

# TIMESHEET REPORT

|   |                              |  |                                     |                              |
|---|------------------------------|--|-------------------------------------|------------------------------|
| CUSTOMER NAME<br>OPEN UNIVERSITY MILTON KEYNES  |                              | SITE CONTACT (OPERATOR RESPONSIBLE FOR F-GAS COMPLIANCE)<br>ALAN REID - FACILITIES |                                     | SHEET NUMBER<br><b>12230</b> |
| SITE NAME & ADDRESS (PLANT OWNER F-GAS)<br>OPEN UNIVERSITY, WALTON HALL, MILTON KEYNES. MK7 6AA |                              | ENGINEER<br>DANIEL CONDELLO  | CLIENT ASSET NUMBER<br><b>01010</b> |                              |
| REASON FOR VISIT<br>QUOTED REPAIRS  | MANUFACTURER<br>ROBUR        | MODEL  | GAHP GS LT                          |                              |
| JOB NUMBER<br>ORAC.2600_EST364112   | SERIAL No.<br>SEE ATTACHMENT | YEAR INSTALLED   | 01/01/2010                          |                              |
| PLANT LOCATION<br>GROUND FLOOR PLANT ROOM   | REFRIGERANT TYPE<br>R717     | TOTAL REF. CHARGE  | 28.0 KG                             |                              |
| PLANT REFERENCE<br>ABSORPTION UNDER FLOOR HEATING   | REFRIGERANT GWP<br>0         | IND. REF SYS. CHARGE   | 40 KG H2O                           |                              |
| LOADS SERVED<br>WALTON HALL BUILDING  | EQUIV. TONNES CO2E<br>0      | FGAS LEAK CHECK FREQ.  | NOT REQUIRED                        |                              |

WORK CARRIED OUT:

CARRIED OUT REPAIRS ON ROBUR N.1: REPLACED LEAKING OIL PUMP TESTED WORKING OK, ON ROBUR N. 2 REPLACED GAS SEALS ON GAS PIPE, CARRIED OUT TIGHTNESS TEST ON THIS UNIT PASSED (NO NEED TO REPLACE GAS PIPE). INSTALLED FLUE SUPPORT BRACKET ON ROBUR N. 4

ON ARRIVAL FOUND ROBUR N.4 IN ERROR "E207", (HIGH TEMPERATURE GENERATOR) THIS IS CAUSED GENERALLY BY FAULTY OIL PUMP, REPLACED IT THEN ANOTHER WARNING APPEARED "U229" AFTER INVESTIGATING IT HAS A FAULTY CONTROL BRAHAMA BOX, I USED ONE OF OURS TO TEST, STARTING WORKING OK, BUT EVENTUALLY IT TRIPPED AGAIN IN WARNING "U207" ATTACHED GAUGES, CARRIED OUT A PURGE FROM SOLUTION PUMP FOR ANY NON CONDENSABLE, CHECKED DEFLECTIONS ON SOLUTION PUMP NONE THERE, IF I GENTLY TAP ON SOLUTION PUMP WHERE INTERNAL CHECK VALVES ARE LOCATED IT STARTS TO OPERATE CORRECTLY AND GENERATOR TEMPERATURES START TO DROP ( PLEASE REFER TO SERVICE CHECKER REPORT AND LOOK AND GENERATOR TEMPERATURES ON GRAPH). MAIN CHECK VALVES ON SOLUTION ARE STICKING, THEREFORE IT NEEDS NEW SOLUTION PUMP, AS THESE UNITS ARE NOW NEARLY 10 YEARS OLD, WE RECOMMEND ALSO TO INSTALL SOLUTION RESTRICTOR AND HOT GAS BY PASS VALVE

| ENGINEERS TIME ON SITE & TRAVEL |            |       |        |        |       |              |         |         | MATERIALS USED |                      |
|---------------------------------|------------|-------|--------|--------|-------|--------------|---------|---------|----------------|----------------------|
| DAY                             | DATE       | START | FINISH | TRAVEL | TOTAL | COMPLETE Y/N | MILEAGE | No. ENG | QUANTITY       | DESCRIPTION          |
| MON                             | 11/11/2019 | 08:00 | 16:00  | 3      | 11    | Y            | 142     | 1       | 2              | OIL PUMPS COMPLETE   |
| TUES                            |            |       |        |        |       |              |         |         | 1              | FLUE BRACKET         |
| WED                             |            |       |        |        |       |              |         |         | 1              | UNISTRUT BRACKET     |
| THUR                            |            |       |        |        |       |              |         |         |                | VARIOUS FITTINGS     |
| FRI                             |            |       |        |        |       |              |         |         |                | NO NEED FOR GAS PIPE |
| SAT                             |            |       |        |        |       |              |         |         |                |                      |
| SUN                             |            |       |        |        |       |              |         |         |                |                      |

CUSTOMER TO SIGN FOR ENGINEERS TIME ON SITE

ENGINEER SIGNATURE: *Daniel Condello* CUSTOMERS SIGNATURE: \_\_\_\_\_

F-GAS QUALIFICATION: C&G 2079 PART 1 CUSTOMER NAME: ALAN REID

SIGNATURE DATE: 11/11/2019 CUSTOMERS JOB TITLE: FACILITIES

**ADDITIONAL WORKS RECOMMENDED / REQUIRED:**  
**ROBUR N.4 NEEDS NEW AMMONIA SOLUTION PUMP, SOLUTION RESTRICTOR, HOT GAS BY PASS VALVE, BRAHAMA BOX**

ISO9001:2008. CUSTOMER SATISFACTION:  **1 = UNSATISFIED 2 = BELOW AVERAGE 3 = MET EXPECTATION 4 = ABOVE AVERAGE 5 = EXCELLENT**

CUSTOMER COMMENTS ABOUT PERFORMANCE ON THIS JOB / CONTRACT:

# BOILER ASSET SCHEDULE

|   |                                |  |                                     |                |                              |
|---|--------------------------------|--|-------------------------------------|----------------|------------------------------|
| CUSTOMER NAME<br>OPEN UNIVERSITY MILTON KEYNES                              |                                | SITE CONTACT (OPERATOR RESPONSIBLE FOR F-GAS COMPLIANCE)<br>ALAN REID - FACILITIES |                                     |                | SHEET NUMBER<br><b>12230</b> |
| SITE NAME & ADDRESS<br>OPEN UNIVERSITY, WALTON HALL, MILTON KEYNES. MK7 6AA |                                | ENGINEER<br>DANIEL CONDELLO  | CLIENT ASSET NUMBER<br><b>01010</b> |                |                              |
|   |                                | COMPANY GAS SAFE. 0  | ENGINEER GAS SAFE NO. 3814612       |                |                              |
| REASON FOR VISIT  | QUOTED REPAIRS                 | MANUFACTURER   | ROBUR                               | MODEL          | GAHP GS LT                   |
| JOB NUMBER  | ORAC.2600_EST364112            | SERIAL No.   | SEE ATTACHMENT                      | YEAR INSTALLED | 01/01/2010                   |
| PLANT LOCATION  | GROUND FLOOR PLANT ROOM        | GAS / FUEL TYPE  | R717                                | QUANTITY (KG)  | 28.0 KG                      |
| PLANT REFERENCE   | ABSORPTION UNDER FLOOR HEATING | HTG LOAD SERVED  | WALTON HALL BUILDING                |                |                              |

## ROBUR ASSET SCHEDULE

| UNIT NODE | MAN. DATE | TYPE      | MODEL      | SERIAL    | R717 AMMONIA CHR. (KG) | R718 REFRIG. CHR. (KG) | GAS TYPE |
|-----------|-----------|-----------|------------|-----------|------------------------|------------------------|----------|
| 1         | 2010      | HEAT PUMP | GAHP GS LT | 302060005 | 7.0 KG                 | 10.0 KG                | G20      |
| 2         | 2010      | HEAT PUMP | GAHP GS LT | 302060007 | 7.0 KG                 | 10.0 KG                | G20      |
| 3         | 2010      | HEAT PUMP | GAHP GS LT | 302060006 | 7.0 KG                 | 10.0 KG                | G20      |
| 4         | 2010      | HEAT PUMP | GAHP GS LT | 302061004 | 7.0 KG                 | 10.0 KG                | G20      |
|           |           |           |            |           |                        |                        |          |
|           |           |           |            |           |                        |                        |          |
|           |           |           |            |           |                        |                        |          |
|           |           |           |            |           |                        |                        |          |
|           |           |           |            |           |                        |                        |          |
|           |           |           |            |           |                        |                        |          |
|           |           |           |            |           |                        |                        |          |
|           |           |           |            |           |                        |                        |          |
|           |           |           |            |           |                        |                        |          |
|           |           |           |            |           |                        |                        |          |
|           |           |           |            |           |                        |                        |          |
|           |           |           |            |           |                        |                        |          |
|           |           |           |            |           |                        |                        |          |
|           |           |           |            |           |                        |                        |          |
|           |           |           |            |           |                        |                        |          |
|           |           |           |            |           |                        |                        |          |
|           |           |           |            |           |                        |                        |          |

## ROBUR DDC & RB CONTROLLERS ASSET SCHEDULE

| UNIT NODE | MAN. DATE | MODEL | SERIAL | FIRMWARE VERSION | BMS MODBUS ENA |  |  |
|-----------|-----------|-------|--------|------------------|----------------|--|--|
| 1         | 2010      | DDC   |        | 4.010"           | NO             |  |  |
|           |           |       |        |                  |                |  |  |
|           |           |       |        |                  |                |  |  |
|           |           |       |        |                  |                |  |  |
|           |           |       |        |                  |                |  |  |
|           |           |       |        |                  |                |  |  |
|           |           |       |        |                  |                |  |  |
|           |           |       |        |                  |                |  |  |
|           |           |       |        |                  |                |  |  |
|           |           |       |        |                  |                |  |  |
|           |           |       |        |                  |                |  |  |
|           |           |       |        |                  |                |  |  |
|           |           |       |        |                  |                |  |  |
|           |           |       |        |                  |                |  |  |
|           |           |       |        |                  |                |  |  |
|           |           |       |        |                  |                |  |  |
|           |           |       |        |                  |                |  |  |
|           |           |       |        |                  |                |  |  |
|           |           |       |        |                  |                |  |  |
|           |           |       |        |                  |                |  |  |



## LOG - SITE PICTURES

|  |                                |  |                      |                |                     |
|--|--------------------------------|--|----------------------|----------------|---------------------|
| CUSTOMER NAME  |                                | SITE CONTACT (OPERATOR RESPONSIBLE FOR F-GAS COMPLIANCE) |                      |                | SHEET NUMBER        |
| OPEN UNIVERSITY MILTON KEYNES                        |                                | ALAN REID - FACILITIES                                   |                      |                | 12230               |
| SITE NAME & ADDRESS                                  |                                | ENGINEER   | DANIEL CONDELLO      |                | CLIENT ASSET NUMBER |
| OPEN UNIVERSITY, WALTON HALL, MILTON KEYNES. MK7 6AA |                                | F-GAS QUALIFICATION                                      | C&G 2079 PART 1      |                | 01010               |
| REASON FOR VISIT                                     | QUOTED REPAIRS                 | MANUFACTURER   | ROBUR                | MODEL          | GAHP GS LT          |
| JOB NUMBER   | ORAC.2600_EST364112            | SERIAL No.   | SEE ATTACHMENT       | YEAR INSTALLED | 01/01/2010          |
| PLANT LOCATION                                       | GROUND FLOOR PLANT ROOM        | REFRIGERANT TYPE   | R717                 | QUANTITY (KG)  | 28.0 KG             |
| PLANT REFERENCE                                      | ABSORPTION UNDER FLOOR HEATING | CLG LOAD SERVED  | WALTON HALL BUILDING |                |                     |

