

# Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2010

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TATA Steel UK Ltd

TATA Steel Strip Products UK  
Llanwern Works  
Newport  
NP19 4QZ

Variation application number  
EPR/BS3905IP/V004

Permit number  
EPR/BS3905IP

# **TATA Steel Strip Products UK**

## **Permit number EPR/BS3905IP**

### **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 is to include:

- changes made to the Zodiac galvanizing line to increase capacity, comprising additional radiant tube heater units (fired by low NO<sub>x</sub> burner units using natural gas fuel) which result in increased NO<sub>x</sub> emissions;
- an increase in the emissions limit value for hydrogen chloride emissions from the pickling lines emissions points, in keeping with the Sector Guidance Note benchmark emissions;
- removal of arsenic, cyanide, phenol and benzene as parameters which are monitored and reported in discharges from emission point W1, as the original sources of these pollutants have now been removed from the site;
- an increase in suspended sediment emission limits to the Severn Estuary from 50 mg/l to 100 mg/l, as the majority of the sediment load in the site effluent is already contained in the natural sediment load in surface waters entering the site drainage system.

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 the permit                                     |   |  |
|--|---|--|
| Detail   | Date  | Comments   |
| Application BS3905   | Received 31/07/02 & 10/01/03                    |  |
| Response to request for information                          | Request dated 9/08/02<br>Request dated 18/10/02 | Response dated 5/09/02<br>Response dated 10/01/03 & 17/06/03 |
| Request to extend determination                              | Requested 1/12/03                               | Response dated 08/12/03                                      |
| Request to extend determination                              | Requested 27/01/04                              | Response dated 29/01/04                                      |
| Request to extend determination                              | Requested 2/03/04                               | Response dated 4/03/04                                       |
| Permit BS3905  | Determined 18/03/04                             |  |
| Application EA/EPR/BS3905IP/V002                             | Duly made 20/11/08                              | Response dated 17/02/09                                      |
| Additional Information Received                              | 17/11/08, 28/01/09, 6/3/09, 17/03/09, 06/8/09   | 28/01/09, 1/02/09, 17/03/09, 21/10/09                        |
| Variation EA/EPR/BS3905IP/V002                               | 26/10/09  |  |
| Received notification of change of company name              | 06/10/10  |  |
| Issue of updated permit pages to show change of company name | 19/10/10  |  |
| Application EPR/BS3905IP/S003                                | 14/12/12  | Duly made date   |
| Additional information received                              | 23/01/13  | Revised site plan  |
| Partial Surrender Notice EPR/BS3905IP/S003 issued            | 05/02/13  |  |
| Variation Application EPR/BS3905IP/V004                      | 10/04/13  | Duly made date   |
| Variation Notice EPR/BS3905IP/V004 issued                    | 13/05/13  |  |

| Other Part A installation permits relating to this installation |               |               |
|---|---------------|---------------|
| Operator  | Permit number | Date of issue |
| Tata Steel UK Limited – South Side Queensway Landfill           | GP3331SV      | 14/08/2007    |

End of introductory note

## Notice of variation

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

**Permit number**  
**EPR/BS3905IP**

**issued to:**  
**TATA Steel UK Ltd** ("the operator")

whose registered office is

**30 Millbank**  
**London**  
**SW1P 4WY**

company registration number 2280000

to operate a regulated facility at

**TATA Steel Strip Products UK**  
**Llanwern Works**  
**Newport**  
**NP19 4QZ**

to the extent set out in the schedules.

The notice shall take effect from 13/05/2013

Name

Date

|                         |                   |
|-------------------------|-------------------|
| <b>Eirian Macdonald</b> | <b>13/05/2013</b> |
|-------------------------|-------------------|

Authorised on behalf of Natural Resources Wales

## Schedule 1 – conditions to be deleted

None

## Schedule 2 – conditions to be amended

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

Table 1.1.1 of the permit EPR/BS3905IP/V002, as it relates to condition 1.1.1 of the permit BS3905IP, shall be amended to:

| <b>Table 1.1.1</b>   |   |   |
|--|---|---|
| <b>Activity under Schedule 1 of the Regulations/<br/>Associated Activity</b>   | <b>Description of specified activity</b>  | <b>Limits of<br/>specified<br/>activity</b> |
| 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.<br>[Schedule 1 Activity – Chapter 2, Section 2.1, Part A(1)(c)]   | Hot Strip Mill  | (1)   |
| Burning any fuel in an appliance with a rated thermal input of 50 megawatts or more.<br>[Schedule 1 Activity – Chapter 1, Section 1.1, Part A(1)(a)]   | 140 MWth Slab Reheat Furnace No 1<br>140 MWth Slab Reheat Furnace No 2<br>140 MWth Slab Reheat Furnace No 3<br>140MWth Slab Reheat Furnace No 4<br>140 MWth Slab Reheat Furnace No 5            | (1)   |
| Burning any fuel in an appliance with a rated thermal input of 50 megawatts or more.<br>[Schedule 1 Activity – Chapter 1, Section 1.1, Part A(1)(a)]   | 19.5 MWth Natural gas-fired boiler No 1<br>19.5 MWth Natural gas-fired boiler No 2<br>19.5 MWth Natural gas-fired boiler No 3   | (1)   |
| Surface treating metals and plastic materials using an electrolytic or chemical process where the aggregated volume of the treatment vats is more than 30 m <sup>3</sup> and where the activity is carried out at the same installation as one or more activities falling within – Part A(2) of Section 2.1<br>[Schedule 1 Activity – Chapter 2, Section 2.3, Part A(2)] | Pickle lines 1 & 2  | (1)   |
| Applying protective fused metal coatings with an input of more than 2 tonnes of crude steel per hour.<br>[Schedule 1 Activity – Chapter 2, Section 2.1, Part A(2)(c)]  | ZODIAC Hot Dip Galvanising Line, including precleaner, radiant furnace and direct fired furnace (combined rating 22.2MW), chromate treatments, Meibach Welder and Zinc recovery unit (Zinkoff). | (1)   |
| Directly associated activity   | Slab unloading, storage and transfer to the furnaces.   | (1)   |
| Directly associated activity   | Packing and despatch areas  | (1)   |
| Directly associated activity   | Cold Reduction Mill   | (1)   |
| Directly associated activity   | Water treatment plant   | (1)   |
| Directly associated activity   | Pickle line effluent treatment plant  | (1)   |
| Directly associated activity   | Hot Mill Sludge filter press plant  | (1)   |

### Note

(1) The limits of specified and associated activities collectively comprise all activities carried out in the installation between the receipt of raw materials to the supply of finished products

Table 2.3.1 of the permit EPR/BS3905IP/V002, as it relates to condition 2.3.1 of the permit BS3905IP, shall be amended to:

| Table 2.3.1: Operating techniques       |  |                  |
|---|--|------------------|
| Description                             | Parts  | Date Received    |
| Application                             | The response to question B2.3 given in Section B2.3 of the application | 31/7/02          |
| Response to Schedule 4 Part 1 Notice    | Response to question B2.3  | 13/01/03         |
| Variation Application                   | Application overview document, letter dated 6/8/09                     | 20/11/08, 6/8/09 |
| Variation Application EPR/BS3905IP/V004 | Variation Application Overview Document                                | 10/04/13         |

Table 6.1.2 of the permit EPR/BS3905IP/V002, as it relates to conditions 6.1.2 and 6.1.3 of the permit BS3905IP, shall be amended to:

| Table 6.1.2: Emission limits into air |   |  |                         |   |                                       |                               |
|---------------------------------------|---|--|-------------------------|---|---------------------------------------|-------------------------------|
| Emission point                        | Source                                      | Parameters                                     |                         |   |                                       |                               |
|                                       |   | Monitoring frequency <sup>1</sup>              |                         |   |                                       |                               |
|                                       |   | NOx (as NO <sub>2</sub> )<br>mg/m <sup>3</sup> | CO<br>mg/m <sup>3</sup> | Hydrogen<br>chloride<br>mg/m <sup>3</sup> | Particulates<br>(PM)mg/m <sup>3</sup> | Oil mist<br>mg/m <sup>3</sup> |
| A1                                    | Slab reheat furnace No 1                    | 400  | -                       | -   | -                                     | -                             |
| A2                                    | Slab reheat furnace No 2                    | 400  | -                       | -   | -                                     | -                             |
| A3                                    | Slab reheat furnace No 3                    | 400  | -                       | -   | -                                     | -                             |
| A4                                    | Slab reheat furnace No 4                    | 400  | -                       | -   | -                                     | -                             |
| A5                                    | Slab reheat furnace No 5                    | 400  | -                       | -   | -                                     | -                             |
| A6                                    | Pickle line stack No 1                      | -  | -                       | 10  | -                                     | -                             |
| A7                                    | Pickle line stack No 2                      | -  | -                       | 10  | -                                     | -                             |
| A8                                    | Pickle line roof extraction <sup>(2)</sup>  | -  | -                       | 5   | -                                     | -                             |
| A9                                    | Cold Mill oil mist vent <sup>(2)</sup>      | -  | -                       | -   | -                                     | 15                            |
| A10                                   | Zodiac precleaner stack <sup>(2)</sup>      | -  | -                       | -   | 5                                     | -                             |
| A11                                   | Zodiac heat treatment stack                 | 350  | -                       | -   | -                                     | -                             |
| A12                                   | Zodiac chromate stack <sup>(2)</sup>        | -  | -                       | -   | 5                                     | -                             |
| A13                                   | Meibach welder <sup>(2)</sup>               | -  | -                       | -   | 5                                     | -                             |
| A14                                   | Package boiler No 1 <sup>(3)</sup>          | 140 on natural<br>gas<br>200 on gas oil        | -                       | -   | 50 on gas oil                         | -                             |
| A15                                   | Package boiler No 2 <sup>(3)</sup>          |  |                         | -   |                                       | -                             |
| A16                                   | Package boiler No 3 <sup>(3)</sup>          |  |                         | -   |                                       | -                             |
| A17                                   | Pickle line scalemaster unit <sup>(2)</sup> | -  | -                       | -   | 5                                     | -                             |

Notes :

1. All release points to be monitored at least quarterly with at least 4 weeks between tests unless indicated otherwise.
2. Annual monitoring.
3. 6 monthly monitoring

Table 6.3.3 of the permit EPR/BS3905IP/V002, as it relates to condition 6.3.3 of the permit BS3905IP, shall be amended to:

| Table 6.3.3: Emission limits into water     |  |                      |
|---|--|----------------------|
| Parameter                                   | Emission Point W1                        | Monitoring Frequency |
| Flow rate                                   | 28 000 m <sup>3</sup> /day (dry weather) |                      |
| pH min                                      | 6  | Continuous           |
| pH max                                      | 12                                       |                      |
| Surface oil                                 | None specified                           |                      |
| Total hydrocarbon oil <sup>(3)</sup>        | 5 mg/l                                   | Weekly average       |
| Suspended solids <sup>(1) (2) (3) (4)</sup> | 100 mg/l                                 |                      |
| Dissolved iron <sup>(1) (3)</sup>           | 10 mg/l                                  |                      |
| Total chromium <sup>(1) (3)</sup>           | 0.2 mg/l                                 |                      |
| Dissolved nickel <sup>(1) (3)</sup>         | 0.2 mg/l                                 |                      |
| Zinc <sup>(1) (3)</sup>                     | 2 mg/l                                   |                      |
| Copper <sup>(1) (3)</sup>                   | 0.1mg/l                                  |                      |
| Lead <sup>(1) (3)</sup>                     | 0.8 mg/l                                 |                      |
| Cadium <sup>(1) (3)</sup>                   | 0.05mg/l                                 |                      |
| Mercury <sup>(1) (3)</sup>                  | 0.05mg/l                                 |                      |
| Ammoniacal nitrogen                         | None specified                           | Monthly              |

Notes:

1. Any representative spot sample.
2. The solids shall be separated and dried at 105°C.
3. Limit shall be complied with if 95% of all weekly representative spot samples during a rolling half year period do not exceed the limit value given in Table 6.3.3 and the peak spot sample value does not exceed 1.5 times the limit value.

Table 9.1.1 of the permit EPR/BS3905IP/V002, as it relates to condition 9 of the permit BS3905IP, shall be amended to:

| Table 9.1.1: Improvement programme requirements |   |                     |
|---|---|---------------------|
| Reference                                       | Requirement   | Date <sup>(1)</sup> |
| 9.17  | The Operator shall propose a programme of monitoring process effluents discharged to drains 6-8 and monitoring background water quality in waters upstream of process effluent discharges. The monitoring locations, parameters modelled and reporting arrangements are to be agreed in writing with Natural Resources Wales. | 13/08/13            |

Note 1. Or as otherwise agreed in writing by Natural Resources Wales.

Table S2 of the permit EPR/BS3905IP/V002, as it relates to condition 1.1.1 of the permit BS3905IP, shall be amended to:

| <b>Table S2: Reporting of monitoring data</b>   |                          |                         |                      |
|---|--------------------------|-------------------------|----------------------|
| <b>Parameter</b>  | <b>Emission point</b>    | <b>Reporting period</b> | <b>Period begins</b> |
| Particulate<br>mg/m <sup>3</sup>  | A10, A12<br>A13, A17     | Every 12 months         | 01/01/10             |
| Particulate<br>mg/m <sup>3</sup>  | A14, A15, A16            | Every 6 months          | 01/01/10             |
| Oxides of nitrogen<br>(as NO <sub>2</sub> ) mg/m <sup>3</sup>   | A1, A2, A3, A4, A5, A11, | Every 3 months          | 01/01/10             |
| Oxides of nitrogen<br>(as NO <sub>2</sub> ) mg/m <sup>3</sup>   | A14, A15, A16            | Every 6 months          | 01/01/10             |
| Carbon monoxide<br>mg/m <sup>3</sup>  | A1, A2, A3, A4, A5, A11, | Every 3 months          | 01/01/10             |
| Carbon monoxide<br>mg/m <sup>3</sup>  | A14, A15, A16            | Every 6 months          | 01/01/10             |
| Hydrogen chloride<br>mg/m <sup>3</sup>  | A6, A7                   | Every 3 months          | 01/01/04             |
|   | A8                       | Every 12 months         |                      |
| Oil mist<br>mg/m <sup>3</sup>   | A9                       | Every 12 months         | 01/01/04             |
| Metals <sup>(1)</sup><br>mg/m <sup>3</sup>  | W1                       | Every 3 months          | 01/01/04             |
| pH  | W1                       | Every 3 months          | 01/01/04             |
| Suspended solids<br>mg/l  | W1                       | Every 3 months          | 01/01/04             |
| Total hydrocarbon oil mg/l  | W1                       | Every 3 months          | 01/01/04             |
| Maximum flow m3/day   | W1                       | Every 3 months          | 01/01/04             |
| Ammoniacal nitrogen   | W1                       | Every 3 months          | 01/01/04             |
| Gas oil sulphur content,<br>%w/w  |                          | Every 3 months          | 01/01/04             |
| Energy  |                          | Every 12 months         | 01/01/04             |
| Waste   |                          | Every 12 months         | 01/01/04             |
| Total annual oxides of<br>nitrogen (T)  | A14, A15, A16            | Annually                | 01/01/10             |
| Total annual oxides of<br>sulphur (T) (expressed as<br>SO <sub>2</sub> )  | A14, A15, A16            | Annually                | 01/01/10             |
| Total annual dust emission<br>(T) (expressed as total<br>suspended particulates)  | A14, A15, A16            | Annually                | 01/01/10             |
| <b>Notes</b><br>1. Metals means elements and compounds expressed as the metal and includes Cd, Cr, Cu, Hg, Ni, Pb, Zn, Fe, Pb |                          |                         |                      |

### **Schedule 3 – conditions to be added**

None