

UK RENEWABLE ENERGY

The Woodyard, Commonside, Cheadle, Staffordshire, ST10 2NR · 07973830934

BIOMASS BOILER AND KILN OPERATOR MANUAL

**AT NO POINT SHOULD THE BOILERS BE RUNNING
UNMANNED OR OUTSIDE OF WORKING HOURS**

LOADING THE BOILER FOR START UP

- CLEAN AND SWEEP THE COLD ASH OUT OF THE BOILER AND DEPOSIT IT IN TO THE SPECIALISED ENCLOSED ASH CONTAINER.
- SAVE THE LARGER CHARCOAL FOR THE START PROCEDURE.
- SWEEP THE HEAT EXCHANGE TUBES IF NECESSARY.
- ONLY USE BSL APPROVED FUEL.
- MOISTURE TEST FUEL AND CHECK THE FUEL IS UNDER 25% MOISTURE.
- LOAD THE FIREBOX SO THAT THE LENGTH OF THE FUEL RUNS WITH THE LENGTH OF THE BOILER.

LIGHTING THE BOILER

- ENSURE THE BOILER FAN AND KILN ARE TURNED OFF BUT THE BOILER PUMP IS RUNNING.
- BUILD A SMALL FIRE WITH KINDLING WOOD NEAR THE FRONT OF THE FIRE BOX.
- ONCE THE FIRE IS ESTABLISHED ADD THE CHARCOAL.
- CLOSE THE FIREBOX DOOR AND TURN THE BOILER FANS ON.
- AFTER 10-15 MINUTES VISUALLY CHECK FOR EXCESSIVE SMOKE.

RUNNING THE KILN

ONCE THE BOILER REACHES IT'S SET POINT, TURN THE KILN ON ENSURING THE KILN DOORS ARE CLOSED.

RE-LOADING FUEL IN TO THE BOILER

AT ANY POINT YOU NEED TO OPEN THE DOOR TO THE FIREBOX,

- TURN OFF THE DOOR SWITCH.
- LEAVE THE BOILER FOR AROUND 10 MINUTES.
- THEN STAND BEHIND THE DOOR AND PULL TOWARDS YOU.
- LOAD THE FUEL ON TOP OF THE CHARCOAL IN DIRECTION OF THE LENGTH OF THE BOILER.
- CLOSE THE DOOR BY PUSHING THE LEVER DOWN.
- TURN THE DOOR SWITCH BACK TO THE ON POSITION.

CHECKING THE BOILER AND BEING AWARE OF EXCESS SMOKE

IT IS MANDATORY THAT THE BIOMASS BOILER IS VISUALLY INSPECTED FOR EXCESS SMOKE HOURLY.

IF EXCESS SMOKE IS FOUND TO BE COMING OUT OF THE CHIMMNEY

- TURN THE BOILER OFF AT THE DOOR SWITCH.
- ASK FOR ONE OF THE ENGINEERS TO CHECK THE BOILER BEFORE TURNING THE SWITCH BACK TO THE ON POSTION.
- OR REPORT THE PROBLEM TO WAYNE DYKE ON: 07724763544.

SHUT DOWN PROCEDURE

IT IS MANDATORY THAT THE BIOMASS BOILER IS NOT LEFT RUNNING IF SITE IS NOT MANED.

- TURN THE BIOMASS BOILER OFF AT THE MAIN CONTROL BOX.
- WAIT 20 MINS.
- TURN THE KILN OFF AT THE KILN CONTROL BOX.
- AFTER 10-15 MINUTES VISUALLY CHECK FOR ANY SMOKE. THIS SHOULD BE MINIMAL.

OUR STANDARD WORKING HOURS ARE 07:30 – 18:00 MONDAY TO FRDAY
AND 08:00 – 13:00 SATURDAY

IN THE EVENT OF AN EMERGENCY PLEASE CONTACT
WAYNE DYKE 07724 763 544
OR
MARK GELLATLY 07973 830 934