

Raines House Denby Dale Road Wakefield WF1 1HR England Registered No. 5067893

Telephone: +44 (0)1924 203970 General Fax: +44 (0)1924 387320 Spares/Service Fax: +44(0)1924 377515

EC DECLARATION OF CONFORMITY

Greens Power Reference No:

OVL3036A

Client:

Ascot Environmental Limited

Client Purchase Order Ref:

27746 Job No. 06/409

Project:

2 off Waste Heat Boilers (W2E) Dargavel

Description of Goods:-

The manufacture of the following items:-

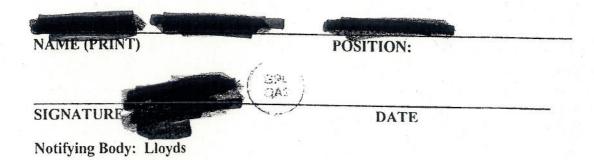
2 off Boiler Sets comprising:

Primary Evaporator Secondary Evaporator Primary Superheater Secondary Superheater

Economiser

We hereby certify that the above equipment has been manufactured in accordance with BS EN 12952 and the Pressure Equipment Directive 97/23/EC and the requirements specified by the contract documents.

FOR GREENS POWER LIMITED



Certificate no: Page 1 of 1 COV 1112456/01

Lloyd's Register

Inspection Certificate

Demos

Ascot Environmental Ltd.

(Order 27746 Job No. 06/409)

2 off Waste Heat Boilers (W2E), Dargavel

Cher

Greens Power Limited

Raines House, Denby Dale Road,

Wakefield, WF1 1HR, England

Client's Order Number

A8396: OVL3036A

Office 1

Coventry

ate 02 March 2012

Order Status

Complete

Inspection Dates

First 31 May 2011

inal 27 February 2012

This certificate is issued to GREENS POWER LIMITED., to certify that the undersigned did at their request attend their workshop in Calder Vale Road, Wakefield, for the purpose of examining the items listed below, manufactured to Works Order No. OVL3036A:

Description:

2 off Waste Heat Boilers (W2E), each comprising:-

Primary Evaporator Secondary Evaporator Primary Superheater Secondary Superheater

Economiser

Code: Drawings: BS EN 12952: 2001 & the Pressure Equipment Directive 97/23/EC Module G OVL3036-01 Rev. B and sub-level drawings as per Design Appraisal Document

The following examinations were carried out in accordance with Code & ITP No. OVL3036A/ITP1 Issue D: -

- 1. Review of Design Appraisal Document: COV1112456 O-23387/PKC dated 19 October 2011 Issue 1 refers
- 2. Review of Weld Index Sheet
- 3. Review of Welding Procedures, Procedure Qualifications and Welder Qualifications
- 4. Identification of materials and review of certification
- Monitor fabrication
- Review of NDE results
- Witness of unit hydrostatic pressure tests at 118 barg (Primary Evaporators); 147.1 barg (Secondary Evaporators), 142.8 barg (Primary/Secondary Superheaters); and 144.8 barg (Economisers)
- 8 Verify calibration status of test equipment used
- 9 Final Inspection
- 10. Review stamping of nameplates
- 11 Review of documentation

All of the above was carried out to the satisfaction of the undersigned. On the basis of the scope of inspection undertaken, the equipment has been found to comply with specification requirements

For identification purposes the nameplates were stamped: 'iLRs'



M J Lucas

For self and on behalf of J. M. Lack, E. K. Darley, R. Johnson Surveyors to Lloyd's Register EMEA.

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From:

Sent: 03 October 2012 15:22

To: Peter Dodd

Cc: Callum MacDonald

Subject: Scotgen incident 6th August 2012

Attachments: HSE Incident Report for the 6th August 2012 - updated 3rd Oct.docx; T21665 Figure Sheets.pdf; T21665GreensPowerReport.pdf; Investigation commentary GPL.docx Good afternoon Peter – please find attached the following...

An updated incident report – Alstom appointed and started on site this week.

Commentary from Greens

Met lab report and photo images

I have still got an enquiry out with Greens regarding the test certificate for the switch.

The PLC contractor was a company called Industrial Process Control Itd,

Chris has been to site recently to do some further work and will be carrying out the boiler logic testing before we bring boiler 1 back on line.

That's all for now,

Regards



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Communications via the GSi may be automatically logged, monitored and/or recorded for legal purposes.

HSE Incident Report Number: 74ABE75EB5 – updated 3rd Oct

Site Location: Scotgen (Dumfries) Ltd.

Dargavel Stores

Off Lockerbie Road

Dumfries

DG1 3PG

Telephone: 01387 240066

Background: Scotgen (Dumfries) is a waste gasification facility; the site has two identical energy recovery lines 'Stream 1' and 'Stream 2'.

Incident Description: On the 6th August 2012 at approximately 13-40hrs a pipe burst occurred on Stream 1. The pipe burst occurred on the outlet pipe from the first evaporative section of the boiler. A decision was made to quench Stream 1 and as a precaution Stream 2 was brought off line whilst the circumstances of the pipe burst could be fully understood. A full investigation was initiated in conjunction with the boiler manufacturers GPL.

The incident was reported to the HSE on-line (Report Number: 74ABE75EB5) on the 7th August 2012 and to SEPA by telephone and e-mail on the 6th August 2012 (Report Number: 0154)

Initial Findings: Preliminary investigations point to the following conclusions-

- Steaming in the first evaporative section and header of Stream 1 which produced steam at a temperature and pressure greater than the design temperature of the pipe work.
- The temperature trip switch TS 3377 did not operate on the system. On independent laboratory testing following the incident the switch failed to initiate within its design criteria.
- Initial visual investigations show no erosion or corrosion within the damaged pipe work.
- A sample of the damaged pipe work will be tested in a metallurgical laboratory to confirm GPL's initial investigation. This report, with some commentary from GPL, is appended here.

Injuries: suffered a minor injury to his elbow. As a precaution he attended hospital on the evening of the 6th August and returned to work as normal on the 7th August 2012.

Property damage: Pipe work in the vicinity of the outlet pipe was damaged with some damage to the roof section close to the pipe.

Planned works: Further investigation works have been undertaken prior to any repair works being commenced on boiler 1. This included metallurgical testing to confirm initial conclusions and ensure the efficacy of the boiler to be repaired. Personnel communication with the author of the report has confirmed that the condition of pipework to be welded too as part of the repairs is more than adequate for these purposes. The header and all affected or damaged external pipework is to be replaced as a precaution. The completed works will include the testing and recertification of the boiler by a competent pressure vessel company and confirmation that the works carried out are

acceptable to Scotgen's appointed competent person 'Allianz Engineering' under the written Scheme of Examination. The following works have been undertaken prior to works recommencing:

Stream 2

- Test temperature safety trip switch system and risk assess its suitability. The previously installed temperature trip switch has been replaced with a thermocouple type instrument that will allow a warning and alarm to be activated before any activation of the trip. Scotgen are replacing the 'latching type temperature switch' with a 'temperature sensor and controller'. The new installation has the advantage of being able to measure continuous temperature which will allow monitoring of normal running temperatures. The new set up will be installed on both streams.
- Amend/ review operating manual.
- Revisit operator training and revise documentation.
- Review boiler venting procedure.

Stream 1

- Undertake metallurgical laboratory analysis of damaged pipework.
- Competent contractor to undertake pipework repair, appointed.
- Replacement of the temperature switch.
- Hydro-test boiler to allow recertification of the boiler with the relevant Insurer's / Scotgen's competent person 'Allianz Engineering'.

End



Telephone: +44 (0)1924 203970 General Fax: +44 (0)1924 387320 Spares/Service Fax: +44(0)1924 377515

Lifting Valves Test Certificate

Greens Power Reference No: SVL3G3 (C)
Site Name: SLATGED LTS, DEMFRIES
Date of Lift/Test: STA MARKETT 2012
Description of Equipment Lifted:
Description of Equipment Lifted: SAFETY VALUES BALLES
SV3168/1 SV3169/1 SV3224/1
We hereby certify that the above equipment has been lifted/tested in accordance with our Standard Operating Procedures and have recorded the lift/test as being
satisfactory.
6-3-12
SIGN pehalf of Greens Power Limited) NAME (PRINT)

We, the undersigned, certify as witnesses that a lift/test has been carried out on the above named equipment and the lift/test was recorded as being satisfactory.

SIGNATURE (on behalf of Client)

NAME (PRINT)

OVF157



Telephone: +44 (0)1924 203970 General Fax: +44 (0)1924 387320 Spares/Service Fax: +44(0)1924 377515

Hydraulic Pressure Test Certificate

Greens Power Reference No: 25 41 Site Name or Ship's Name:							
Date of Test:							
Hydraulic Test Pressure: Pressure Gauge No: 19-6-6-6-1							
Description of Equipment Tested:	13						
Para Bearing & Bather Charles							
Bus is weath Two Comesons &.	To British Co.						
1 Same Con a Marker we b. P.S.	It is come to see that I						
We hereby certify that the above equipment has be	en lested in accordance with						
our Standard Operating Procedures and have	recorded the test as being						
satisfactory.							
SIGNATURE (on behalf of Greens Power Limited)	NAME (PRINT)						
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	A.						
We, the undersigned, certify as witnesses that a h	ydraulic test has been carried						
out on the above named equipment and the	test was recorded as being						
satisfactory.							
	250 (2012)						
SIGNATURE (on behalf of Inspecting Authority)	NAME (PRINT)						
3101							
mymp (Labolf of Client)	NAME (PRINT)						
SIGNATURE (on behalf of Client)	MANUEL (I MILLI)						



Telephone: +44 (0)1924 203970 General Fax: +44 (0)1924 387320 Spares/Service Fax: +44(0)1924 377515

Hydraulic Pressure Test Certificate

Greens Power Reference No: OVL3036A Site Name or Ship's Name: Scotgen Limited, Dumfrie Date of Test: 14/9/2011 Hydraulic Test Pressure: 144.8 bar Pressure Gauge No: 072558 Date of Last Calibration: 5/5/11	es
Description of Equipment Tested:	
Economiser Boiler 1	
We hereby certify that the above equipment has lour Standard Operating Procedures and have satisfactory.	been tested in accordance with recorded the test as being
GPL QC3 SIC RE (on behalf of Greens Power Limited)	NAME (D)
We, the undersigned, certify as witnesses that a l	nydraulio toet has been
satisfactory.	test was recorded as being
SIGNATURE (on-behalf of Inspecting Authority)	NAME (PRINT)
SIGNATURE (on behalf of Client)	NAME (PRINT)



Telephone: +44 (0)1924 203970 General Fax: +44 (0)1924 387320 Spares/Service Fax: +44(0)1924 377515

Hydraulic Pressure Test Certificate

Greens Power Reference No: OVL3036A

Site Name or Ship's Name: Scotgen Limited, Dumfries Date of Test: 9/9/2011

147.1 bar Hydraulic Test Pressure: 9/5/2011 Pressure Gauge No: Date of Last Calibration: 072558,

Description of Equipment Tested:

Secondary Evaporator Boiler 1

We hereby certify that the above equipment has been tested in accordance with our Standard Operating Procedures and have recorded the test as being satisfactory.

GPL QC3

SICNATURE (on behalf of Greens Power Limited) NAME (PRINT)

We, the undersigned, certify as witnesses that a hydraulic test has been carried out on the above named equipment and the test was recorded as being satisfactory.

SIGNATURE (on behalf of Inspecting Authority)

NAME (PRINT)

SIGNATURE (on behalf of Client)



Greens Power Reference No: OVL3036A

Raines House Denby Dale Road Wakefield WF1 1HR England

Telephone: +44 (0)1924 203970 General Fax: +44 (0)1924 387320 Spares/Service Fax: +44(0)1924 377515

Hydraulic Pressure Test Certificate

Site Name or Ship's Name: Scotgen Limited, Dumtrie Date of Test: 16 9 11	s					
Date of Test: 16 9 11 Hydraulic Test Pressure: 142.8 bar						
Pressure Gauge No: 072 558						
Date of Last Calibration: 5/5/11						
Date of Bust Cumbration.						
Description of Equipment Tested:						
Primary Superheater Boiler 1	12					
4						
We hereby certify that the above equipment has l						
our Standard Operating Procedures and have	recorded the test as being					
satisfactory.						
GPL						
QC5	The same of the sa					
SIGNATURE (on behalf of Greens Power Limited)	NAME (PRINT)					
We, the undersigned, certify as witnesses that a	hydraulic test has been carried					
out on the above named equipment and the	•					
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or the side	englicity and an analysis					
SIGNATURE (on behalf of Inspecting Authority)	NIAME (DDING)					
SIGNATURE TO Denant of Inspecting Authority)	NAME (PRINT)					

E a						
SIGNATURE (on behalf of Client)	NAME (PRINT)					
O. C.						



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Hydraulic Pressure Test Certificate

Greens Power Reference No: OVL3036A

Site Name or Ship's Name: Scotgen Limited, Dumfries

26/9/11 Date of Test:

Hydraulic Test Pressure: 118 bar Pressure Gauge No: 072558 Date of Last Calibration: 5/5/11

Description of Equipment Tested:

Primary Evaporator Boiler 1

We hereby certify that the above equipment has been tested in accordance with our Standard Operating Procedures and have recorded the test as being

satisfactory.

GPL QC5

SIGNATURE (on behalf of Greens Power Limited) NAME (PRINT)

We, the undersigned, certify as witnesses that a hydraulic test has been carried out on the above named equipment and the test was recorded as being satisfactory.

SIGNATURE (on behalf of Inspecting Authority)

NAME (PRINT)

SIGNATURE (on behalf of Client)



GREENS POWER LIMITED PRESSURE VESSEL CERTIFICATE NO: COV1112456/2 SCHEDULE

EQUIPMENT DATA

Type:

Waste Heat Recovery Boilers (W2E)

Maximum Design Pressure:

Economiser = 60.5 Barg; Evaporators = 50.6 Barg;

Superheaters = 47.3 Barg

Capacity:

Economiser = 1118,80 kg; Primary Evaporator = 1702.31 kg;

Secondary Evaporator = 772.51 kg; Primary Superheater = 1035.63 kg; Secondary Superheater = 517.81 kg

The undermentioned documents have been reviewed for compliance with the Pressure Equipment Directive 97/23/EC and following Design Code(s):

BS EN12952: 2001

TECHNICAL FILE CONTENTS

As detailed in Design Appraisal Document COV1112456 O-23387/PKC

LRV REPORTS

Design Appraisal Document

Inspection Certificate

COV1112456 O-23387/PKC

COV1112456/01

19 October 2011

02 March 2012

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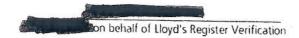
Schedule Issue

1

Date of Schedule Issue:

13 March 2012

LRV Notified Body Number 0038





EC CERTIFICATE OF CONFORMITY

This is to certify that Lloyd's Register Verification, a Notified Body under the terms of: The Pressure Equipment Directive 97/23/EC;

The Pressure Equipment Regulations 1999, UK Statutory Instrument 1999 No. 2001 and 2002 No. 1267, did (in accordance with Module G of the Directive) undertake an EC Unit Verification on the stated pressure equipment to ensure its conformity with the requirements of the Directive which apply to it. The equipment identified below was shown to comply.

This certificate is issued to:

APPLICANT:

Greens Power Limited

Wakefield West Yorkshire United Kingdom

PRODUCT DESCRIPTION:

Pressure Vessel

PRODUCT TYPE:

Waste Heat Recovery Boilers (W2E)

DESIGN STANDARD:

BS EN12952: 2001

The Pressure Equipment, Serial Number OVL3036A Boiler 1 and Boiler 2 has been designed, manufactured and tested in accordance with the above standard.

The final inspection and proof test in accordance with the requirements of Section 3.2 of the essential safety requirements was carried out on the above equipment, as verified by Inspection and Test Certificate No COV1112456/01 issued by Lloyd's Register's Coventry Office on the 2 March 2012.

The attached Schedule details the content of the Technical Documentation and Specified Standards and shall form part of this certificate.

Certificate No:

COV1112456/2

Date of Issue:

13 March 2012

Certificate Issue

1

LRV Notified Body Number 0038



Lloyd's Register Verification Limited, 71 Fenchurch Street London EC3M 4BS UK

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Certificate no: Page 1 of 1

COV 1112456/01



Inspection Certificate

Project

Ascot Environmental Ltd.

(Order 27746 Job No. 06/409)

2 off Waste Heat Boilers (W2E), Dargavel

Greens Power Limited

Raines House, Denby Dale Road, Wakefield, WF1 1HR, England

Client's Order Number

A8396; OVL3036A

Office

Coventry

02 March 2012

Order Status

Complete

Inspection Dates

31 May 2011 First

27 February 2012

This certificate is issued to GREENS POWER LIMITED., to certify that the undersigned did at their request attend their workshop in Calder Vale Road, Wakefield, for the purpose of examining the items listed below, manufactured to Works Order No. OVL3036A:

Description:

2 off Waste Heat Boilers (WZE), each comprising:-

Primary Evaporator Secondary Evaporator Primary Superheater Secondary Superheater

Code: Drawings: BS EN 12952: 2001 & the Pressure Equipment Directive 97/23/EC Module G

OVL3036-01 Rev. B and sub-level drawings as per Design Appraisal Document

The following examinations were carried out in accordance with Code & ITP No. OVL3036A/ITP1 Issue D:

- Review of Design Appraisal Document: COV1112456 O-23387/PKC dated 19 October 2011 Issue 1 refers
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- Identification of materials and review of certification
- Monitor fabrication
- Review of NDE results
- Witness of unit hydrostatic pressure tests at 118 barg (Primary Evaporators); 147.1 barg (Secondary Evaporators), 142.8 barg (Primary/Secondary Superheaters); and 144.8 barg (Economisers)
- Verify calibration status of test equipment used
- Final Inspection
- 10. Review stamping of nameplates
- Review of documentation

All of the above was carried out to the satisfaction of the undersigned. On the basis of the scope of inspection undertaken, the equipment has been found to comply with specification requirements

For identification purposes the nameplates were stamped: 'iLRs'



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Hydraulic Pressure Test Certificate

Greens Power Reference No: OVL3036A

Site Name or Ship's Name: Scotgen Limited, Dumfries

Date of Test: 26 911

Hydraulic Test Pressure: 118 bar Pressure Gauge No: 072558 Date of Last Calibration: 5/5/11

Description of Equipment Tested:

Primary Evaporator Boiler 1

We hereby certify that the above equipment has been tested in accordance with our Standard Operating Procedures and have recorded the test as being satisfactory.

GPL QC5

SIGNATURE (on behalf of Greens Power Limited) NAME (PRINT)

We, the undersigned, certify as witnesses that a hydraulic test has been carried out on the above named equipment and the test was recorded as being satisfactory.

SIGNATURE (on behalf of Inspecting Authority)

NAME (PRINT)

SIGNATURE (on behalf of Client)



Telephone: +44 (0)1924 203970 General Fax: +44 (0)1924 387320 Spares/Service Fax: +44(0)1924 377515

Hydraulic Pressure Test Certificate

Greens Power Reference No: OVL3036A

Site Name or Ship's Name: Scotgen Limited, Dumfries

Date of Test: 16 9 11

Hydraulic Test Pressure: 142.8 bar Pressure Gauge No: 072 558 Date of Last Calibration: 5/5/11

Description of Equipment Tested:

Primary Superheater Boiler 1

We hereby certify that the above equipment has been tested in accordance with our Standard Operating Procedures and have recorded the test as being satisfactory.



SIGNATURE (on behalf of Greens Power Limited) NAME (PRINT)

We, the undersigned, certify as witnesses that a hydraulic test has been carried out on the above named equipment and the test was recorded as being satisfactory.

WITNESSED/RAWTEWED
Logdy Register EMEA

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SIGNATUL on benalf of Inspecting Authority)

NAME (PRINT)

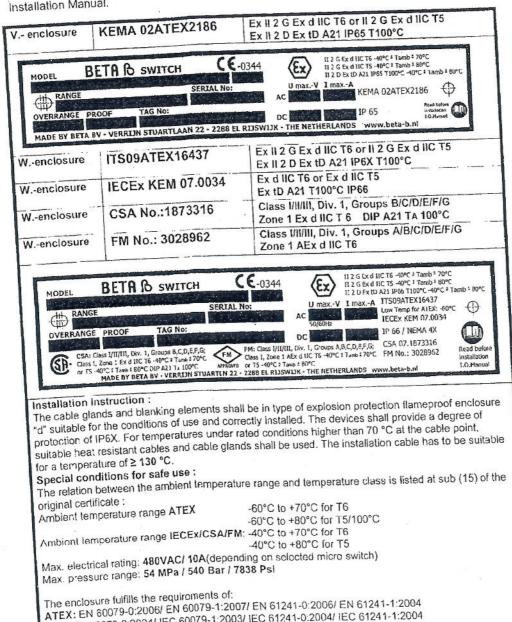
SIGNATURE (on behalf of Client)

ATEX/IECEX/CSA/FM

DECLARATION OF CONFORMITY

This is to confirm that the BETA explosion proof pressure & temperature switches comply to the below mentioned applicable certificates.

Special attention should be paid to the additional comments like "Installation Instruction" and "Special conditions for safe use" as they are regarded to be an integral part of this Installation Manual.



IEC: IEC 60079-0:2004/ IEC 60079-1:2003/ IEC 61241-0:2004/ IEC 61241-1:2004

CSA: C22.2 No. 0-M91/ C22.2 No. 61010-1-04/ C22.2 No. 30-M1986

FM: FM Approval Standard Crass No. 3810/ No. 3615 ANSI/ISA S82.01-1994/ S82.03-1988 NEMA 250 -2003 (4X)



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Hydraulic Pressure Test Certificate

Greens Power Reference No: OVL3036A

Site Name or Ship's Name: Scotgen Limited, Dumfries

16/4/11 Date of Test:

Hydraulic Test Pressure: 142.8 bar 672558 Pressure Gauge No: Date of Last Calibration: 5 |5 | 11

Description of Equipment Tested:

Secondary Superheater Boiler 1

We hereby certify that the above equipment has been tested in accordance with our Standard Operating Procedures and have recorded the test as being satisfactory.

SIGNATURE (on behalf of Greens Power Limited) NAME (PRINT)

We, the undersigned, certify as witnesses that a hydraulic test has been carried out on the above named equipment and the test was recorded as being satisfactory. TINESSED REVIEWED

SIGNATURE (on behalf of Inspecting Authority) NAME (PRINT)

SIGNATURE (on b) Client)

NAME (PRINT)

OVF083/1



Telephone: +44 (0)1924 203970 General Fax: +44 (0)1924 387320 Spares/Service Fax: +44(0)1924 377515

Hydraulic Pressure Test Certificate

Greens Power Reference No: OVL3036A

Site Name or Ship's Name: Scotgen Limited, Dumfries

9/9/2011 Date of Test:

Hydraulic Test Pressure: Pressure Gauge No: Date of Last Calibration: 072558,

Description of Equipment Tested:

Secondary Evaporator Boiler 1

We hereby certify that the above equipment has been tested in accordance with our Standard Operating Procedures and have recorded the test as being





SIGNATURE (on behalf of Greens Power Limited) NAME (PRINT)

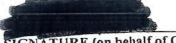
We, the undersigned, certify as witnesses that a hydraulic test has been carried out on the above named equipment and the test was recorded as being satisfactory.



SIGNATURE (on behalf of Inspecting Authority)



NAME (PRINT)



SIGNATURE (on behalf of Client)

