

Report By:

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

NATIONAL

TAB

Comfort. Under control.

**Report: TEST - FINAL TAB REPORT
Function: Test, Adjust, & Balance
Date: 8/24/2022**

**PROJECT
07-11 CULVERS - ANGOLA, IN**

2207 N WAYNE STREET

ANGOLA, IN 46703

Client

Captive-Aire Region #60

National TAB

Project: 07-11 CULVERS - ANGOLA, 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)

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.

General Exhaust Fans

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 recorded at +0.011" W.C. average. This pressure falls within the recommended tolerances by the International Mechanical Code of +0.02" W.C. to -0.02" W.C. The building is designed for a net positive pressure and this measurement coincides with that requirement.

The hood capture was tested at the perimeter of the hood and the cook top level with the equipment heat "off" and 100% capture was observed. Cooking equipment was not able to be turned on while the technician was on site.



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Project Issue Information

Issue Name : DOAS condensate drain size.

Description : Due to high fan suction pressure on both units, recommend distance between inlet and outlet increased for condensate drains from 2" to 4" to help units efficiently drain.

Created By : National TAB

Assigned To : National TAB - Michael McDonnell

Status : Open

Originated Date : 07/14/2022 - Michael McDonnell - National TAB

Project Issue File Details



FuselTb19772e9f45f42658f709a
2bae88d222.jpeg

Project Issue Response Details

- **07/14/2022** **National TAB - Will Turnbough**
 - Recommend Captive Aire advise based on their experience if this is required.



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Project Issue Information

Issue Name : PRV-2 and PRV-3 not secured to curb

Description : Recommend fans are secured to their curbs with screws.

Created By : National TAB

Assigned To : National TAB - Michael McDonnell

Status : Open

Originated Date : 07/12/2022 - Michael McDonnell - National TAB

Project Issue File Details



FuselT5d7911699c164576acdf77
b0bceaff4d.jpeg



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Project Issue Information

Issue Name : RTU-2 has vibration.

Description : RTU-2 (kitchen) has vibration. CAS is aware and inspected blower wheel.

Created By : National TAB

Assigned To : National TAB - Michael McDonnell

Status : Open

Originated Date : 07/14/2022 - Michael McDonnell - National TAB

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	DINING	6300	6092	4625	4392	1675	1700	26.6%	27.9%						
RTU-2	KITCHEN	6150	5909	4450	4165	1700	1744	27.6%	29.5%						
PRV-1	RESTRROOM													300	304
PRV-2	HD1 GRIDDLE											1500	1458		
PRV-3	HD2 FRYERS											1500	1531		
EF-1A	MOP ROOM													75	76
TOTALS		12450	12001	9075	8557	3375	3444			0	0	3000	2989	375	380

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	3375	3444
TOTAL EXHAUST	3375	3369
NET AIRFLOW	0	75

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H2O)
FRONT	0.003
SIDE	0.004
REAR	0.004
AVERAGE	0.0037

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:

[1] Building designed neutral. Set OA for both RTUs above design to push building slightly positive.



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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



FuseIT6f4e8f95517f472...

RTU-1



FuseIT11e1775e878f42f...

RTU-2



IMG_6542.jpg

PRV-1



FuseITc8713b21ae1f427...

PRV-2



FuseIT2901fe28cc1948b...

PRV-3



FuseIT028745279b29434...

EF-1A



FuseIT794e80aeb5db441...

HOOD 1



FuseIT176fcb91970e4b7...

HOOD 2



FuseITe8f73fc1685a42a...

PRODIGY BOARD WIRING

Captive Aire DOAS

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

Perforated diffusers are installed on the cook line? (4-ways will disrupt hood capture) Yes



Screenshot_2022_07_14...

All hood filters installed and accounted for? Yes

Hoods are wired and have power? Yes

Thermostats have power? Yes

Have trades/general contractor been notified about any issues and are they created on FaciliBuild? Yes

On the cookline diffusers neck is there 18" (12" minimum) straight rigid duct run attached? Yes



Screenshot_2022_07_14...

Notes/Comments :



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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
Thermostat wire run from OCP on the RTU to the Ec terminal at the thermostat? If no, jumper can be installed from R to OCP temporarily. (The economizers will not open without OCP being energized.)	Captive Aire DOAS units installed.
Motors are all operating below the FLA rating?	Yes
Are belts tight?	NA, all direct drive units.
If direct drive unit is the speed controller working.	Yes
Is gas piping installed and valves turned on?	No, building does not yet have gas.



FuseIT5af68fabled6f4d2...

Unit free of noticeable noise and vibration

RTU-2 (Kitchen) has slight vibration above 40 HZ. Set to 57 HZ. CAS is aware of this issue.

EF's

Rotation is correct?

Yes

Belts are tight?

NA, fans are direct drive

Grease cup installed on hood fan?

Yes

Hinge kit installed installed on hood fan?

Yes

Lean grease rated fans 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



FuseITe0507750871540e...

Unit free of noticeable noise and vibration? Yes

The hood exhaust fans are installed in correct positions and are not switched? Yes

HOODS

Kitchen equipment installed in proper places? Yes

Can kitchen equipment be turned on for final smoke test? No, building does not yet have gas.

Second stage Grease Grabber filters are installed on the griddle hood? No, Captive Aire hoods.

DOCUMENTATION

Have trades/general contractor been notified about any issues and are they created on FaciliBuild? Yes

Notes/Comments :



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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?	Some minor noise in dining by returns due to DOAS unit. Should be cancelled out by store music and activity once operational.
If deviations from design were necessary to resolve 1-3 what were they? Otherwise put "NA".	NA

Notes/Comments :



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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	45 sec smoke emitter
Smoke test capture - Perimeter of hood	100%
Smoke test capture - Top of cooking surface	100%

WITNESS

Date test was completed	07/13/2022
TAB tech name / Firm	Michael McDonnell / National Tab
Site super name / Firm	Spencer Schultz / McCon Building Group
Owner representative name / Firm (if Applicable)	NA
Building pressure at front & back doors (All Systems On)	0.003"

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
Thermostats are programmed?	Yes

PRODIGY SETTINGS FOR RTU'S

Parameter 65 set to 0	[1]
-----------------------	-----

Parameter 78 set to 0	[1]
Parameter 105 set to 6	[1]
Parameter 156 set to 70 (Dining unit only)	[1]
Parameter 156 set to 65 (Kitchen Unit Only)	[1]
Parameter 170 set to 75 (Dining Unit Only)	[1]
Parameter 170 set to 70 (Kitchen Unit Only)	[1]
Parameter 131 set to the same % as OA minimum position?	[1]
Parameter 117 set to the same % as OA minimum position?	[1]

Notes/Comments :

[1] Captive Aire DOAS units installed.

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Project: 07-11 CULVERS - ANGOLA, IN

System/Unit: AHU/RTU



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Asset: RTU1

AREA: DINING

Unit Data		
	Design	Actual
MFG	LENNOX	CAPTIVE AIRE
Serial Num	-	5218690
Model Num	LGH240H4B	CASRTU3-I.400-24-20T-DOAS
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	4
OA Filter Size 1	-	16X20
Num Final Filter 1	-	8
Final Filter Size 1	-	20X25X2
Num Final Filter 2	-	NA
Final Filter Size 2	-	NA

Test Data		
	Design	Actual
SF CFM	6300	6092
SF RPM	-	1814
RA CFM	4625	4392
OA CFM	1675	1700
RL Voltage	-	211
RL Amperage	-	24.1
SF Rotation	-	CCW
RA Damper Position	-	NA
Min OA Damper Position	-	4.3V
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	NA
Brake Horse Power	-	9.92

Motor Data		
	Design	Actual
Motor MFG	-	WESTINGHOUSE
Frame	-	215T
Horsepower	-	10.0
Motor Rpm	-	1755
Phase	3	3
Rated Voltage	208/230	230
Rated Amperage	-	24.3

Performance Data		
	Design	Actual
MA Plenum SP	-	-1.44"
Fan Suction SP	-	-3.20"
Fan Discharge SP	-	0.61"
Total ESP	-	2.05"
Fan Total SP	-	3.81"

Drive Data		
	Design	Actual
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	62.0 HZ
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD
Belt Alignment	-	DD

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

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Notes:

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Project:07-11 CULVERS - ANGOLA, IN

AHU/RTU



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Diffuser Supply (GRD)

RTU1/DINING

Asset							
Asset Name	Location	Type	DESIGN CFM	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	ENTRY	SD1	150	145	146	146	97.3
SGRD2	MENS RR	SD4	150	145	145	145	96.7
SGRD3	WOMENS RR	SD4	150	130	139	139	92.7
SGRD4	HALL	SD1	150	184	151	151	100.7
SGRD5	CUSTOMER ORDERING	SD1	450	385	422	422	93.8
SGRD6	DINING	SD1	150	175	148	148	98.7
SGRD7	DINING	SD1	150	166	146	146	97.3
SGRD8	DINING	SD1	150	118	149	149	99.3
SGRD9	DINING	SD1	150	123	159	159	106.0
SGRD10	DINING	SD1	150	136	153	153	102.0
SGRD11	DINING	SD1	150	178	145	145	96.7
SGRD12	DINING	SD1	150	164	150	150	100.0
SGRD13	DINING	SD1	150	150	145	145	96.7
SGRD14	DINING	SD1	150	170	154	154	102.7
SGRD15	DINING	SD1	150	145	146	146	97.3
SGRD16	DINING	SD1	150	199	153	153	102.0
SGRD17	DINING	SD1	150	188	146	146	97.3
SGRD18	DINING	SD1	150	173	141	141	94.0
SGRD19	DINING	SD1	150	158	136	136	90.7
SGRD20	DINING	SD1	150	75	152	152	101.3
SGRD21	DRINKS & CONDIMENT S	SD1	300	341	298	298	99.3
SGRD22	ENTRY	SD1	150	188	140	140	93.3
SGRD23	CUSTOMER ORDER AREA	SD1	450	397	428	428	95.1
SGRD24	CUSTOMER SERVICE	SD1	350	294	328	328	93.7
SGRD25	CUSTOMER SERVICE	SD1	350	293	330	330	94.3
SGRD26	CUSTOMER SERVICE	SD1	350	292	326	326	93.1
SGRD27	CUSTOMER SERVICE	SD1	350	291	320	320	91.4
SGRD28	DRIVE THRU	SD1	500	562	495	495	99.0
SGRD29	OFFICE	SD1	200	225	201	201	100.5

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Project: 07-11 CULVERS - ANGOLA, IN

System/Unit: AHU/RTU



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Asset: RTU2

AREA: KITCHEN

Unit Data		
	Design	Actual
MFG	LENNOX	CAPTIVE AIRE
Serial Num	-	5218690
Model Num	LGH210H4B	CASRTU3-I.400-24-20T-DOAS
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	4
OA Filter Size 1	-	16X20
Num Final Filter 1	-	8
Final Filter Size 1	-	20X25X2
Num Final Filter 2	-	NA
Final Filter Size 2	-	NA

Test Data		
	Design	Actual
SF CFM	6150	5909
SF RPM	-	1667
RA CFM	4450	4165
OA CFM	1700	1744
RL Voltage	-	187
RL Amperage	-	23.7
SF Rotation	-	CCW
RA Damper Position	-	NA
Min OA Damper Position	-	4.4V
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	NA
Brake Horse Power	-	9.75

Motor Data		
	Design	Actual
Motor MFG	-	WESTINGHOUSE
Frame	-	215T
Horsepower	-	10.0
Motor Rpm	-	1755
Phase	3	3
Rated Voltage	208/230	230
Rated Amperage	-	24.3

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.805"
Fan Suction SP	-	-2.39"
Fan Discharge SP	-	0.63"
Total ESP	-	1.435"
Fan Total SP	-	3.02"

Drive Data		
	Design	Actual
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	57.0 HZ
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD
Belt Alignment	-	DD

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

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Notes:

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Project:07-11 CULVERS - ANGOLA, IN

AHU/RTU



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Diffuser Supply (GRD)

RTU2/KITCHEN

Asset							
Asset Name	Location	Type	DESIGN CFM	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	SUNDAE SERVICE	SD1	600	305	461	548	91.3
SGRD2	SUNDAE SERVICE	SD1	600	298	461	561	93.5
SGRD3	COOKLINE	SD5	200	235	278	200	100.0
SGRD4	COOKLINE	S5D	375	290	333	374	99.7
SGRD5	FOOD PREP	SD5	400	437	522	395	98.8
SGRD6	FOOD PREP	SD5	400	390	442	392	98.0
SGRD7	COOKLINE	SD5	250	351	421	246	98.4
SGRD8	COOKLINE	SD5	275	273	343	273	99.3
SGRD9	TOILET	SD1	75	184	209	73	97.3
SGRD10	ALCOVE	SD5	125	189	238	120	96.0
SGRD11	DISHWASHING	SD5	350	506	609	346	98.9
SGRD12	DISHWASHING	SD5	350	336	382	330	94.3
SGRD13	FOOD PREP	SD5	350	225	284	346	98.9
SGRD14	UTILITY ROOM	SD1	600	304	365	558	93.0
SGRD15	DRY GOODS	SD1	600	295	353	546	91.0
SGRD16	DRY GOODS	SD1	600	381	422	601	100.2

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Project: 07-11 CULVERS - ANGOLA, IN
System/Unit: FAN - Exhaust



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Asset: EF-A1

AREA:MOP ROOM

Unit Data		
	Design	Actual
MFG	ACCUREX	CAPTIVE AIRE
Model Num	XCR-B80	CFA 100CA
Serial Num	-	5218690
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	BROAN
Frame	-	NL
Horsepower	-	0.116
Motor Rpm	900	NL
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	1.1
Service Factor	-	NL

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

Test Data		
	Design	Actual
CFM	75	76
Fan RPM	885	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
RL Voltage	-	119
RL Amperage	-	0.34
Suction ESP	-	ATM
Discharge ESP	-	0.09"
Total ESP	0.125"	0.09"

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Project: 07-11 CULVERS - ANGOLA, IN
System/Unit: FAN - Exhaust



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Asset: PRV1

AREA: RESTROOMS

Unit Data		
	Design	Actual
MFG	ACCUREX	CAPTIVE AIRE
Model Num	XRED-095-D	DR12HFA
Serial Num	-	5218690
Type	DOWNBLAST	DOWNBLAST
Configuration	HORIZONTAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	0.0667	0.25
Motor Rpm	1550	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	2.9
Service Factor	-	NL

Test Data		
	Design	Actual
CFM	300	304
Fan RPM	1479	991
Fan Rotation	-	CCW
Motor RPM	-	991
System SetPt	-	54%
RL Voltage	-	119
RL Amperage	-	0.5
Total ESP	0.5"	0.21"
Fan Inlet SP	-	-0.21"
Fan Discharge SP	-	ATM

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Project:07-11 CULVERS - ANGOLA, IN

FAN - Exhaust



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Diffuser Ret/Exh (GRD)

PRV1/RESTROOMS

Asset							
Asset Name	Location	Type	DESIGN CFM	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	WOMENS RR	EG1	75	82	64	70	93.3
EGRD2	MENS RR	EG1	75	115	81	78	104.0
EGRD3	TOILET	EF1	150	228	163	156	104.0

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Project: 07-11 CULVERS - ANGOLA, IN

System/Unit: FAN - Exhaust



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Asset: PRV2

AREA:HD1 GRIDDLE

Unit Data		
	Design	Actual
MFG	ACCUREX	CAPTIVE AIRE
Model Num	XRUB-160XP-15	DU85HFA
Serial Num	-	5218690
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	HSSA
Frame	-	NL
Horsepower	1.5	0.75
Motor Rpm	1725	1725
Phase	3	3
Voltage (rated)	208	208-230
Amperage (rated)	-	2.6-2.5
Service Factor	-	1.15

Drive Data		
	Design	Actual
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	38.9 HZ
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD

Test Data		
	Design	Actual
CFM	1500	1458
Fan RPM	2411	1147
Fan Rotation	-	CCW
Motor RPM	-	1147
RL Voltage	-	209/210/210
RL Amperage	-	1.9/1.9/1.9
Suction ESP	-	-0.83"
Discharge ESP	-	ATM
Total ESP	2.337"	0.83"

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Project: 07-11 CULVERS - ANGOLA, IN

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: PRV3

AREA:HD2 FRYERS

Unit Data		
	Design	Actual
MFG	ACCUREX	CAPTIVE AIRE
Model Num	XRUB-140-7	DU85HFA
Serial Num	-	5218690
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	HSSA
Frame	-	NL
Horsepower	0.75	0.75
Motor Rpm	1725	1725
Phase	3	3
Voltage (rated)	208	208-230
Amperage (rated)	-	2.6-2.5
Service Factor	-	1.15

Drive Data		
	Design	Actual
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	39.9 HZ
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD

Test Data		
	Design	Actual
CFM	1500	1531
Fan RPM	1377	1118
Fan Rotation	-	CCW
Motor RPM	-	1118
RL Voltage	-	210/210/209
RL Amperage	-	2.0/1.9/2.0
Suction ESP	-	-0.71"
Discharge ESP	-	ATM
Total ESP	1.0"	0.71"

Completed By: Michael McDonnell

Notes:

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Project: 07-11 CULVERS - ANGOLA, IN

System/Unit: Kitchen Hood Type I



Comfort. Under control.

Asset: HD1

AREA:GRIDDLE

Unit Data		
	Design	Actual
MFG	ACCUREX	CAPTIVE AIRE
Model Num	XGEP-64-S	3347 BD-2
Job / Serial Num	-	5218690
Type	TYPE I LOW PROXIMITY	TYPE I LOW PROFILE
Hood length	64"	66"
Hood Width	23"	33"

Performance Data		
	Design	Actual
Smoke Generation Type	-	45 SEC SMOKE EMITTER
Hood Capture %	-	100%
End Panels Installed (Y/N)	-	YES

Test Data Exhaust		
	Design	Actual
Filter Type	GREASE GRABBER	CAPTRATE SOLO
Filter Size 1	16X16	16X16
Filter Qty 1	4	4
Filter AK factor size 1	1.53	1.62
Filter Total AK Area	6.12	6.48
Filter1 FPM	-	219
Filter2 FPM	-	226
Filter3 FPM	-	235
Filter4 FPM	-	218
Filter Ave FPM(corr)	-	225
CFM	-	1458

General		
	Design	Actual
Third Party Witness	-	VIDEO TAPED
Third Party Company	-	MCCON CONSTRUCTION
Tech Witness	-	MICHAEL MCDONNELL

Cooking Equipment		
	Design	Actual
Item 1	-	GRIDDLE

Completed By: Michael McDonnell

Notes:

National TAB

Project: 07-11 CULVERS - ANGOLA, IN

System/Unit: Kitchen Hood Type I



Comfort. Under control.

Asset: HD2

AREA:FRYERS

Unit Data		
	Design	Actual
MFG	ACCUREX	CAPTIVE AIRE
Model Num	XXEP-83-S	3347 BD-2
Job / Serial Num	-	5218690
Type	TYPE I LOW PROXIMITY	TYPE I LOW PROFILE
Hood length	83"	84"
Hood Width	23"	33"

Test Data Exhaust		
	Design	Actual
Filter Type	X-TRACTOR	CAPTRATE SOLO
Filter Size 1	16X16	16X16
Filter Qty 1	5	5
Filter AK factor size 1	1.53	1.62
Filter Total AK Area	7.65	8.1
Filter1 FPM	-	189
Filter2 FPM	-	198
Filter3 FPM	-	194
Filter4 FPM	-	194
Filter5 FPM	-	170
Filter Ave FPM(corr)	-	189
CFM	-	1531

Cooking Equipment		
	Design	Actual
Item 1	-	FRYER

Completed By: Michael McDonnell

Notes:

Performance Data		
	Design	Actual
Smoke Generation Type	-	45 SEC SMOKE EMITTER
Hood Capture %	-	100%
End Panels Installed (Y/N)	-	YES

General		
	Design	Actual
Third Party Witness	-	VIDEO TAPED
Third Party Company	-	MCCON CONSTRUCTION
Tech Witness	-	MICHAEL MCDONNELL

