Report By:

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

NATIONAL TAB

Comfort. Under control.

Report: FINAL TAB REPORT
Function: Test, Adjust, & Balance
Date: 7/20/2022

PROJECT

06-13 BLUE SUSHI - NASHVILLE, TN

NEED ADDRESS

NASHVILLE, TN

Client

National Engineering
784 Morrison Rd

Columbus, OH 43230

National TAB

Project: 06-13 BLUE SUSHI - NASHVILLE, TN

Table Of Contents

Comfort. Under control.

06-13 BLUE SUSHI - NASHVILLE, TN

Project Issue Information

Issue Name : Building pressure is negative.

Description : Building pressure was measured as -0.03" wc at the front door of Blue Sushi. The pressure will likely be more negative once the cleanout door is installed and air is exhausted out of the building.

Created By : National TAB **Assigned To :** National TAB - Will Turnbough

Status : Open

Originated Date : 06/05/2022 - Will Turnbough - National TAB

Comfort. Under control.

06-13 BLUE SUSHI - NASHVILLE, TN

Project Issue Information

Issue Name : Cooling complaints in the space

Description : Portable air conditioners are set up in the dining room and the exposed ductwork was sweating.

Created By : National TAB **Assigned To :** National TAB - Will Turnbough

Status : Open

Originated Date : 06/05/2022 - Will Turnbough - National TAB

Comfort. Under control.

06-13 BLUE SUSHI - NASHVILLE, TN

Project Issue Information

Issue Name : Diffuser 2-6 Flex duct smashed

Description : The flex duct connected to diffuser 1-6 serving back of house area. Flex is smashed between the PCU drip pan. Diffuser is 100 CFM out of 200 CFM as a result. Not anticipated to cause any major issues.

Created By : National TAB **Assigned To :** National TAB - Will Turnbough

Status : Pending

Originated Date : 06/05/2022 - Tyler Youells - National TAB

Project Issue File Details

Screenshot_2022_06_05_151148.png

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06-13 BLUE SUSHI - NASHVILLE, TN

Project Issue Information

Issue Name : Missing and loose cleanout door

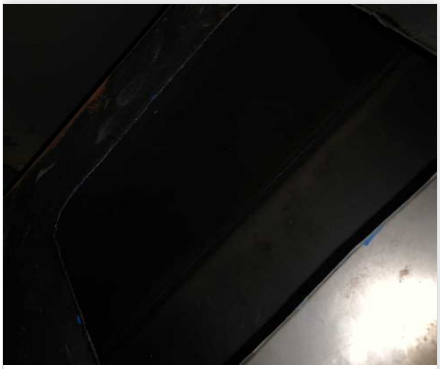
Description : There is one missing cleanout door located in the discharge duct run of the pcu. There is also a loose cleanout door see pictures for locations

Created By : National TAB **Assigned To :** National TAB - Will Turnbough

Status : Open

Originated Date : 06/05/2022 - Tyler Youells - National TAB

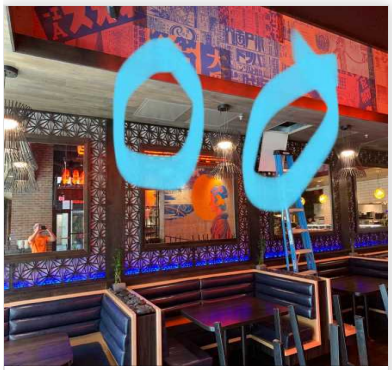
Project Issue File Details



MicrosoftTeams_image_5_.png

Project Issue Response Details

- **06/05/2022 National TAB - Will Turnbough**
  - Loose cleanout door and access panel locations to access both doors.



MicrosoftTeams_image_6_.png

loose_cleanout_door.png

Comfort. Under control.

06-13 BLUE SUSHI - NASHVILLE, TN

Project Issue Information

Issue Name : PCU Turning off

Description : -

Created By : National TAB **Assigned To :** National TAB - Tyler Youells

Status : Open

Originated Date : 06/05/2022 - Will Turnbough - National TAB

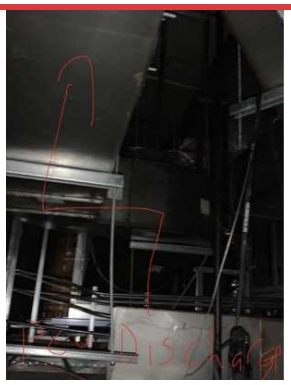
FOUND LOOSE GREASE DOOR WAS NOT FIXED

NTAB corrected this

FAN BELT HAS COME OFF

DIFFUSER FLEX STILL CRUSHED UNDER THE PCU

ADDED TURNS TO THE GREASE DUCT



GREASE DUCT WAS DESIGNED TO HAVE 2 45 DEGREE ELBOWS

PCU- INNER FAN SHEAVE HAS COME LOOSE

NTAB tried to remove the key to put the sheave back on but the key was stuck in. Recommend replacing the Motor sheave

PCU HAS TWO SETS OF CARBON FILTERS

FIRST BANK OF CARBON FILTER CLEANLINESS

AHU-3

Unit has a lot of supply leakage coming from the heater section. Access the the OA damper and water valve is not possible do to counter being underneath the access doors

AHU-4 LEAKAGE AT THE DISHARGE DUCT

AHU4 LEAKAGE IS AT THE CANVAS CONNECTOR SEAM

AHU-4 RETURN DUCT DOES NOT CONNECT SQUARELY TO THE RETURN PLENUM

This installation is reducing free flow area of the duct and could cause lower flow when unit is pulling full return

AHU-4 FILTERS ARE DIRTY

AHU-2 FILTERS ARE EXTREMELY DIRTY

TYPICAL AHU OA AND RETURN DAMPER

If there is a mechanical stopper on the damper it is not accessible due to being butted up against the outside of the unit

AHU-1 OA DAMPER STOPPED BY SELF TAPPING SCREWS

AHU-1 FILTERS

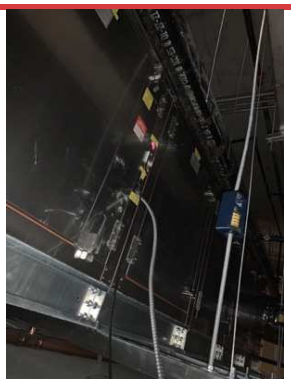
AHU-1

AHU-2

AHU-4

EF-1

EF-2



PCU

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06-13 BLUE SUSHI - NASHVILLE, TN

CheckList Information

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

CheckList Item Details

INITIAL BUILDING REVIEW:	
What is the initial building pressure before making any changes?	Initial trip pressures were -0.03", on return trip after grease doors installed pressure decreased to -0.06" avg.
Are thermostats programmed?	Controlled by BAS
Are building pressure relief working properly?	When building is occupied OA dampers open to mechanically set position. The mechanically set position is a couple self tapping screws set into the sheet-metal to stop the damper from further opening.
INITIAL AIRFLOWS:	
SUPPLY RTU-1	2220cfm
OA RTU-1	OA as follows: Total OA flow measured to building when in unocc mode (ahu Economizers closed) and MUA on: Total oa flow was 1550cfm. When building was OCC, Economizers to min position OA flow in 24" duct was 1240cfm. This indicates MAU is stealing air from AHU's when in OCC mode and causing the excess negative building pressure. ALSO WITH ALL SYSTEMS ON/OCC, OA DUCT FEEDING AHU1 AND AHU2 WAS TRAVERSED FOR 538CFM BETWEEN THE TWO UNITS.
SUPPLY RTU-2	2136cfm
OA RTU-2	see OA notes
SUPPLY RTU-3	545cfm/2400cfm
OA RTU-3	see OA notes
EF-1	Dish exhaust: 1090cfm
EF-2	rr ex: 265cfm

EF-3	PCU flow: 1581cfm
EF-4	n/a
MAU-1	1674 cfm

Notes/Comments :

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06-13 BLUE SUSHI - NASHVILLE, TN

CheckList Information

Name :	TECH - STEP 2: 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, and are freshly cleaned
Hoods are wired and have power?	Yes
Hood is free of alarms?	Yes
Thermostats have power?	Building is controlled by BAS
Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	N/a. discussed all issues while onsite with Rich

Notes/Comments :

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06-13 BLUE SUSHI - NASHVILLE, TN

CheckList Information

Name :	TECH - STEP 3: 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?	AHU ECONOMIZER BLADES USE SELF TAPPING SCREWS AS THE MECHANICAL STOPS. THIS IS NOT IDEAL.
DCV Max damper opening position is set to minimum?	N/A
Free cooling enthalpy set point set for lowest setting (Typically "D")	N/A
Motors are all operating below the FLA rating?	ALL MOTORS ARE AT FLA
Are belts tight?	N/A
If direct drive unit is the speed controller working.	YES, AHUs ARE EQUIPPED WITH A FAN SPEED CONTROLLER
Is gas piping installed and valves turned on?	N/A UNITS ARE ELECTRIC HEAT
Unit free of noticeable noise and vibration	YES
EF's	
Rotation is correct?	YES
Belts are tight?	PCU HAS A BELT THROWN OFF, FOUND INNER MOTOR SHEAVE CAME LOOSE
Grease cup installed on hood fan?	N/A
Hinge kit installed installed on hood fan?	N/A

Lean fan back. Is grease duct installation adequate and is duct ran all the way to the base of the fan?	N/A
Flex conduit is long enough so that fan can be completely tilted back?	N/A
There is no major leakage around base of fan?	NO LEAKS FOUND AROUND THE PCU
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?	N/A
Unit free of noticeable noise and vibration?	YES
MUA	
Rotation is correct?	YES
Gas piping is installed and valves are in on position?	N/A
Heater tested and is functional?	N/A
Internal motorized damper is fully opening?	YES
Motor is operating below the FLA rating?	YES
Unit free of noticeable noise and vibration?	YES
HOODS	
Kitchen equipment installed in proper places?	YES
Can kitchen equipment be turned on for final smoke test?	YES
DOCUMENTATION	
Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	YES

Notes/Comments :

Comfort. Under control.

06-13 BLUE SUSHI - NASHVILLE, TN

CheckList Information

Name :	TECH - STEP 4: 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?	AHU-1 upstairs section is higher on flow and the office and storage area is cooler than rest of spaces. Noted with rich issues for AHU-3 and extremely low supply flow to the space.
Is the space free of ventilation noise?	Yes
If deviations from design were necessary to resolve 1-3 what were they? Otherwise put "NA".	n/a

Notes/Comments :

National TAB

Project: 06-13 BLUE SUSHI - NASHVILLE, TN

System/Unit: AHU/RTU

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Asset: DH1 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	INDEECO	TRANE
Serial Num	-	H21H87298
Model Num	OPEN COIL	BCHD072E1M0A1F04Z
Type	AHU	AHU
Configuration	VERTICAL	HORIZONTAL
Num Final Filter 1	-	2
Final Filter Size 1	-	20X20X1

Motor Data		
	Design	**Actual**
Motor MFG	-	NA
Frame	-	NA
Horsepower	-	1
Motor Rpm	-	1500
Phase	3	1
Rated Voltage	460	208
Rated Amperage	-	4.6

Drive Data		
	Design	**Actual**

Electrical		
	Design	**Actual**

Test Data		
	Design	**Actual**
SF CFM	2400	2288
SF RPM	-	1036
RA CFM	1800	1
OA CFM	600	1
RL Voltage	-	211.2
RL Amperage	-	4.2
SF Rotation	-	CORRECT
RA Damper Position	-	MECHANICAL LINKAGE
Min OA Damper Position	-	APROX. 1"
Min OA Damper Type	-	LINKED RETURN OA DAMPER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.55"
Fan Suction SP	-	-1.13"
Fan Discharge SP	-	0.41"
Total ESP	-	0.96"
OA Temp (db/wb)	-	84.2/74.2
RA Temp (db/wb)	-	74/64
SA Temp (db/wb)	-	58.9/54.4

General		
	Design	**Actual**
Fan Rotation Correct	-	YES
Unit Filters Clean	-	NO

Completed By: Tyler Youells

Notes:PRIOR TO FAN INCREASE: (1006RPM-1037RPM) TRAVERSE OF RETURN DUCT: 14X16 AVG 1108FPM 1723CFM 1168CFM FOR THREE DIFFUSERS IN DINING 185CFM FOR DIFFUSER BY ICE MACHINE 867CFM FOR UPSTAIRS MA TEMP:74.2DB/63.8WB EW: 43F LW:54F OA DUCT TRAVERSE SERVING AHU-1/2: 346 FPM AVG 14X16" DUCT

Asset	Notes

National TAB

Project: 06-13 BLUE SUSHI - NASHVILLE, TN

System/Unit: AHU/RTU

Comfort. Under control.

Asset: DH2 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	INDEECO	TRANE
Serial Num	-	H21H87299
Model Num	OPEN COIL	BCHDO72E1M0A1F04Z
Type	AHU	AHU
Configuration	VERTICAL	HORIZONTAL
Num Final Filter 1	-	2
Final Filter Size 1	-	20X20X1

Motor Data		
	Design	**Actual**
Motor MFG	-	NA
Frame	-	NA
Horsepower	-	1
Motor Rpm	-	1500
Phase	3	1
Rated Voltage	460	208
Rated Amperage	-	4.6

Drive Data		
	Design	**Actual**

Electrical		
	Design	**Actual**

Test Data		
	Design	**Actual**
SF CFM	2400	2176
SF RPM	-	1026
RA CFM	1800	1
OA CFM	600	1
RL Voltage	-	212.4
RL Amperage	-	4.19
SF Rotation	-	CORRECT
RA Damper Position	-	MECHANICAL LINKAGE
Min OA Damper Position	-	APROX. 1"
Min OA Damper Type	-	MOTORIZED DAMPER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.45"
Fan Suction SP	-	-1.26"
Fan Discharge SP	-	0.33"
Total ESP	-	0.78"
OA Temp (db/wb)	-	84.2/74.2
RA Temp (db/wb)	-	73.9/64.2
SA Temp (db/wb)	-	60.3/55.6

General		
	Design	**Actual**
Fan Rotation Correct	-	YES
Unit Filters Clean	-	NO

Completed By: Tyler Youells

Notes:[1] FAN SPEED WAS INCREASED TO 1026 RPM FROM 1006RPM TRAVERSE OF OA DUCT FEEDING AHU-1/2 : 346 FPM AVG 14X16" DUCT MA TEMP: 76.9DB/65.9WB EW:43F LW:54F

National TAB

Project:06-13 BLUE SUSHI - NASHVILLE, TN

AHU/RTU

Comfort. Under control.

Diffuser Supply (GRD)

DH2/KITCHEN

Asset							
SGRD1	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**
	FOOD PREP	CD3	8"	200	1	180	
	FINAL CFM	**% to design**					
	184	92.0					
SGRD2	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**
	FOOD PREP	CD3	8"	200	1	216	
	FINAL CFM	**% to design**					
	220	110.0					
SGRD3	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**
	FOOD PREP	CD3	8"	200	1	217	
	FINAL CFM	**% to design**					
	221	110.5					
SGRD4	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**
	COOKLINE	CD1	8"	200	1	256	
	FINAL CFM	**% to design**					
	261	130.5					
SGRD5	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**
	COOKLINE	CD1	8"	200	1	317	
	FINAL CFM	**% to design**					
	323	161.5					
SGRD6	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**
	FOOD PREP	CD1	8"	200	1	100	
	FINAL CFM	**% to design**					
	102	51.0					
SGRD7	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**
	HOOD1	ACPSP	8"	791	4.75	850	
	FINAL CFM	**% to design**					
	867	109.6					
SGRD8	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**
	MEZZANINE	SR3	18/10				
	FINAL CFM	**% to design**					
		-					
SGRD9	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**
	MEZZANINE	SR3	12/6				
	FINAL CFM	**% to design**					
		-					

Completed By:Brianna Biggs on

Asset	Notes

National TAB

Project: 06-13 BLUE SUSHI - NASHVILLE, TN

System/Unit: AHU/RTU

Comfort. Under control.

Asset: DH3 AREA:DINING

Unit Data		
	Design	**Actual**
MFG	INDEECO	TRANE
Serial Num	-	H21H87300
Model Num	OPEN COIL	BCHD072E1M0A1F042
Type	AHU	AHU
Configuration	VERTICAL	HORIZONTAL
Num Final Filter 1	-	2
Final Filter Size 1	-	20X20X1

Motor Data		
	Design	**Actual**
Motor MFG	-	NA
Frame	-	NA
Horsepower	-	1
Motor Rpm	-	1500
Phase	3	1
Rated Voltage	460	208
Rated Amperage	-	4.6

Drive Data		
	Design	**Actual**

Electrical		
	Design	**Actual**

Test Data		
	Design	**Actual**
SF CFM	2400	545
SF RPM	-	NA
RA CFM	1800	1805
OA CFM	600	-
RL Voltage	-	NA
RL Amperage	-	NA
SF Rotation	-	NA
RA Damper Position	-	MECHANICAL LINKAGE
Min OA Damper Position	-	NOT ACCESSIBLE
Min OA Damper Type	-	MOTORIZED DAMPER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	NA
Fan Suction SP	-	NA
Fan Discharge SP	-	NA
Total ESP	-	NA
OA Temp (db/wb)	-	NA
RA Temp (db/wb)	-	NA
SA Temp (db/wb)	-	NA

General		
	Design	**Actual**
Fan Rotation Correct	-	NA
Unit Filters Clean	-	NA

Completed By: Tyler Youells

Notes:[1] TRAVERSED SUPPLY: 18" FPM AVG: 544CFM [2] READ RETURN GRILLE WITH VELGRID: 3.4FT^T FPM:530AVG CFM:1805CFM UNIT IS NOT ACCESSIBLE TO COLLECT FURTHER DATA

Asset	Notes

National TAB

Project: 06-13 BLUE SUSHI - NASHVILLE, TN

System/Unit: AHU/RTU

Comfort. Under control.

Asset: DH4 AREA:DINING

Unit Data		
	Design	**Actual**
MFG	INDEECO	TRANE
Serial Num	-	H21H87301
Model Num	OPEN COIL	BCHD072E1MOA1F04Z
Type	AHU	AHU
Configuration	VERTICAL	HORIZONTAL
Num Final Filter 1	-	2
Final Filter Size 1	-	20X20X1

Motor Data		
	Design	**Actual**
Motor MFG	-	NA
Frame	-	NA
Horsepower	-	1
Motor Rpm	-	1500
Phase	3	1
Rated Voltage	460	208
Rated Amperage	-	4.6

Drive Data		
	Design	**Actual**

Electrical		
	Design	**Actual**

Test Data		
	Design	**Actual**
SF CFM	2400	2315
SF RPM	-	1033
RA CFM	1800	-
OA CFM	600	-
RL Voltage	-	212.4
RL Amperage	-	4.2
SF Rotation	-	CORRECT
RA Damper Position	-	MECHANICAL LINKAGE
Min OA Damper Position	-	APROX 1"
Min OA Damper Type	-	MOTORIZED DAMPER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.28"
Fan Suction SP	-	-1.08"
Fan Discharge SP	-	0.42"
Total ESP	-	0.70"
OA Temp (db/wb)	-	-94.6/55.2
RA Temp (db/wb)	-	75.1/46.4
SA Temp (db/wb)	-	60.3/57.3

General		
	Design	**Actual**
Fan Rotation Correct	-	YES
Unit Filters Clean	-	NO

Completed By: Tyler Youells

Notes:PRIOR TO FAN INCREASE: (1006RPM-1036RPM) 2040 CFM IN DINING. 216CFM COMBINED IN RESTROOM MA TEMP: 80.3DB/70.1WB EW:44F LW:54DEG

Asset	Notes

National TAB

Project: 06-13 BLUE SUSHI - NASHVILLE, TN

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: EF1 AREA:HOOD 2 DISH

Unit Data		
	Design	**Actual**
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Model Num	SIF13DD	SIF13DD
Serial Num	-	5100510
Type	DOWNBLAST	INLINE
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	**Actual**
Motor MFG	-	INTERTEK
Frame	-	NL
Horsepower	0.5	0.75
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	120	120
Amperage (rated)	-	8.9
Service Factor	-	1

Test Data		
	Design	**Actual**
CFM	1200	1090
Fan RPM	-	1800
Fan Rotation	-	CCW
Motor RPM	-	1800
System SetPt	-	100%
RL Voltage	-	118
RL Amperage	-	9.0
Total ESP	0.50"	NA
Fan Inlet SP	-	NA
Fan Discharge SP	-	NA

Completed By: Tyler Youells

Notes:

Asset	Notes

National TAB

Project: 06-13 BLUE SUSHI - NASHVILLE, TN

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: EF2 AREA:RESTROOMS

Unit Data		
	Design	**Actual**
MFG	CAPTIVE-AIRE	GREENHECK
Model Num	SIF11DD	SQ-93-VG-4-X
Serial Num	-	19052875
Type	DOWNBLAST	INLINE
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	**Actual**
Motor MFG	-	GREENHECK
Frame	-	NL
Horsepower	0.33	0.125
Motor Rpm	-	1550
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	2.6
Service Factor	-	1

Test Data		
	Design	**Actual**
CFM	300	265
Fan RPM	-	NA
Fan Rotation	-	CCW
Motor RPM	-	NA
System SetPt	-	6-7
RL Voltage	-	116.1
RL Amperage	-	1.34
Total ESP	0.80"	0.51"
Fan Inlet SP	-	-0.30"
Fan Discharge SP	-	0.21"

Completed By: Tyler Youells

Notes:

Asset	Notes

National TAB

Project: 06-13 BLUE SUSHI - NASHVILLE, TN

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: PCU1 AREA:HOOD 1

Unit Data		
	Design	**Actual**
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Model Num	KB18-INLINE	KB18-INLINE
Serial Num	-	5100510
Type	UPBLAST	INLINE
Configuration	INLINE	HORIZONTAL

Motor Data		
	Design	**Actual**
Motor MFG	-	MARATHON
Frame	-	184TC
Horsepower	5	5
Motor Rpm	-	3500
Phase	3	3
Voltage (rated)	480	208
Amperage (rated)	-	13.6
Service Factor	-	1.15

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	2VP60
Motor Bore Size	-	1.125"
Motor Sheave SetPt	-	APROX 2 OUT
Fan Sheave Size	-	2BK110H
Fan Sheave Bore	-	1.5"
Belt CL Distance	-	29.5"
Num of Belts	-	2
Belt Size	-	BX76

Test Data		
	Design	**Actual**
CFM	2600	1581
Fan RPM	-	1813
Fan Rotation	-	CORRECT
Motor RPM	-	3675
RL Voltage	-	201/203/201
RL Amperage	-	10.6 AVG

Completed By: Tyler Youells

Notes:ONE BELT HAS COME OFF DUE TO LOOSE INNER MOTOR SHEAVE. PCU NOT TO DESIGN FLOW DUE TO RESTRICTION IN GREASE DUCT NEAR THE LOUVER

Asset	Notes

National TAB

Project: 06-13 BLUE SUSHI - NASHVILLE, TN

System/Unit: Kitchen Hood Type I

Comfort. Under control.

Asset: HD1 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Model Num	5430 ND-2-ACPSP-F	5430 ND-2-ACPSP-F
Job / Serial Num	-	5100510
Type	TYPE I LOW PROXIMITY	TYPE I CANOPY
Hood length	138"	138"
Hood Width	54"	54"
Supply Plenum Type	-	ACPSP
Supply Plenum Width	22"	12"
Supply Plenum Length	150"	150"

Test Data Exhaust		
	Design	**Actual**
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	20X16	20X16
Filter Qty 1	8	8
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	16.64	16.64
Filter1 FPM	-	95
Filter2 FPM	-	98
Filter3 FPM	-	100
Filter4 FPM	-	105
Filter5 FPM	-	102
Filter6 FPM	-	94
Filter7 FPM	-	90
Filter8 FPM	-	76
Filter Ave FPM(corr)	-	95
CFM	2600	1581

Cooking Equipment		
	Design	**Actual**
Item 1	-	FRYER
Item 2	-	DOUBLE FRYER
Item 3	-	BURNER STOVE

Test Data Supply		
	Design	**Actual**
Total AK Area	22.91	10.875
Kv factor (Vel)	0.87"	0.87
Num of Readings	-	12
Reading1 FPM	-	153
Reading2 FPM	-	141
Reading3 FPM	-	127
Reading4 FPM	-	152
Reading5 FPM	-	157
Reading6 FPM	-	141
Reading7 FPM	-	124
Reading8 FPM	-	106
Reading9 FPM	-	201
Reading10 FPM	-	183
Reading11 FPM	-	205
Reading12 FPM	-	159
Ave FPM(corr)	-	154
CFM	1600	1674

Performance Data		
	Design	**Actual**
Exh-Supply Net CFM	1000	-93
Smoke Generation Type	-	COOKING AFFLUENT
Cooking Equip Heat On	-	YES
Hood Capture %	-	75%
End Panels Installed (Y/N)	-	YES BUT NOT FULLY SEALED TO HOOD
Space Offset Temp Riser 1	-	11 DEG
Riser Temp F (idle) Riser 1	-	WHILE COOKING-83F
Ambient Room Temp	-	74F

General		
	Design	**Actual**
Third Party Witness	-	RICH
Third Party Company	-	NATIOANL ENGINEERING
Tech Witness	-	TYLER

Completed By: Tyler Youells

Notes:

Asset	Notes

National TAB

Project: 06-13 BLUE SUSHI - NASHVILLE, TN

System/Unit: Kitchen Hood Type II

Comfort. Under control.

Asset: HD(Type2)1 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Model Num	4830 VHB-G	4830 VHB-G
Serial Num	-	5100510
Type	TYPE II LOW PROXIMITY	TYPE II CANOPY
Hood length	96"	96"
Hood Width	48"	48"

Test Data		
	Design	**Actual**
Exhaust CFM	1200	1090

Completed By: Tyler Youells

Notes:

Asset	Notes