Report By:

National TAB
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SUITE 4210
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Report: TEST

Function: Test, Adjust, & Balance

Date: 04/17/2024

PROJECT

DGS Ishi Conservation Camp (Paynes Creek, CA)

30500 Plum Creek Rd

Paynes Creek, CA 95811

Client

B&M Builders, Inc.

11330 Sunrise Park Drive

Suite C

Rancho Cordova, CA 95742

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Project: DGS Ishi Conservation Camp (Paynes Creek, CA)

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Project: DGS Ishi Conservation Camp (Paynes Creek, CA)

System/Unit: AHU/RTU

Asset: AC-1 AREA:DINING

Unit Data		
	Design	**Actual**
MFG	NA	CARRIER
Serial Num	-	
Model Num	NA	48FCTM12A3A5-0A9C0
Type	-	
Configuration	HORIZONTAL	
Num PreFilter 1	-	4
PreFilter Size 1	-	20X20X2
Num PreFilter 2	-	
PreFilter Size 2	-	
Num Final Filter 1	-	
Final Filter Size 1	-	
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	3	
Motor Rpm	-	
Phase	3	
Rated Voltage	208	
Rated Amperage	12.6	
Service Factor	-	

Test Data		
	Design	**Actual**
SF CFM	4000	
SF RPM	1906	
RA CFM	2449	
OA CFM	1551	
RL Voltage	208	
RL Amperage	12.6	
VFD Max SetPt	-	
SF Motor Freq(HZ)	-	
SF System SetPt	-	
RA Damper Position	-	
OA Damper Position	-	
Brake Horse Power	2.41	

Performance Data		
	Design	**Actual**
MA Plenum SP	-	
Fan Suction SP	-	
Total ESP	1.0	
Fan Total SP	1.22	
Pre-Filter P.D.	-	
Final Filters P.D.	-	
CHW Coil P.D.	-	
PreHeat Coil P.D	-	
HW Coil P.D.	-	

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Project:DGS Ishi Conservation Camp (Paynes Creek, CA)

AHU/RTU

Diffuser Supply (GRD)

AC-1/DINING

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
1-1	DINING	E	16X16	500			-
1-2	DINING	E	16X16	500			-
1-3	DINING	E	16X16	500			-
1-4	DINING	E	16X16	500			-
1-5	DINING	E	16X16	500			-
1-6	DINING	E	16X16	500			-
1-7	DINING	E	16X16	500			-
1-8	DINING	E	16X16	500			-
Total				4000	0	0	0%

Diffuser Ret/Exh (GRD)

AC-1/DINING

Asset								
Asset Name	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
R1-1	I	26X26	2000					-
R1-2	I	26X26	2000					-
Total			4000		0	0	0	0%

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Project: DGS Ishi Conservation Camp (Paynes Creek, CA)

System/Unit: AHU/RTU

Asset: AC-2 AREA:102

Unit Data		
	Design	**Actual**
MFG	NA	CARRIER
Serial Num	-	
Model Num	NA	48FCTM24AJA5-0A9C0
Type	-	
Configuration	HORIZONTAL	
Num PreFilter 1	-	6
PreFilter Size 1	-	20X25X2
Num PreFilter 2	-	
PreFilter Size 2	-	
Num Final Filter 1	-	
Final Filter Size 1	-	
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	10	
Motor Rpm	-	
Phase	3	
Rated Voltage	208	
Rated Amperage	12.6	
Service Factor	-	

Test Data		
	Design	**Actual**
SF CFM	8000	
SF RPM	2065	
RA CFM	6130	
OA CFM	1870	
RL Voltage	208	
RL Amperage	12.6	
VFD Max SetPt	-	
SF Motor Freq(HZ)	-	
SF System SetPt	-	
RA Damper Position	-	
OA Damper Position	-	
Brake Horse Power	4.97	

Performance Data		
	Design	**Actual**
MA Plenum SP	-	
Fan Suction SP	-	
Total ESP	1.0	
Fan Total SP	-	
Pre-Filter P.D.	-	
Final Filters P.D.	-	
CHW Coil P.D.	-	
PreHeat Coil P.D	-	
HW Coil P.D.	-	

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Project:DGS Ishi Conservation Camp (Paynes Creek, CA)

AHU/RTU

Diffuser Supply (GRD)

AC-2/102

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
2-1	105	E	16X16	500			-
2-2	104	F	20X20	900			-
2-3	102	F	20X20	900			-
2-4	102	F	20X20	900			-
2-5	102	F	20X20	900			-
2-6	102	E	16X16	700			-
2-7	110	C	9X9	200			-
2-8	102	F	20X20	900			-
2-9	102	F	20X20	900			-
2-10	108	A	6X6	75			-
2-11	103	D	12X12	350			-
2-12	113	E	16X16	700			-
2-13	109	A	6X6	75			-
Total				8000	0	0	0%

Diffuser Ret/Exh (GRD)

AC-2/102

Asset								
Asset Name	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
R2-1	C	9X9	200					-
R2-2	E	16X16	500					-
R2-3	E	16X16	700					-
R2-4	J	30X30	2200					-
R2-5	J	30X30	2200					-
R2-6	J	30X30	2200					-
Total			8000		0	0	0	0%

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Project: DGS Ishi Conservation Camp (Paynes Creek, CA)

System/Unit: FAN - Exhaust

Asset: EF-1 AREA:ROOF - HOODS 71A & 71B

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUBE-240HP-50
Serial Num	-	
Type	CRE UPBLAST	

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	5	
Motor Rpm	1725	
Phase	3	
Voltage (rated)	208	
Amperage (rated)	-	16.7
Service Factor	-	

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	
Motor Bore Size	-	
Motor Sheave SetPt	-	
Fan Sheave Size	-	
Fan Sheave Bore	-	
Belt CL Distance	-	
Num of Belts	-	
Belt Size	-	

Test Data		
	Design	**Actual**
CFM	5612	
Fan RPM	1221	
RL Voltage	-	208
RL Amperage	16.7	
Suction ESP	-	
Discharge ESP	-	
Total ESP	2.0	
Brake Horse Power	-	

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Project: DGS Ishi Conservation Camp (Paynes Creek, CA)

System/Unit: FAN - Exhaust

Asset: EF-2 AREA:ROOF - HOODS 52A & 52B

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUBE-220HP-30
Serial Num	-	
Type	CRE UPBLAST	

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	3	
Motor Rpm	1725	
Phase	3	
Voltage (rated)	208	
Amperage (rated)	-	10.6
Service Factor	-	

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	
Motor Bore Size	-	
Motor Sheave SetPt	-	
Fan Sheave Size	-	
Fan Sheave Bore	-	
Belt CL Distance	-	
Num of Belts	-	
Belt Size	-	

Test Data		
	Design	**Actual**
CFM	4423	
Fan RPM	1154	
RL Voltage	-	208
RL Amperage	10.6	
Suction ESP	-	
Discharge ESP	-	
Total ESP	2.0	
Brake Horse Power	-	

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Project: DGS Ishi Conservation Camp (Paynes Creek, CA)

System/Unit: FAN - Exhaust

Asset: EF-3 AREA:ROOF - DISHWASHER

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUE-100HP-VG
Serial Num	-	
Type	CRE UPBLAST	

Test Data		
	Design	**Actual**
CFM	600	
RL Voltage	-	115
RL Amperage	-	6.6
Total ESP	1.0	

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	0.5	
Motor Rpm	2500	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	6.6
Service Factor	-	

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Project: DGS Ishi Conservation Camp (Paynes Creek, CA)

System/Unit: FAN - Exhaust

Asset: EF-4 AREA:106A

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CSP-A510
Serial Num	-	
Type	INLINE	

Test Data		
	Design	**Actual**
CFM	305	
RL Voltage	-	115
RL Amperage	-	3.3
Total ESP	0.517	

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	179W	
Motor Rpm	1070	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	3.3
Service Factor	-	

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Project: DGS Ishi Conservation Camp (Paynes Creek, CA)

System/Unit: FAN - Exhaust

Asset: EF-5 AREA:105

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CSP-A510
Serial Num	-	
Type	INLINE	

Test Data		
	Design	**Actual**
CFM	305	
RL Voltage	-	115
RL Amperage	-	3.3
Total ESP	0.517	

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	179W	
Motor Rpm	1070	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	3.3
Service Factor	-	

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Project: DGS Ishi Conservation Camp (Paynes Creek, CA)

System/Unit: FAN - Exhaust

Asset: EF-6 AREA:106A

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CSP-A410
Serial Num	-	
Type	INLINE	

Test Data		
	Design	**Actual**
CFM	340	
RL Voltage	-	115
RL Amperage	-	1.7
Total ESP	0.321	

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	122W	
Motor Rpm	1000	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	1.7
Service Factor	-	

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Project: DGS Ishi Conservation Camp (Paynes Creek, CA)

System/Unit: FAN - Supply

Asset: MUA-1 AREA:102 - HOOD 71A

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	IGX-P127-H32-MF-S
Serial Num	-	
Type	GAS FIRED	
Configuration	HORIZONTAL	
Num Filters Size 1	-	
Filter Size 1	-	

Test Data		
	Design	**Actual**
CFM	7914	
SF RPM	1215	
RL Voltage	-	208
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	1.5	
Brake Horse Power	-	

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	7.5	
Motor Rpm	1180	
Phase	3	
Voltage (rated)	208	
Amperage (rated)	-	
Service Factor	-	

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Project:DGS Ishi Conservation Camp (Paynes Creek, CA)

FAN - Supply

Diffuser Supply (GRD)

MUA-1/102 - HOOD 71A

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
M1-1	102 - HOOD 52A	DUCT	12X10	896			-
M1-2	102 - HOOD 52B	DUCT	28X12	2536			-
M1-3	102 - HOOD 71B	DUCT	20X12	1723			-
M1-4	102 - HOOD 71A	DUCT	32X12	2759			-
Total				7914	0	0	0%

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Project: DGS Ishi Conservation Camp (Paynes Creek, CA)

System/Unit: Pump

Asset: P-1 AREA:PUMP HOUSE

Unit Data		
	Design	**Actual**
MFG	NA	NA
Model Num	NA	NA
Serial Num	-	
Service	-	WATER STORAGE TANK
Type	-	
Configuration	-	
Pump RPM	-	
GPM/HD	375 / 240	
Impeller Diameter	-	

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	40	
Motor Rpm	-	3550
Phase	-	3
Voltage	-	208
Amperage	-	
Service Factor	-	
Efficiency	-	
Power Factor	-	

Test Data		
	Design	**Actual**
Pump Off Pres	-	
Pump Dead Head Pres	-	
Act Impeller Dia (IN)	-	
Valve Open GPM (FT)	-	
Valve Open Diff (FT)	-	
Final Suction Pres (FT)	-	
Final Discharge Pres (FT)	-	
Total Head Pres (FT)	240	
Final GPM	375	
Pump Rotation	-	
Motor RPM	-	3550
Pump RPM	-	
Motor Frequency	-	
System SetPt	-	
RL Voltage	-	208
RL Amperage	-	
Brake Horse Power	-	