Comfort. Under control.

02-06-23 FIVE GUYS - LORAIN, OH

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

Notes/Comments :

Comfort. Under control.

02-06-23 FIVE GUYS - LORAIN, OH

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

EF's

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

Flex conduit is long enough so that fan can be completely tilted back?	
There is no major leakage around base of fan?	
Is the motor operating below the motor FLA rating?	
For restroom fan(s) is the back draft damper installed and can it fully open?	
Unit free of noticeable noise and vibration?	
MUA	
Rotation is correct?	
Gas piping is installed and valves are in on position?	
Heater tested and is functional?	
Internal motorized damper is fully opening?	
Motor is operating below the FLA rating?	
Unit free of noticeable noise and vibration?	
HOODS	
Kitchen equipment installed in proper places?	
Can kitchen equipment be turned on for final smoke test?	
DOCUMENTATION	
Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	

Notes/Comments :

Comfort. Under control.

02-06-23 FIVE GUYS - LORAIN, OH

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

Notes/Comments :

Comfort. Under control.

02-06-23 FIVE GUYS - LORAIN, OH

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	
List smoke candle type used	
Smoke test capture - Perimeter of hood	
Smoke test capture - Top of cooking surface	
WITNESS	
Date test was completed	
TAB tech name / Firm	
Site super name / Firm	
Owner representative name / Firm (if Applicable)	
Building pressure at front & back doors (All Systems On)	
ADDITIONAL	
Do actual net building airflow, design net building airflow, and pressure coincide? If not why? (All three should either be positive or negative)	
Thermostats are programmed?	

Notes/Comments :

Comfort. Under control.

02-06-23 FIVE GUYS - LORAIN, OH

CheckList Information

Name :	TECH - STEP 5: FINAL DOCUMENTATION	**Status :**	NotSubmitted
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		

CheckList Item Details

FINAL DOCUMENTATION

Marked Data capture complete for all assets?	
Picture file sent to processing team or uploaded?	
Balance schedule complete and uploaded?	
Prelim report generated and reviewed?	

Notes/Comments :

National TAB

Project: 02-06-23 FIVE GUYS - LORAIN, OH

System/Unit: AHU/RTU

Comfort. Under control.

Asset: RTU1 AREA:

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	
Model Num	LGH120H4B	LGH120H4B
Type	RTU	
Configuration	VERTICAL	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num Final Filter 1	-	
Final Filter Size 1	-	
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	2.0	
Motor Rpm	-	
Phase	3	
Rated Voltage	208	
Rated Amperage	-	

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	-	
Belt Alignment	-	

Test Data		
	Design	**Actual**
SF CFM	4050	
SF RPM	-	
RA CFM	3600	
OA CFM	450	
RL Voltage	-	
RL Amperage	-	
SF Rotation	-	
RA Damper Position	-	
Min OA Damper Position	-	
Min OA Damper Type	-	
OA Enthalpy Setpt	-	

Performance Data		
	Design	**Actual**
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	-	
Fan Total SP	-	

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

Completed By: Wale Odofin

Notes:

National TAB

Project:02-06-23 FIVE GUYS - LORAIN, OH

AHU/RTU

Comfort. Under control.

Diffuser Supply (GRD)

RTU1/

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	DINING	S2	NA	475					-
SGRD2	DINING	S2	NA	475					-
SGRD3	DINING	S2	NA	475					-
SGRD4	DINING	S2	NA	475					-
SGRD5	DINING	S2	NA	475					-
SGRD6	DINING	S2	NA	475					-
SGRD7	DINING	S2	NA	475					-
SGRD8	DINING	S2	NA	475					-
SGRD9	DINING	S3	NA	50					-
SGRD10	DINING	S1	NA	100					-
SGRD11	DINING	S3	NA	100					-

Completed By: Wale Odofin on

National TAB

Project: 02-06-23 FIVE GUYS - LORAIN, OH

System/Unit: AHU/RTU

Comfort. Under control.

Asset: RTU2 AREA:

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	
Model Num	LGH092H4B	LGH092H4B
Type	RTU	
Configuration	VERTICAL	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num Final Filter 1	-	
Final Filter Size 1	-	
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	2	
Motor Rpm	-	
Phase	3	
Rated Voltage	208	
Rated Amperage	-	

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	-	
Belt Alignment	-	

Test Data		
	Design	**Actual**
SF CFM	2968	
SF RPM	-	
RA CFM	2768	
OA CFM	200	
RL Voltage	-	
RL Amperage	-	
SF Rotation	-	
RA Damper Position	-	
Min OA Damper Position	-	
Min OA Damper Type	-	
OA Enthalpy Setpt	-	

Performance Data		
	Design	**Actual**
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	-	
Fan Total SP	-	

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

Completed By: Wale Odofin

Notes:

National TAB

Project:02-06-23 FIVE GUYS - LORAIN, OH

AHU/RTU

Comfort. Under control.

Diffuser Supply (GRD)

RTU2/

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	KITCHEN	S1	NA	300					-
SGRD2	KITCHEN	S1	NA	300					-
SGRD3	KITCHEN	NA	NA	292					-
SGRD4	KITCHEN	NA	NA	292					-
SGRD5	KITCHEN	NA	NA	292					-
SGRD6	KITCHEN	S1	NA	292					-
SGRD7	KITCHEN	S1	NA	300					-
SGRD8	KITCHEN	S1	NA	300					-
SGRD9	ICE	S1	NA	300					-
SGRD10	KITCHEN	S1	NA	300					-

Completed By: Wale Odofin on

National TAB

Project: 02-06-23 FIVE GUYS - LORAIN, OH

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: EF1 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU180HFA	DU180HFA
Serial Num	-	
Type	ROOF	
Configuration	VERTICAL	

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	2.0	
Motor Rpm	-	
Phase	3	
Voltage (rated)	208	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	**Actual**
CFM	1852	
Fan RPM	1084	
Fan Rotation	-	
Motor RPM	-	
System SetPt	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	1.375"	
Fan Inlet SP	-	
Fan Discharge SP	-	

Completed By: Wale Odofin

Notes:

National TAB

Project: 02-06-23 FIVE GUYS - LORAIN, OH

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: EF2 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	CASRE15DD	CASRE15DD
Serial Num	-	
Type	ROOF	
Configuration	VERTICAL	

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	2.0	
Motor Rpm	-	
Phase	3	
Voltage (rated)	208	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	**Actual**
CFM	1662	
Fan RPM	1801	
Fan Rotation	-	
Motor RPM	-	
System SetPt	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	1.375"	
Fan Inlet SP	-	
Fan Discharge SP	-	

Completed By: Wale Odofin

Notes:

National TAB

Project: 02-06-23 FIVE GUYS - LORAIN, OH

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: EF3 AREA:

Unit Data		
	Design	**Actual**
MFG	GREENHECK	GREENHECK
Model Num	G-090-G	G-090-G
Serial Num	-	
Type	ROOF	
Configuration	VERTICAL	

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	1/20	
Motor Rpm	-	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	**Actual**
CFM	375	
Fan RPM	-	
Fan Rotation	-	
Motor RPM	-	
System SetPt	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	0.25"	
Fan Inlet SP	-	
Fan Discharge SP	-	

Completed By: Wale Odofin

Notes:

National TAB

Project:02-06-23 FIVE GUYS - LORAIN, OH

FAN - Exhaust

Comfort. Under control.

Diffuser Ret/Exh (GRD)

EF3/

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	RESTROOM	E1		150					-
EGRD2	RESTROOM	E1		75					-

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National TAB

Project: 02-06-23 FIVE GUYS - LORAIN, OH

System/Unit: FAN - Supply

Comfort. Under control.

Asset: MUA1 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	A2-D500-20D-MPU	A2-D500-20D-MPU
Serial Num	-	
Type	MUA	
Configuration	HORIZONTAL	

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	3.0	
Motor Rpm	-	
Phase	3	
Voltage (rated)	208	
Amperage (rated)	-	
Service Factor	-	

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

Gas Heat		
	Design	**Actual**
Heater Operates (y/n)	-	
Flame Status (pass/fail)	-	
Inlet Air Temp SetPt	55	
Discharge Air Temp SetPt	60	
Air Flow Switch SP Actual	-	

Test Data		
	Design	**Actual**
CFM	2821	
SF RPM	1425	
Motor RPM	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	-	
Fan Discharge SP	-	

General		
	Design	**Actual**
Fan Rotation Correct	-	

Completed By: Wale Odofin

Notes:

National TAB

Project: 02-06-23 FIVE GUYS - LORAIN, OH

System/Unit: Kitchen Hood Type I

Comfort. Under control.

Asset: HD1 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424ND-2-ACPSPF-F	5424ND-2-ACPSPF-F
Job / Serial Num	-	
Type	TYPE 1 CANOPY	
Hood length	105	
Hood Width	54	
Supply Plenum Type	-	
Supply Plenum Width	24	
Supply Plenum Length	117	

Test Data Exhaust		
	Design	**Actual**
Filter Type	CAPTRATE SOLO	
Filter Size 1	16x16	
Filter Size 2	-	
Filter Qty 1	6	
Filter Qty 2	-	
Filter AK factor size 1	1.62	
Filters AK factor size 2	-	
Filter Total AK Area	9.72	
Filter1 FPM	-	
Filter2 FPM	-	
Filter3 FPM	-	
Filter4 FPM	-	
Filter5 FPM	-	
Filter6 FPM	-	
Filter7 FPM	-	
Filter8 FPM	-	
Filter9 FPM	-	
Filter10 FPM	-	
Filter11 FPM	-	
Filter12 FPM	-	
Filter Ave FPM(corr)	-	
CFM	1662	

Cooking Equipment		
	Design	**Actual**
Item 1	-	
Item 2	-	
Item 3	-	
Item 4	-	
Item 5	-	

Test Data Supply		
	Design	**Actual**
Total AK Area	19.5	
Kv factor (Vel)	0.87	
Num of Readings	-	
Reading1 FPM	-	
Reading2 FPM	-	
Reading3 FPM	-	
Reading4 FPM	-	
Reading5 FPM	-	
Reading6 FPM	-	
Reading7 FPM	-	
Reading8 FPM	-	
Reading9 FPM	-	
Reading10 FPM	-	
Reading11 FPM	-	
Reading12 FPM	-	
Reading13 FPM	-	
Reading14 FPM	-	
Ave FPM(corr)	-	
CFM	2821	

Completed By: Wale Odofin

Notes:

National TAB

Project: 02-06-23 FIVE GUYS - LORAIN, OH

System/Unit: Kitchen Hood Type I

Comfort. Under control.

Asset: HD2 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424ND-2-ACPSPF-F	5424ND-2-ACPSPF-F
Job / Serial Num	-	
Type	TYPE 1 CANOPY	
Hood length	117	
Hood Width	54	
Supply Plenum Type	-	
Supply Plenum Width	24	
Supply Plenum Length	117	

Test Data Exhaust		
	Design	**Actual**
Filter Type	CAPTRATE SOLO	
Filter Size 1	16X16	
Filter Size 2	-	
Filter Qty 1	7	
Filter Qty 2	-	
Filter AK factor size 1	1.62	
Filters AK factor size 2	-	
Filter Total AK Area	11.34	
Filter1 FPM	-	
Filter2 FPM	-	
Filter3 FPM	-	
Filter4 FPM	-	
Filter5 FPM	-	
Filter6 FPM	-	
Filter7 FPM	-	
Filter8 FPM	-	
Filter9 FPM	-	
Filter10 FPM	-	
Filter11 FPM	-	
Filter12 FPM	-	
Filter Ave FPM(corr)	-	
CFM	1852	

Cooking Equipment		
	Design	**Actual**
Item 1	-	
Item 2	-	
Item 3	-	
Item 4	-	
Item 5	-	

Test Data Supply		
	Design	**Actual**
Total AK Area	18.5	
Kv factor (Vel)	0.87	
Num of Readings	-	
Reading1 FPM	-	
Reading2 FPM	-	
Reading3 FPM	-	
Reading4 FPM	-	
Reading5 FPM	-	
Reading6 FPM	-	
Reading7 FPM	-	
Reading8 FPM	-	
Reading9 FPM	-	
Reading10 FPM	-	
Reading11 FPM	-	
Reading12 FPM	-	
Reading13 FPM	-	
Reading14 FPM	-	
Ave FPM(corr)	-	
CFM	2821	

Completed By: Wale Odofin

Notes: