

RPS Health, Safety and Environment
Steadings Barn
Pury Hill Business Park
Nr Alderton
Towcester
Northants NN12 7LS

Report Date: 15th February 2008
Report Ref: FTA 6636

COVRAD HEAT TRANSFER LTD

**Report on Air Emission Monitoring at
COVRAD HEAT TRANSFER LTD
Coventry, Warwickshire, CV5 6BN
January 2008**

**Stack Emission Monitoring Report – Executive Summary
Ref. FTA 6636**



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Report for Periodic Monitoring of Emissions to Atmosphere

Part 1: Executive Summary

Operator: Covrad Heat Transfer Ltd

Installation: Canley, Coventry

**Emission Points: Red Oxide Booth
Industrial Spray Booth 1
Industrial Spray Booth 2
Assembly Shop Spray Booth**

Monitoring Dates: 23rd - 28th January 2008



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Contract Reference: FTA 6636

Operator: Covrad Heat Transfer Ltd

**Address: Sir Henry Parkes Road
Canley
Coventry
CV5 6BN**

Monitoring Organisation: RPS Health, Safety & Environment

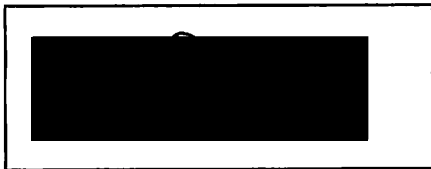
**Address: Steadings Barn, Pury Hill Business Park, nr Alderton,
Towcester, Northamptonshire, NN12 7LS**

Report Date: 15th February 2008

Report Approved By: Matthew Sumner

Position: Consultant

MCERTS Registration No.: MM 05 622

Signature: 

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Monitoring Objectives

At the request of Mr Bob Holmes of Covrad Heat Transfer Limited, RPS Health, Safety and Environment conducted air emission monitoring at the Canley site, Coventry in January 2008.

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 Points							
	Red Oxide Booth	Industrial Spray Booth 1		Industrial Spray Booth 2		Assembly Shop Spray Booth		
		Left Exhaust	Right Exhaust	Left Exhaust	Right Exhaust	Exhaust #1	Exhaust #2	Exhaust #3
Total Particulate Matter	✓	✓	✓	✓	✓	×	✓	✓
Specific Requirements	Normal Operating Conditions							

Notes:

- ✓ Represents the actual parameters monitored
- × Represent parameters requested but not actually monitored

Monitoring Results**Table 2 – Monitoring Results from the Red Oxide Booth Exhaust at Covrad Heat Transfer Ltd., Canley, Coventry in January 2008**

Substance Monitored	Emission Limit Value [*]	Periodic Monitoring Result	Units	Uncertainty (mg/m ³) [#]	Reference Conditions 273K, 101.3kPa.....	Sampling Date	Sampling Times	Monitoring Reference Method	Accreditation Status	Operating Status
Total Particulate Matter	50	2.3	mg/m ³	± 0.25	wet gas, without correction for oxygen	23-Jan-08	10:50-11:52	BS-EN 13284-1 2002	MCERTS	Normal

Notes:# *The uncertainty associated with the quoted result is at the 95% confidence interval** *Emission Limit Value taken from Secretary of State Process Guidance Note 6/23(04) – Guidance for Coating of Metal and Plastic Processes***Table 3 – Monitoring Results from the Industrial Spray Booth 1 - Left Exhaust at Covrad Heat Transfer Ltd., Canley, Coventry in January 2008**

Substance Monitored	Emission Limit Value [*]	Periodic Monitoring Result	Units	Uncertainty (mg/m ³) [#]	Reference Conditions 273K, 101.3kPa.....	Sampling Date	Sampling Times	Monitoring Reference Method	Accreditation Status	Operating Status
Total Particulate Matter	50	1.4	mg/m ³	± 0.20	wet gas, without correction for oxygen	23-Jan-08	13:45-14:45	BS-EN 13284-1 2002	MCERTS	Normal

Notes:# *The uncertainty associated with the quoted result is at the 95% confidence interval** *Emission Limit Value taken from Secretary of State Process Guidance Note 6/23(04) – Guidance for Coating of Metal and Plastic Processes*

Table 4 – Monitoring Results from the Industrial Spray Booth 1 - Right Exhaust at Covrad Heat Transfer Ltd., Canley, Coventry in January 2008

Substance Monitored	Emission Limit Value [¥]	Periodic Monitoring Result	Units	Uncertainty (mg/m ³) #	Reference Conditions 273K, 101.3kPa....	Sampling Date	Sampling Times	Monitoring Reference Method	Accreditation Status	Operating Status
Total Particulate Matter	50	2.4	mg/m ³	± 0.26	wet gas, without correction for oxygen	24-Jan-08	10:24-11:27	BS-EN 13284-1 2002	MCERTS	Normal

Notes:

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

¥ Emission Limit Value taken from Secretary of State Process Guidance Note 6/23(04) – Guidance for Coating of Metal and Plastic Processes

Table 5 – Monitoring Results from the Industrial Spray Booth 2 - Left Exhaust at Covrad Heat Transfer Ltd., Canley, Coventry in January 2008

Substance Monitored	Emission Limit Value [¥]	Periodic Monitoring Result	Units	Uncertainty (mg/m ³) #	Reference Conditions 273K, 101.3kPa....	Sampling Date	Sampling Times	Monitoring Reference Method	Accreditation Status	Operating Status
Total Particulate Matter	50	1.7	mg/m ³	± 0.19	wet gas, without correction for oxygen	24-Jan-08	14:05-15:17	BS-EN 13284-1 2002	MCERTS	Normal

Notes:

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

¥ Emission Limit Value taken from Secretary of State Process Guidance Note 6/23(04) – Guidance for Coating of Metal and Plastic Processes

Table 6 – Monitoring Results from the Industrial Spray Booth 2 - Right Exhaust at Covrad Heat Transfer Ltd., Canley, Coventry in January 2008

Substance Monitored	Emission Limit Value [*]	Periodic Monitoring Result	Units	Uncertainty (mg/m ³) [#]	Reference Conditions 273K, 101.3kPa....	Sampling Date	Sampling Times	Monitoring Reference Method	Accreditation Status	Operating Status
Total Particulate Matter	50	1.5	mg/m ³	± 0.16	wet gas, without correction for oxygen	25-Jan-08	10:25-11:27	BS-EN 13284-1 2002	MCERTS	Normal

Notes:# *The uncertainty associated with the quoted result is at the 95% confidence interval** *Emission Limit Value taken from Secretary of State Process Guidance Note 6/23(04) – Guidance for Coating of Metal and Plastic Processes***Table 7 – Monitoring Results from the Assembly Shop Booth - Middle Exhaust 2 at Covrad Heat Transfer Ltd., Canley, Coventry in January 2008**

Substance Monitored	Emission Limit Value [*]	Periodic Monitoring Result	Units	Uncertainty (mg/m ³) [#]	Reference Conditions 273K, 101.3kPa....	Sampling Date	Sampling Times	Monitoring Reference Method	Accreditation Status	Operating Status
Total Particulate Matter	50	2.5	mg/m ³	± 0.27	wet gas, without correction for oxygen	28-Jan-08	10:51-11:52	BS-EN 13284-1 2002	MCERTS	Normal

Notes:# *The uncertainty associated with the quoted result is at the 95% confidence interval** *Emission Limit Value taken from Secretary of State Process Guidance Note 6/23(04) – Guidance for Coating of Metal and Plastic Processes*

Table 8 – Monitoring Results from the Assembly Shop Booth - Right Exhaust at Covrad Heat Transfer Ltd., Canley, Coventry in January 2008

Substance Monitored	Emission Limit Value*	Periodic Monitoring Result	Units	Uncertainty (mg/m ³) #	Reference Conditions 273K, 101.3kPa...	Sampling Date	Sampling Times	Monitoring Reference Method	Accreditation Status	Operating Status
Total Particulate Matter	50	3.3	mg/m ³	± 0.36	wet gas, without correction for oxygen	28-Jan-08	13:31-14:33	BS-EN 13284-1 2002	MCERTS	Normal

Notes:

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

* Emission Limit Value taken from Secretary of State Process Guidance Note 6/23(04) – Guidance for Coating of Metal and Plastic Processes

Operating Information

Table 9 – Operating Information During Monitoring of the Specified Spray Booth Exhausts at Covrad Heat Transfer Ltd., Canley, Coventry in January 2008

Parameter	Red Oxide Booth	Industrial Spray Booth 1		Industrial Spray Booth 2		Assembly Shop Spray Booth		
		Left Exhaust	Right Exhaust	Left Exhaust	Right Exhaust	Exhaust #1	Exhaust #2	Exhaust #3
Sample Date	23-Jan-08	23-Jan-08	24-Jan-08	24-Jan-08	25-Jan-08	N/A	28-Jan-08	28-Jan-08
Process Type	Manual spraying of red oxide based primer onto radiator parts	Manual spraying of solvent free paint onto radiator parts	Manual spraying of solvent free paint onto radiator parts	Manual spraying of solvent free paint onto radiator parts	Manual spraying of solvent free paint onto radiator parts	N/A	Manual spraying of solvent free paint onto radiator parts and completed units	Manual spraying of solvent free paint onto radiator parts and completed units
Process Duration	Variable depending on size of part	Variable depending on size of part	Variable depending on size of part	Variable depending on size of part	Variable depending on size of part	N/A	Variable depending on size of part	Variable depending on size of part
If 'Batch', was monitoring carried out over the whole batch?	Yes – several parts sprayed during monitoring period	Yes – several parts sprayed during monitoring period	Yes – several parts sprayed during monitoring period	Yes – several parts sprayed during monitoring period	Yes – several parts sprayed during monitoring period	N/A	Yes – several parts sprayed during monitoring period	Yes – several parts sprayed during monitoring period
If 'No', give details	-	-	-	-	-	N/A	-	-
Abatement/Operational?	Filters - Yes	Filters - Yes	Filters - Yes	Filters - Yes	Filters - Yes	N/A	Filters - Yes	Filters - Yes
Feedstock	Radiator Components and parts	Radiator Components and parts	Radiator Components and parts	Radiator Components and parts	Radiator Components and parts	N/A	Radiator Components and parts	Radiator Components and parts
Throughput	Varies	Varies	Varies	Varies	Varies	N/A	Varies	Varies

Monitoring Deviations**Table 10 – Monitoring Deviations During Monitoring of the Specified Spray Booth Exhausts at Covrad Heat Transfer Ltd., Canley, Coventry in January 2008**

Substance Deviations	Monitoring Deviations	Other Relevant Issues
Assembly Shop Spray Booth Left Hand Side Exhaust 1 not working during monitoring campaign. As a result the exhaust was not monitored.		