

Form A1/1

| Reporting of Emissions to Air for the period from 01/04/2023 to 30/06/2023 |                       |                      |                 |                                                    |                       |                               |                          |     |
|----------------------------------------------------------------------------|-----------------------|----------------------|-----------------|----------------------------------------------------|-----------------------|-------------------------------|--------------------------|-----|
| Emission Point                                                             | Substance / Parameter | Emission Limit Value | Result (mg/Nm3) | Test Method                                        | Sample Date and Times | Accreditation / Certification | Uncertainty (+/- mg/Nm3) |     |
| A1<br><br>SRF No1                                                          | NOx (as NO2)          | 400 mg/m3            | Nil*            | Electrochemical Cell -<br>BSEN15058 &<br>BSEN14792 | ---                   | Level 2 Mcerts                | ---                      |     |
|                                                                            | CO                    | None                 | Nil*            |                                                    |                       |                               | ---                      |     |
| A2<br><br>SRF No2                                                          | NOx (as NO2)          | 400 mg/m3            | Nil*            |                                                    | ---                   |                               | ---                      | --- |
|                                                                            | CO                    | None                 | Nil*            |                                                    |                       |                               |                          | --- |
| A3<br><br>SRF No3                                                          | NOx (as NO2)          | 400 mg/m3            | Nil*            |                                                    | ---                   |                               | ---                      | --- |
|                                                                            | CO                    | None                 | Nil*            |                                                    |                       |                               |                          | --- |
| A4<br><br>SRF No4                                                          | NOx (as NO2)          | 400 mg/m3            | Nil*            |                                                    | ---                   |                               | ---                      | --- |
|                                                                            | CO                    | None                 | Nil*            |                                                    |                       |                               |                          | --- |
| A5<br><br>SRF No5                                                          | NOx (as NO2)          | 400 mg/m3            | Nil*            |                                                    | ---                   |                               | ---                      | --- |
|                                                                            | CO                    | None                 | Nil*            |                                                    |                       |                               |                          | --- |
| None                                                                       | Gas oil sulphur       | 0.2 w/w              | Nil*            | ---                                                | ---                   | ---                           | ---                      |     |

\*- Emission points not in use during mothball of Hot Mill

Signed: 

Date: 21/07/2023

**Permit Reference:** BS 3905IP  
**Operator:** Tata Steel UK  
**Installation:** Llanwern SteelWorks

Form A1/2

FORM A/2

| Reporting of Emissions to Air for the period from 01/04/2023 to 30/06/2023 |                       |              |                      |                 |                                                    |                           |                               |                          |
|----------------------------------------------------------------------------|-----------------------|--------------|----------------------|-----------------|----------------------------------------------------|---------------------------|-------------------------------|--------------------------|
| Emission Point                                                             | Substance / Parameter |              | Emission Limit Value | Result (mg/Nm3) | Test Method                                        | Sample Date and Times     | Accreditation / Certification | Uncertainty (+/- mg/Nm3) |
| A11<br><br>Zodiac Furnace                                                  | NOx (as NO2)          |              | 350 mg/m3            | 100.3           | Electrochemical Cell -<br>BSEN15058 &<br>BSEN14792 | 06.04.2023<br>11:15-13:11 |                               | 6.0                      |
|                                                                            | CO                    |              | None                 | 22              |                                                    |                           |                               | 0.7                      |
| A14<br><br>Boiler No1                                                      | Gas Oil               | NOx (as NO2) | 200 mg/m3            | Nil**           |                                                    | ---                       |                               | ---                      |
|                                                                            |                       | CO           | None                 | Nil**           |                                                    |                           |                               | ---                      |
|                                                                            | Natural Gas           | NOx (as NO2) | 140 mg/m3            | 103.6           |                                                    | 16.05.2023<br>13:16-13:55 |                               | 8.0                      |
|                                                                            |                       | CO           | None                 | 0               |                                                    |                           |                               | 0.4                      |
| A15<br><br>Boiler No2                                                      | Gas Oil               | NOx (as NO2) | 200 mg/m3            | Nil**           |                                                    | ---                       |                               | ---                      |
|                                                                            |                       | CO           | None                 | Nil**           |                                                    |                           |                               | ---                      |
|                                                                            | Natural Gas           | NOx (as NO2) | 140 mg/m3            | Nil *           |                                                    | ---                       |                               | ---                      |
|                                                                            |                       | CO           | None                 | Nil *           |                                                    |                           |                               | ---                      |
| A16<br><br>Boiler No3                                                      | Gas Oil               | NOx (as NO2) | 200 mg/m3            | Nil**           |                                                    | ---                       |                               | ---                      |
|                                                                            |                       | CO           | None                 | Nil**           |                                                    |                           |                               | ---                      |
|                                                                            | Natural Gas           | NOx (as NO2) | 140 mg/m3            | 104.2           |                                                    | 16.05.2023<br>13:48-14.03 |                               | 8.0                      |
|                                                                            |                       | CO           | None                 | 0               |                                                    |                           |                               | 0.6                      |

\*Non operational  
 \*\* - Gas Oil not in use

Signed: 

Date: 21/07/2023

**Permit Reference:** BS 3905IP  
**Operator:** Tata Steel UK  
**Installation:** Llanwern SteelWorks

Form A1/3

| Reporting of Emissions to Air for the period from 01/04/2023 to 30/06/2023 |                       |                      |                 |             |                           |                               |                          |
|----------------------------------------------------------------------------|-----------------------|----------------------|-----------------|-------------|---------------------------|-------------------------------|--------------------------|
| Emission Point                                                             | Substance / Parameter | Emission Limit Value | Result (mg/Nm3) | Test Method | Sample Date and Times     | Accreditation / Certification | Uncertainty (+/- mg/Nm3) |
| A6<br>Pickle Line No1                                                      | HCl                   | 10 mg/m3             | Nil*            | BS EN 1911  | ---                       | Level 2 Mcerts                | ---                      |
| A7<br>Pickle Line No2                                                      | HCl                   | 10 mg/m3             | 0.37            |             | 16.05.2023<br>12:01-13:57 |                               | 0.13                     |
| A8<br>Pickle Line Roof Vent                                                | HCl                   | 5 mg/m3              | Nil*            |             |                           |                               |                          |
| A9<br>Cold Mill Oil Mist Vent                                              | Oil mist              | 15 mg/m3             | Nil**           |             |                           |                               |                          |
| A10<br>Zodiac Cleaner                                                      | Particulate matter    | 5 mg/m3              | 0.7             | BS EN 13284 | 06.04.2023<br>11:30-13:55 | Level 2 Mcerts                | 0.4                      |
| A12<br>Zodiac Chromate                                                     | Particulate matter    | 5 mg/m3              | Nil*            |             | ---                       |                               | --                       |
| A13<br>Welder Stack                                                        | Particulate matter    | 5 mg/m3              | Nil***          |             | ---                       |                               | ---                      |
| A17<br>Pickle Line Scalemaster                                             | Particulate matter    | 5 mg/m3              | Nil****         |             |                           |                               |                          |

\*Non operational  
 \*\*Not measurable  
 \*\*\*Due to be completed as part of Annual suite of analysis  
 \*\*\*\* Completed in Q1

Signed: 

Date: 21/07/2023

Form W1

| Reporting of Emissions to Water for the period from 01/04/2023 to 30/06/2023 |                                         |             |              |
|------------------------------------------------------------------------------|-----------------------------------------|-------------|--------------|
| Parameter                                                                    | Limit                                   | Daily Max * | Daily Mean * |
| Flow Rate                                                                    | 28000 m <sup>3</sup> /day (dry weather) | 48000       | 15539        |
| pH min                                                                       | 6                                       | 8.1         | 10.5         |
| pH max                                                                       | 12                                      | 12.0        |              |
| Total Hydrocarbon Oil                                                        | 5 mg/l                                  | 17.2        | 1.33         |
| Suspended solids                                                             | 100 mg/l                                | 407         | 37.0         |
| Dissolved iron                                                               | 10 mg/l                                 | 0.74        | 0.30         |
| Total chromium                                                               | 0.2 mg/l                                | 0.057       | 0.011        |
| Dissolved nickel                                                             | 0.2 mg/l                                | 0.023       | 0.007        |
| Zinc                                                                         | 2 mg/l                                  | 0.023       | 0.010        |
| Copper                                                                       | 0.1 mg/l                                | 0.013       | 0.008        |
| Lead                                                                         | 0.8 mg/l                                | 0.021       | 0.003        |
| Cadmium                                                                      | 0.05 mg/l                               | 0.0001      | 0.0001       |
| Mercury                                                                      | 0.05 mg/l                               | 0.0007      | 0.0004       |
| Ammoniacal Nitrogen                                                          | None                                    | 0.60        | 0.30         |

\* Includes wet flow conditions

Signed: 

Date: 21/07/2023

