, which will comprise 85% of the gas feed stock, which will be blended with small amounts of COG and BOSG if they are available.

The new Power Station will also have the ability to be fuelled by imported natural gas, which will be used infrequently during in the following situations:

- For boiler start-up, which will be required after a statutory shut-down every two years;
- As a standby fuel for flame stabilisation, which will be required if and when the calorific value (CV) of the BFG drops below 3 MJ/m<sup>3</sup>. This is not normal operation and can occur as a result of various operational issues with the blast furnaces. Based on operational experience, this drop in CV is only expected to occur for a few hours on approximately two occasions a year;
- To maintain minimum load on the boiler if and when BFG is not available, for example, during periods of planned maintenance to the blast furnace(s), and if the blast furnace(s) have to be taken offline due to problems with the blast furnace(s) themselves or with a downstream process. Operation using natural gas is typically expected to be for <10% of the year for both planned and unplanned outages.

A new electrical connection will be installed which will connect the new Power Station with existing substations situated at the south eastern end of the steelworks site.

It is anticipated that the construction and commissioning phase of the project will take three years from the commencement of site preparation works to the attainment of a stable operating state for the two new boilers. The commissioning phase for the new boilers will take six months; during this period the power generation facility will continue to operate in its current state, but only one new boiler will be in operation at any point in time.

The schedules specify the changes made to the permit.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application received BL7108IM	Duly made 31/08/01	Application for Integrated Steelworks at Port Talbot
Permit determined BL7108IM	31/03/04	Original permit issued to Corus UK Limited
Variation determined AP3330BE (BL7108IM/V002)	08/11/04	LCPD requirements
Application RP3730BV	Duly made 17/09/04	Changes made in order to maximise production capacity
Variation determined RP3730BV (BL7108IM/V003)	20/02/05	
Application PP3837SQ	Duly made 27/07/05	Trials for use of waste oils in boilers and new monitoring standards
Variation determined BP3933LD (BL7108IM/V004)	01/10/05	Improvements to reduce the release of kish
Variation determined FP3935LM (BL7108IM/V005)	03/02/06	Improvement to categorising of complaints
Variation determined PP3837SQ (BL7108IM/V006)	12/05/06	Time limited variation issued
Variation determined TP3139XJ (BL7108IM/V007)	21/12/07	NERP requirements implemented
Variation determined EPR/BL7018IM/V008	29/06/09	BOS gas recovery system introduced, new quench and cooling towers plus lignite injection
EA variation determined EPR/BL7018IM/V009	09/08/10	Changes following Port Talbot Steelworks permit review (PM <sub>10</sub> )
Variation determined EPR/BL7108IM/S010	19/11/10	Partial surrender of land. Amended site plan. Operator name change to Tata Steel UK Limited

**Status log of the permit**

<b>Description</b>	<b>Date</b>	<b>Comments</b>
EA variation determined EPR/BL7108IM/V011	02/02/12	Variation to address Article 10 of the IPPC Directive in relation to air quality
Application EPR/BL7108IM/V012	Duly made 16/04/12	Application for blast furnace 4 rebuild. BOS off-gas recovery, COG triple flare stack replacement
Variation determined EPR/BL7108IM/V012	12/07/12	Varied permit issued
NRW variation determined EPR/BL7108IM/V013	12/06/13	Variation to implement the changes introduced by IED
Regulation 60(1) Notice of request for more information	06/06/13	Implementation of BAT conclusions under IED
Regulation 60 (1) response	27/09/13	Response received from Tata Steel UK Limited
NRW Variation and consolidation determined EPR/BL7108IM/V014	20/04/15	Varied and consolidated permit issued.
Application EPR/BL7108IM/V015	Duly Made 05/06/15	Application to upgrade internal energy generation plant (The Power Station). Reinstatement Minister Stein hood outage condition.
Variation determined EPR/BL7108IM/V015	08/02/16	Varied permit issued.

End of introductory note

## Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2010

The Natural Resources Body for Wales (“Natural Resources Wales”) in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies and consolidates

Permit number  
**EPR/BL7108IM**

issued to  
**TATA Steel UK Limited** (“the operator”),

whose registered office is

**30 Millbank  
London  
SW1P 4WY**

company registration number **2280000**

to operate an installation at

**Port Talbot Steelworks  
Port Talbot  
SA13 2NG**

to the extent set out in the schedules.

The notice shall take effect from 08/02/2016

Name

Date

	<b>08 February 2016</b>
---	-------------------------

Eirian Macdonald  
Authorised on behalf of Natural Resources Wales

**Schedule 1**

All conditions have been varied by the consolidated permit as a result of the application made by the operator.

**Schedule 2 – consolidated permit**

Consolidated permit issued as a separate document.