

Report By:

National TAB
1329 E. KEMPER ROAD
SUITE 4210
CINCINNATI, OH 45246

NATIONAL

TAB

Comfort. Under control.

Report: TAB Report
Function: Test, Adjust, & Balance
Date: 12/21/2022

PROJECT
12-19 PENN STATION - JASPER, IN

4288 N. NEWTON ST

JASPER, IN 47546

Client

C&T DESIGN
4025 PORT UNION RD.
FAIRFIELD, OH 45014

National TAB

Project: 12-19 PENN STATION - JASPER, IN

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Project Summary

The summary below provides a quick understanding of our scope of work and general testing procedures. Enclosed in the report is further detail about your building performance including recommendations, asset data, and pictures. Our focus is to work with the trades to remedy any issues or deficiencies during the actual field balancing and not after the balancing has occurred to achieve a positive environment and outcome. The level of success is determined by the availability of the trades, possible parts needed, or time constraints.

RTU's (Roof Top Units) w/ Diffusers

Each of the RTU's were measured at their terminal devices or via traverse to establish a total flow for that unit. Each RTU was adjusted to within tolerance of the engineer's design flow. Each outlet was then adjusted to within tolerance of the design flow. Outside air was measured by reading the intake air opening with a velocity grid and multiplying by the free area. The outside air damper was adjusted until the airflow was within the design requirements. Any equipment that fell outside of that tolerance is noted throughout the report.

Kitchen Exhaust Hood & Associated Fans

Each kitchen exhaust fan was measured at the hood filter bay utilizing a velocity matrix and a manufacturer's correction factor. Each filter velocity is multiplied by the manufacturer's corrected area. The sum of these readings equals the total flow of the exhaust fans. The total flow of the exhaust was then adjusted to within tolerance of the design flow. . Any EF's that fell outside of this tolerance is noted throughout the report.

MUA (Make Up Air Unit) w/ PSP

Total flow for the MAU (Make-up Air Unit) unit was measured by readings taken at the discharge of the hood's perforated supply plenum. Readings taken with a velocity matrix were averaged and multiplied by a manufacturer's corrected area. Adjustments to the fan speed were made in order to bring the unit to within design tolerance. Any MUA's that fell outside of this tolerance is noted throughout the report.

General Exhaust Fans w/ Grilles

The general exhaust fans were measured by reading each air device with a flow hood. The total airflow for each fan is equivalent to the sum of these readings. Fan speed was then adjusted so that the airflow was within tolerance of design. Each terminal device was balanced to within tolerance of the design volume using the installed volume dampers. Any equipment that fell outside of this tolerance is noted throughout the report.

Final Building Tests

After completing the test and balance the final building pressure was measured. It was confirmed that the building pressure fell within acceptable tolerances of $-0.02''$ wc to $+0.02''$ wc and that the pressure measurement coincides with the actual and design net airflow. Any deviations from these standards are noted throughout the report.

The hood capture was tested at the perimeter of the hood and the cook top level with the equipment heat on to ensure satisfactory hood capture and containment.



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Project Issue Information

Issue Name : EF2 Fan Casing Damage

Description : There are a few points in the outside of the fan that are bent inwards. See picture attached. No issues with fan rotation.

Created By : National TAB

Assigned To : National TAB - Will Turnbough

Status : Open

Originated Date : 12/20/2022 - Travis Halter - National TAB

Project Issue File Details



FuselTe8bf2b78a1d746....

AIR BALANCE SCHEDULE

UNIT	AREA SERVED	HVAC SUPPLY		HVAC RETURN		HVAC OUTDOOR		OA %		HOOD MAKE-UP		HOOD EXHAUST		GENERAL EXH.	
		DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
RTU-1	KITCHEN	2000	2027	525	539	1475	1488	73.8%	73.4%						
RTU-2	DINING	2000	2156	550	697	1450	1459	72.5%	67.7%						
EF-1	HD1 GRILL											1225	1199		
EF-2	HD2 OVN											600	607		
EF-3	HD3 FRYERS											800	797		
EF-4/5	RESTROOMS													225	236
TOTALS		4000	4183	1075	1236	2925	2947			0	0	2625	2603	225	236

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	2925	2947
TOTAL EXHAUST	2850	2839
NET AIRFLOW	75	108

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H2O)
FRONT	0.001
SIDE	
REAR	0.001
AVERAGE	0.001

FINAL CHECKS

ACTUAL NET AIRFLOW COINCIDES WITH DESIGN: ✓

MEASURED PRESSURES COINCIDES WITH ACTUAL NET AIRFLOW: ✓

PRESSURE FALLS WITHIN IMC TOLERANCE OF +/-0.02" W.C. ✓

NOTES:



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CheckList Information

Name : TECH - SITE PICTURES **Status :** NotSubmitted
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB

CheckList Item Details

STORE FRONT



Front_of_Store.jpg

RTU-1



FuseITe46df95514f14a....

RTU-2



FuseIT67ddf24d8e414d....

KEF-1



FuseIT678f0b4ac5b643....

KEF-2



FuseIT5095ec91caa14e....

KEF-3



FuseITf2c212bb0b364a....

EF-4/5



FuseIT9b856658dba64d....



FuseITc1f8469273a44c....

HOOD-1



FuseIT4ecab03deaf143....

HOOD-2



FuseIT9349ee85b65442....

HOOD-3



FuseIT09e68f4e476d49....

Notes/Comments :



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CheckList Information

Name : TECH - STEP 1: INITIAL WALKTHROUGH **Status :** NotSubmitted
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB

CheckList Item Details

INITIAL SITE WALKTHROUGH

All diffusers and grilles are installed and match design?	YES
All hood filters installed and accounted for?	YES
Hoods are wired and have power?	YES
Hood is free of alarms?	YES
Thermostats have power?	YES
Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	YES

Notes/Comments :

NA



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CheckList Information

Name : TECH - STEP 2: UNIT DATA AND EVAL **Status :** NotSubmitted

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

CheckList Item Details

UNIT DATA AND EVALUATION WHILE GATHERING UNIT DATA CHECK THE FOLLOWING:

RTU's/AHU's

Economizers are assembled and functional?	YES
DCV Max damper opening position is set to minimum?	DOAS
Free cooling enthalpy set point set for lowest setting (Typically "D")	DOAS
Motors are all operating below the FLA rating?	YES
Are belts tight?	DD
If direct drive unit is the speed controller working.	YES
Is gas piping installed and valves turned on?	YES
Unit free of noticeable noise and vibration	YES

EF's

Rotation is correct?	YES
Belts are tight?	DD
Grease cup installed on hood fan?	YES
Hinge kit installed installed on hood fan?	YES
Lean fan back. Is grease duct installation adequate and is duct ran all the way to the base of the fan?	YES

Flex conduit is long enough so that fan can be completely tilted back?	YES
There is no major leakage around base of fan?	YES
Is the motor operating below the motor FLA rating?	YES
For restroom fan(s) is the back draft damper installed and can it fully open?	YES
Unit free of noticeable noise and vibration?	YES

MUA

Rotation is correct?	NA
Gas piping is installed and valves are in on position?	NA
Heater tested and is functional?	NA
Internal motorized damper is fully opening?	NA
Motor is operating below the FLA rating?	NA
Unit free of noticeable noise and vibration?	NA

HOODS

Kitchen equipment installed in proper places?	YES
Can kitchen equipment be turned on for final smoke test?	NO

DOCUMENTATION

Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	YES
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<p>Notes/Comments :</p> <hr/> <p>NA</p> <hr/>



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CheckList Information

Name : TECH - STEP 3: TEST, ADJUST AND BALANCE **Status :** NotSubmitted

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

CheckList Item Details

TEST, ADJUST, AND BALANCE ALL EQUIPMENT:

DURING TESTING MAKE NOTE OF THE FOLLOWING:

Is space free of drafting?	YES
Is space comfortable in all areas?	YES
Is the space free of ventilation noise?	YES
If deviations from design were necessary to resolve 1-3 what were they? Otherwise put "NA".	NA

Notes/Comments :

NA



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CheckList Information

Name :	TECH - STEP 4: FINAL TESTS	Status :	NotSubmitted
Assigned Organization :	National TAB	Asset :	
Requesting Organization :	National TAB		

CheckList Item Details

FINAL TESTS

HOOD CAPTURE TEST

List equipment turned on for testing	NONE
List smoke candle type used	SMOKE EMITTER
Smoke test capture - Perimeter of hood	100%
Smoke test capture - Top of cooking surface	100%

WITNESS

Date test was completed	12/21/2022
TAB tech name / Firm	TRAVIS HALTER / NATIONAL TAB
Site super name / Firm	NA
Owner representative name / Firm (if Applicable)	PATRICK HAMILTON / PENN STATION LLC.
Building pressure at front & back doors (All Systems On)	0.001" AVE

ADDITIONAL

Do actual net building airflow, design net building airflow, and pressure coincide? If not why? (All three should either be positive or negative)	YES
---------------------------------------------------------------------------------------------------------------------------------------------------	-----

PROGRAM THERMOSTATS

Occupied 7:15AM-10:15PM: 68 Heat/72 Cool (NOTE: 3 degree MAX setback)	DOAS
-----------------------------------------------------------------------	------

Notes/Comments :

NA

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Project: 12-19 PENN STATION - JASPER, IN

System/Unit: AHU/RTU



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Asset: RTU1

AREA: DINING

Unit Data		
	Design	Actual
MFG	CAPTIVE AIRE	CAPTIVE AIRE
Serial Num	-	5625894
Model Num	CASRTU1-I.200-15-7.5T-DOAS	CASRTU1-I.200-15-7.5T-DOAS
Type	DOAS	DOAS
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	15.75x19.75
Num Final Filter 1	-	8
Final Filter Size 1	-	16x16 2

Motor Data		
	Design	Actual
Motor MFG	-	TECO
Frame	-	145T
Horsepower	2	2
Motor Rpm	-	1740
Phase	3	3
Rated Voltage	208	230/460
Rated Amperage	-	5.48/2.74

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

Completed By: Travis Halter

Notes:

Test Data		
	Design	Actual
SF CFM	2000	2027
SF RPM	-	1276 (44.0 HZ)
RA CFM	525	539
OA CFM	1475	1488
RL Voltage	-	214/214/214
RL Amperage	-	3.9/3.9/3.9
SF Rotation	-	CCW, CORRECT
Min OA Damper Position	-	7.70 V
Min OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	Actual

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	YES
Condensate Drain Installed	-	YES

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Project:12-19 PENN STATION - JASPER, IN

AHU/RTU



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Diffuser Supply (GRD)

RTU1/DINING

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	BOH	4-WAY	10"	100	1	229	107	107	107.0
SGRD2	PREP AREA	4-WAY	10"	250	1	232	245	245	98.0
SGRD3	PREP AREA	4-WAY	10"	250	1	312	232	232	92.8
SGRD4	SERVING AREA	4-WAY	10"	250	1	276	259	259	103.6
SGRD5	SERVING AREA	LINEAR	10"	300	1	369	311	311	103.7
SGRD6	SERVING AREA	LINEAR	10"	300	1	386	323	323	107.7
SGRD7	SERVING AREA	LINEAR	10"	300	1	314	276	276	92.0
SGRD8	SERVING AREA	4-WAY	10"	250	1	334	274	274	109.6

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Project: 12-19 PENN STATION - JASPER, IN

System/Unit: AHU/RTU



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Asset: RTU2

AREA:DINING

Unit Data		
	Design	Actual
MFG	CAPTIVE AIRE	CAPTIVE AIRE
Serial Num	-	5625894
Model Num	CASRTU1-I.200-15-7.5T-DOAS	CASRTU1-I.200-15-7.5T-DOAS
Type	DOAS	DOAS
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	15.75x19.75
Num Final Filter 1	-	8
Final Filter Size 1	-	16x16x2

Test Data		
	Design	Actual
SF CFM	2000	2156
SF RPM	-	1624 (56.0 HZ)
RA CFM	550	697
OA CFM	1450	1459
RL Voltage	-	216/216/216
RL Amperage	-	5.1/5.1/5.1
SF Rotation	-	CCW, CORRECT
Min OA Damper Position	-	6.90 V
Min OA Damper Type	-	ECONOMIZER

Motor Data		
	Design	Actual
Motor MFG	-	TECO
Frame	-	145T
Horsepower	2	2
Motor Rpm	-	1740
Phase	3	3
Rated Voltage	208	230/460
Rated Amperage	-	5.48/2.74

Performance Data		
	Design	Actual

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	YES
Condensate Drain Installed	-	YES

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

Completed By: Travis Halter

Notes:

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Project:12-19 PENN STATION - JASPER, IN

AHU/RTU



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Diffuser Supply (GRD)

RTU2/DINING

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	DINING	LINEAR	10"	300	1	262	273	273	91.0
SGRD2	DINING	LINEAR	10"	300	1	271	275	275	91.7
SGRD3	DINING	4-WAY	10"	250	1	266	254	254	101.6
SGRD4	DINING	4-WAY	10"	250	1	254	256	256	102.4
SGRD5	DINING	4-WAY	10"	250	1	252	249	249	99.6
SGRD6	DINING	4-WAY	10"	250	1	276	264	264	105.6
SGRD7	DINING	4-WAY	10"	250	1	267	253	253	101.2
SGRD8	DINING	4-WAY	10"	150	1	197	146	146	97.3
SGRD9	WOMENS RR	ROUND 4-WAY	6"	70	1	36	65	65	92.9
SGRD10	MENS RR	ROUND 4-WAY	8"	130	1	80	121	121	93.1

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Project: 12-19 PENN STATION - JASPER, IN

System/Unit: FAN - Exhaust



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Asset: EF1

AREA:HD1 GRILL

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU85HFA	DU85HFA
Serial Num	-	5625894
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	0.750	0.75
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	8.9
Service Factor	-	1.0

Test Data		
	Design	Actual
CFM	1225	1199
Fan RPM	1240	954
Fan Rotation	-	CCW, CORRECT
Motor RPM	-	954
System SetPt	-	53%
RL Voltage	-	124
RL Amperage	-	2.8
Total ESP	1.150"	0.45"
Fan Inlet SP	-	-0.45"
Fan Discharge SP	-	ATM

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Notes:

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Project: 12-19 PENN STATION - JASPER, IN

System/Unit: FAN - Exhaust



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Asset: EF2

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU33HFA	DU33HFA
Serial Num	-	5625894
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	0.333	0.33
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	4.3
Service Factor	-	1.0

Test Data		
	Design	Actual
CFM	600	607
Fan RPM	1296	1296
Fan Rotation	-	CCW, CORRECT
Motor RPM	-	1296
System SetPt	-	72%
RL Voltage	-	123
RL Amperage	-	2.0
Total ESP	0.600"	0.38"
Fan Inlet SP	-	-0.38"
Fan Discharge SP	-	ATM

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Notes:

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Project: 12-19 PENN STATION - JASPER, IN

System/Unit: FAN - Exhaust



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Asset: EF3

AREA:HD3 FRYERS

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU85HFA	DU85HFA
Serial Num	-	5625894
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	0.750"	0.75
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	8.9
Service Factor	-	1.0

Test Data		
	Design	Actual
CFM	800	797
Fan RPM	1210	882
Fan Rotation	-	CCW, CORRECT
Motor RPM	-	882
System SetPt	-	49%
RL Voltage	-	123
RL Amperage	-	2.1
Total ESP	1.2"	0.51"
Fan Inlet SP	-	-0.51"
Fan Discharge SP	-	ATM

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Notes:

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Project: 12-19 PENN STATION - JASPER, IN

System/Unit: FAN - Exhaust



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Asset: EF4

AREA:WOMEN'S RR

Unit Data		
	Design	Actual
MFG	NA	PANASONIC
Model Num	NA	FV-0511VQ1
Serial Num	-	20528M
Type	-	CEILING
Configuration	-	HORIZONTAL

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	-	1
Voltage (rated)	-	120
Amperage (rated)	-	0.31
Service Factor	-	1.0

Test Data		
	Design	Actual
CFM	75	82
Fan RPM	-	DD
Fan Rotation	-	CW, CORRECT
Motor RPM	-	DD
System SetPt	-	MED
RL Voltage	-	[1]
RL Amperage	-	[1]
Total ESP	-	0.19"
Fan Inlet SP	-	ATM
Fan Discharge SP	-	0.19"

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Notes: [1] No safe place to take volts and amps.

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Project: 12-19 PENN STATION - JASPER, IN
System/Unit: FAN - Exhaust



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Asset: EF5

AREA: MEN'S RR

Unit Data		
	Design	Actual
MFG	NA	PANASONIC
Model Num	NA	FV-1115VQ1
Serial Num	-	20919M
Type	-	CEILING
Configuration	-	HORIZONTAL

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	-	1
Voltage (rated)	-	120
Amperage (rated)	-	0.31
Service Factor	-	1.0

Test Data		
	Design	Actual
CFM	150	154
Fan RPM	-	DD
Fan Rotation	-	CW, CORRECT
Motor RPM	-	DD
System SetPt	-	SINGLE SPEED
RL Voltage	-	[1]
RL Amperage	-	[1]
Total ESP	-	0.16"
Fan Inlet SP	-	ATM
Fan Discharge SP	-	0.16"

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Notes: [1] No safe place to take volts and amps.

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Project: 12-19 PENN STATION - JASPER, IN

System/Unit: Kitchen Hood Type I



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Asset: HD1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	3650 BD-2	3650 BD-2
Job / Serial Num	-	5625894
Type	TYPE I LOW PROXIMITY	TYPE I LOW PROXIMITY
Hood length	84"	84"
Hood Width	36"	36"

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	16X16	16X16
Filter Qty 1	4	5
Filter AK factor size 1	1.62	1.62
Filter Total AK Area	6.48	8.1
Filter1 FPM	-	165
Filter2 FPM	-	143
Filter3 FPM	-	143
Filter4 FPM	-	144
Filter5 FPM	-	144
Filter Ave FPM(corr)	-	148
CFM	1225	1199

Cooking Equipment		
	Design	Actual
Item 1	-	GRIDDLE

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Project: 12-19 PENN STATION - JASPER, IN

System/Unit: Kitchen Hood Type I



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Asset: HD2

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	4412 PS-OVN	4412 PS-OVN
Job / Serial Num	-	5625894
Type	TYPE I LOW PROXIMITY	TYPE I LOW PROXIMITY
Hood length	21.25	21.25"
Hood Width	44"	44"

Test Data Exhaust		
	Design	Actual
Filter Type	SS BAFFLE	SS BAFFLE
Filter Size 1	20X10	20X10
Filter Qty 1	2	2
Filter AK factor size 1	-	1.2
Filter Total AK Area	-	2.4
Filter1 FPM	-	268
Filter2 FPM	-	237
Filter Ave FPM(corr)	-	253
CFM	600	607

Cooking Equipment		
	Design	Actual
Item 1	-	OVEN

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Notes:

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Project: 12-19 PENN STATION - JASPER, IN

System/Unit: Kitchen Hood Type I



Comfort. Under control.

Asset: HD3

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	3650 BD-2	3650 BD-2
Job / Serial Num	-	5625894
Type	TYPE I LOW PROXIMITY	TYPE I LOW PROXIMITY
Hood length	50"	50"
Hood Width	36"	36"

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	16X16	16X16
Filter Qty 1	3	3
Filter AK factor size 1	1.62	1.62
Filter Total AK Area	4.86	4.86
Filter1 FPM	-	158
Filter2 FPM	-	168
Filter3 FPM	-	167
Filter Ave FPM(corr)	-	164
CFM	800	797

Cooking Equipment		
	Design	Actual
Item 1	-	FRYERS

Completed By: Travis Halter

Notes:

