Part B Variation form

Application for a variation of permit conditions

Local Authority Pollution Prevention and Control
Pollution Prevention and Control Act, 1999
Environmental Permitting (England and Wales) Regulations 2010

Introduction

When to use this form
This environmental permitting regime is known as and referred to as Local Authority Pollution Prevention and Control ('LAPPC'). Installations permitted under this regime are known as Part 'B' installations. Use this form if you already have a permit and wish to vary the permit conditions or wish to make a change to your installation.

Before you start to fill in this form
You are strongly advised to read relevant parts of the Defra general guidance manual issued for LA-IPPC and LAPPC, republished in May 2011. This contains a list of other documents you may need to refer to when you are preparing your application, and explains some of the technical terms used. You will also need to read the relevant sector guidance note, BREF note or Process Guidance note. The EP Regulations can be obtained from www.legislation.gov.uk website.

Which parts of the form to fill in
You should fill in as much of this form as possible. The appropriate fee must be enclosed with the variation application to enable it to be processed further. When complete return to:

Environmental Protection Unit
Barrow Borough Council
Town Hall
Duke Street
Barrow-in-Furness
Cumbria
LA14 2LD

Other documents you may need to submit
There are number of other documents you may need to send us with your variation application. Each time a request for a document is made in the form you will need to record a document reference number for the document or documents that you are submitting in the

space provided on the form for this purpose. Please also mark the document(s) clearly with your permit reference number and the name of the installation.

Using continuation sheets
In the case of the questions on the form itself, please use a continuation sheet if you need extra space; but please indicate clearly on the form that you have done so by stating a document reference number for that continuation sheet. Please also mark the continuation sheet itself clearly with the information referred to above.

Copies - *not relevant for e-applications*
Please send the original and 1 copy of the form and all other supporting material, to assist the Authority in conducting any necessary consultation process.

If you need help and advice
We have made the form as straightforward as possible, but please get in touch with us at the local authority address given above if you need any advice on how to set out the information we need.

A1 Applicant details

A1.1 Name of the installation

BAE Systems Submarine Solutions

A1.2 Please give the address of the site of the installation

Main Shipyard Offices, Bridge Road, Barrow-in-Furness, Cumbria

Postcode LA14 1AF Telephone 01229 873474

A1.3 Permit reference number

PPC/B/05

A2.1 The Operator – Please provide the full name of company or corporate body

BAE Systems Submarines Ltd

Trading/business name (if different)

BAE Systems Marine Ltd

Registered Office address

BAE Systems Submarines Ltd
Warwick House
PO Box 87
Farnborough Aerospace Centre
Farnborough
Hampshire

Postcode: GU14 6YU

Principal Office address (if different)

Postcode:

Company registration number

00229770

A3.1 Who can we contact about your application?

It will help to have someone who we can contact directly with any questions about your application. The person you name should have the authority to act on behalf of the operator - This can be an agent or consultant.

Name Matt Roskell

Position Environmental Advisor

Address Shaftsbury House, BAE Systems Submarine Solutions, Barrow-in-Furness, Cumbria

Postcode LA14 1AF

Telephone number 01229 873474

Fax number

email address matthew.roskell2@baesystems.com

B1 About the installation

Please fill in the table below with details of all the current activities and proposed activities at the whole installation.

In **Column 1, Box A, *Activities in the stationary technical unit***
Please identify all activities listed in Schedule 1 to the EP Regulations that are carried out in the stationary technical unit of the installation.

In **Column 1, Box A(i), *Proposed new activities in the stationary technical unit***
Please identify all activities listed in Schedule 1 to the EP Regulations that are proposed to be carried out in the stationary technical unit of the installation.

In **Column 1, Box B, *Directly associated activities***
Please identify any directly associated activities that are carried out on the same site which:

* have a technical connection with the activities in the stationary technical unit
* could have an effect on pollution.

In **Column 1, Box B(i), *Directly associated activities***
Please identify any directly associated activities that are proposed, to be carried out on the same site which:

* have a technical connection with the activities in the stationary technical unit
* could have an effect on pollution

In **Column 2, Both Boxes A and B**, please quote the Chapter number, Section number, then paragraph and sub-paragraph number as shown in Part 2 of Schedule 1 to the EP Regulations [For example, *Manufacturing glass and glass fibre where the use of lead or any lead compound is involved*, would be listed as Chapter 3, Section 3.3, Part B(b)].

B1.1 Installation table for variation of permit conditions

COLUMN 1	COLUMN 2
Box A Activities in the Stationary Technical Unit	Section in Schedule 1 of the EP Regulations
SED Activities	7
Box A(i) Proposed new activities in the Stationary Technical Unit	Section in Schedule 1 of the EP Regulations
N/A	N/A
Box B Directly associated activities	Section in Schedule 1 of the EP Regulations
N/A	N/A
Box B(i) Proposed new directly associated activities	Section in Schedule 1 of the EP Regulations
Shot blasting of components before painting	1) Chapter 6, Section 6.4, Part B, A, iv 2) Chapter 6, Section 7, Part B, A, Activity - Other Coating Activities

B1.2 Why is the variation application being made?

[X] specific permit conditions will require amending

[ ] we are unsure whether the proposed changes will require a variation and wish the local authority to advise on this

B.1.3 Site Maps

Please provide:-

* A suitable map showing the location of the installation clearly defining extent of the installations in red and indicating the extent of the installation affected by the proposed change

Doc Reference Site Map

* A suitable plan showing the layout of activities on the site, including bulk storage of materials, waste storage areas and any external emission points to atmosphere, indicating which activities will be affected by the proposed change

Doc Reference N/A

* A suitable plan showing the site drainage system and all discharge points to drainage or water courses indicating which will be affected by the proposed change

.

Doc Reference N/A

B2 The Installation

Please provide written information about the aspects of your installation listed below. We need this information to determine whether you will operate the installation in a way in which all the environmental requirements of the EP Regulations are met.

B2.1 Describe the proposed change to the installation and activities and identify the foreseeable emissions to air from effecting this change (this will include any foreseeable emissions during start up, shut down and any breakdown/abnormal operation)

The use of process flow diagrams may aid to simplify the operations

Doc Reference: Appendix 1

B2.2 Once all foreseeable changes in emissions as a result of the proposed change have been identified each emission should be characterised (including odour) and quantified.

Atmospheric emissions should be categorised under the following

i. point source, (e.g. chimney / vent, identified by a number and detailed on a plan)
ii. fugitive source (e.g. from stockpiles / storage areas).

Doc Reference: Appendix 1

B2.3 For each emission which will be affected by the proposed change describe the current and proposed technology and other techniques for preventing or, where that is not practicable reducing the emissions.

Doc Reference: Appendix 1

B2.4 Describe the proposed measures for additional monitoring of all identified emissions as a result of the proposed change.

Doc Reference: Appendix 1

B2.5 Describe the effect the proposed change will have on your environmental management techniques, in relation to the installation activities described.

Doc Reference: Appendix 1

B2.6 Detail in the table provided below, or on an additional sheet if preferred, the exact conditions you wish to change in your current permit.

Permit condition reference	**Proposed new wording of condition**
52 a.	Devonshire Dock Complex Main Paint Shop/Store – 2 Stacks both 9.1metres above ground level.

B2.7 Additional information

Please supply any additional information which you would like us to take account of in considering this variation application.

Doc Reference _____

C1 Fees and Charges

The enclosed charging scheme leaflet gives details of how to calculate the variation application fee. Your application cannot be processed unless the correct fee is enclosed.

C1.1 Please state the amount enclosed as a fee for this variation application.

£ (cheques should be made payable to Barrow Borough Council)

We will confirm receipt of this fee when we write to you acknowledging your variation application.

C1.2 Please give any company purchase order number or other reference you wish to be used in relation to this fee.

C2 Annual charges

The application or granting of a permit variation will not affect the level of your annual subsistence charge, nor the requirement to pay it.

C3 Commercial confidentiality

C3.1 Is there any information in the application for a variation that you wish to justify being kept from the public register on the grounds of commercial confidentiality ?

No X

Yes

Please provide full justification, considering the definition of commercial confidentiality within the EP Regulations.

Doc Reference _____

C3.2 Is there any information in the application for a variation that you believe should be kept from the public register on the grounds of national security ?

No X

Yes

Do not write anything about this information on the form. Please provide full details on separate sheets, plus provide a copy of the variation application form to the Secretary of State/Welsh Ministers for a Direction on the issue of National Security.

C4 Data Protection

The information you give will be used by the Local Authority to determine your application for a variation. It will be placed on the relevant public register and used to monitor compliance with the permit conditions. We may also use and or disclose any of the information you give us in order to:

- consult with the public, public bodies and other organisations,
- carry out statistical analysis, research and development on environmental issues,

- provide public register information to enquirers,
- make sure you keep to the conditions of your permit and deal with any matters relating to your permit
- investigate possible breaches of environmental law and take any resulting action,
- prevent breaches of environmental law,
- offer you documents or services relating to environmental matters,
- respond to requests for information under the Freedom of Information Act 2000 and the Environmental Information Regulations 2004 (if the Data Protection Act allows)
- assess customer service satisfaction and improve our service.

We may pass on the information to agents/ representatives who we ask to do any of these things on our behalf.

It is an offence under Regulation 38 of the EP Regulations, for the purpose of obtaining a variation to a permit (for yourself or anyone else) to:

- make a false statement which you know to be false or misleading in a material particular,
- recklessly make a statement which is false or misleading in a material particular.

If you make a false statement

- we may prosecute you, and
- if you are convicted, you are liable to a fine or imprisonment (or both).

C5 Declaration: previous offences (delete whichever is inapplicable)

We certify

No offences have been committed in the previous five years which are relevant to my/our competence to operate this installation in accordance with the EP Regulations.

Signature: M. Roskell

Name: Matt Roskell

Position: Environmental Advisor

Date: 24/10/2011

C6 Declaration

C6.1 Signature of current operator(s)*

I/We certify that the information in this application is correct. I/We apply for a permit in respect of the particulars described in this application (including supporting documentation) I/We have supplied.

Please note that each individual operator must sign the declaration themselves, even if an agent is acting on their behalf.

For the application from:

Installation name: BAE SYSTEMS SUBMARINE SOLUTIONS

Signature: [signature]

Name: A.J.H Burbidge

Position: Safety + Assurance Director.

Date: 4 November 2011.

Signature: _____

Name: _____

Position: _____

Date: _____

** Where more than one person is defined as the operator, all should sign. Where a company or other body corporate – an authorised person should sign and provide evidence of authority from the board of the company or body corporate.*

Appendix 1

B2.1
The DDC Paint Shop (D13) is having its facility modified so that shot-blasting operations may be carried out there. As a result a new emissions stack is required that is 9.1M above ground level. Any additional emissions coming from this new facility will be in the form of particulate matter. These emissions will be significantly lower than the current permitted limit of 50mg/Nm^3. There will be no difference in emissions during start up/shut down compared to continuous operation.

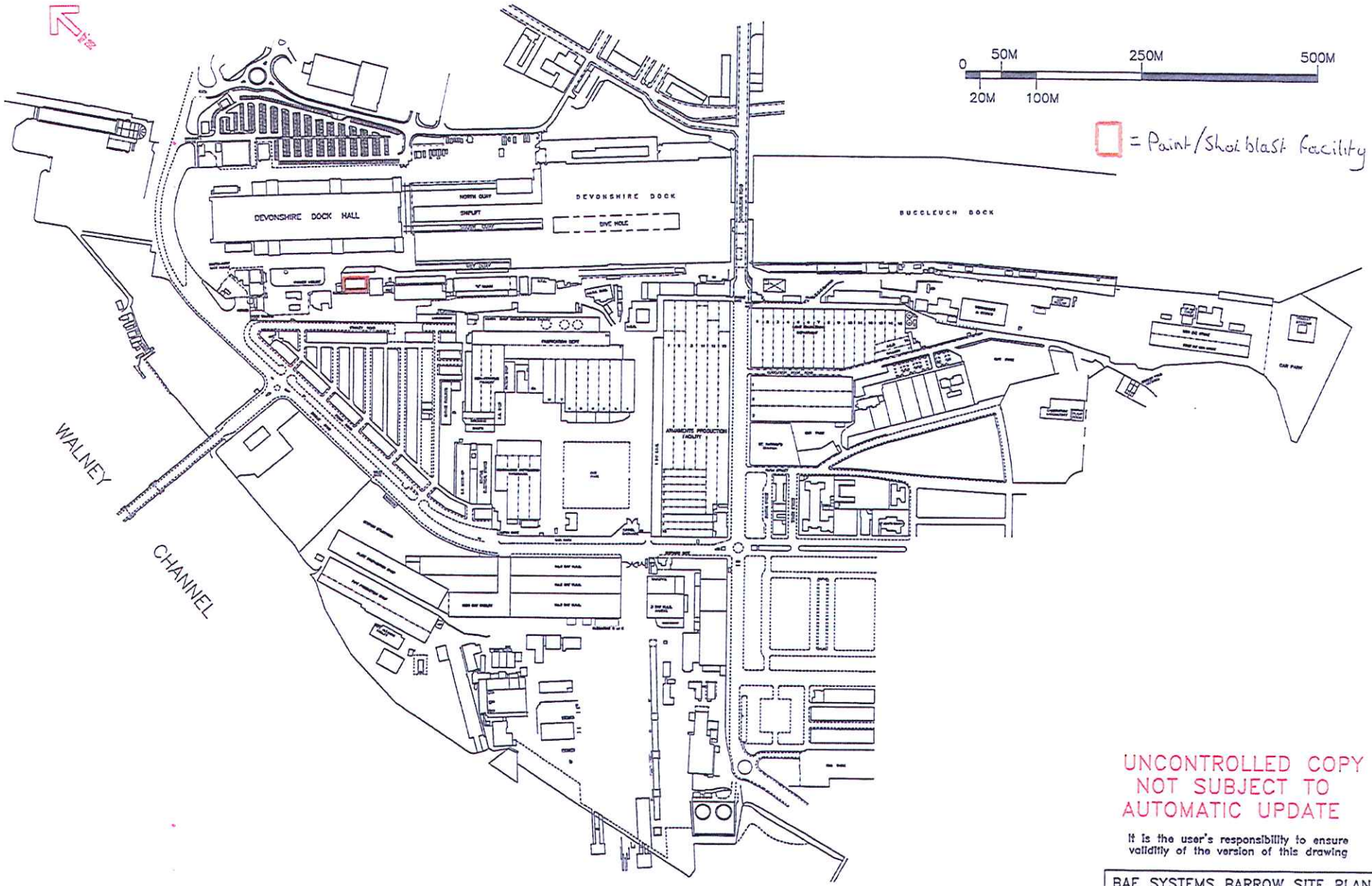
B2.2
i. Point source emissions will be from the new stack that is 9.1M above ground level. The emissions will be in the form of particulate matter and will be significantly less than the current permitted limit of 50mg/Nm^3.

ii. Fugitive emissions should be minimal due to the operational area being enclosed and spent shot being stored in sealed blue clip top drums while awaiting disposal. There should be no odour arising from these operations.

B2.3
The abatement equipment fitted to the stack is in the form of AutoM 50Z/7.5kw shaker filter that uses NF301 Polyester Needlefelt filter media.

B2.4
The new stack has test ports fitted to it and will be included in the annual emissions monitoring schedule.

B2.5
It is not anticipated that this new operation will have any major impacts on the environmental management techniques of the installation as waste practises are already adhered to and the abatement equipment will limit emissions to air. In addition to this noise monitoring was carried out on the stack with the highest level coming at 73DBA and that was immediately above the shaker unit. As a result it is anticipated that these levels will not result in complaints from BAE's neighbours.

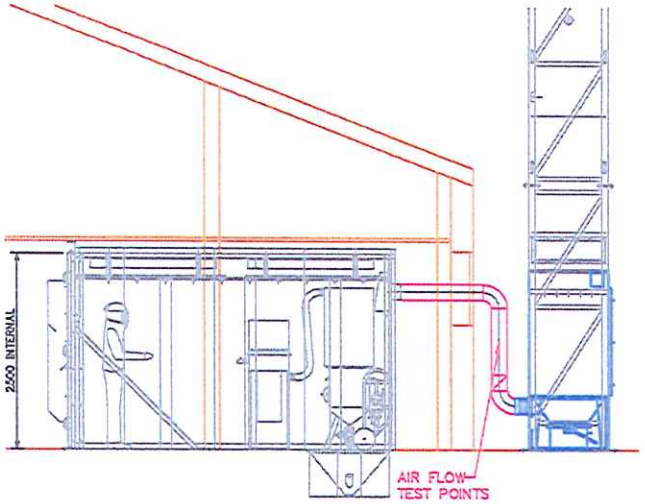


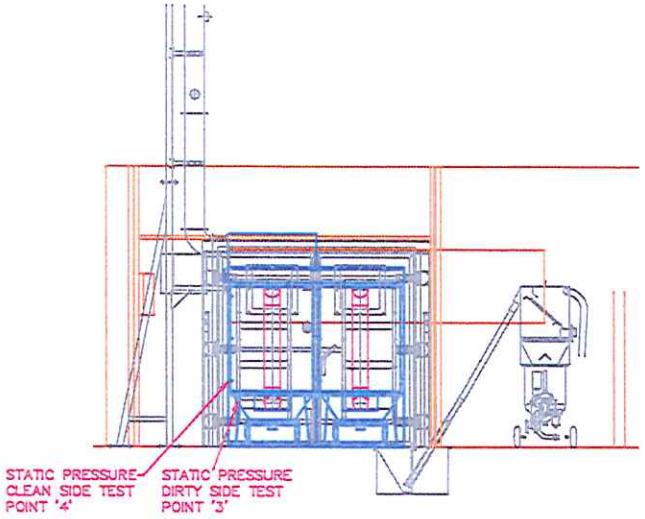
UNCONTROLLED COPY
NOT SUBJECT TO
AUTOMATIC UPDATE

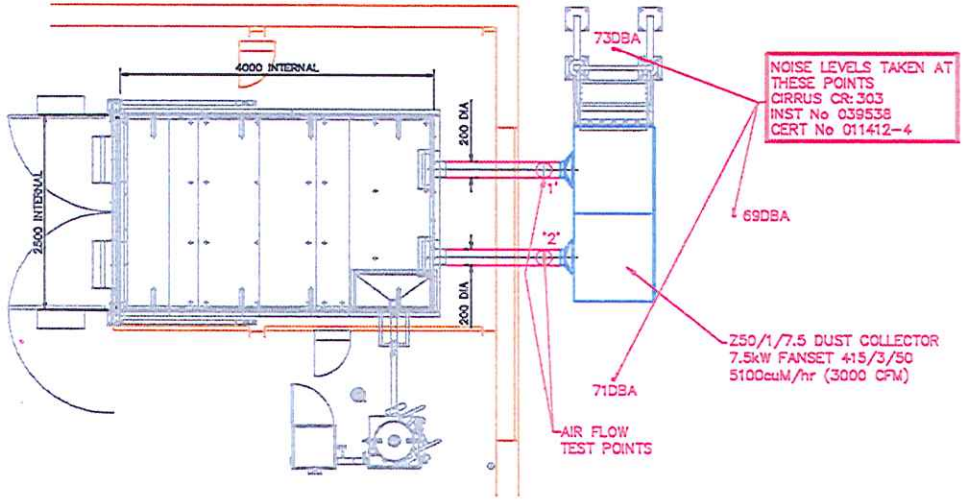
It is the user's responsibility to ensure validity of the version of this drawing

BAE SYSTEMS BARROW SITE PLAN
SHOWING BUILDING IDENTIFICATION
NUMBERS AND SECURITY GATES

ST/95/78/237 ISSUE AD 07/06/11







PROD. CODE	DESCRIPTION	QTY
	*	1

1	ORIGINAL	NRS		21.4.2011
ISSUE No	MOD. No	DRAWN	CHECKED	DATE

GENERAL NOTES

1) MATERIAL: COLD ROLLED MILD STEEL SHEET TO BS 1449 GRADE CR4 OR EQUIVALENT; HOT ROLLED MILD STEEL SECTIONS TO BS 4360 GRADE 43A OR EQUIVALENT. FINISH: SELF-COLOUR FOR PAINTING.
2) REMOVE ALL SHARP EDGES AND BURRS.
3) JOINTS AND CONSTRUCTION TO SUIT MANUFACTURERS' STANDARD PROCEDURES.
4) DIMENSIONS AND TOLERANCES TO BS 308.
5) MACHINED SURFACES ▽ UNLESS STATED.
6) THREADS TO BS 3643 6H/6g OR BS 21 UNLESS STATED.
7) *
8) *
9) *

WELDING

WELDING GENERALLY TO BS 5135 CAT. C & BS 4872 PT. 1
ALL JOINTS & CONNECTIONS OF R.S. SECTIONS CONTINUOUS
PLATE TO R.S. SECTION INTERMITTENT 75 WELD 100 GAP

PLATE THICKNESS	1.6	2	2.5	3	4	5	6	8	10	12	PLATE OVER 12
WELD SIZE	3				6				10		AS SPECIFIED

TOLERANCES

	FABRICATION	MACHINING
HOLE CENTRES	±1mm	±0.25mm
DIAMETER	±2mm	±0.22mm
ANGULAR	±1°	±0.5°
LINEAR	±2mm	±0.5mm

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ORGREAVE DRIVE,
SHEFFIELD,
S13 9NR.
TEL. 0114 2540600
FAX. 0114 2540250
HODGE CLEMCO LTD

DO NOT SCALE – IF IN DOUBT ASK

TITLE: BLASTROOM LAYOUT SHOWING LEV TEST POINTS

CUSTOMER: BAE SYSTEMS BARROW IN FURNESS

DRAWN	DATE	DIMENSION	SCALE
NRS	21.4.2011	MM	1:30

DRAWING No: HC-10603 SIZE: A1

BAE SYSTEMS Marine

COSHH TEST/SURVEY OF LOCAL EXHAUST VENTILATION

PROCESS	Shot blasting	LOCATION (inc bldg No)	D13
DEPARTMENT	SMS	DEPT No / DEPT HEAD	Tony Canipa
PLANT No		SITE ENGINEERING DRG No	HC-10270 ISS4 HC-10603 ISS1

FREQUENCY OF TEST/SURVEY _____ MONTHS

DETAILS OF PLANT

Fan Make	Nederman Ltd	
Fan Model	NF 7.5kw S	
Fan Drive	Direct drive	
Motor Make	Siemens	
Motor Size	7.5	kW
Full Load Current	14.4	AMPS
Filter Unit Type	AutoM 50Z/7.5kw	
Filtration Type	Shaker filter	
Filter Media Type	NF301 Polyester Needlefelt	
Filter Media Area	50	Sq M
Exhausted Air		

DESIGN PARAMETERS

Total Volume Flow (fan duty)	5100	Cu M/Hr
	3000	CFM
Face Velocity (hood)	N/A	M/S
Conveying Velocity (duct 1) Test Point 1	4200	F/M
	21.34	M/S
Conveying Velocity (duct 2) Test Point 2	4320	F/M
	21.95	M/S
Fan Speed	2910	RPM
Motor Speed	2910	RPM
Running Current	11	AMPS
Filter Air to Cloth Ratio	1.7 m/min	
Static Pressure clean side Test Point 4	2.612	KPa
	26.64	cm WG
Static Pressure dirty Side Test Point 3	2.450	KPa
	24.98	cm WG
Total System Pressure	26.64	cm WG

Initial Test/Survey Carried Out By: Nigel Staples Date 26/04/2011

Company Name: Hodge Clemco Ltd

SEE ATTACHED LAYOUT DRAWING HC-10603 SHOWING LEV TEST POINT LOCATIONS AND NOISE LEVEL TEST POINTS AND RESULTS

COSHH TEST/SURVEY OF LOCAL EXHAUST VENTILATION
INITIAL AND FUTURE TEST RESULTS

PROCESS	Shot blasting	PLANT No	
LOCATION	DDH paint shop D13	DRG No	HC-10270 ISS4 HC-10603 ISS1

INITIAL TEST RESULTS

POINT	DATE	STATIC PRESSURE (pa)	AIR VELOCITY	VOLUME FLOW	INSTRUMENT USED Hodge Clemco
1			21.34 (m/s) 4200 (fpm)	2414 (cu.m/hr) 1466 (cfm)	DWYER SERIES 471 THERMO ANEMOMETER INST No 4236 CERT No 015310-1
2			21.95 (m/s) 4320 (fpm)	2482 (cu.m/hr) 1507 (cfm)	DWYER SERIES 471 THERMO ANEMOMETER INST No 4236 CERT No 015310-1
3		2612			AIRFLOW DM2L DIGITAL MANOMETER INST No 37141 CERT No 013553-3
4		2450			AIRFLOW DM2L DIGITAL MANOMETER INST No 37141 CERT No 013553-3

BUTTERFLY DAMPERS IN EACH DUCT WERE SET TO APPROX 5/8 OPEN. THIS GAVE A STATIC PRESSURE ON THE CLEAN SIDE OF THE FAN 2612 pa. PRESSURE DROP OVER DUST BAGS WAS NEGLIGIBLE AS BAGS ARE IN A NEW/CLEAN CONDITION

DUCTING DIAMETER IS 200mm. TOTAL FLOW FROM BOTH DUCTS 4896cu.m/hr (2973 cfm) (see attached fan curve for reference). BLASTROOM AREA 2.5Mx2.5M =6.25sqm. AIR SPEED DOWN ROOM IS THEREFORE 13M/MIN (42FPM) WHICH GIVES JUST OVER 3 AIR CHANGES PER MINUTE.

TEST TO BE MADE AGAIN AFTER APPROX 3 MONTHS USE. DAMPERS MAY WELL NEED ADJUSTING TO MAINTAIN AIRFOW AS DUSTBAGS BECOME COATED.

FUTURE TEST RESULTS

POINT	DATE	STATIC PRESSURE (pa)	AIR VELOCITY (m/s)	VOLUME FLOW (cu. m/s)	INSTRUMENT USED (Inc Plant No)