

# Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2010

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Airbus Operations Limited

Chester Road  
Broughton  
Chester  
CH4 0DR

Variation application number  
EPR/BM3965IA/V006

Permit number  
EPR/BM3965IA

# **Airbus Operations Limited**

## **Permit number EPR/BM3965IA**

### **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 permit variation relates to the penultimate stage of the 'Airbus Chromate Free' programme whereby the Stringer Manufacturing Centre (SMC) and Large Components Manufacturing (LCM) treatment facilities are transitioning from chromic acid anodising to TSA anodising. Completion of this transition to a chromate free operation is anticipated circa 2016. As such, for activities involving the surface treatment of metals, the Airbus installation has undergone modifications within the rinse tanks and chemical process tanks within the Stringer Manufacturing Centre (SMC) and Large Components Manufacturing (LCM) treatment facilities. The effluent treatment plant (ETP) associated with each facility has also been modified.

The modifications to the installation will change the duty of one of the LCM rinse tanks (T4) to an etching activity thereby increasing the 'surface treatment' capacity of the LCM from 900 m<sup>3</sup> to 1,200 m<sup>3</sup>. There will be no change to the 'surface treatment' capacity of the SMC. The modifications have also caused the installation's aggregated treatment tank volume (i.e. approximately 420 m<sup>3</sup>) to increase and exceed the 30 m<sup>3</sup> activity threshold specified in the Environmental Permitting (England and Wales) Regulations 2010 (as amended). Other modifications include the following:

- SMC Tank 5 – change from decontamination to etching;
- SMC Tank 8 – change from deoxidisation to pickling;
- SMC – effluent treatment modifications;
- LCM Tank 3 – upgrading of tank rinsing;
- LCM Tank 5 – change from deoxidisation to pickling; and
- LCM – effluent treatment modifications.

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.

| <b>Status log of the permit</b>            |                         |                     |
|--------------------------------------------|-------------------------|---------------------|
| <b>Description</b>                         | <b>Date</b>             | <b>Comments</b>     |
| Application BM3965IA                       | Duly Made<br>06/06/2002 |                     |
| Request for information                    | 18/09/2002              | Received 18/09/2002 |
| Permit determined<br>BM3965IA              | 15/11/2002              |                     |
| Application BV0945                         | 10/04/2003              |                     |
| Variation EPR/BV0945<br>issued             | 27/07/2003              |                     |
| Variation application<br>TP3737PJ          | 09/07/2004              |                     |
| Additional information<br>supplied         | 13/07/2004              |                     |
| Additional information<br>supplied         | 02/08/2004              |                     |
| Additional information<br>supplied         | 18/10/2004              |                     |
| Additional information<br>supplied         | 12/05/2005              |                     |
| Variation TP3737PJ<br>issued               | 30/06/2005              |                     |
| Variation application<br>NP3235MQ          | 12/12/2006              |                     |
| Variation NP3235MQ<br>issued               | 26/01/2007              |                     |
| Variation application<br>EPR/BM3965IA/V005 | Duly Made<br>11/11/2009 |                     |
| Variation<br>EPR/BM3965IA/V005<br>issued   | 03/08/2010              |                     |
| Variation application<br>EPR/BM3965IA/V006 | Duly Made<br>27/03/2015 |                     |
| Variation<br>EPR/BM3965IA/V006<br>issued   | 02/09/2015              |                     |

| <b>Other Part A installation permits relating to this installation</b> |                          |                      |
|------------------------------------------------------------------------|--------------------------|----------------------|
| <b>Operator</b>                                                        | <b>Permit<br/>Number</b> | <b>Date of Issue</b> |
| Airbus Operations Limited                                              | BM3965IA                 | 15/11/02             |
| Metal Improvement<br>Company LLC                                       | BS4235                   | 15/11/02             |

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/BM3965IA**

issued to:  
**Airbus Operations Limited** ("the operator")

of  
**Pegasus House**  
**Aerospace Avenue**  
**Filton**  
**Bristol**

**BS99 7PA**

company registration number **03468788**

to operate a regulated facility at  
**Chester Road**  
**Broughton**  
**Chester**  
**CH4 0DR**

to the extent set out in the schedules.

The notice shall take effect from 02/09/2015

Name

Date

|                                                                                     |                          |
|-------------------------------------------------------------------------------------|--------------------------|
|  | <b>02 September 2015</b> |
|-------------------------------------------------------------------------------------|--------------------------|

Eirian Macdonald  
Authorised on behalf of Natural Resources Wales

## Schedule 1 – conditions to be deleted

None

## Schedule 2 – conditions to be amended

The following conditions are as shown.

The following condition has been added to the permit:

- 4.2.7 The operator shall submit an annual solvent management plan in order to demonstrate compliance with the requirements of the Industrial Emissions Directive, by 31 January each year in respect of the previous year.

Table S1.1 activities is amended to the following:

| Table S1.1 activities |                                                     |                                                                                                                                                          |                                                                                                                                                                                                           |
|-----------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Activity reference    | Activity listed in Schedule 1 of the EP Regulations | Description of specified activity and WFD Annex IIA and IIB operations                                                                                   | Limits of specified activity and waste types                                                                                                                                                              |
| A1                    | S1.1 A (1) (a)                                      | Dispersed Combustion Plant                                                                                                                               | From receipt of raw materials to exhaust of products of combustion and delivery of hot water or steam                                                                                                     |
| A2                    | S2.3 A (1) (a)                                      | Chrome Anodising and TSA Anodising (including etch and pickling) on LCM and SMC facilities until conversion process is complete, then TSA Anodising only | From receipt of raw materials to despatch of anodised material for further processing, despatch of process effluent to Effluent Treatment Plant and exhaust of extracted process air via scrubbers to air |
| A3                    | S6.4 B (a)                                          | Painting of wing structures                                                                                                                              | From receipt of raw material to despatch of finished product and exhaust of extracted process air to air                                                                                                  |
|                       | <b>Directly Associated Activity</b>                 |                                                                                                                                                          |                                                                                                                                                                                                           |
| A4                    | Manufacture of wing structures                      | Manufacture of components and assembly of structures                                                                                                     | From receipt of raw materials to despatch of finished product                                                                                                                                             |
| A5                    | Machining                                           | Manufacture of components                                                                                                                                | From receipt of raw materials to despatch of material for further processing                                                                                                                              |
| A6                    | Autoclaves                                          | Assembly of components                                                                                                                                   | From receipt of raw materials to despatch of material for further processing                                                                                                                              |
| A7                    | Effluent treatment                                  | Treatment of effluent from Chrome Anodising and TSA Anodising                                                                                            | From receipt of effluent to discharge of treated effluent, despatch of waste material and exhaust of extracted process air to air.                                                                        |

Table S1.2 is amended to the following;

| <b>Table S1.2 Operating techniques</b>   |                                                                                                          |                      |
|------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------|
| <b>Description</b>                       | <b>Parts</b>                                                                                             | <b>Date Received</b> |
| Application                              | The response to section 2.1, 2.2 and 2.3 in the application.                                             | 04/12/06             |
| Additional information from the Operator | Atmospheric Dispersion Modelling                                                                         | 08/01/07             |
| Additional information from the Operator | Re-submission of main text of the application, PPC04, PPC06 and Table 2.10.2 Surface Water Monitoring.   | 15/01/07             |
| Additional information from the Operator | Atmospheric Dispersion Modelling for Onsite Receptors and Conversion of nitric oxide to nitrogen dioxide | 17/01/07             |
| Application<br>EPR/BM3965IA/V005         | Sections 3.12, 3.13, 3.17, 3.18, 3.19, 3.20, 3.21, 3.22, 3.23 (except 3.23.6 and 3.23.7)                 | 11/11/09             |
| Application<br>EPR/BM3965IA/V006         | Section 2 of application report 'Application for a Variation to Environmental Permit Np. EPR/BM3965IA'   | 27/03/15             |

Table S4.1 is amended to the following:

| <b>Table S4.1 Point source emissions to air – emission limits and monitoring requirements</b> |                  |                                                                           |                               |                         |                             |                                      |
|-----------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------|-------------------------------|-------------------------|-----------------------------|--------------------------------------|
| <b>Emission point ref. &amp; location (on PPC 04 F)</b>                                       | <b>Parameter</b> | <b>Source</b>                                                             | <b>Limit (including unit)</b> | <b>Reference period</b> | <b>Monitoring frequency</b> | <b>Monitoring standard or method</b> |
| <b>Chrome Anodising, TSA Anodising and Effluent Treatment Plant</b>                           |                  |                                                                           |                               |                         |                             |                                      |
| <b>Large Component Manufacture (LCM)</b>                                                      |                  |                                                                           |                               |                         |                             |                                      |
| A79, A81, A83                                                                                 | n/a              | Tanks 01, 02, 03, 04, 05, 08 and 11 on the LCM Treatment Line             | n/a                           | n/a                     | n/a                         | n/a                                  |
| A90                                                                                           | n/a              | LCM Effluent Treatment                                                    | n/a                           | n/a                     | n/a                         | n/a                                  |
| A82                                                                                           | n/a              | Tank 9                                                                    | n/a                           | n/a                     | n/a                         | n/a                                  |
| <b>Stringer Manufacturing Centre (SMC)</b>                                                    |                  |                                                                           |                               |                         |                             |                                      |
| A84                                                                                           | n/a              | Tanks 01, 02, 05, 08, 09, 10 and 13 on the SMC Treatment Line             | n/a                           | n/a                     | n/a                         | n/a                                  |
| A91                                                                                           | n/a              | SMC Effluent Treatment                                                    | n/a                           | n/a                     | n/a                         | n/a                                  |
| <b>Paint Shops</b>                                                                            |                  |                                                                           |                               |                         |                             |                                      |
| <b>Dash 600</b>                                                                               |                  |                                                                           |                               |                         |                             |                                      |
| A24, A26                                                                                      | VOCs             | Oven, spray booth and paint mix                                           | n/a                           | n/a                     | Quarterly                   | Mass balance                         |
| <b>Site 5</b>                                                                                 |                  |                                                                           |                               |                         |                             |                                      |
| A27 – A34                                                                                     | VOCs             | Prep booths, spray booths, detail booths, detail booth oven and paint mix | n/a                           | n/a                     | Quarterly                   | Mass balance                         |
| <b>Interim Single Aisle</b>                                                                   |                  |                                                                           |                               |                         |                             |                                      |
| A35 – A43<br>A35a – A42a                                                                      | VOCs             | Booths and paint mix                                                      | n/a                           | n/a                     | Quarterly                   | Mass balance                         |
| <b>Binks</b>                                                                                  |                  |                                                                           |                               |                         |                             |                                      |
| A44                                                                                           | VOCs             | Spray booths, paint mix and oven                                          | n/a                           | n/a                     | Quarterly                   | Mass balance                         |

| <b>Table S4.1 Point source emissions to air – emission limits and monitoring requirements</b> |                  |                                       |                           |                         |                             |                                      |
|-----------------------------------------------------------------------------------------------|------------------|---------------------------------------|---------------------------|-------------------------|-----------------------------|--------------------------------------|
| <b>Emission point ref. &amp; location (on PPC 04 F)</b>                                       | <b>Parameter</b> | <b>Source</b>                         | <b>Limit (incl. unit)</b> | <b>Reference period</b> | <b>Monitoring frequency</b> | <b>Monitoring standard or method</b> |
| <b>Stringer</b>                                                                               |                  |                                       |                           |                         |                             |                                      |
| A55, A56                                                                                      | VOCs             | Spray booth, paint mix and booth oven | n/a                       | n/a                     | Quarterly                   | Mass balance                         |
| <b>West</b>                                                                                   |                  |                                       |                           |                         |                             |                                      |
| A58 – A60                                                                                     | VOCs             | Paint shops and paint mix             | n/a                       | n/a                     | Quarterly                   | Mass balance                         |
| A23                                                                                           | n/a              | Hangar 91 Boiler                      | n/a                       | n/a                     | n/a                         | n/a                                  |
| A61 – A72                                                                                     | n/a              | A380 Autoclaves                       | n/a                       | n/a                     | n/a                         | n/a                                  |
| A112 – A115                                                                                   | n/a              | Site 5 Burners                        | n/a                       | n/a                     | n/a                         | n/a                                  |
| A119                                                                                          | n/a              | Dash 600 Burner                       | n/a                       | n/a                     | n/a                         | n/a                                  |
| A99 – A111, A120 – A173, A182                                                                 | n/a              | Combustion Plant < 0.5 MW Input       | n/a                       | n/a                     | n/a                         | n/a                                  |
| A175                                                                                          | n/a              | Final Single Aisle Boiler             | n/a                       | n/a                     | n/a                         | n/a                                  |
| <b>Final Single Aisle</b>                                                                     |                  |                                       |                           |                         |                             |                                      |
| A177 – A181                                                                                   | VOCs             | Prep booth and paintshop              | n/a                       | n/a                     | Quarterly                   | Mass balance                         |
| <b>Combustion Plant</b>                                                                       |                  |                                       |                           |                         |                             |                                      |
| A4 – A10, A12, A14                                                                            | n/a              | Process / Space Heaters               | n/a                       | n/a                     | n/a                         | n/a                                  |
| A23                                                                                           | n/a              | Hangar 91 Boiler                      | n/a                       | n/a                     | n/a                         | n/a                                  |
| A61 – A72                                                                                     | n/a              | A380 Autoclaves                       | n/a                       | n/a                     | n/a                         | n/a                                  |
| A112 – A115                                                                                   | n/a              | Site 5 Burners                        | n/a                       | n/a                     | n/a                         | n/a                                  |
| A119                                                                                          | n/a              | Dash 600 Burner                       | n/a                       | n/a                     | n/a                         | n/a                                  |
| A99 – A111, A120 – A173, A182                                                                 | n/a              | Combustion Plant < 0.5 MW Input       | n/a                       | n/a                     | n/a                         | n/a                                  |
| A175                                                                                          | n/a              | Final Single Aisle Boiler             | n/a                       | n/a                     | n/a                         | n/a                                  |

Table S4.3 is amended to the following.

| <b>Table S4.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements</b> |                  |                          |                           |                         |                             |                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------|---------------------------|-------------------------|-----------------------------|--------------------------------------|
| <b>Emission point ref. &amp; location</b>                                                                                                            | <b>Parameter</b> | <b>Source</b>            | <b>Limit (incl. Unit)</b> | <b>Reference period</b> | <b>Monitoring frequency</b> | <b>Monitoring standard or method</b> |
| TE1 (LCM Treatment Plant)                                                                                                                            | Total Chrome     | Effluent Treatment Plant | 100 µg/l                  | Note 1                  | Weekly                      | Note 1<br>Note 2                     |
| TE3 (SMC Treatment Plant)                                                                                                                            | Total Chrome     | Effluent Treatment Plant | 500 µg/l                  | Note 1                  | Weekly                      | Note 1<br>Note 2                     |

Note 1: Method and Reference Period to be agreed in writing with the Environment Agency.

Note 2: Cessation of monitoring for Total Chrome on emission points TE1 and TE3 to be agreed in writing with Natural Resources Wales when monitoring results show that releases have ceased.

**Schedule 3 – conditions to be added**

None