LETTER OF TRANSMITTAL

TESTING SPECIALTIES, INC.
Testing, Adjusting & Balancing
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Phone (757) 436-2345
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DATE: June 27, 2016

JOB #: 16-1002

ATTENTION: Greg Hatch - Program Mgr

RE: JEB Little Creek - 33 Buildings
Retro Commissioning
Norfolk, Virginia

TO: JACOBS ENGINEERING GROUP

VIRGINIA BEACH, VIRGINIA

Email: ATTN: GREGORY HATCH Gregory.Hatch@Jacobs.com / greg.hatch@jacobs.com
Phil Dabrowski Phil.dabrowski@jacobs.com
Sandi Roberts Sandi.roberts@jacobs.com

WE ARE SENDING YOU THE FOLLOWING ITEMS: **BUILDING** 1

■ Survey/RetroCommissioning Report ☐ List of Key Personnel ☐ Schedule of Prices ☐ Proposal ☐ Other

☐ TAB Report ☐ TAB Qualifications ☐ Pre-Engineering TAB Report

COPIES	DATE	NO.	DESCRIPTION
1	06/27/16		BUILDING 1

THESE ARE TRANSMITTED AS CHECKED BELOW:

☐ For approval ☐ Approved as submitted ☐ Resubmit _ copies for approval ☐ For your use

☐ Approved as noted ☐ Submit _ copies for distribution ■ AS REQUESTED

☐ Return _ corrected prints ☐ For review & comments

REMARKS:

SIGNED: Cheryl Strickland, Administration

BLDG 1

JEB LITTLE CREEK
RETROCOMMISSIONING

AIR HANDLER TEST REPORT

PROJECT: JEB LITTLE CREEK RETRO COMMISSIONING BUILDING: 1

FAN DATA	TEST CODE AHU B	READINGS:
SYSTEM	RTU - 1	
LOCATION / AREA	ROOFTOP	CHILLED WATER COIL-
MANUFACTURER	MCQUAY	DP AIR: N/A
MODEL NUMBER	RDS708BY	CHILLED WATER COIL-
SERIAL NUMBER	FB0U03120053003	DP WATER: N/A
MOTOR MAKE	BALDOR	HOT WATER COIL-
MOTOR CAT. NO.	M3211T	DP AIR: N/A
MOTOR HP / RPM / FRAME	3 / 1725 / 182T	HOT WATER COIL-
VOLTS / PHASE / HERTZ	208 - 230 / 460 / 3 / 60	DP WATER: N/A
F.L. AMPS / SERVICE FACTOR	8.7 - 8 / 4 / 1.15	DUAL TEMP COIL-
		DP AIR WITH FILTERS: .52"
		DUAL TEMP COIL-
		DP WATER: .20'

KEY	TEST DATA	DESIGN	ACTUAL	
@2	SUPPLY CFM		2406	
@1	VOLTAGE	460	470 / 471 / 470	
@1	AMPERAGE	4	2.6 / 2.8 / 2.9	
DATE OF TEST		06/22/16		

REMARKS:

DATE: 06/09/16 - 06/22/16 BY: PHH / CDM SHEET: 1

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AIR HANDLER TEST REPORT

PROJECT: JEB LITTLE CREEK RETRO COMMISSIONING BUILDING: 1

FAN DATA	TEST CODE AHU B	READINGS:
SYSTEM	RTU - 2	
LOCATION / AREA	ROOFTOP	CHILLED WATER COIL-
MANUFACTURER	MCQUAY	DP AIR: N/A
MODEL NUMBER	RDS708BY	CHILLED WATER COIL-
SERIAL NUMBER	FB0U03120054405	DP WATER: N/A
MOTOR MAKE	BALDOR	HOT WATER COIL-
MOTOR CAT. NO.	M3157T	DP AIR: N/A
MOTOR HP / RPM / FRAME	2 / 1725 / 145T	HOT WATER COIL-
VOLTS / PHASE / HERTZ	208 - 230 / 460 / 3 / 60	DP WATER: N/A
F.L. AMPS / SERVICE FACTOR	5.9 - 5.6 / 2.8 / 1.15	DUAL TEMP COIL-
		DP AIR WITH FILTERS: .38"
		DUAL TEMP COIL-
		DP WATER: .30'

KEY	TEST DATA	DESIGN	ACTUAL
@2	SUPPLY CFM		2284
@1	VOLTAGE	460	471 / 470 / 470
@1	AMPERAGE	2.8	1.7 / 1.8 / 1.9

DATE OF TEST	06/22/16	

REMARKS:

DATE: 06/09/16 - 06/22/16 BY: PHH / CDM SHEET: 2

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AIR HANDLER TEST REPORT

PROJECT: JEB LITTLE CREEK RETRO COMMISSIONING BUILDING: 1

FAN DATA	TEST CODE AHU B	READINGS:
SYSTEM	RTU - 3	
LOCATION / AREA	ROOFTOP	CHILLED WATER COIL-
MANUFACTURER	MCQUAY	DP AIR: N/A
MODEL NUMBER	RDS708BY	CHILLED WATER COIL-
SERIAL NUMBER	FBOUO3120053103	DP WATER: N/A
MOTOR MAKE	A. O. SMITH	HOT WATER COIL-
MOTOR MODEL NO.	M0GB	DP AIR: N/A
MOTOR HP / RPM / FRAME	7.5 / 1745 / S213T	HOT WATER COIL-
VOLTS / PHASE / HERTZ	230 / 460 / 3 / 60	DP WATER: N/A
F.L. AMPS / SERVICE FACTOR	19.4 / 9.7 / 1.15	DUAL TEMP COIL-
		DP AIR WITH FILTERS: 1.22"
		DUAL TEMP COIL-
		DP WATER: .24"

KEY	TEST DATA	DESIGN	ACTUAL	
@2	SUPPLY CFM		3564	
@1	VOLTAGE	460	470 / 471 / 471	
@1	AMPERAGE	9.7	6.1 / 6.3 / 6.3	
DATE OF TEST		06/10/16		

REMARKS: Note: Return & outside air = Supply CFM.

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VELOCITY READINGS

PROJECT: JEB LITTLE CREEK RETRO COMMISSIONING BUILDING: 1

SYSTEM: RTU - 1, 2, 3 AREA SERVED: VARIOUS

READING #	RTU - 1		RTU - 2		RTU-3 RETURN	RTU - 3 O/A
1	162		84		974	54
2	49		109		843	66
3	180		88		867	94
4	165		297		883	84
5	293		300		800	
6	145		148		1040	
7	720		530			
8	417		363			
9	351		430			
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
TOTAL	2482		2349		5407	298
DIVIDED BY	9		9		6	4
AVG. VELOCITY	275		261		901	74
DUCT SIZE (IN.)	30 X 42		30 X 42		34 X 22	10 X 50
NET AREA (SQ. FT.)	8.75		8.75		3.67	3.47
ACTUAL CFM	2406		2284		3307	257
TEMPERATURE °F	79		79		85	85
DATE OF TEST	06/22/16		06/22/16		06/10/16	06/10/16

REMARKS: All data on this sheet measured using Shortridge Airdata Multimeter with Velgrid.

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AIR HANDLER TEST REPORT

PROJECT: JEB LITTLE CREEK RETRO COMMISSIONING BUILDING: 1

FAN DATA	TEST CODE AHU B	READINGS:
SYSTEM	HVU - 1	
LOCATION / AREA	MECHANICAL ROOM GYM	CHILLED WATER COIL-
MANUFACTURER	DUNHAM - BUSH	DP AIR: N/A
CAT. NUMBER	VAH - 40 BQ	CHILLED WATER COIL-
SERIAL NUMBER	5387	DP WATER: N/A
MOTOR MAKE	TECO	HOT WATER COIL-
MOTOR MODEL NO.	3A145A4001	DP AIR: N/A
MOTOR HP / RPM / FRAME	1.5 / 1735 / 145T	HOT WATER COIL-
VOLTS / PHASE / HERTZ	230 / 460 / 3 / 60	DP WATER: N/A
F.L. AMPS / SERVICE FACTOR	5.3 / 2.65 / 1.15	DUAL TEMP COIL-
		DP AIR: .01"
		DUAL TEMP COIL-
		DP WATER: N/ACC

KEY	TEST DATA	DESIGN	ACTUAL
@2	SUPPLY CFM		948
@1	VOLTAGE	460	469 / 470 / 469
@1	AMPERAGE	2.40	2.2 / 2.3 / 2.2

DATE OF TEST	06/09/16	

REMARKS:

DATE: 06/09/16 - 06/22/16 BY: PHH / CDM SHEET: 5

AIR HANDLER TEST REPORT

PROJECT: JEB LITTLE CREEK RETRO COMMISSIONING BUILDING: 1

FAN DATA	TEST CODE AHU B	READINGS:
SYSTEM	HVU - 2	
LOCATION / AREA	MECHANICAL ROOM GYM	CHILLED WATER COIL-
MANUFACTURER	DUNHAM - BUSH	DP AIR: N/A
CAT. NUMBER	VAH - 40 B	CHILLED WATER COIL-
SERIAL NUMBER	5388	DP WATER: N/A
MOTOR MAKE	U.S.MOTORS	HOT WATER COIL-
MOTOR MODEL NO.	AF28	DP AIR: N/A
MOTOR HP / RPM / FRAME	1.5 / 1750 / 145T	HOT WATER COIL-
VOLTS / PHASE / HERTZ	208 - 230 / 460 / 3 / 60	DP WATER: N/A
F.L. AMPS / SERVICE FACTOR	4.80 - 4.80 / 2.40 / 1.15	DUAL TEMP COIL-
		DP AIR: .03"
		DUAL TEMP COIL-
		DP WATER: N/ACC

KEY	TEST DATA	DESIGN	ACTUAL	
@2	SUPPLY CFM		1433	
@1	VOLTAGE	460	469 / 470 / 468	
@1	AMPERAGE	2.40	2.0 / 1.9 / 1.9	
DATE OF TEST		06/09/16		

REMARKS:

DATE: 06/09/16 - 06/22/16 BY: PHH / CDM SHEET: 6

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AIR HANDLER TEST REPORT

PROJECT: JEB LITTLE CREEK RETRO COMMISSIONING BUILDING: 1

FAN DATA	TEST CODE AHU B	READINGS:
SYSTEM	AHU - 1 (LADIES LOCKER)	
LOCATION / AREA	MECHANICAL ROOM GYM	CHILLED WATER COIL-
MANUFACTURER	DECTRON	DP AIR: N/A
MODEL NUMBER	DA3-007-43	CHILLED WATER COIL-
SERIAL NUMBER	14404	DP WATER: N/A
MOTOR MAKE	LEESON	HOT WATER COIL-
MOTOR MODEL NO.	C4T17DJ1B	DP AIR: N/A
MOTOR HP / RPM / FRAME	½ / 1725 / LS56	HOT WATER COIL-
VOLTS / PHASE / HERTZ	208 - 230 / 460 / 3 / 60	DP WATER: N/A
F.L. AMPS / SERVICE FACTOR	2 - 2.2 / 1.1 / 1.25	DUAL TEMP COIL WITH FILTERS-
		DP AIR: .35"
		DUAL TEMP COIL-
		DP WATER: N/ACC

KEY	TEST DATA	DESIGN	ACTUAL
@2	SUPPLY CFM		936
@1	VOLTAGE	460	469 / 470 / 469
@1	AMPERAGE	1.1	1.0 / .9 / .9

DATE OF TEST	06/09/16	

REMARKS: Note: Ports not available to obtain DP water.

DATE: 06/09/16 - 06/22/16 BY: PHH / CDM SHEET: 7

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DUCT TRAVERSE READINGS

PROJECT: JEB LITTLE CREEK RETRO COMMISSIONING BUILDING: 1

SYSTEM: HVU'S & AHU - 1 AREA SERVED: GYMNASIUM & LADIES LOCKER

READING #	HVU - R/A		HVU - R/A		AHU - 1	
1	175		301		664	
2	153		249		496	
3	185		225		303	
4	214		329		785	
5	177		281		549	
6	193		269		567	
7					1008	
8					997	
9					1005	
10					885	
11					862	
12					870	
13						
14						
15						
16						
17						
18						
19						
20						
TOTAL	1097		1654		8991	
DIVIDED BY	6		6		12	
AVG.VELOCITY	182		275		749	
DUCT SIZE (IN.)	35.5 X 23.5 X .9		35.5 X 23.5 X .9		18 X 10	
NET AREA (SQ. FT.)	5.21		5.21		1.25	
ACTUAL CFM	948		1433		936	
STATIC PRESS.	—		—		-.39"	
TEMPERATURE(°F)	79		79		74	
DATE OF TEST	06/09/16		06/09/16		06/09/16	

REMARKS: All data on this sheet measured using Shortridge Airdata Multimeter with Airfoil & Velgrid.

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AIR HANDLER TEST REPORT

PROJECT: JEB LITTLE CREEK RETRO COMMISSIONING BUILDING: 1

FAN DATA		TEST CODE AHU B		READINGS:
SYSTEM		MAU - 1 SUPPLY		
LOCATION / AREA		OUTSIDE		CHILLED WATER COIL-
MANUFACTURER		HEATEX, INC.		DP AIR: N/A
MODEL NUMBER		E-LASER-2-20/12-5200-EX/DX/WCU		CHILLED WATER COIL-
SERIAL NUMBER		N/A		DP WATER: N/A
MOTOR MAKE		A. O. SMITH		HOT WATER COIL-
MOTOR PART NO.		7-850115-01-0J		DP AIR: N/A
MOTOR HP / RPM / FRAME		7 ½ / 1745 / S213T		HOT WATER COIL-
VOLTS / PHASE / HERTZ		230 / 460 / 3 / 60		DP WATER: N/A
F.L. AMPS / SERVICE FACTOR		19.4 / 9.7 / 1.15		DUAL TEMP COIL-
MOTOR SHEAVE / BORE				DP AIR: N/A
FAN SHEAVE / BORE				DUAL TEMP COIL-
NO. BELTS / SIZE / ℄ DISTANCE*				DP WATER: N/ACC
NO. FILTERS / SIZE				
KEY	**TEST DATA**	**DESIGN**	**ACTUAL**	
@2	SUPPLY CFM		2440	
@1	VOLTAGE	460	465 / 464 / 465	
@1	AMPERAGE	9.7	9.9 / 10.6 / 10.0	
DATE OF TEST		06/22/16		

REMARKS: Note: Ports not available to obtain DP water.
Motor is over amping but it is within service factor. (11.16 amps)

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AIR HANDLER TEST REPORT

PROJECT: JEB LITTLE CREEK RETRO COMMISSIONING BUILDING: 1

FAN DATA	TEST CODE AHU B
SYSTEM	MAU - 1 EXHAUST
LOCATION / AREA	OUTSIDE
MANUFACTURER	HEATEX, INC.
MODEL NUMBER	—
SERIAL NUMBER	—
MOTOR MAKE	RELIANCE ELECTRIC
MOTOR MODEL NO.	18F3010NZ
MOTOR HP / RPM / FRAME	3 / 1735 / 182T
VOLTS / PHASE / HERTZ	230 / 460 / 3 / 60
F.L. AMPS / SERVICE FACTOR	8.4 / 4.2 / 1.15

KEY	TEST DATA	DESIGN	ACTUAL
@2	SUPPLY CFM		3474
@1	VOLTAGE	460	465 / 464 / 463
@1	AMPERAGE	4.2	3.3 / 3.4 / 3.2

DATE OF TEST		

REMARKS:

DATE: 06/09/16 - 06/22/16 BY: PHH / CDM SHEET: 10

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VELOCITY READINGS

PROJECT: JEB LITTLE CREEK RETRO COMMISSIONING BUILDING: 1

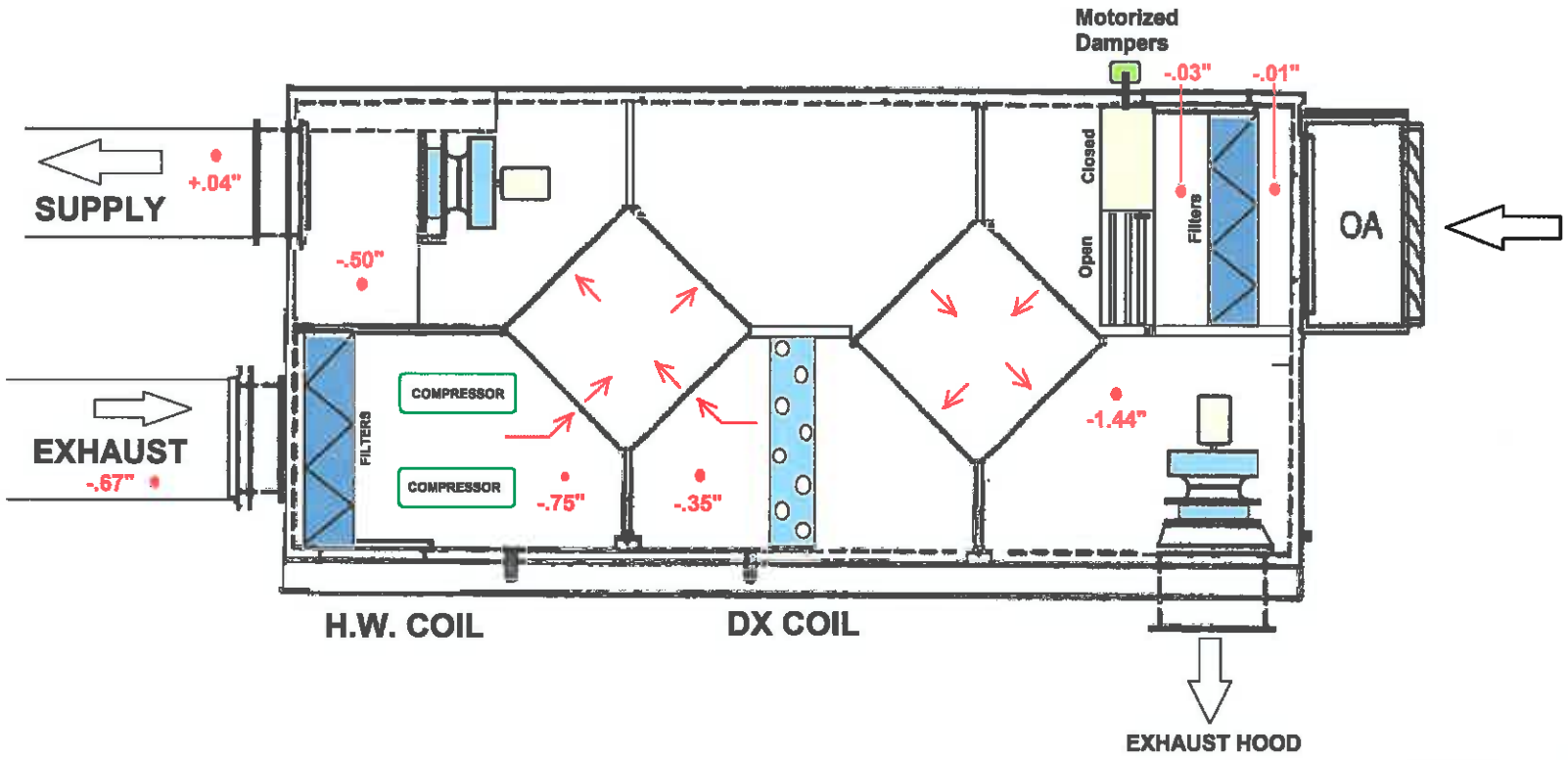
SYSTEM: MAU - 1 AREA SERVED: VARIOUS

READING #	SUPPLY		EXHAUST			
1	316		340			
2	253		352			
3	180		305			
4	252		306			
5	247					
6	181					
7	240					
8	223					
9	265					
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
TOTAL	2157		1303			
DIVIDED BY	9		4			
AVG. VELOCITY	239		325			
DUCT SIZE (IN.)	35 X 42		35 X 44			
NET AREA (SQ. FT.)	10.21		10.69			
ACTUAL CFM	2440		3474			
TEMPERATURE °F	85		74			
DATE OF TEST	06/22/16		06/22/16			

REMARKS: All data on this sheet measured using Shortridge Airdata Multimeter with Velgrid.

DATE: 06/09/16 - 06/22/16 BY: PHH / CDM SHEET: 11

BUILDING 1 MAU-1



TESTING SPECIALTIES INCORPORATED
TSI Project: 16-1002
NEBB

MAU-1 STATIC PROFILE
BLDG. 1, JEB LITTLE CREEK
VIRGINIA BEACH, VA

PUMP TEST REPORT

PROJECT: JEB LITTLE CREEK RETRO COMMISSIONING BUILDING: 1

DATA	CTP (OLD BLDG) (CP-3)	DTP-1 (OLD BLDG) (CP-2
DESIGN		
LOCATION	MECHANICAL ROOM	MECHANICAL ROOM
SERVICE	COOLING TOWER	DUAL TEMP.
MANUFACTURER	TACO	TACO
MODEL NUMBER	FE2513E2H1G2L0A	NO TAG
GPM / FT. HEAD	214 (13.5 L/S) / 114.8 (35M)	NO TAG
IMPELLER DIAM. (IN.)	10.7"	NO TAG
CIRCUIT SETTER SIZE / TYPE	AF400L / FLOW DESIGN	A5250L / FLOW DESIGN
MOTOR MFR./FRAME	BALDOR / 254T	A. O. SMITH / UA56H
MOTOR HORSEPOWER / RPM	15 / 1765	1 ½ / 1725
VOLTS/PHASE/HERTZ	230 / 460 / 3 / 60	460 / 200 - 230 / 3 / 60
F.L. AMPS/S.F.	36 / 18 / 1.15	2.8 / 5.0 - 5.6 / 1.15
ACTUAL		
FINAL DISCHG/SUCTION PRESS. (FT.)	183.2' / 73.0'	86.5' / 57.3'
FINAL DIFF. PRESSURE (FT.)	110.2'	29.2'
CIRCUIT SETTER FINAL PRESS./SETTING	82.4" / N/A	27.4" / N/A
CIRCUIT SETTER FINAL GPM	272.3	41.9
VOLTAGE T_1-T_2 T_2-T_3 T_3-T_1	465 / 460 / 463	465 / 461 / 463
AMPERAGE T_1 T_2 T_3	14.9 / 14.4 / 14.0	2.3 / 2.5 / 2.3

REMARKS: Note: DTP-1 suction pressure is including strainer due to port location.

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PUMP TEST REPORT

PROJECT: JEB LITTLE CREEK RETRO COMMISSIONING BUILDING: 1

DATA	DTP-2 (OLD BLDG)	
DESIGN		
LOCATION	MECHANICAL ROOM	
SERVICE	DUAL TEMP	
MANUFACTURER	TACO	
MODEL NUMBER	NO TAG	
GPM / FT. HEAD	NO TAG	
IMPELLER DIAM. (IN.)	NO TAG	
CIRCUIT SETTER SIZE / TYPE	N/A	
MOTOR MFR./FRAME	A. O. SMITH / P145T	
MOTOR HORSEPOWER / RPM	2.0 / 1745	
VOLTS/PHASE/HERTZ	200 - 230 / 460 / 3 / 60	
F.L. AMPS/S.F.	6.0 - 5.6 / 2.8 / 1.15	

REMARKS: Note: Pump valved off and looks like it is being repaired.

DATE: 06/09/16 - 06/22/16 BY: PHH / CDM SHEET: 14

WATER COOLED CHILLER TEST REPORT

PROJECT: JEB LITTLE CREEK RETRO COMMISSIONING BUILDING: 1

SYSTEM: CHILLER EQUIP. LOCATION: MECHANICAL ROOM

UNIT	WWHP - 1	MANUFACTURER.	FHP
MODEL NO.	WP240-4CSN		
SERIAL NO.	LB002674		

CHILLED WATER GPM		48.0	CONDENSER WATER GPM		49.4
CHILLED WATER DP WATER		5.76'	CONDENSER WATER DP WTR		N/ACC
CHW SUPPLY WATER TEMP		42	CW SUPPLY WATER TEMP		75.1
CHW RETURN WATER TEMP		45	CW RETURN WATER TEMP		80.3

COMPRESSOR MAKE / MODEL: COPELAND / SCROLL

REMARKS:

DATE: 06/09/16 - 06/22/16 BY: PHH / CDM SHEET: 15

WATER COOLED CHILLER TEST REPORT

PROJECT: JEB LITTLE CREEK RETRO COMMISSIONING BUILDING: 1

SYSTEM: CHILLER EQUIP. LOCATION: MECHANICAL ROOM

UNIT	WWHP - 2	MANUFACTURER.	FHP
MODEL NO.	WP360-4CSN		
SERIAL NO.	LB002793		

CHILLED WATER GPM		46.8	CONDENSER WATER GPM		47.3
CHILLED WATER DP WATER		N/ACC	CONDENSER WATER DP WTR		N/ACC
CHW SUPPLY WATER TEMP		44	CW SUPPLY WATER TEMP		75.1
CHW RETURN WATER TEMP		48	CW RETURN WATER TEMP		80.3

COMPRESSOR MAKE / MODEL: COPELAND / SCROLL

REMARKS:

DATE: 06/09/16 - 06/22/16 BY: PHH / CDM SHEET: 16

COOLING TOWER TEST REPORT

PROJECT: JEB LITTLE CREEK RETRO COMMISSIONING BUILDING: 1

SYSTEM: COOLING TOWER EQUIP. LOCATION: OUTSIDE

UNIT	CW - CT	MANUFACTURER	BALTIMORE AIRCOIL CO.
MODEL NO.	NO TAG		
SERIAL NO.	NO TAG		

CONDENSER WATER DP WTR		N/ACC			
CW SUPPLY WATER TEMP		75.1			
CW RETURN WATER TEMP		80.3			

REMARKS: Note: No ports available to obtain DP water.

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COOLING TOWER TEST REPORT

PROJECT: JEB LITTLE CREEK RETRO COMMISSIONING BUILDING: 1

SYSTEM: COOLING TOWER EQUIP. LOCATION: OUTSIDE

UNIT	CW-CT (OLD BLDG)	MANUFACTURER	EVAPCO
MODEL NO.	LSWA - 58A2		
SERIAL NO.	972099		

CONDENSER WATER DP WTR		N/ACC			
CW SUPPLY WATER TEMP		78.5			
CW RETURN WATER TEMP		81.7			

REMARKS: Note: Ports not available to obtain DP water.

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AIR COOLED CHILLER TEST REPORT

PROJECT: JEB LITTLE CREEK RETRO COMMISSIONING BUILDING: 1

SYSTEM: CHILLER EQUIP. LOCATION: OUTSIDE

UNIT	CHLR (OLD BLDG)	MANUFACTURER.	CARRIER
MODEL NO.	30RAN030B-611EU		
SERIAL NO.	0805Q03650		

CHILLED WATER GPM		41.9			
CHILLED WATER DP WATER		12.1'			
SUPPLY WATER TEMP		52.0			
RETURN WATER TEMP		N/ACC			

COMPRESSOR MAKE / MODEL: PERFORMER / SCROLL COMPRESSOR

REMARKS:

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BOILER TEST REPORT

PROJECT: JEB LITTLE CREEK RETRO COMMISSIONING BUILDING: _____

UNIT DATA	UNIT # B - 1	UNIT # B - 2
LOCATION / AREA	MECHANICAL ROOM	MECHANICAL ROOM
MANUFACTURER	LAARS HEATING SYSTEMS	LAARS HEATING SYSTEMS
MODEL NUMBER	SMB-250N	SMB-250N
SERIAL NUMBER	S03L0189	S03L0188

TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL
HOT WATER FLOW (GPM)		* 1		* 1
HOT WATER DP WATER				
SUPPLY WATER TEMPERATURE				
RETURN WATER TEMPERATURE				
FLU GAS AIR TEMPERATURE				

REMARKS: * 1 Building in "summer" mode. HW System shut down for season.

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