

SITE F-GAS & REFRIGERANT BOTTLE FULL REGISTER

FOR

NPIA DATA CENTRE, AERODROME RD,
COLINDALE, LONDON. NW9 5JE

ON BEHALF OF

ACL ENGINEERING LTD

AS AT

01/03/2015 08:36 PM

SITE F-GAS & BOTTLE REGISTER

PLANT OPERATOR ACL ENGINEERING LTD				SITE CONTACT (OPERATOR RESPONSIBLE FOR F-GAS COMPLIANCE) DAVID LINDSAY - M&E MANAGER		CLIENT ASSET NUMBER 00019
SITE NAME & ADDRESS (PLANT OWNER F-GAS) NPIA DATA CENTRE, AERODROME RD, COLINDALE, LONDON. NW9 5JE				PLANT NAME IPT PROJECT 10+ CHILLER No1		
MANUFACTURER	MODEL	SERIAL	DATE INSTALLED	COOLING LOAD SERVED		
ITP	C10014	9300	01/03/2010	COMPUTER ROOM IT COOLING LOAD		
REFRIG TYPE	REFRIG QUANTITY	REFRIG QUANTITY KG (SYS)	REFRIG GWP	EQUIV TONNES CO2e	F-GAS LEAK TEST FREQUENCY MINIMUM REQUIREMENT	
R407C	100.0 KG	25+25+25+25 KG	1774	177.4	HALF YEARLY	

SITE F-GAS & REFRIGERANT BOTTLE REGISTER

REFRIGERANT ADDITIONS

DATE	ENGINEER	AMOUNT ADDED (KG)	TIMESHEET NUMBER	REASON FOR ADDITION
16/05/2014	STEVE ORLANDO	27.0 KG	3873	SYS1 - CHARGED SYSTEM WITH VIRGIN CHARGE
16/05/2014	STEVE ORLANDO	27.0 KG	3874	SYS2 - CHARGED SYSTEM WITH VIRGIN CHARGE
16/05/2014	STEVE ORLANDO	27.0 KG	3875	SYS3 - CHARGED SYSTEM WITH VIRGIN CHARGE
16/05/2014	STEVE ORLANDO	27.0 KG	3876	SYS4 - CHARGED SYSTEM WITH VIRGIN CHARGE

REFRIGERANT REMOVALS

DATE	ENGINEER	AMOUNT REMOVED (KG)	TIMESHEET NUMBER	REASON FOR ADDITION
22/04/2014	STEVE ORLANDO	16.5 KG	3873	SYS1 - REMOVED REFRIGERANT FOR DESTRUCTION FOR SYSTEM PIPEWORK MODIFICATIONS
24/04/2014	STEVE ORLANDO	15.5 KG	3874	SYS2 - REMOVED REFRIGERANT FOR DESTRUCTION FOR SYSTEM PIPEWORK MODIFICATIONS
29/04/2014	STEVE ORLANDO	16.3 KG	3875	SYS3 - REMOVED REFRIGERANT FOR DESTRUCTION FOR SYSTEM PIPEWORK MODIFICATIONS
05/05/2014	STEVE ORLANDO	20.5 KG	3876	SYS4 - REMOVED REFRIGERANT FOR DESTRUCTION FOR SYSTEM PIPEWORK MODIFICATIONS

REFRIGERANT LEAK TEST

DATE	ENGINEER	TEST RESULT	TIMESHEET NUMBER	REASON FOR ADDITION
22/01/2014	STEVE ORLANDO	PASS	3747	PPM - ELECTRONIC LEAK DETECTOR TEST TO ALL SYSTEMS
16/05/2014	STEVE ORLANDO	PASS	3873	SYS1 - NITROGEN PRESSURE TEST & EVACUATION RISE TEST
16/05/2014	STEVE ORLANDO	PASS	3874	SYS2 - NITROGEN PRESSURE TEST & EVACUATION RISE TEST
16/05/2014	STEVE ORLANDO	PASS	3876	SYS4 - NITROGEN PRESSURE TEST & EVACUATION RISE TEST
16/05/2014	STEVE ORLANDO	PASS	3875	SYS3 - NITROGEN PRESSURE TEST & EVACUATION RISE TEST
17/05/2014	STEVE ORLANDO	PASS	3877	CARRIED OUT FINAL ELECTRONIC LEAK TEST ON ALL 4 SYSTEMS
29/05/2014	STEVE ORLANDO	PASS	3883	PPM - CARRIED OUT ELECTRONIC LEAK TEST ON ALL 4 SYSTEMS
31/10/2014	STEVE ORLANDO	PASS	3942	PPM - CARRIED OUT ELECTRONIC LEAK TEST ON SYSTEMS 2, 3 & 4
31/10/2014	STEVE ORLANDO	FAIL	3942	PPM - CARRIED OUT ELECTRONIC LEAK TEST ON SYSTEM 1. LEAK FOUND ON RECEIVER PRV.
18/02/2015	STEVE ORLANDO	PASS	4120	PPM - CARRIED OUT ELECTRONIC LEAK TEST ON SYSTEMS 2, 3 & 4
18/02/2015	STEVE ORLANDO	FAIL	4120	PPM - CARRIED OUT ELECTRONIC LEAK TEST ON SYSTEM 1. LEAK FOUND ON RECEIVER PRV.

FOLLOW UP ACTIONS

DATE	ENGINEER	RELATED TO TEST ON	TIMESHEET NUMBER	REASON FOR ADDITION
31/10/2014	STEVE ORLANDO	15/07/2014	3942	PPM - QUOTATION RE-SUBMITTED FOR THE REPAIR OF THE REFRIGERANT LEAK.
18/02/2015	STEVE ORLANDO	15/07/2014	4120	PPM - QUOTATION RE-SUBMITTED FOR THE REPAIR OF THE REFRIGERANT LEAK.

TESTING AUTOMATIC LEAK DETECTION SYSTEM (IF FITTED)

DATE	ENGINEER	TEST RESULT	TIMESHEET NUMBER	REASON FOR ADDITION

VIRGIN REFRIGERANT BOTTLE REGISTER FOR CLIENT ASSET:

00019

BOTTLE NUMBER: 2918289							
DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
14/05/2014	HRP	CC0097955	R407C	MIDDY	42.3	27	15.3
DATE RETURNED	RETURNS NOTE NUMBER	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
NOT RETURNED		15.3	0				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET USED (KG)				
3873	16/05/2014	42.3	27				

BOTTLE NUMBER: 2918630							
DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
14/05/2014	HRP	CC0097955	R407C	MIDDY	42.5	27	15.5
DATE RETURNED	RETURNS NOTE NUMBER	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
NOT RETURNED		15.5	0				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET USED (KG)				
3874	16/05/2014	42.5	27				

BOTTLE NUMBER: 7704184							
DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
14/05/2014	HRP	CC0097955	R407C	MIDDY	42.7	27	15.7
DATE RETURNED	RETURNS NOTE NUMBER	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
NOT RETURNED		15.7	0				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET USED (KG)				
3875	16/05/2014	42.7	27				

BOTTLE NUMBER: 7705471							
DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
14/05/2014	HRP	CC0097955	R407C	MIDDY	42.8	27	15.8
DATE RETURNED	RETURNS NOTE NUMBER	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
NOT RETURNED		15.8	0				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET USED (KG)				
3876	16/05/2014	42.8	27				

TOTAL VIRGIN REFRIGERANT USED ON THIS ASSET: 108.0 KG

RECOVERY / RECEIVER BOTTLE REGISTER FOR CLIENT ASSET:

00019

BOTTLE NUMBER: 4252374							
DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
15/04/2014	HRP	CC97751	R407C	RECOVERY	45.5	20.5	25
DATE RETURNED	WASTE TRANSFER NOTE	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
14/05/2014	OGP959/22485	45.5	20.5				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET RECOVERED (KG)	NET USED (KG)			
3876	05/05/2014	45.5	20.5	0			

BOTTLE NUMBER: 4274932							
DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
28/03/2014	HRP	CC97616	R407C	RECOVERY	75	16.5	26.5
DATE RETURNED	WASTE TRANSFER NOTE	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
14/05/2014	OGP959/22941	75	16.5				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET RECOVERED (KG)	NET USED (KG)			
3873	22/04/2014	75	16.5	0			

BOTTLE NUMBER: 4278244							
DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
15/04/2014	HRP	CC97751	R407C	RECOVERY	44.1	15.5	28.6
DATE RETURNED	WASTE TRANSFER NOTE	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
14/05/2014	OGP959/22941	44.1	15.5				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET RECOVERED (KG)	NET USED (KG)			
3874	24/04/2014	44.1	15.5	0			

TOTAL RECOVERED REFRIGERANT REMOVED FOR DISPOSAL 52.5 KG
FROM THIS ASSET:

SITE F-GAS & BOTTLE REGISTER

PLANT OPERATOR ACL ENGINEERING LTD				SITE CONTACT (OPERATOR RESPONSIBLE FOR F-GAS COMPLIANCE) DAVID LINDSAY - M&E MANAGER		CLIENT ASSET NUMBER 00020
SITE NAME & ADDRESS (PLANT OWNER F-GAS) NPIA DATA CENTRE, AERODROME RD, COLINDALE, LONDON. NW9 5JE				PLANT NAME IPT PROJECT 10+ CHILLER No2		
MANUFACTURER	MODEL	SERIAL	DATE INSTALLED	COOLING LOAD SERVED		
ITP	C10014	9302	01/03/2010	COMPUTER ROOM IT COOLING LOAD		
REFRIG TYPE	REFRIG QUANTITY	REFRIG QUANTITY KG (SYS)	REFRIG GWP	EQUIV TONNES CO2e	F-GAS LEAK TEST FREQUENCY MINIMUM REQUIREMENT	
R407C	100.0 KG	25+25+25+25 KG	1774	177.4	HALF YEARLY	

SITE F-GAS & REFRIGERANT BOTTLE REGISTER

REFRIGERANT ADDITIONS

DATE	ENGINEER	AMOUNT ADDED (KG)	TIMESHEET NUMBER	REASON FOR ADDITION

REFRIGERANT REMOVALS

DATE	ENGINEER	AMOUNT REMOVED (KG)	TIMESHEET NUMBER	REASON FOR ADDITION

REFRIGERANT LEAK TEST

DATE	ENGINEER	TEST RESULT	TIMESHEET NUMBER	REASON FOR ADDITION
22/01/2014	STEVE ORLANDO	PASS	3748	PPM - ELECTRONIC LEAK DETECTOR TEST TO ALL SYSTEMS
29/05/2014	STEVE ORLANDO	PASS	3884	PPM - CARRIED OUT ELECTRONIC LEAK TEST ON ALL 4 SYSTEMS
31/10/2014	STEVE ORLANDO	PASS	3943	PPM - CARRIED OUT ELECTRONIC LEAK TEST ON ALL 4 SYSTEMS
18/02/2015	STEVE ORLANDO	PASS	4121	PPM - CARRIED OUT ELECTRONIC LEAK TEST ON ALL 4 SYSTEMS

FOLLOW UP ACTIONS

DATE	ENGINEER	RELATED TO TEST ON	TIMESHEET NUMBER	REASON FOR ADDITION

TESTING AUTOMATIC LEAK DETECTION SYSTEM (IF FITTED)

DATE	ENGINEER	TEST RESULT	TIMESHEET NUMBER	REASON FOR ADDITION

VIRGIN REFRIGERANT BOTTLE REGISTER FOR CLIENT ASSET:

00020

BOTTLE NUMBER: < NO DATA >							
DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
DATE RETURNED	RETURNS NOTE NUMBER	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET USED (KG)				

TOTAL VIRGIN REFRIGERANT USED ON THIS ASSET: 0.0 KG

RECOVERY / RECEIVER BOTTLE REGISTER FOR CLIENT ASSET:

00020

BOTTLE NUMBER: < NO DATA >							
DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
DATE RETURNED	WASTE TRANSFER NOTE	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET RECOVERED (KG)	NET USED (KG)			

TOTAL RECOVERED REFRIGERANT REMOVED FOR DISPOSAL FROM THIS ASSET: 0.0 KG

SITE F-GAS & BOTTLE REGISTER

PLANT OPERATOR ACL ENGINEERING LTD				SITE CONTACT (OPERATOR RESPONSIBLE FOR F-GAS COMPLIANCE) DAVID LINDSAY - M&E MANAGER		CLIENT ASSET NUMBER 00021
SITE NAME & ADDRESS (PLANT OWNER F-GAS) NPIA DATA CENTRE, AERODROME RD, COLINDALE, LONDON. NW9 5JE				PLANT NAME IPT PROJECT 10+ CHILLER No3		
MANUFACTURER	MODEL	SERIAL	DATE INSTALLED	COOLING LOAD SERVED		
ITP	C10014	9303	01/03/2010	COMPUTER ROOM IT COOLING LOAD		
REFRIG TYPE	REFRIG QUANTITY	REFRIG QUANTITY KG (SYS)	REFRIG GWP	EQUIV TONNES CO2e	F-GAS LEAK TEST FREQUENCY MINIMUM REQUIREMENT	
R407C	100.0 KG	25+25+25+25 KG	1774	177.4	HALF YEARLY	

SITE F-GAS & REFRIGERANT BOTTLE REGISTER

REFRIGERANT ADDITIONS

DATE	ENGINEER	AMOUNT ADDED (KG)	TIMESHEET NUMBER	REASON FOR ADDITION
07/05/2014	STEVE ORLANDO	27.0 KG	3868	SYS1 - CHARGED SYSTEM WITH VIRGIN CHARGE
07/05/2014	STEVE ORLANDO	27.0 KG	3869	SYS2 - CHARGED SYSTEM WITH VIRGIN CHARGE
07/05/2014	STEVE ORLANDO	27.0 KG	3870	SYS3 - CHARGED SYSTEM WITH VIRGIN CHARGE
07/05/2014	STEVE ORLANDO	27.0 KG	3871	SYS4 - CHARGED SYSTEM WITH VIRGIN CHARGE
06/02/2015	STEVE ORLANDO	22.5 KG	4118	SYS1 - ADDED VIRGIN CHARGE AFTER BURN-OUT CLEAN-UP PROCEDURES
06/02/2015	STEVE ORLANDO	22.5 KG	4118	SYS4 - ADDED VIRGIN CHARGE AFTER BURN-OUT CLEAN-UP PROCEDURES

REFRIGERANT REMOVALS

DATE	ENGINEER	AMOUNT REMOVED (KG)	TIMESHEET NUMBER	REASON FOR ADDITION
28/01/2014	STEVE ORLANDO	25.3 KG	3755	SYS 3 - REMOVED MOISTURE CONTAMINATED REFRIGERANT CHARGE FOR DESTRUCTION
28/01/2014	STEVE ORLANDO	24.0 KG	3755	SYS 4 - REMOVED REFRIGERANT CHARGE FOR PRESSURE TESTING COMMON HEAT EXCHANGE
07/04/2014	STEVE ORLANDO	23.5 KG	3868	SYS1 - REMOVED REFRIGERANT FOR DESTRUCTION FOR SYSTEM PIPEWORK MODIFICATIONS
10/04/2014	STEVE ORLANDO	19.5 KG	3869	SYS2 - REMOVED REFRIGERANT FOR DESTRUCTION FOR SYSTEM PIPEWORK MODIFICATIONS
26/01/2015	STEVE ORLANDO	23.3 KG	4118	SYS1 - RECOVERED CONTAMINATED REFRIGERANT FOR DESTRUCTION
26/01/2015	STEVE ORLANDO	24.0 KG	4118	SYS4 - RECOVERED CONTAMINATED REFRIGERANT FOR DESTRUCTION

REFRIGERANT LEAK TEST

DATE	ENGINEER	TEST RESULT	TIMESHEET NUMBER	REASON FOR ADDITION
23/01/2014	STEVE ORLANDO	PASS	3749	PPM - ELECTRONIC LEAK DETECTOR TEST TO SYSTEMS 1, 2 & 4.
23/01/2014	STEVE ORLANDO	FAIL	3749	PPM - HIGH MOISTURE CONTENT SYSTEM 3, SUSPECT SYSTEM 3 HAS EVAPORATOR LEAK.
29/01/2014	STEVE ORLANDO	PASS	3755	SYSTEM No3 - REFRIGERATION SYSTEM HELD A 12 BARG PRESSURE TEST. HEAT EXCHANGER OK
29/01/2014	STEVE ORLANDO	PASS	3755	SYSTEM 4 - REFRIGERATION SYSTEM HELD A 12 BARG PRESSURE TEST. HEAT EXCHANGER OK
07/05/2014	STEVE ORLANDO	PASS	3871	SYS4 - NITROGEN PRESSURE TEST & EVACUATION RISE TEST
07/05/2014	STEVE ORLANDO	PASS	3870	SYS3 - NITROGEN PRESSURE TEST & EVACUATION RISE TEST
07/05/2014	STEVE ORLANDO	PASS	3869	SYS2 - NITROGEN PRESSURE TEST & EVACUATION RISE TEST
07/05/2014	STEVE ORLANDO	PASS	3868	SYS1 - NITROGEN PRESSURE TEST & EVACUATION RISE TEST
07/05/2014	STEVE ORLANDO	PASS	3872	CARRIED OUT FINAL ELECTRONIC LEAK TEST ON ALL 4 SYSTEMS
29/05/2014	STEVE ORLANDO	PASS	3885	PPM - CARRIED OUT FINAL ELECTRONIC LEAK TEST ON ALL 4 SYSTEMS
31/10/2014	STEVE ORLANDO	PASS	3944	PPM - CARRIED OUT FINAL ELECTRONIC LEAK TEST ON ALL 4 SYSTEMS
06/02/2015	STEVE ORLANDO	PASS	4118	SYS1 - OFN PRESSURE TEST AND VACUUM RISE TEST
06/02/2015	STEVE ORLANDO	PASS	4118	SYS4 - OFN PRESSURE TEST AND VACUUM RISE TEST
06/02/2015	STEVE ORLANDO	PASS	4118	CARRIED OUT ELECTRONIC LEAK TEST ON ALL SYSTEMS
23/02/2015	STEVE ORLANDO	PASS	4122	PPM - CARRIED OUT ELECTRONIC LEAK TEST ON SYSTEMS 1, 2 & 4
23/02/2015	STEVE ORLANDO	FAIL	4122	PPM - CARRIED OUT ELECTRONIC LEAK TEST ON SYSTEM 3. LEAK FOUND ON COMPRESSOR 5

FOLLOW UP ACTIONS

DATE	ENGINEER	RELATED TO TEST ON	TIMESHEET NUMBER	REASON FOR ADDITION
23/02/2015	STEVE ORLANDO	23/02/2015	4122	PPM - QUOTATION RE-SUBMITTED FOR THE REPAIR OF THE REFRIGERANT LEAK.

TESTING AUTOMATIC LEAK DETECTION SYSTEM (IF FITTED)

DATE	ENGINEER	TEST RESULT	TIMESHEET NUMBER	REASON FOR ADDITION

VIRGIN REFRIGERANT BOTTLE REGISTER FOR CLIENT ASSET:

00021

BOTTLE NUMBER: 2894128							
DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
17/04/2015	HRP	PA0268990	R407C	DUMPY	16	9	7
DATE RETURNED	RETURNS NOTE NUMBER	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
10/02/2015	0	7	0				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET USED (KG)				
4118	06/02/2015	16	9				

BOTTLE NUMBER: 2922248							
DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
17/04/2014	HRP	CC97772	R407C	MIDDY	42.8	27	15.8
DATE RETURNED	RETURNS NOTE NUMBER	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
14/04/2014	CC/205613	15.8	0				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET USED (KG)				
3868	07/05/2014	42.8	27				

BOTTLE NUMBER: 7704191							
DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
17/04/2014	HRP	CC97772	R407C	MIDDY	42.3	27	15.3
DATE RETURNED	RETURNS NOTE NUMBER	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
14/04/2014	CC/205613	15.3	0				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET USED (KG)				
3870	07/05/2014	42.3	27				

BOTTLE NUMBER: 7704276							
DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
17/04/2014	HRP	CC97772	R407C	MIDDY	42.3	27	15.3
DATE RETURNED	RETURNS NOTE NUMBER	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
14/04/2014	CC/205613	15.3	0				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET USED (KG)				
3869	07/05/2014	42.3	27				

BOTTLE NUMBER: 7705792							
DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
17/04/2014	HRP	CC97772	R407C	MIDDY	42.8	27	15.8
DATE RETURNED	RETURNS NOTE NUMBER	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
14/04/2014	CC/205613	15.8	0				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET USED (KG)				
3871	07/05/2014	42.8	27				

BOTTLE NUMBER: 8258427							
DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
30/01/2015	HRP	PA0274174	R407C	DUMPY	16.2	9	7.2
DATE RETURNED	RETURNS NOTE NUMBER	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
10/02/2015	0	7.2	0				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET USED (KG)				
4118	06/02/2015	16.2	9				

BOTTLE NUMBER: 8258724							
DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
30/01/2015	HRP	PA0274174	R407C	DUMPY	16	9	7
DATE RETURNED	RETURNS NOTE NUMBER	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
10/02/2015	0	7	0				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET USED (KG)				
4118	06/02/2015	16	9				

BOTTLE NUMBER: 8262776							
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DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
30/01/2015	HRP	PA0274174	R407C	DUMPY	15.9	9	6.9
DATE RETURNED	RETURNS NOTE NUMBER	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
10/02/2015	0	6.9	0				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET USED (KG)				
4118	06/02/2015	15.9	9				

BOTTLE NUMBER: 8541284

DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
30/01/2015	HRP	PA0274174	R407C	DUMPY	15.9	9	6.9
DATE RETURNED	RETURNS NOTE NUMBER	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
10/02/2015	0	6.9	0				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET USED (KG)				
4118	06/02/2015	15.9	9				

TOTAL VIRGIN REFRIGERANT USED ON THIS ASSET: 153.0 KG

RECOVERY / RECEIVER BOTTLE REGISTER FOR CLIENT ASSET: 00021

BOTTLE NUMBER: 15245

DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
27/01/2014	D&W	82819322	R407C	RECEIVER	46.1	24	22.1
DATE RETURNED	WASTE TRANSFER NOTE	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
29/01/2014	OEL641/31147	46.1	24				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET RECOVERED (KG)	NET USED (KG)			
3755	28/01/2014	46.1	24	0			

BOTTLE NUMBER: 19004

DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
27/01/2014	D&W	82819322	R407C	RECOVERY	47.2	25.3	21.9
DATE RETURNED	WASTE TRANSFER NOTE	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
29/01/2014	OEL641/31147	47.2	25.3				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET RECOVERED (KG)	NET USED (KG)			
3755	28/01/2014	47.2	25.3	0			

BOTTLE NUMBER: 4149222

DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
09/08/2013	HRP	CC96081	R407C	RECOVERY	18.9	11	7.9
DATE RETURNED	WASTE TRANSFER NOTE	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
14/05/2014	OGP959/32401	18.9	11				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET RECOVERED (KG)	NET USED (KG)			
3868	07/04/2014	18.9	11	0			

BOTTLE NUMBER: 4274932

DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
28/03/2014	HRP	CC97616	R407C	RECOVERY	39	12.5	26.5
DATE RETURNED	WASTE TRANSFER NOTE	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
14/05/2014	OGP959/22941	39	12.5				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET RECOVERED (KG)	NET USED (KG)			
3868	07/04/2014	39	12.5	0			

BOTTLE NUMBER: 9248

DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
21/01/2015	D&W	83014946	R407C	LARGE	70.6	47.3	23.3
DATE RETURNED	WASTE TRANSFER NOTE	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
10/02/2015	OHP328/31149	70.6	47.3				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET RECOVERED (KG)	NET USED (KG)			
4118	26/01/2015	70.6	47.3	0			

TOTAL RECOVERED REFRIGERANT REMOVED FOR DISPOSAL FROM THIS ASSET: 120.1 KG

SITE F-GAS & BOTTLE REGISTER

PLANT OPERATOR ACL ENGINEERING LTD				SITE CONTACT (OPERATOR RESPONSIBLE FOR F-GAS COMPLIANCE) DAVID LINDSAY - M&E MANAGER		CLIENT ASSET NUMBER 00022
SITE NAME & ADDRESS (PLANT OWNER F-GAS) NPIA DATA CENTRE, AERODROME RD, COLINDALE, LONDON. NW9 5JE				PLANT NAME IPT PROJECT 10+ CHILLER No4		
MANUFACTURER	MODEL	SERIAL	DATE INSTALLED	COOLING LOAD SERVED		
ITP	C10014	9301	01/03/2010	COMPUTER ROOM IT COOLING LOAD		
REFRIG TYPE	REFRIG QUANTITY	REFRIG QUANTITY KG (SYS)	REFRIG GWP	EQUIV TONNES CO2e	F-GAS LEAK TEST FREQUENCY MINIMUM REQUIREMENT	
R407C	100.0 KG	25+25+25+25 KG	1774	177.4	785.0 KG	

SITE F-GAS & REFRIGERANT BOTTLE REGISTER

REFRIGERANT ADDITIONS

DATE	ENGINEER	AMOUNT ADDED (KG)	TIMESHEET NUMBER	REASON FOR ADDITION
28/05/2014	STEVE ORLANDO	27.0 KG	3878	SYS1 - CHARGED SYSTEM WITH VIRGIN CHARGE
28/05/2014	STEVE ORLANDO	27.0 KG	3879	SYS2 - CHARGED SYSTEM WITH VIRGIN CHARGE
28/05/2014	STEVE ORLANDO	27.0 KG	3880	SYS3 - CHARGED SYSTEM WITH VIRGIN CHARGE
28/05/2014	STEVE ORLANDO	27.0 KG	3881	SYS4 - CHARGED SYSTEM WITH VIRGIN CHARGE

REFRIGERANT REMOVALS

DATE	ENGINEER	AMOUNT REMOVED (KG)	TIMESHEET NUMBER	REASON FOR ADDITION
14/05/2014	STEVE ORLANDO	22.0 KG	3878	SYS1 - REMOVED REFRIGERANT FOR DESTRUCTION FOR SYSTEM PIPEWORK MODIFICATIONS
14/05/2014	STEVE ORLANDO	21.0 KG	3879	SYS2 - REMOVED REFRIGERANT FOR DESTRUCTION FOR SYSTEM PIPEWORK MODIFICATIONS
14/05/2014	STEVE ORLANDO	13.0 KG	3881	SYS4 - REMOVED REFRIGERANT FOR DESTRUCTION FOR SYSTEM PIPEWORK MODIFICATIONS
14/05/2014	STEVE ORLANDO	3.5 KG	3880	SYS3 - REMOVED REFRIGERANT FOR DESTRUCTION FOR SYSTEM PIPEWORK MODIFICATIONS

REFRIGERANT LEAK TEST

DATE	ENGINEER	TEST RESULT	TIMESHEET NUMBER	REASON FOR ADDITION
23/01/2014	STEVE ORLANDO	PASS	3750	PPM - ELECTRONIC LEAK DETECTOR TEST TO ALL SYSTEMS
28/05/2014	STEVE ORLANDO	PASS	3878	SYS1 - NITROGEN PRESSURE TEST & EVACUATION RISE TEST
28/05/2014	STEVE ORLANDO	PASS	3879	SYS2 - NITROGEN PRESSURE TEST & EVACUATION RISE TEST
28/05/2014	STEVE ORLANDO	PASS	3881	SYS4 - NITROGEN PRESSURE TEST & EVACUATION RISE TEST
28/05/2014	STEVE ORLANDO	PASS	3880	SYS3 - NITROGEN PRESSURE TEST & EVACUATION RISE TEST
29/05/2014	STEVE ORLANDO	PASS	3882	PPM - CARRIED OUT FINAL ELECTRONIC LEAK TEST ON ALL 4 SYSTEMS
31/10/2014	STEVE ORLANDO	PASS	3945	PPM - CARRIED OUT FINAL ELECTRONIC LEAK TEST ON ALL 4 SYSTEMS
23/02/2015	STEVE ORLANDO	PASS	4123	PPM - CARRIED OUT ELECTRONIC LEAK TEST ON ALL 4 SYSTEMS

FOLLOW UP ACTIONS

DATE	ENGINEER	RELATED TO TEST ON	TIMESHEET NUMBER	REASON FOR ADDITION

TESTING AUTOMATIC LEAK DETECTION SYSTEM (IF FITTED)

DATE	ENGINEER	TEST RESULT	TIMESHEET NUMBER	REASON FOR ADDITION

VIRGIN REFRIGERANT BOTTLE REGISTER FOR CLIENT ASSET:

00022

BOTTLE NUMBER: 2917763							
DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
23/05/2014	HRP	CC0097976	R407C	MIDDY	42.6	27	15.6
DATE RETURNED	RETURNS NOTE NUMBER	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
11/06/2014	CC/197451	15.6	0				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET USED (KG)				
3879	28/05/2014	42.6	27				

BOTTLE NUMBER: 7702739							
DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
23/05/2014	HRP	CC0097976	R407C	MIDDY	42.7	27	15.7
DATE RETURNED	RETURNS NOTE NUMBER	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
11/06/2014	CC/197451	15.7	0				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET USED (KG)				
3880	28/05/2014	42.7	27				

BOTTLE NUMBER: 7704870							
DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
23/05/2014	HRP	CC0097976	R407C	MIDDY	42.6	27	15.6
DATE RETURNED	RETURNS NOTE NUMBER	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
11/06/2014	CC/197451	15.6	0				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET USED (KG)				
3881	28/05/2014	42.6	27				

BOTTLE NUMBER: 7706966							
DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
23/05/2014	HRP	CC0097976	R407C	MIDDY	42.8	27	15.8
DATE RETURNED	RETURNS NOTE NUMBER	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
11/06/2014	CC/197451	15.8	0				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET USED (KG)				
3878	28/05/2014	42.8	27				

TOTAL VIRGIN REFRIGERANT USED ON THIS ASSET: 108.0 KG

RECOVERY / RECEIVER BOTTLE REGISTER FOR CLIENT ASSET:

00022

BOTTLE NUMBER: 4252374							
DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
15/04/2014	HRP	CC97751	R407C	RECOVERY	57	11.5	25
DATE RETURNED	WASTE TRANSFER NOTE	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
14/05/2014	OGP959/22485	57	11.5				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET RECOVERED (KG)	NET USED (KG)			
3878	14/05/2014	57	11.5	0			

BOTTLE NUMBER: 4265213							
DATE RECEIVED	WHOLESALER NAME	DELIVERY NOTE NUMBER	REFRIGERANT TYPE	BOTTLE TYPE	GROSS WEIGHT (KG)	NET WEIGHT (KG)	TARE WEIGHT (KG)
15/04/2014	HRP	CC97751	R407C	RECOVERY	37	10.5	26.5
DATE RETURNED	WASTE TRANSFER NOTE	RET GROSS WEIGHT (KG)	RET NET WEIGHT (KG)				
14/05/2014	OGP959/22485	37	10.5				
TIMESHEET NUMBER	DATE	GROSS WEIGHT (KG)	NET RECOVERED (KG)	NET USED (KG)			
3878	14/05/2014	37	10.5	0			

TOTAL RECOVERED REFRIGERANT REMOVED FOR DISPOSAL FROM THIS ASSET: 22.0 KG