Report By:

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

NATIONAL TAB

Comfort. Under control.

Report: PRELIM TAB REPORT
Function: Test, Adjust, & Balance
Date: 04/11/2023

PROJECT

04-10-23 CULVERS - WASHINGTON, MI

66233 VAN DYKE

WASHINGTON, MI 48095

Client

Accurex

PO Box 410

Schofield, WI 54476

National TAB

Project: 04-10-23 CULVERS - WASHINGTON, MI

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04-10-23 CULVERS - WASHINGTON, MI

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?	
Perforated diffusers are installed on the cook line? (4-ways will disrupt hood capture)	
All hood filters installed and accounted for?	
Hoods are wired and have power?	
Thermostats have power?	
Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	

Notes/Comments :

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04-10-23 CULVERS - WASHINGTON, MI

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?
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.)
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 grease rated fans 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?	
The hood exhaust fans are installed in correct positions and are not switched?	
HOODS	
Kitchen equipment installed in proper places?	
Can kitchen equipment be turned on for final smoke test?	
Second stage Grease Grabber filters are installed on the griddle hood?	
DOCUMENTATION	
Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	

Notes/Comments :

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04-10-23 CULVERS - WASHINGTON, MI

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 :

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04-10-23 CULVERS - WASHINGTON, MI

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?	
PRODIGY SETTINGS FOR RTU'S	
Parameter 65 set to 0	

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

Notes/Comments :

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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 :

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Project: 04-10-23 CULVERS - WASHINGTON, MI

System/Unit: AHU/RTU

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Asset: RTU1 AREA:

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	
Model Num	13H15	13H15
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	-	

Test Data		
	Design	**Actual**
SF CFM	6150	
SF RPM	-	
RA CFM	4250	
OA CFM	1900	
RL Voltage	-	
RL Amperage	-	
SF Rotation	-	
RA Damper Position	-	
Min OA Damper Position	-	
Min OA Damper Type	-	
OA Enthalpy Setpt	-	

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

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

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	-	

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

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Project:04-10-23 CULVERS - WASHINGTON, MI

AHU/RTU

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Diffuser Supply (GRD)

RTU1/

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	ENTRY	CD13	8"	150					-
SGRD2	REST.RM	CD15	8"	150					-
SGRD3	REST.RM	CD15	8"	150					-
SGRD4	DINING	CD10	8"	150					-
SGRD5	DINING	CD10	8"	150					-
SGRD6	DINING	CD10	8"	150					-
SGRD7	DINING	CD10	8"	150					-
SGRD8	DINING	CD10	8"	150					-
SGRD9	DINING	CD10	8"	150					-
SGRD10	DINING	CD10	8"	150					-
SGRD11	DINING	CD10	8"	150					-
SGRD12	DINING	CD10	8"	150					-
SGRD13	DINING	CD10	8"	150					-
SGRD14	DINING	CD10	8"	150					-
SGRD15	DINING	CD18	10"	300					-
SGRD16	DINING	CD10	8"	150					-
SGRD17	DINING	CD10	12"	450					-
SGRD18	DINING	CD10	8"	150					-
SGRD19	DINING	CD10	8"	150					-
SGRD20	DINING	CD16	12"	450					-
SGRD21	C. SERVICE	CD17	10"	350					-
SGRD22	C. SERVICE	CD17	10"	350					-
SGRD23	C. SERVICE	CD17	10"	350					-
SGRD24	C. SERVICE	CD17	10"	350					-
SGRD25	DRIVE THRU	CD11	10"	500					-
SGRD26	OFFICE	CD12	12"	200					-

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Project: 04-10-23 CULVERS - WASHINGTON, MI

System/Unit: AHU/RTU

Comfort. Under control.

Asset: RTU2 AREA:

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	
Model Num	13H15	13H15
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	-	

Test Data		
	Design	**Actual**
SF CFM	6150	
SF RPM	-	
RA CFM	4250	
OA CFM	1900	
RL Voltage	-	
RL Amperage	-	
SF Rotation	-	
RA Damper Position	-	
Min OA Damper Position	-	
Min OA Damper Type	-	
OA Enthalpy Setpt	-	

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

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

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	-	

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

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Project:04-10-23 CULVERS - WASHINGTON, MI

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	CD	10"	200					-
SGRD2	KITCHEN	CD	12"	375					-
SGRD3	KITCHEN	CD	12"	400					-
SGRD4	KITCHEN	CD	12"	400					-
SGRD5	KITCHEN	CD	10"	250					-
SGRD6	KITCHEN	CD	10"	275					-
SGRD7	SUNDAE	CD	10"	600					-
SGRD8	KITCHEN	CD	10"	600					-
SGRD9	KITCHEN	CD	12"	350					-
SGRD10	KITCHEN	CD	12"	350					-
SGRD11	DISHWASHING	CD	12"	350					-
SGRD12	DRY GOODS	CD	12"	600					-
SGRD13	DRY GOODS	CD	8"	200					-
SGRD14	TOILET	CD	8"	75					-
SGRD15	UTILITY ROOM	CD	12"	600					-
SGRD16	UTILITY ROOM	CD	12"	600					-

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Project: 04-10-23 CULVERS - WASHINGTON, MI

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: EF1 AREA:

Unit Data		
	Design	**Actual**
MFG	ACCUREX	ACCUREX
Model Num	XCR-B80	XCR-B80
Serial Num	-	
Type	CEILING	
Configuration	VERTICAL	

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

Test Data		
	Design	**Actual**
CFM	75	
Fan RPM	885	
Fan Rotation	-	
Motor RPM	-	
System SetPt	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	0.125"	
Fan Inlet SP	-	
Fan Discharge SP	-	

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Project: 04-10-23 CULVERS - WASHINGTON, MI

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: PRV1 AREA:

Unit Data		
	Design	**Actual**
MFG	ACCUREX	ACCUREX
Model Num	XRED-095-D	XRED-095-D
Serial Num	-	
Type	CENTRIFUGAL	
Configuration	VERTICAL	

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	0.0667	
Motor Rpm	1550	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
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	375	
Fan RPM	1479	
Fan Rotation	-	
Motor RPM	-	
RL Voltage	-	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.5"	

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Notes:

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Project:04-10-23 CULVERS - WASHINGTON, MI

FAN - Exhaust

Comfort. Under control.

Diffuser Ret/Exh (GRD)

PRV1/

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	MENS RESTROOM	EG-2	8"	150					-
EGRD2	WO. RESTROOM	EG-2	8"	150					-

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Project: 04-10-23 CULVERS - WASHINGTON, MI

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: PRV2 AREA:HOOD 1

Unit Data		
	Design	**Actual**
MFG	ACCUREX	ACCUREX
Model Num	XCUE-140-VG	XCUE-140-VG
Serial Num	-	
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	0.83	
Motor Rpm	1725	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	**Actual**
CFM	1500	
Fan RPM	1702	
Fan Rotation	-	
Motor RPM	-	
System SetPt	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	1.8"	
Fan Inlet SP	-	
Fan Discharge SP	-	

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Project: 04-10-23 CULVERS - WASHINGTON, MI

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: PRV3 AREA:HOOD 2

Unit Data		
	Design	**Actual**
MFG	ACCUREX	ACCUREX
Model Num	XCUE-140-VG	XCUE-140-VG
Serial Num	-	
Type	CENTRIFUGAL	
Configuration	VERTICAL	

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	0.46	
Motor Rpm	1725	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	**Actual**
CFM	1500	
Fan RPM	1349	
Fan Rotation	-	
Motor RPM	-	
System SetPt	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	1.0"	
Fan Inlet SP	-	
Fan Discharge SP	-	

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Notes:

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Project: 04-10-23 CULVERS - WASHINGTON, MI

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: PRV4 AREA:

Unit Data		
	Design	**Actual**
MFG	ACCUREX	ACCUREX
Model Num	XRED-095-D	XRED-090-D
Serial Num	-	
Type	DOWNBLAST	
Configuration	VERTICAL	

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	0.0667"	
Motor Rpm	1550	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	**Actual**
CFM	350	
Fan RPM	1455	
Fan Rotation	-	
Motor RPM	-	
System SetPt	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	0.6"	
Fan Inlet SP	-	
Fan Discharge SP	-	

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Notes:

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Project: 04-10-23 CULVERS - WASHINGTON, MI

System/Unit: Kitchen Hood Type I

Comfort. Under control.

Asset: HD1 AREA:

Unit Data		
	Design	**Actual**
MFG	ACCUREX	ACCUREX
Model Num	XGEP-5.33S	XGEP-64.00-S
Job / Serial Num	-	21102299
Type	TYPE I	I
Hood length	64	64"
Hood Width	23	26"

Test Data Exhaust		
	Design	**Actual**
Filter Type	GREASE GRABBER	X-TRACTOR
Filter Size 1	16X16	16"X16"
Filter Qty 1	4	4
Filter AK factor size 1	1.53	1.53
Filter Total AK Area	6.12	6.12
Filter1 FPM	-	918
Filter2 FPM	-	
Filter3 FPM	-	
Filter4 FPM	-	
Filter Ave FPM(corr)	-	
CFM	1500	

Cooking Equipment		
	Design	**Actual**
Item 1	-	
Item 2	-	

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Notes:

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Project: 04-10-23 CULVERS - WASHINGTON, MI

System/Unit: Kitchen Hood Type I

Comfort. Under control.

Asset: HD2 AREA:

Unit Data		
	Design	**Actual**
MFG	ACCUREX	ACCUREX
Model Num	XXEP-FB-6.92-S	XXEP-FB-6.92-S
Job / Serial Num	-	21102294
Type	TYPE I	TYPE I
Hood length	83"	83"
Hood Width	23"	23"

Test Data Exhaust		
	Design	**Actual**
Filter Type	X-TRACTOR	X-TRACTOR
Filter Size 1	16X16	16"X16"
Filter Qty 1	5	5
Filter AK factor size 1	1.53	1.53
Filters AK factor size 2	-	
Filter Total AK Area	7.65	
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	1500	

Cooking Equipment		
	Design	**Actual**
Item 1	-	
Item 2	-	

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Notes:

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Project: 04-10-23 CULVERS - WASHINGTON, MI

System/Unit: Kitchen Hood Type II

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Asset: HD3 AREA:

Unit Data		
	Design	**Actual**
MFG	ACCUREX	ACCUREX
Model Num	XD3-3.5.S	XD3-42-.S
Serial Num	-	
Type	TYPE II	
Hood length	42	
Hood Width	42	

Test Data		
	Design	**Actual**
Exhaust CFM	350	

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Notes: