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BOILER / SURPLUS GAS BURNER SERVICE / INSPECTION RECORD

Date...7th December 2017..... Time.....15.30 hrs

Site.....FIVE FORDS WASTE WATER TREATMENT WORKS.....

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Engineer...JAMES ELLIS.....

Equipment Inspected/Service.....DUNPHY/ BABCOCK WANSON DUAL FUEL BOILER.....

...SERIAL NO. 23160 /24291058584.....

Reason for Visit.....SERVICE.....

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Authorised by.....CHRIS EDWARDS DCWW.....

Description of Work Carried Out... The unit was isolated both electrically and both fuel supplies.

The fan assembly door was opened allowing access to the combustion tube and related ignition

Components, these were inspected cleaned and reassembled, all found to be good. The UV

Flame sensor was removed cleaned and inspected, all good. The air damper door on the rear

Of the fan was removed, the mechanic's of the assembly were checked and lubricated and door

Refitted. The main valves on both biogas and natural gas lines were inspected, terminal boxes

Checked for water ingress and resistance checked on motor's, the second stage unit on the

Biogas line is open circuit, but the boiler is never called to run on biogas. The flame arrester was

removed, cleaned, inspected and reassembled. All isolations were removed and the boiler called to

run. The following safety checks were carried out, flame sensing, low gas pressure, E stop etc.

all were operating correctly. The unit was then returned to automatic operation.

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.....PTO If Required

INSPECTION SHEET

	Description	Notes	
HEAT EXCHANGER	Clean flue ways, visually inspect for signs of distress.	Externally all good. Did not open boiler combustion tube.	
BURNERS - INJECTOR	Dismantle, clean dust / lint from air ports and arrestors.	All good	
FLAME PICTURE	Inspect physical state of burning flame where applicable.	Flame window cleaned and flame found to be good	
IGNITION	Test manual / electrical ignition for effective lighting of burners	All good	
ELECTRICS	Check fuse rating is correct and physical state of wiring	All good	
CONTROLS	Check correct operation of boiler controls	All good	
LEAKS	Check for any leaks to gas, water within the boiler casing.	All good	
GAS CONNECTIONS	Test to Marches Biogas specifications, correct size and sound	ALL GOOD	
SEALS	Casing screws and seals are functioning correctly.	ALL GOOD	
PIPE-WORK	Check gas pipe sizes are correct for safe operation of boiler.	ALL GOOD	
FANS	Check correct operation and clean as necessary	ALL GOOD	
LOCATION / STABILITY	Check boiler is installed as manufacturer's instructions	ALL GOOD	
FLUE GAS ANALYSIS			
O2		3.8 %	
CO		13 PPM	
FLUE TEMPERATURE		58 C	
EFFICIENCY		97.8 %	

6 POINT SAFETY CHECK

1. VENTILATION SIZE Extremely important, especially conventional flue boilers.
2. FLUE TERMINATION..... Is as manufacturer's instructions and regulations.
3. FLUE FLOW TEST..... Smoke test flue effectiveness and leakage without appliance.
4. SPILLAGE TEST..... Check correct operation of flue with appliance in place.
5. WORKING PRESSURE..... Gas pressure is set to manufacturer's data information.
6. SAFETY DEVICES..... Check safety devices are working correctly.

List all defects not rectified at time of boiler inspection.

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