

Notice of variation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Tata Steel UK Limited

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

Variation number

EPR/BL7108IM/V019

Permit number

EPR/BL7108IM

Port Talbot Steelworks

Permit number EPR/BL7108IM

Introductory note

This introductory note does not form a part of the notice

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

This variation (V019) is one component of a series of permit changes under application PAN-029148. Each component is subject to standard determination requirements. All relate to the planned major transformation of Port Talbot Steelworks from ore-based iron and steelmaking (using Blast Furnaces and Basic Oxygen Furnaces) to a reconfigured, Electric Arc Furnace (EAF) based steelmaking operation. The scale of this industrial transformation means that it is necessary to divide these permit changes into separate work packages or 'components' for greater efficiency, but they all fall under a single Permit Application Number (PAN) with common scoping application documents.

Variation (V019) includes 3 discrete components:

1. Removal (from the permit) of activities no longer undertaken and incapable of being restarted (Blast Furnace (BF) /Basic Oxygen Steelmaking (BOS) production related).
2. Suspension/mothballing of activities relying on steelmaking and under temporary cessation during the applicant's site transformation.
3. Permitting of alternative steam generation package boilers (medium combustion plant) to fulfil residual site demand following decommissioning of older Large Combustion Plant (LCP) previously supplying steam.

Details of each are as follows:

1. Removal of decommissioned activities

The following activities are removed from the permit (Table S1.1) at the request of the operator. The activities are no longer undertaken, and have been decommissioned to the extent that they are incapable of being restarted without considerable cost and effort, a scenario which is not expected. This does not constitute "surrender" under Regulation 25 of EPR as no permitted land is surrendered, and the change is part of this variation under Regulation 20.

Activities completely removed from Table S1.1 of the permit

Activity Listed in Schedule 1 of the EP regulations	Brief description	Comment
1.2 A(1)(a) Refining gas where this is likely to involve the use of 1000 or more tonnes of gas in any 12-month period	Coke making in 2 batteries of Morfa Coke ovens and associated coke oven gas treatment in byproducts plant	Coke ovens have ceased operation – supply of coke to blast furnace and coke oven gas to integrated works operations is no longer necessary or viable
5.3 A(1)(a)(i) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving biological treatment	Coke oven effluent (aqueous) treatment plant	Coke ovens / byproducts ceased operation – connected effluent treatment no longer required
2.1 B (c) Desulphurising iron, steel or any ferrous alloy	Desulphurising iron, steel or any ferrous alloy.	No longer relevant. Principally, desulphurisation in the permit is an intermediate step between blast furnace iron production and basic oxygen steelmaking, both of which have ceased. Desulphurisation of steel post BOS-vessel was also permitted, and the operator has advised that this activity is no longer required (see below)

In addition, the permitted activity is substantially altered by removal of parts which are no longer undertaken. As other parts of the activity remain relevant, these are retained but updated as necessary:

Activities revised in Table S1.1 of the permit by removal of substantial parts

Activity Listed in Schedule 1 of the EP regulations	Brief description – before variation	Brief description – after variation	Explanation
2.1 A(1)(b) <i>Producing, melting or refining iron or steel or any ferrous alloy, including continuous casting</i>	2 Blast Furnace 2 BOS Vessels / Secondary Steelmaking 3 Continuous Casting machines	Secondary Steelmaking <i>Ruhrstahl-Heraeus Degasser</i> [RHD], <i>Composition Adjustment by Sealed Argon Bubbling</i> [CAS2] 2 Continuous Casting machines (Caster 1 and Caster 3)	This is because blast furnaces, Basic Oxygen Steelmaking (BOS) are no longer undertaken. Parts of Secondary steel making and two continuous casters are retained as they remain relevant within planned EAF steelmaking (but may be subject to future variation by application by the operator). However CAS1, RH degasser, manganese fume extraction, RH KTB and RD preheater installations, steel desulphurisation (emitting via A63) and caster 2 are removed as they are no longer required; any future steelmaking will be in a 2-caster and reconfigured secondary steelmaking footprint basis.
1.1 A(1)(a) <i>Burning any fuel in an appliance with a rated thermal input of 50 or more megawatts.</i>	Power Station boilers (A50, A51, A52A, A52B, A53, A62, A68 and A69) LCP 73 (A62); LCP 337 (A50) (TNP LCP90); LCP 338 (A53); (TNP LCP91) LCP 339 (A51); (TNP LCP 92) LCP 340 (A52A & A52B); (TNP LCP93) LCP 425 (A68) LCP 426 (A69)	-none-	No power station (LCP) activities following removal of coke ovens, BOS, BF, which provided fuel gases for onsite power generation and steam raising for integrated steelmaking.
	Reheat Furnaces A34A and A34B	Reheat Furnaces A34A and A34B (150 MW _{th} each)	No change – furnaces retained. Thermal capacity noted, as provided by operator to inform the 1.1 A(1)(a) combustion classification.
	Stoves A6 and A7	-none-	Stoves are blast furnace stoves. This activity ceases along with the blast furnaces.

As a result of the cessation of activities, a number of permit conditions and related schedules require revision. However, given the anticipated further changes to the permit (subject to application and determination), these are left unaltered at present. Where emission points or processes are no longer in existence, monitoring returns required by this permit should reflect this.

Schedule 2 of this variation includes a revised permit Table S3, which clearly documents which air emissions points are retained, and which have ceased operation. Subsequent tables (e.g. reporting requirements) should be read with reference to updated Table S3. A revised permit Table S3.8 details updated water emission points and continuing permit monitoring requirements (noting standard permit condition 3.5.1 and any separate communications from NRW).

2. Suspension from permit of mothballed activities

The following permitted activities in Table S1.1 are temporarily mothballed (suspended) at the request of the operator. This means that at the present time, the activities are not undertaken, disconnected from key utilities and services and are incapable of being restarted on an ad-hoc basis. Their suspension is as a result of cessation of BF/BOS steelmaking, pending planned arc furnace operation.

It is expected the 2.1 A(1)(b) steelmaking and casting activities will restart (subject to any associated permitting requirements) to co-ordinate with intended electric arc furnace steelmaking production, which will be the subject of a separate application component. This mothballing is in addition to the removal of parts of the same activity above. The section 2.1 A(1)(a) [sintering] and (d) [iron ore stockyards/materials handling] activities are retained in a mothballed status, subject to a final decision by the operator on their future.

The operator must gain appropriate consent from NRW to restart any mothballed activities, prior to their operation, as detailed in the table below. This is owing to the complexity of the proposed changes to the steelmaking site and existing equipment, and the inter-action of mothballed equipment with surrendered operations and/or proposed new EAF steelmaking. It is to ensure that readiness to safely resume steel production, technical coherence and BAT are assessed, confirmed and determined (as applicable) by Natural Resources Wales in the new operational configuration.

Activities revised in Table S1.1 of the permit by temporary cessation (“mothballing”) of activities.

Activity Listed in Schedule 1 of the EP regulations	Brief description	Limits of activity – after variation
2.1 A(1)(d) Loading, unloading or otherwise handling or storing more than 500,000 tonnes in total in any 12-month period of iron ore, except in the course of mining operations, or burnt pyrites.	Unloading and handling iron ore	“Mothballed – activity may not be operated without permit variation to reflect modified activity”. <i>The receipt, storage and transfer of iron ore and associated raw materials (includes unloading)</i>
2.1 A(1)(b) Producing, melting or refining iron or steel or any ferrous alloy, including continuous casting ^{Note 2}	Secondary Steelmaking <i>Ruhrstahl-Heraeus Degasser</i> [RHD], <i>Composition Adjustment by Sealed Argon Bubbling</i> [CAS2] 2 Continuous Casting machines (Caster 1 and Caster 3)	“Mothballed – activity may not be operated without permit variation including updated technical description of revised A63 extraction configuration, RHD operation without preheating, and associated abatement/emissions BAT assessments” added to limits. Following variation determination, casters 1 & 3 will recommence but RHD degasser and CAS2 will remain mothballed until written notification received and accepted by NRW from the operator as their routine use is not expected in EAF operation. <i>Secondary Steelmaking. Casting steel into slabs for sale or for further processing into rolled products</i>
2.1 A(1)(a) Roasting or sintering metal ore, including sulphide ore, or any mixture of iron ore with or without other materials	Sintering	“Mothballed – activity may not be operated without permit variation to reflect modified activity”. <i>Preparing iron ore, recycled iron oxides and associated raw materials to produce sinter</i>

3.5 B (b)(iii) Loading or unloading petroleum coke, coal, coke or any other coal product except unloading on a retail sale	Mineral activity	"Mothballed – activity may not be operated without permit variation to reflect new scope of modified activity, [which currently relates to sintering, other former steelmaking (cokemaking and BF etc), and potential future EAF steelmaking]". <i>Loading/unloading coal and coke - receiving, storing and transferring coal and coke and associated raw materials</i>
Directly Associated Activity – Continuous Processing and Annealing Line (CAPL)	Thermal treatment, annealing, of rolled products	"Mothballed – activity may not be operated until written notification received and accepted by NRW from the operator, detailing the process being ready for re-commissioning".

Schedule 2 of this notice contains a revised and updated Table S1.1 reflecting all of the changes to air emission points resulting from the activity changes above.

3. Permitting of Medium Combustion plant for steam generation

As a consequence of the changes described above, the site-wide steam utility demand has dropped considerably. The previous steam generation within the integrated steelworks (the S1.1 LCP boilers for energy generation), including steam take-off for other purposes, is no longer possible. There remains residual on-site steam demand for continuing rolled steel production activities. The variation therefore permits the addition of two (2) package boilers each of which are 10.9 MW_{th} input and which are classified as medium combustion plant under EPR. They are Bosch UL-S16000 package boilers with Dreizler MC10001.3 burners. They are added to the existing 1.1 A(1)(a) combustion activity included in the permit.

Table S1.1 of the permit is updated in Schedule 2 of this Notice to reflect this addition, which is the only new activity authorised by this variation. Table S3.7 of the permit (energy generation point source emissions to air) is updated in Schedule 2 of this notice to include monitoring requirements for the MCPs, and to remove LCPs no longer in service.

MCP permit conditions, Table S1.2A and Schedule 8 (MCP information) are added to the permit via Schedule 3 of this Notice. This is to impose MCP conditions, operating techniques and provide MCP mandatory information, respectively, for the package boilers.

The schedules specify the changes made to the original permit.

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

Status log of permit BL7108IM

Description	Date	Comments
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 ₁₀)
Variation determined EPR/BL7108IM/S010	19/11/10	Partial surrender of land. Amended site plan. Operator name change to Tata Steel UK Limited
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

Status log of permit BL7108IM

Description	Date	Comments
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.
Application PAN-000178 (EPR/BL7108IM/T001) (part transfer of permit EPR/BL7108IM)	Duly made 22/12/15	Application to transfer Cold Mill effluent lines, effluent treatment plant and discharge line to Industrial Chemicals Limited.
Additional information requested (EPR/BL7108IM/T001)	22/12/15	Details of process, emission points, storage of raw materials and wastes and control of installation requested
Variation determined EPR/BL7108IM/V015	08/02/16	Varied permit issued.
Additional information received (EPR/BL7108IM/T001)	09/02/16 – 11/04/16	Description of process, EPOC certificate, confirmation of no air emission points from ETP, description of process and further site plans.
Additional information requested (EPR/BL7108IM/T001)	10/06/16	Operating techniques and procedures
Additional information received (EPR/BL7108IM/T001)	13/06/16 – 29/06/16	Ondeo operating procedure, new EMS procedures incorporating operating techniques, emergency plan
Part Transfer determined EPR/BL7108IM/T001	04/07/16	Part transfer of the effluent lines, effluent treatment plant and discharge line to Industrial Chemicals Limited complete
Application EPR/BL7108IM/V016	Duly Made 11/04/2017	Application to add the HAA facility to the permit as well as derogations for COG desulph, Sinter De-dust and suspended solids
Additional information received	07/08/2017	Additional details received for a pelletising process to take place at "Yard 0" for inclusion in application EPR/BL7108IM/V016
Additional information received	22/12/2017	Further clarification of the boundary of "Yard 0" and further details of waste materials requested to be added to the variation
Additional information received	07/05/2018	List of Wastes accepted at HAA and Yard Zero
Additional information received	31/05/2018	Update to Overarching Operating Techniques document and confirmation of required waste

Status log of permit BL7108IM

Description	Date	Comments
		storage and treatment tonnages at the HAA and Yard 0 areas.
Variation determined	26/06/2018	Varied and consolidated permit issued
Variation application EPR/BL7108IM/V017 (PAN-019978)	Duly made 16/12/2023	Application fully received
Additional information received	24/02/2023	Additional plan received
Variation determined EPR/BL7108IM/V017 (variation and consolidation)	26/05/2023	Varied and consolidated permit issued
Variation application EPR/BL7108IM/V018 (PAN-029148 main application)	First submitted 02/05/2025	Framework application for Electric Arc Steelmaking operation at Port Talbot (transformation from integrated steelmaking). Main substantial variation application
Variation application EPR/BL7108IM/V019 (PAN-029148 component 01)	Duly Made 27/06/25	Application to remove several decommissioned integrated steelmaking activities. Suspension of some mothballed steelmaking activities. Addition of New medium combustion plant. Consolidation of permits.
Variation application EPR/BL7108IM/V020 (PAN-029148 component 02)	30/06/2025	Application to relocate scrap metal management activities within the steelworks installation. Internally generated scrap metal only
Additional information received (PAN-029148 component 02)	02/06/2026	Clarification regarding noise impact assessment, environmental risk assessment, waste types and quantities, and site layout.
<i>Variation determined EPR/BL7108IM/V019</i>	<i>DD/MM/YYYY Y</i>	<i>Varied permit issued [STC]</i>

Other Part A installation permits relating to this installation

Operator	Permit number	Date of issue
Harsco Metals Group Ltd	EPR/BP3635MR	02/03/2016
Tarmac Trading Limited	EPR/BL5636IF	17/08/2022
Tata Steel UK Ltd (Hazardous Landfill)	EPR/BW3692IM	17/12/2004
Tata Steel UK Ltd (Non-hazardous Landfill)	EPR/BW7311IE	17/12/2004
Runtech Ltd	EPR/AB3595FF	29/09/2017
Tata Steel UK Limited (Cold Mill Effluent Treatment Plant)	EPR/AB3192HQ	24/11/2023

End of introductory note

Notice of variation

Environmental Permitting (England and Wales) Regulations 2016

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 2016 varies

Permit number
EPR/BL7108IM

issued to:
Tata Steel UK Limited (“the operator”)

whose registered office is

**18 Grosvenor Place
London
England
SW1X 7HS**

company registration number **2280000**

to operate part of a regulated facility at

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

to the extent set out in the schedules.

The notice shall take effect from *[Date of issue DD/MM/YYYY, same as immediately below]*

Signed

Date

[name of authorised person]
Type name, signature not needed

[DD/MM/YYYY]

Authorised on behalf of Natural Resources Wales

Variation Notice Schedule 1 – conditions to be deleted

None

Variation Notice Schedule 2 – conditions to be amended

The following conditions are amended as a result of the application made by the operator

- 2.3.1 (a) For the following activities referenced in schedule 1, table S1.1 (AR1.1, AR2 to AR15) The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by Natural Resources Wales.
- (b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales for approval within the period specified, a revision of any plan or other documentation ("plan") specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

Schedule 1, Table S1.1 (Activities) is amended as shown below, fully replacing the previous version:

Table S1.1 Activities			
Activity Reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR1.1	1.1 A(1)(a) Burning any fuel in an appliance with a rated thermal	Reheat Furnaces A34A and A34B (150 MW _{th} each)	2 reheat furnaces - Gaseous fuels and reheating slabs ready for hot rolling
AR1.2	input of 50 or more megawatts.	2 x Natural Gas fired MCP Package boilers, each 10.9 MW _{th} , as detailed at the end of this table	From receipt of fuel to export of steam and emission of waste gases

Table S1.1 Activities

Activity Reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR2	2.1 A(1)(a) Roasting or sintering metal ore, including sulphide ore, or any mixture of iron ore with or without other materials	Sintering	Mothballed – activity may not be operated without permit variation to reflect modified activity. <i>Preparing iron ore, recycled iron oxides and associated raw materials to produce sinter</i>
AR3	2.1 A(1)(b) Producing, melting or refining iron or steel or any ferrous alloy, including continuous casting	Secondary Steelmaking (<i>Ruhrstahl-Heraeus Degasser</i> [RHD], <i>Composition Adjustment by Sealed Argon Bubbling</i> [CAS2]) 2 Continuous Casting machines (Caster 1 and Caster 3)	Mothballed – may not be operated without permit variation including updated technical description of revised A63 extraction configuration, RHD without preheating, and associated BAT assessments. Subsequent to variation, secondary steelmaking shall remain mothballed until notification accepted by NRW that these processes are ready for independent re-commissioning <i>Secondary steelmaking. Casting steel into slabs for sale or for further processing into rolled products</i>
AR4	2.1 A(1)(c) Processing ferrous metals and their alloys by using hot-rolling mills with a production capacity of more than 20 tonnes of crude steel per hour	Hot Rolling Mill	Rolling hot slabs into rolled products for sale or further processing.
AR5	2.1 A(1)(d) Loading, unloading or otherwise handling or storing more than 500,000 tonnes in total in any 12-month period of iron ore, except in the course of mining operations, or burnt pyrites	Iron ore storage and handling	Mothballed – activity may not be operated without permit variation to reflect modified activity. The receipt, storage and transfer of iron ore and associated raw materials (includes unloading)
AR6	2.3 A (1) (a) Surface treating metals and plastic materials using an electrolytic or chemical process where the aggregated volume of the treatment vats is more than 30m ³	Pickling line	Hydrochloric acid removal of ferrous oxide scale from hot rolled coil prior to cold rolling

Table S1.1 Activities

Activity Reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR7	5.3 A(1)(a) (ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment	Aqueous Effluent Treatment	Collecting, treating and separation of the aqueous effluent produced by the installation
AR8	3.5 B (b)(iii) Loading or unloading petroleum coke, coal, coke or any other coal product except unloading on a retail sale	Mineral activity	“Mothballed – activity may not be operated without permit variation to reflect new scope of modified activity, [which currently relates to sintering, other former steelmaking (cokemaking and BF etc), and potential future EAF steelmaking]”. <i>Loading/unloading coal and coke - receiving, storing and transferring coal and coke and associated raw materials</i>

Table S1.1 Activities

Activity Reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR9	5.4 A(1)(b)(iii) Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day involving the treatment of slags and ashes	HAA Waste Transfer Station with Treatment R13: Storage of waste pending any of the operations numbered R3 to R5 (excluding temporary storage, pending collection, on the site where the waste is produced) R3: Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes) R4: Recycling/reclamation of metals and metal compounds R5: Recycling/reclamation of other inorganic materials	From receipt of materials to despatch of products compliant with the relevant quality protocol. Treatment of listed wastes consisting only of sorting, separation, screening, crushing and blending of waste for recycling or recovery as aggregate. Secure storage of listed wastes pending treatment. Storage of all waste types at the HAA shall not exceed 300,000 tonnes in total at any one time. No more than 350,000 tonnes of waste shall be treated per year. Where disposal is required, this will be undertaken in accordance with Duty of Care and legal requirements. Wastes having any of the following characteristics shall not be accepted - Consisting solely of dusts, powders or loose fibres; and - Wastes that are in a form that is either sludge, slurry or liquid Waste types as specified in Table S2.3
Directly Associated Activity			
AR10	CAPL (continuous annealing plant)	Thermal treatment, annealing, of rolled products	Mothballed – activity may not be operated until written notification received and accepted by NRW from the operator, detailing the process being ready for re-commissioning.
AR11	Cold rolling	Further rolling of hot coil into lighter gauge cold rolled products for sale or further processing	

Table S1.1 Activities

Activity Reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR12	Storage of intermediate or waste products	Collecting, storing and transport of intermediate and waste products (e.g. reverts and waste oil)	
AR13	Refurbish casting assets	Removal of solidified steel from casting equipment using welding and burning torches	Local exhaust ventilation from the burning booth air extraction system. The extracted air will be cleaned in a bag filter before release.

Waste Operations

AR14	HAA Waste Transfer Station with Treatment (non-slags and ashes waste types as specified in Table S2.4).	Recovery or a mix of recovery and disposal of non-hazardous waste involving the treatment of wastes specified in Table S2.4 for recovery as a soil, soil substitute or aggregate. R13: Storage of waste pending any of the operations numbered R3 to R5 (excluding temporary storage, pending collection, on the site where the waste is produced) R3: Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes) R4: Recycling/reclamation of metals and metal compounds R5: Recycling/reclamation of other inorganic materials	From receipt of materials to despatch of products compliant with the relevant quality protocol. Treatment of listed wastes consisting only of sorting, separation, screening, crushing and blending of waste. Secure storage of listed wastes pending treatment. Storage of all waste types at the HAA shall not exceed 300,000 tonnes in total at any one time. No more than 350,000 tonnes of waste shall be treated per year. Where disposal is required, this will be undertaken in accordance with Duty of Care and legal requirements. Wastes having any of the following characteristics shall not be accepted - Consisting solely of dusts, powders or loose fibres; and - Wastes that are in a form that is either sludge, slurry or liquid Waste types as specified in Table S2.4
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Table S1.1 Activities

Activity Reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR15	Yard Zero	Waste processing activity involving treatment of iron-rich wastes specified in Table S2.5 for recycling within the steel making process.	From receipt of materials to despatch of pellets for recycling within the installation. Treatment of listed wastes consisting only of blending and pelletising the waste. Secure storage of listed wastes pending treatment. Storage of wastes at Yard Zero shall not exceed 25,000 tonnes in total at any one time. No more than 60,000 tonnes of waste shall be treated per year. Where disposal is required, this will be undertaken in accordance with Duty of Care and legal requirements. Non-hazardous waste types only Waste Types as specified in Table S2.5

Table S1.1 Activities

Activity Reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types	
Medium Combustion Plant				
National Grid Reference and or activity reference/ emission point	Activity listed in the EP Regulations	Description of Medium Combustion Plant and/or Specified Generator	Fuel	Limits of specified activity (including operational hours)
AR1.2 – Package Boiler M153 National Grid Ref. SS 7788 8656	Schedule 1, Part 2, Chapter 1 Section 1.1 Part A(1)a	1 x 10.9 MWth package boiler (Bosch UL-S 16000) (A71)	Natural gas	Hours not limited
AR1.2 – Package Boiler M160 National Grid Ref. SS 7788 8656	combustion plant >50MW AND Schedule 25A – Medium Combustion Plant as detailed in Schedule 8.	1 x 10.9 MWth package boiler (Bosch UL-S 16000) (A72)	Natural gas	Hours not limited

Table S3 Emissions points to air in Schedule 3 of Permit BL7108IM/V017 is modified as shown below (fully replacing the previous version), reflecting activities mothballed and surrendered. Rows shown as “permanently removed from permit” are no longer permitted, but are shown in this variation for traceability.

Table S3 Emission points to Air				
Emission point description	Source	Height (metres)	Location of emission point on the site plan of environmental release points (reference CAD-0000000000022)	Emission point status (V019) NOTE 1
Sinter plant main stack	Sinter Plant	133	A1	Mothballed
Sinter plant deduster stack	Sinter Plant	55	A2	Mothballed
Mixing and rolling drum stack	Sinter Plant	20	A3	Mothballed
~~Blast furnace 4 bell-less top~~	~~Blast Furnaces~~	~~88~~	~~A4~~	Permanently removed from permit
~~Blast furnace 4 bleeders~~	~~Blast Furnaces~~	~~88~~	~~A4A~~	Permanently removed from permit
~~Blast furnace 5 bell-less top~~	~~Blast Furnaces~~	~~84~~	~~A5~~	Permanently removed from permit
~~Blast furnace 5 bleeders~~	~~Blast Furnaces~~	~~84~~	~~A5A~~	Permanently removed from permit
~~Blast furnace 4 hot blast stoves stack~~	~~Blast Furnaces~~	~~74~~	~~A6~~	Permanently removed from permit
~~Blast furnace 5 hot blast stoves stack~~	~~Blast Furnaces~~	~~74~~	~~A7~~	Permanently removed from permit
~~BF4 casthouse fume extraction North~~	~~Blast Furnaces~~	~~32~~	~~A8A~~	Permanently removed from permit
~~BF4 casthouse fume extraction South~~	~~Blast Furnaces~~	~~32~~	~~A8B~~	Permanently removed from permit
~~BF5 casthouse fume extraction~~	~~Blast Furnaces~~	~~40~~	~~A9~~	Permanently removed from permit
~~Iron desulphurisation/hot metal pouring fume extraction plant stack~~	~~BOS Plant~~	~~29~~	~~A10~~	Permanently removed from permit
~~Hot metal Fume extraction Number 2~~	~~BOS Plant~~	~~44~~	~~A10A *~~	Permanently removed from permit

Table S3 Emission points to Air

Emission point description	Source	Height (metres)	Location of emission point on the site plan of environmental release points (reference CAD-0000000000022)	Emission point status (V019) NOTE 1
~~Lime plant dust extraction stack~~	BOS Plant	45	A11	Permanently removed from permit
~~BOS converter 1 primary gas cleaning stack~~	BOS Plant	70	A12 (Relocated)	Permanently removed from permit
~~BOS converter 2 primary gas cleaning stack~~	BOS Plant	70	A13 (Relocated)	Permanently removed from permit
~~Secondary fume extraction stack North~~	BOS Plant	20	A14	Permanently removed from permit
~~Secondary fume extraction stack Centre~~	BOS Plant	20	A15	Permanently removed from permit
~~Secondary fume extraction stack South~~	BOS Plant	20	A16	Permanently removed from permit
~~RH degasser stack~~	BOS Plant	33	A17	Permanently removed from permit
Ruhrstahl-Heraeus Degasser (RHD) stack	BOS Plant	51	A18	Mothballed
Cold Mill oil mist vent	Cold Mill	24	A19	No change V019
No release point has been allocated reference A20				No change V019
Pickle line scrubber fume extraction	Cold Mill	46	A21	No change V019
Stretch leveller fume extraction stack	Cold Mill	21	A23	No change V019
No release point has been allocated reference A29				No change V019
~~Ebnor furnace stack North~~	~~Cold Mill~~	34	A30	Permanently removed from permit
~~Blast furnace gas flare stack 1~~	~~Energy – Distribution~~	35	A33	Permanently removed from permit
Blast furnace gas Main no. 4 bleeder stack	Energy – Distribution	73	A33A	Permanently removed from permit

Table S3 Emission points to Air

Emission point description	Source	Height (metres)	Location of emission point on the site plan of environmental release points (reference CAD-0000000000022)	Emission point status (V019) NOTE 1
Blast furnace gas Main no. 5 bleeder stack	Energy – Distribution	73	A33B	Permanently removed from permit
Blast furnace gas flare stack 2	Energy – Distribution	54	A33C	Permanently removed from permit
Reheat furnace duct North	Hot Mill	120	A34A**	No change V019
Reheat furnace duct South	Hot Mill	120	A34B**	No change V019
Fluidised bed dryer 1 bag filter plant stack	Blast Furnaces	30	A37	Permanently removed from permit
Fluidised bed dryer 2 bag filter plant stack	Blast Furnaces	30	A38	Permanently removed from permit
Number 1 New Mill Stack (GCI)	Blast Furnaces	54	A39	Permanently removed from permit
No release points have been allocated reference A40 & A41				No change V019
Silo 4 filter vent A -	-	44	A42	Permanently removed from permit
Silo 4 filter vent B -	-	44	A43	Permanently removed from permit
Silo 5 filter vent	Blast Furnaces	44	A44	Permanently removed from permit
No release point has been allocated reference A45				No change V019
CAPL furnace stack	Cold Mill – CAPL	57	A46	Mothballed
CAPL scrubber stack	Cold Mill – CAPL	24	A47	Mothballed
CAPL temper mill fume extraction stack	Cold Mill – CAPL	20	A48	Mothballed
CAPL HNX vents	Cold Mill – CAPL	46	A49	Mothballed

Table S3 Emission points to Air

Emission point description	Source	Height (metres)	Location of emission point on the site plan of environmental release points (reference CAD-0000000000022)	Emission point status (V019) NOTE 1
Service boilers 4&5 stack	Energy—Generation	68	A50	Permanently removed from permit
Boiler 5 (Margam A) stack	Energy—Generation	32	A51	Permanently removed from permit
Boiler 6 (Margam C) stack	Energy—Generation	121	A52A	Permanently removed from permit
Boiler 7 (Margam C) stack	Energy—Generation	121	A52B	Permanently removed from permit
Mitchell boiler (Margam B) stack	Energy—Generation	37	A53	Permanently removed from permit
Morfa Coke oven batteries	Coke Ovens	15	A54	Permanently removed from permit
Morfa main stack	Coke Ovens	127	A55	Permanently removed from permit
Ministerstein (3 flues)	Coke Ovens	20	A56	Permanently removed from permit
Ammonia incinerator	Coke Ovens	50	A57	Permanently removed from permit
Secondary coal crusher stack	Coke Ovens	11	A58	Permanently removed from permit
Coke oven gas triple flare stack	Coke Ovens	65	A59	Permanently removed from permit
Quench tower (old)	Coke Ovens	35	A60A	Permanently removed from permit
Quench tower (new)	Coke Ovens	40	A60B	Permanently removed from permit
Collecting main bleeders	Coke Ovens	30	A61	Permanently removed from permit

Table S3 Emission points to Air				
Emission point description	Source	Height (metres)	Location of emission point on the site plan of environmental release points (reference CAD-0000000000022)	Emission point status (V019) NOTE 1
Boiler 3	Energy Generation	33	A62 (SS 7698 8847)	Permanently removed from permit
CAS2 /Desulph fume extraction plant	BOS plant	54	A63 *	Emission point mothballed –Steel desulph is permanently removed from permit; any future use for CAS2 only (or other purpose) is subject to technical assessment via permit application, description of technical suitability and BAT conformance after extraction/abatement modification.
Concaster steam vents	Continuous Casting	-	A64 C&D	Permanently removed from permit (relate to caster 2)
Concaster steam vents	Continuous Casting	-	A64 Caster vents 1.1 and Caster 1.2 A64 Caster vents 3.1 and Caster 3.2	Mothballed (Caster 1 and 3) – naming regularised to indicate which emission points relate to which casters
Blast furnace 4 ferrous stock house filter plant stack	Blast furnaces	-	A65**	Permanently removed from permit
BOS OG heat recovery – Super Heater	Energy Generation	26	A66**	Permanently removed from permit
Coke oven gas flare stack	Coke Ovens	50	A67**	Permanently removed from permit
Boiler 8 stack	Energy Generation	80	A68	Permanently removed from permit
Boiler 9 stack	Energy Generation	80	A69	Permanently removed from permit

Table S3 Emission points to Air

Emission point description	Source	Height (metres)	Location of emission point on the site plan of environmental release points (reference CAD-0000000000022)	Emission point status (V019) NOTE 1
Burning Booth fume extraction plant stack	Burning booth within the Steel Plant	7.5	A70	No change V019
Medium Combustion Plant: Package Boiler M153	Utility steam boiler	8.4	A71 with NGR as given in Table S1.1	Added at variation V019
Medium Combustion Plant: Package Boiler M160	Utility steam boiler	8.4	A72 with NGR as given in Table S1.1	Added at variation V019
Area, volume or non point source releases				
Iron ore stock yards	Sinter Plant	0 – circa 10		Mothballed
Coal stock yards	Coke Ovens	0 – circa 20		Mothballed
Sinter raw blending beds	Sinter Plant	0 – circa 23		Mothballed
Rubble and pellet blending beds	Sinter Plant	0 – circa 23		Mothballed
Sinter stock pile	Sinter Plant	0 – circa 23		Mothballed
Lump ore screening plant	Sinter plant			Mothballed
Blast furnace stock house (Hiline ferrous) furnace 4	Blast furnaces			Permanently removed from permit
Blast furnace stock house (Hiline ferrous; furnace 5)	Blast furnaces			Permanently removed from permit
Blast furnace stock house (Hiline coke) furnace 4	Blast furnaces			Permanently removed from permit
Blast furnace stock house (Hiline coke; furnace 5)	Blast furnaces			Permanently removed from permit
Blast furnace 4 Cyclone	Blast furnaces			Permanently removed from permit
Blast furnace 5 dust catcher	Blast furnaces			Permanently removed from permit

Table S3 Emission points to Air

Emission point description	Source	Height (metres)	Location of emission point on the site plan of environmental release points (reference CAD-0000000000022)	Emission point status (V019) NOTE 1
~~Benzole storage~~	~~Coke Ovens~~			Permanently removed from permit
~~Coke ovens effluent treatments~~	~~Coke Ovens~~			Permanently removed from permit
NOTE 1 – Where emission points are noted as “permanently removed” then subsequent requirements noted in the permit (e.g. reporting) cease to apply. Any proposed re-use / re-purposing within future operations is subject to permit application and BAT assessment. Where emission points are noted as “mothballed” then subsequent requirements noted in the permit (e.g. reporting) are suspended.				
* - as shown on diagram 3526.00.00.29.005				
** - as shown in Figure 3 in Schedule 4 of EPR/BL7108IM/V012				

Table S3.7 Energy generation point source emissions to air in Schedule 3 of Permit BL7108IM/V017 is modified as shown below (fully replacing the previous version), reflecting LCP generation activities surrendered and no longer included, and added MCP activities newly permitted.

Table S3.7 Energy generation and utility point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
A71	MCP boiler M153 combusting natural gas	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	100mg/Nm ³	Average of three consecutive measurements of at least 30 minutes each)	Annually	MCERTS BS EN 14792
		Carbon Monoxide	No limit set ^{NOTE1}	Average of three consecutive measurements of at least 30 minutes each	Annually	MCERTS BS EN 15058

Table S3.7 Energy generation and utility point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
A72	MCP boiler M160 combusting natural gas	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	100mg/Nm3	Average of three consecutive measurements of at least 30 minutes each	Annually	MCERTS BS EN 14792
		Carbon Monoxide	No limit set ^{NOTE1}	Average of three consecutive measurements of at least 30 minutes each	Annually	MCERTS BS EN 15058
NOTE 1: No ELV is applied to CO. As an indication, the CO emission level will generally be less than 150 mg/Nm ³						

Table S3.8 Point Source emissions to water in Schedule 3 of Permit BL7108IM/V017 is modified as shown below (fully replacing the previous version), reflecting activities mothballed and surrendered. Strikeout rows are no longer permitted, but are shown in this variation for traceability. Any future re-use of emission point numbers is subject to documentation in future permit variation determinations.

Table S3.8 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference Period or as agreed with NRW	Monitoring frequency	Monitoring standard or method
W1	Suspended Solids	Long sea outfall	150 mg/l ^{Note 1}	24 hour composite sample / qualified random sample	Weekly	BS EN 872
	Chemical Oxygen Demand		220 mg/l			BS 6068-2
	BOD		20 mg/l			BS EN 1899-1
	Sulphides		0.1 mg/l			Ref: 228 (Blue Book)

Table S3.8 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference Period or as agreed with NRW	Monitoring frequency	Monitoring standard or method
	Thiocyanate		4 mg/l			BS EN ISO 10304-3
	Cyanide		0.1 mg/l			BS 6068-2.18
	PAH (See Schedule 6 for interpretation)		0.05 mg/l			BS EN ISO 17993
	phenols		0.5 mg/l			BS 6068-2
	sum of ammonia-nitrogen, Nitrate and Nitrite		50 mg/l			BS EN ISO 11732
	Iron		5 mg/l			BS EN ISO 15586: 2003
	Lead		0.5 mg/l			BS 6068-2.29
	Zinc		2 mg/l			BS 6068-2.29
	Nickel		0.5 mg/l			BS 6068-2.29
	Total Chromium		0.5 mg/l			BS EN 1233
	Total hydrocarbons		5 mg/l			BS EN ISO 15680
	Total volume of discharge		6000m ³ /hour	Instantaneous	Continuous	Flow meter
W2	Suspended Solids	Site run off and treated site effluent into Arnallt Culvert	-	-	-	-
	Oil and grease		-	-	-	-
	Flow		-	-	-	-
	Temperature		-	-	-	-
W3	Suspended Solids	River Arnallt and floodwater surface drainage via Abbey Beach outfall	200 mg/l	24 hour average from beginning of discharge	Weekly	BS EN 872

Table S3.8 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference Period or as agreed with NRW	Monitoring frequency	Monitoring standard or method
	Oil and grease		20 mg/l	24 hour average from beginning of discharge	Weekly	SCA Blue Book 77 ISBN0117517283
	Flow		-	-	-	-
	Temperature		-	-	-	-
W4	pH	Iron Ore Stockyard into Afan Estuary	No Limit Set	Spot Sample	Monthly if flow detected	BS ISO10523
	Suspended Solids			BS EN 872		
	Total Iron			BS EN ISO 15586 2003		
	Soluble Iron			BS EN ISO 15586 2003		
	Oil and grease			Visible Check		-
~~W5~~	~~Cooling Water discharge into Port Talbot Dock~~					Emission point permanently removed from permit
~~W6~~ Note 3	~~Coke Ovens~~					Emission point permanently removed from permit
~~W7~~ Note 3	~~Blast furnace~~					Emission point permanently removed from permit

Table S3.8 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference Period or as agreed with NRW	Monitoring frequency	Monitoring standard or method
W8 Note 3		Basic Oxygen Steelmaking and casting area – clean uncontaminated surface water discharge only	No limit set	No monitoring specified	-	Process activity Mothballed, discharge of surface water only is consented. Limits and monitoring to be reviewed against relevant technical standards and BAT prior to any recommencement of process discharge (e.g. upon recommencement of steel melting at the installation.

Note 1: See Annex to Conditions – Derogation under Industrial Emissions Directive

~~Note 2: Shall not exceed the background concentration by the figure indicated~~

Note 3: The operator shall only apply the limits set for W6, W7 and W8 when the limits at W1 have not been applied.

Table S4.1 Reporting of monitoring data is amended to include the requirement to report on the monitoring of A71 and A72 every 12 months, period beginning 1st January.

Variation Notice Schedule 3 – conditions to be added

The following conditions are added as a result of the application made by the operator:

Medium Combustion Plant Conditions:

- 2.3.9 For the following activities referenced in schedule 1, table S1.1 (AR1.2) the activities shall be operated using the techniques and, in the manner, described in schedule 1, table S1.2A.
- 3.5.5. For the following activities referenced in schedule 1, table S1.1 (AR1.2), monitoring shall not take place during periods of start up or shut down.
- 3.5.6. For the following activities referenced in schedule 1, table S1.1 (AR1.2), the operator shall maintain records of all monitoring including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, test and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.7. For the following activities referenced in schedule 1, table S1.1 (AR1.2), the first monitoring measurements shall be carried out
 - (a) For new MCP within four months of the issue date of the permit or the date when the MCP is first put into operation, whichever is later;
- 4.1.3 For the following activities referenced in schedule 1, table S1.1 (AR1.2), the operator shall maintain a record of the type and quantity of fuel used and the total annual hours of operation for each MCP and/or Specified Generator.
- 4.1.4 For the following activities referenced in schedule 1, table S1.1 (AR1.2), the operator shall maintain a record of any events of non-compliance and the measures taken to ensure compliance is restored in the shortest possible time.

The following table is added to BL7108IM existing Schedule 1 below existing Table S1.2 (Operating techniques):

Table S1.2A Operating techniques for Medium Combustion Plant as detailed in Schedule 8**Description**

Each MCP must be operated in accordance with the manufacturer's instructions and records must be made and retained to demonstrate this

The operator must keep periods of start-up and shut-down of each MCP as short as possible

There must be no persistent emission of 'dark smoke' as defined in section 3(1) of the Clean Air Act 1993

The following are added to BL7108IM existing Schedule 6 – Interpretation:

“Medium Combustion Plant” or “MCP” means a combustion plant with a rated thermal input equal to or greater than 1 MW but less than 50 MW.

“Medium Combustion Plant Directive” or “MCPD” means Directive 2015/2193/EU of the European Parliament and of the Council on the limitation of emissions of certain pollutants into the air from medium combustion plants.

“new MCP” means an MCP first put into operation on or after 20/12/2018.

In relation to MCP, “operating hours” means the time, expressed in hours, during which a combustion plant is operating and discharging emissions into the air, excluding start-up and shut-down periods.

The following additional schedule is added to permit BL7108IM:

[Permit BL7108IM] Schedule 8 – Annex 1 of MCPD

1. Rated thermal input (MW) of the medium combustion plant.	2 x 10.9 MW _{th}
2. Type of the medium combustion plant (diesel engine, gas turbine, dual fuel engine, other engine or other medium combustion plant).	Other medium combustion plant (<i>steam package boiler Bosch UL-S 16000</i>)
3. Type and share of fuels used according to the fuel categories laid down in Annex II.	Natural Gas
4. Date of the start of the operation of the medium combustion plant or, where the exact date of the start of the operation is unknown, proof of the fact that the operation started before 20 December 2018.	June 2024
5. Sector of activity of the medium combustion plant or the facility in which it is applied (NACE code).	24.10 - Manufacture of basic iron and steel and of ferro-alloys
6. Expected number of annual operating hours of the medium	8,760 hours, 73% load in use

combustion plant and average load in use.	
7. Where the option of exemption under Article 6(3) or Article 6(8) is used, a declaration signed by the operator that the medium combustion plant will not be operated more than the number of hours referred to in those paragraphs.	Not Applicable
8. Name and registered office of the operator and, in the case of stationary medium combustion plants, the address where the plant is located.	Registered office: 18 Grosvenor Place London England SW1X 7HS Plant Location: Port Talbot Steelworks Port Talbot Neath Port Talbot SA13 2NG

END of Schedules