

Report for Periodic Monitoring of Emissions to Atmosphere

Part 1: **Executive Summary**
Permit Number: **PPC/028**
Operator: **Atritor Limited**
Installation: **Edgewick Park Industrial Estate, Coventry**
Emission Point: **PMA1 Main Scrubber**
Monitoring Date: **19th September 2005**



1709 Group



1709 Group

Contract Reference: FTA 4870
Operator: Atritor Limited
Address: PO Box 101
Edgewick Park Industrial Estate
Canal Road
Coventry
CV6 5RD
Monitoring Organisation: RPS Health, Safety & Environment
Address: Steadings Barn, Pury Hill Business Park, Alderton Road,
Towcester, Northamptonshire, NN12 7LS
Report Date: 28th September 2005
Report Approved By: Richard Harvey
Position: Team Manager
MCERTS Registration No.: MM 02 020

Signature:



RPS Health, Safety and Environment has produced this report within the term of the contract with the client and taking account of the resources devoted to it by agreement with the client.

We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above. This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own risk.

CONTENTS

Part 1: Executive Summary

Monitoring Objectives	3
Monitoring Results	4
Operating Information	5
Monitoring Deviations.....	6

Monitoring Objectives

At the request of Mr B Percival of Atritor Limited, RPS Health, Safety and Environment conducted air emission monitoring at the Edgewick Park Industrial Estate site, Coventry in September 2005.

The monitoring programme at this installation was carried out to provide data on emissions to atmosphere for comparison with the limits specified in the air emission criteria for this site.

The parameters requested for monitoring at each emission point and the actual monitoring conducted are detailed below.

Table 1

Parameters Requested to be Monitored	Emission Point
	PMA1
	Main Scrubber
Total Particulate Matter	Y
Specific Requirements	Normal Operating Conditions

Notes:

Y Represents the actual parameters monitored

Monitoring Results

Table 2 – Monitoring Results from the PMA1 (Main Scrubber) at Atritor Limited, Limited in September 2005

Substance Monitored	Emission Limit Value	Periodic Monitoring Result	Units	Uncertainty (%) #	Reference Conditions 273K, 101.3kPa	Sampling Date	Sampling Times	Monitoring Reference Method	Accreditation Status	Operating Status
Total Particulate Matter	50	36	mg/m ³	11	Without correction for moisture content	19-09-05	12:08 – 13:45	BS-EN 13284-1 2002	-	Normal

Notes:

The uncertainty associated with the quoted result is at the 95% confidence interval

Operating Information

Table 3 – Operating Information During Monitoring of the PMA1 (Main Scrubber) at Atritor Limited, Limited in September 2005

Parameter	Result
Sample Date	19 th September 2005
Process Type	Batch
Process Duration	1-2hrs
If 'Batch', was monitoring carried out over the whole batch?	Yes
If 'No', give details	-
Abatement/Operational?	Wet Scrubber- operational
Fuel Type	N/A
Feedstock	N/A
Load	N/A
Throughput	N/A
Continuous Rating	N/A

Monitoring Deviations

Table 4 – Monitoring Deviations During Monitoring of the PMA1 (Main Scrubber) at Atritor Limited, Limited in September 2005

Substance Deviations	Monitoring Deviations	Other Relevant Issues
None	None	None

Notes:

- Substance Deviations* State any substance not monitored during the monitoring campaign, together with the reason for the omission from the monitoring campaign. If not applicable state "NA".
- Monitoring Deviations* State any deviation from the standard method, the consequences, and the reason for the deviation. If not applicable state "NA".
- Other Relevant Issues* State any other information relevant to the monitoring campaign. If not applicable state "NA".

Report for Periodic Monitoring of Emissions to Atmosphere

Part 2: **Supporting Information**
Permit Number: **PPC/028**
Operator: **Atritor Limited**
Installation: **Edgewick Park Industrial Estate, Coventry**
Emission Point: **PMA1 main Scrubber**
Monitoring Date(s): **19th September 2005**



1709 Group



1709 Group

Contract Reference: FTA 4870
Operator: Atritor Limited
Address: PO Box 101
Edgewick Park Industrial Estate
Canal Road
Coventry
CV6 5RD
Monitoring Organisation: RPS Health, Safety & Environment
Address: Steadings Barn, Pury Hill Business Park, Alderton Road,
Towcester, Northamptonshire, NN12 7LS
Report Date: 28th September 2005
Report Approved By: Richard Harvey
Position: Team Manager
MCERTS Registration No.: MM02 020

Signature:



RPS Health, Safety and Environment has produced this report within the term of the contract with the client and taking account of the resources devoted to it by agreement with the client.

We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above. This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own risk.

CONTENTS

Part 2: Supporting Information

APPENDIX 1: General Information.....	3
Monitoring Organisation Staff Details	4
Monitoring Organisation Method Details.....	5
APPENDIX 2: Emission Point PMA1 Main Scrubber.....	6
Stack Gas Measurements	7
Photograph	9
Reportable Blank Results.....	10
Certificates of Analysis.....	11

APPENDIX 1: General Information

Monitoring Organisation Staff Details

Table 5

Site Team	Position	MCERTS Level	Technical Endorsements	MCERTS Registration Number
Chris Smith	Technician	1	-	MM 04 557
Matthew Sumner	Trainee Technician	Trainee	-	MM 05 622

Report Author	Position	MCERTS Level	Technical Endorsements	MCERTS Registration Number
Brett Durden	Technical Director	2	1	MM 03 167

Report Reviewer	Position	MCERTS Level	Technical Endorsements	MCERTS Registration Number
Richard Harvey	Team Manager	2	1,2	MM 02 020

Monitoring Organisation Method Details

Table 6

Emission Parameter	Standard Method	Monitoring Procedure No.	Monitoring Accreditation	Analysis	Analysis Procedure No.	Analytical Laboratory	Analysis Accreditation
Practical Considerations Prior to Monitoring	N/A	RPSCE/1/1	UKAS	N/A	N/A	N/A	N/A
Gas Flows	BS-EN 13284-1:2001	RPSCE/1/2	UKAS	N/A	N/A	N/A	N/A
Gas Temperatures	BS-EN 13284-1:2001	RPSCE/1/2	UKAS	N/A	N/A	N/A	N/A
Low Concentration Total Particulate Matter	BS EN 13284-1:2001	RPSCE/1/7c	UKAS	Gravimetric	D9	RPS Laboratories, Manchester	UKAS

APPENDIX 2: Emission Point PMA1 Main Scrubber

Stack Gas Measurements

Table 7 - Temperature and Velocity Profile

Results of Gas Flows and Gas Temperatures Measured from the PMA1 Main Scrubber Stack at Atritor Limited, Coventry in September 2005

Traverse Point (m)	Sample Plane A				Sample Plane B			
	T (°C)	ΔP (mm H ₂ O)	Neg. Flow?	Spin <15°	T (°C)	ΔP (mm H ₂ O)	Neg. Flow?	Spin <15°
0.19	25	12	N	Y	31	35	N	Y
0.57	28	13	N	Y	29	38	N	Y

Barometric pressure (kPa)	102.5
Static Pressure (mm H₂O)	-220
Stack Dimension Ø (m)	0.76 x 0.70

Table 8 - Gas Measurements (continued)

Results of Total Particulate Matter and General Emission Parameters Measured from the PMA1 Main Scrubber Stack at Atritor Limited, Coventry in September 2005

Emission Parameter	Units	Mean Result
Sample Date	-	19 th September 2005
Sample Period	-	12:08 – 13:45
Barometric Pressure	kPa	102.5
Internal Area Of Duct	m ²	0.53
Static Pressure	mm H ₂ O	-220
Stack Moisture Content	%	1.6
Stack Temperature	°C	28
Gas Velocity (as measured at sampling plane)	m/sec	16
Volumetric Flowrate (as measured)	m ³ /sec	8.5
Volumetric Flowrate (at reference conditions)	m ³ /sec*	7.6
<hr/>		
Total Particulate Matter Mass Emission	kg/hr	0.98
Total Particulate Matter Concentration	mg/m ³ *	36

Notes:

* Reference conditions expressed as 273 K, 101.3 kPa, without correction for moisture content.

Photograph

Photograph of PMA1 Main Scrubber Stack at Atritor Limited, Coventry in September 2005



Reportable Blank Results

Table 9 - Results of the Reportable Blank Concentrations for Total Particulate Matter PMA1 Main Scrubber Stack at Atritor Limited, Coventry in September 2005

Emission Parameter	Date of Sampling	Units	Mean Concentration #
Total Particulate Matter	19 th September 2005	mg/m ³	<0.73

Notes:

Reference conditions expressed as 273 K, 101.3 kPa, without correction for moisture content.

Certificates of Analysis



RPS Laboratories

RPS Laboratories . Unit 12 . Waters Edge Business Park . Modwen Road . Salford . M5 3EZ
Tel: (0161) 872 2443 . Fax: (0161) 877 3959

Test Certificate

RPS CONSULTANTS
STEADINGS BARN
PURY HILL BUSINESS PARK
NR ALDERTON
TOWCESTER
NN12 7LS

CRT No 044575 : Issue 1
Ord No FTA4870

Date Tested 23/09/05
Date Reported 23/09/05

Attn: MATT SUMNER

Item - 2 WASHES AND 2 FILTERS FOR TPM

Specification- Not Applicable

Total particulate		- In-House Method D9	
Sample	Description	Result	Comments
01:377967	6487	14.62 mg	Nil
02:377968	T107577	15 mg	Nil
03:377969	6486	<0.1 mg	Nil
04:377970	T107576	<0.5 mg	Nil

Certificate Comments

Date of sample receipt: 16/09/2005

If you have any queries regarding this analysis please do not hesitate to contact the Laboratory Manager, Joanne Dewhurst.

Analysis was carried out on the samples 'as received'.

Standard terms and conditions are applicable, a copy is available on request.

Tested by Catherine Weatherall
Joanne Dewhurst

For and on authority of
RPS Laboratories