Issue List

- AC-3 LENNOX CORE BOARD NOT OPERATIONAL UNABLE TO SET OA
- HD-4 CAPTURE JET POTENTIOMETER NOT OPERATIONAL

Chick-Fil-A (Redding, CA)

Project Issue Information

Issue Name : AC-3 LENNOX CORE BOARD NOT OPERATIONAL UNABLE TO SET OA

Description : AC-3 LENNOX CORE board is not operational. OA is unable to be set. Recommend to have serviced.

Created By :	National TAB	**Assigned To :**	National TAB - Zack Eismin
Status :	Open		
Priority :	High	**Asset Tag :**	
Originated Date :	11/20/2024 - Zack Eismin - National TAB		

Project Issue File Details

11/20/2024

Chick-Fil-A (Redding, CA)

Project Issue Information

Issue Name : HD-4 CAPTURE JET POTENTIOMETER NOT OPERATIONAL

Description : Capture jets for HD-4 cannot be adjusted due to faulty potentiometer. Jets are currently set at 0.21" sp.

Created By : National TAB

Assigned To : National TAB - Zack Eismin

Status : Open

Priority : High

Asset Tag :

Originated Date : 11/19/2024 - Zack Eismin - National TAB

Project Issue File Details

11/19/2024

11/19/2024

National TAB

Project: Chick-Fil-A (Redding, CA)

System/Unit: AHU/RTU

Asset: AC-1 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	NA	LENNOX
Serial Num	-	5623K04316
Model Num	NA	LGT300S4MH1Y
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	3
OA Filter Size 1	-	23X13.5
Num PreFilter 1	-	6
PreFilter Size 1	-	24X24X2

Motor Data		
	Design	**Actual**
Motor MFG	-	US MOTOR
Frame	-	215TZ
Horsepower	10.0	10
Motor Rpm	-	1765
Phase	3	3
Rated Voltage	208	208/230
Rated Amperage	-	26.3
Service Factor	-	1.15

Test Data		
	Design	**Actual**
SF CFM	8500	8764
RA CFM	7300	7579
OA CFM	1200	1185
RL Voltage	-	209/209/210
RL Amperage	-	20.2/20.19/20.2
OA Damper Position	-	23%
Brake Horse Power	-	7.68

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.74
Fan Suction SP	-	-1.24"
Fan Discharge SP	-	0.64"
Total ESP	0.80	1.38"
Fan Total SP	-	1.88"

Completed By: Zack Eismin on 11/19/2024

National TAB

Project:Chick-Fil-A (Redding, CA)

AHU/RTU

Diffuser Supply (GRD)

AC-1/KITCHEN

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
SGRD1	KITCHEN	A	14	500	598	500	100.0
SGRD2	KITCHEN	A	14	475	516	517	108.8
SGRD3	KITCHEN	A	14	825	795	779	94.4
SGRD4	KITCHEN	A	14	825	1112	831	100.7
SGRD5	KITCHEN	A	14	550	577	536	97.5
SGRD6	KITCHEN	A	14	825	1025	849	102.9
SGRD7	KITCHEN	A	14	600	251	593	98.8
SGRD8	KITCHEN	A	14	825	948	886	107.4
SGRD9	KITCHEN	A	14	825	946	907	109.9
SGRD10	KITCHEN	A	14	600	701	649	108.2
SGRD11	KITCHEN	A	14	825	893	891	108.0
SGRD12	KITCHEN	A	14	825	560	826	100.1
Total				8500	8922	8764	103.11%

Diffuser Ret/Exh (GRD)

AC-1/KITCHEN

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	KITCHEN	F	18	1825	1	1894	1894	1894	103.8
EGRD2	KITCHEN	F	18	1825	1	1894	1894	1894	103.8
EGRD3	KITCHEN	F	18	1825	1	1895	1895	1895	103.8
EGRD4	KITCHEN	F	18	1825	1	1895	1895	1895	103.8
Total				7300		7578	7578	7578	103.81%

Completed By: Zack Eismin on 11/19/2024

National TAB

Project: Chick-Fil-A (Redding, CA)

System/Unit: AHU/RTU

Asset: AC-2 AREA:SERVNG

Unit Data		
	Design	**Actual**
MFG	NA	LENNOX
Serial Num	-	5623M05420
Model Num	NA	LGT240H4MM1Y
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	3
OA Filter Size 1	-	23X13.5
Num PreFilter 1	-	6
PreFilter Size 1	-	24X24X2

Motor Data		
	Design	**Actual**
Motor MFG	-	US MOTORS
Frame	-	184TZ
Horsepower	5.0	5
Motor Rpm	-	1765
Phase	3	3
Rated Voltage	208	208/230
Rated Amperage	-	13.8/13.0
Service Factor	-	1.15

Test Data		
	Design	**Actual**
SF CFM	5600	4941
RA CFM	3900	3292
OA CFM	1700	1649
RL Voltage	-	209/209/210
RL Amperage	-	8.2/8.3/8.4
OA Damper Position	-	30%
Brake Horse Power	-	2.97

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.39
Fan Suction SP	-	-0.57
Fan Discharge SP	-	0.49"
Total ESP	0.65	0.88"
Fan Total SP	-	1.06

Completed By: Zack Eismin on 11/19/2024

Notes:
BALANCED PROPORTIONALLY LOW

Written By: Zack Eismin on 11/19/2024

National TAB

Project:Chick-Fil-A (Redding, CA)

AHU/RTU

Diffuser Supply (GRD)

AC-2/SERVNG

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
SGRD1	SERVING	A	14	700	699	584	83.4
SGRD2	SERVING	A	14	700	537	610	87.1
SGRD3	SERVING	A	14	700	560	646	92.3
SGRD4	DRIVE-THRU	A	16	875	656	748	85.5
SGRD5	DRIVE-THRU	A	16	875	884	794	90.7
SGRD6	DRIVE-THRU	A	16	875	702	748	85.5
SGRD7	DRIVE-THRU	A	16	875	929	811	92.7
Total				5600	4967	4941	88.23%

Diffuser Ret/Exh (GRD)

AC-2/SERVNG

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	SERVING	F	16	1300	1	1097	1097	1097	84.4
EGRD2	SERVING	F	16	1300	1	1097	1097	1097	84.4
EGRD3	DRIVE-THRU	F	16	1300	1	1098	1098	1098	84.5
Total				3900		3292	3292	3292	84.41%

Completed By: Zack Eismin on 11/19/2024

National TAB

Project: Chick-Fil-A (Redding, CA)

System/Unit: AHU/RTU

Asset: AC-3 AREA:SERVICE

Unit Data		
	Design	**Actual**
MFG	NA	LENNOX
Serial Num	-	5623M06210
Model Num	NA	LGT120H4EM1Y
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	14.25X22.5
Num PreFilter 1	-	4
PreFilter Size 1	-	20X25X2

Motor Data		
	Design	**Actual**
Motor MFG	-	EBMPAPST
Frame	-	NL
Horsepower	3.0	3.8
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	8.7
Service Factor	-	NL

Test Data		
	Design	**Actual**
SF CFM	3750	3876
RA CFM	2300	3876
OA CFM	1450	0
RL Voltage	-	208/209/209
RL Amperage	-	4.68/4.7/4.67
OA Damper Position	-	0%
Brake Horse Power	-	2.04

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.55"
Fan Suction SP	-	-0.79"
Fan Discharge SP	-	0.63"
Total ESP	0.65	1.18"
Fan Total SP	-	1.42"

Completed By: Zack Eismin on 11/19/2024

Notes:
LENNOX CORE BOARD NOT OPERATIONAL UNABLE TO SET OA

Written By: Zack Eismin on 11/19/2024

National TAB

Project:Chick-Fil-A (Redding, CA)

AHU/RTU

Diffuser Supply (GRD)

AC-3/SERVICE

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
SGRD1	SERVICE	A	14	700	694	706	100.9
SGRD2	SERVICE	A	14	700	868	729	104.1
SGRD3	SERVICE	A	12	400	484	419	104.8
SGRD4	SERVICE	A	14	700	505	693	99.0
SGRD5	OFFICE	A	12	400	429	434	108.5
SGRD6	MULTIPURPOSE	A	12	400	456	439	109.8
SGRD7	WOMEN	J	8	125	141	137	109.6
SGRD8	HALL	J	8	200	185	196	98.0
SGRD9	MEN	J	8	125	154	123	98.4
Total				3750	3916	3876	103.36%

Diffuser Ret/Exh (GRD)

AC-3/SERVICE

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	SERVICE	F	14	750	1	0	0	0	0.0
EGRD2	MULTIPURPOSE	F	12	400	1	0	0	0	0.0
EGRD3	SERVICE	F	12	400	1	0	0	0	0.0
EGRD4	SERVICE	F	14	750	1	0	0	0	0.0
Total				2300		0	0	0	0%

Completed By: Zack Eismin on 11/19/2024

National TAB

Project: Chick-Fil-A (Redding, CA)

System/Unit: FAN - Exhaust

Asset: EF-1 AREA:HOOD 1 L, R

Unit Data		
	Design	**Actual**
MFG	NA	COOK
Model Num	NA	150CPS150CPSS
Serial Num	-	050SL23545
Type	UTILITY VENT	UTILITY

Motor Data		
	Design	**Actual**
Motor MFG	-	MARATHON
Frame	-	56
Horsepower	0.75	0.75
Motor Rpm	1331	1725
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	10.0
Service Factor	-	1.25

Drive Data	
	Actual
Motor Sheave Size	4.25"
Motor Bore Size	5/8"
Motor Sheave SetPt	1 TURN OPEN
Fan Sheave Size	BK55
Fan Sheave Bore	1"
Belt CL Distance	11.5"
Num of Belts	1
Belt Size	A-36

Test Data		
	Design	**Actual**
CFM	1913	1751
Fan RPM	1331	1466
RL Voltage	-	115
RL Amperage	-	9.3
Suction ESP	-	-0.77"
Discharge ESP	-	ATM
Total ESP	0.75	0.77"
Brake Horse Power	-	0.69

Completed By: Zack Eismin on 11/19/2024

National TAB

Project: Chick-Fil-A (Redding, CA)

System/Unit: FAN - Exhaust

Asset: EF-2 AREA:HOOD 2, HOOD 3

Unit Data		
	Design	**Actual**
MFG	NA	COOK
Model Num	NA	150CPS150CPSS
Serial Num	-	050SL23545
Type	UTILITY VENT	UTILITY

Motor Data		
	Design	**Actual**
Motor MFG	-	MARATHON
Frame	-	56
Horsepower	0.75	0.75
Motor Rpm	1199	1725
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	10
Service Factor	-	1.25

Drive Data	
	Actual
Motor Sheave Size	4.25"
Motor Bore Size	5/8"
Motor Sheave SetPt	1 TURN OPEN
Fan Sheave Size	BK57
Fan Sheave Bore	1
Belt CL Distance	11.5"
Num of Belts	1
Belt Size	A-36

Test Data		
	Design	**Actual**
CFM	1402	1405
Fan RPM	1199	1409
RL Voltage	-	115
RL Amperage	-	7.9
Suction ESP	-	-0.89"
Discharge ESP	-	ATM
Total ESP	0.95	0.89"
Brake Horse Power	-	0.59

Completed By: Zack Eismin on 11/19/2024

National TAB

Project: Chick-Fil-A (Redding, CA)

System/Unit: FAN - Exhaust

Asset: EF-3 AREA:RESTROOMS

Unit Data		
	Design	**Actual**
MFG	NA	COOK
Model Num	NA	90C150DH90ACEH
Serial Num	-	050PK96091
Type	CRE DNBLAST	DOWNBLAST

Test Data		
	Design	**Actual**
CFM	300	305
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	0.375	0.34"

Motor Data		
	Design	**Actual**
Motor MFG	-	US MOTORS
Frame	-	NL
Horsepower	0.125	0.125
Motor Rpm	1294	1600
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	1.7
Service Factor	-	NL

Completed By: Zack Eismin on 11/19/2024

National TAB

Project:Chick-Fil-A (Redding, CA)

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF-3/RESTROOMS

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	MEN	K	8	150	1	192	153	153	102.0
EGRD2	WOMEN	K	8	150	1	123	152	152	101.3
Total				300		315	305	305	101.67%

National TAB

Project: Chick-Fil-A (Redding, CA)

System/Unit: FAN - Exhaust

Asset: EF-4 AREA:TRASH ENCLOSURE

Unit Data		
	Design	**Actual**
MFG	NA	FANTECH
Model Num	NA	REC54
Serial Num	-	40229
Type	CRE DNBLAST	DOWNBLAST

Test Data		
	Design	**Actual**
CFM	117	107
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	0	0

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	1	1
Voltage (rated)	115	120
Amperage (rated)	-	0.18
Service Factor	-	NL

Completed By: Zack Eismin on 11/19/2024

National TAB

Project: Chick-Fil-A (Redding, CA)

System/Unit: Kitchen Hood Type II

Asset: HOOD 1 AREA:

Unit Data		
	Design	**Actual**
MFG	NA	HALTON
Model Num	NA	KVL-2 IC
Serial Num	-	123234-411
Type	BACKSHELF	BACKSHELF
Hood length	107	107"
Hood Width	37	37"

Test Data		
	Design	**Actual**
Exhaust CFM	1204	1109

Completed By: Zack Eismin on 11/19/2024

Notes:
DESIGN 0.13" EX 0.30"SUP
ACTUAL 0.1192" EX 0.3030"SUP

Written By: Zack Eismin on 11/19/2024

National TAB

Project: Chick-Fil-A (Redding, CA)

System/Unit: Kitchen Hood Type II

Asset: HOOD 2 AREA:

Unit Data		
	Design	**Actual**
MFG	NA	HALTON
Model Num	NA	KVL-2 IC
Serial Num	-	123234-448
Type	BACKSHELF	BACKSHELF
Hood length	63	63"
Hood Width	37	37"

Test Data		
	Design	**Actual**
Exhaust CFM	709	642

Completed By: Zack Eismin on 11/19/2024

Notes:
DESIGN 0.13" EX 0.30"SUP
ACTUAL 0.1178"EX 0.3049"SUP

Written By: Zack Eismin on 11/19/2024

National TAB

Project: Chick-Fil-A (Redding, CA)

System/Unit: Kitchen Hood Type II

Asset: HOOD 3 AREA:

Unit Data		
	Design	**Actual**
MFG	NA	HALTON
Model Num	NA	KVL-C-IC
Serial Num	-	123234-489
Type	BACKSHELF	BACKSHELF
Hood length	42	42"
Hood Width	34	34"

Test Data		
	Design	**Actual**
Exhaust CFM	701	725

Completed By: Zack Eismin on 11/19/2024

Notes:
DESIGN 0.30" EX 0.29" SUP
ACTUAL 0.3106"EX 0.2716" SUP

Written By: Zack Eismin on 11/19/2024

National TAB

Project: Chick-Fil-A (Redding, CA)

System/Unit: Kitchen Hood Type II

Asset: HOOD 4 AREA:

Unit Data		
	Design	**Actual**
MFG	NA	HALTON
Model Num	NA	KVL-C-IC
Serial Num	-	123234-540
Type	BACKSHELF	BACKSHELF
Hood length	42	42"
Hood Width	34	34"

Test Data		
	Design	**Actual**
Exhaust CFM	701	680

Completed By: Zack Eismin on 11/19/2024

Notes:
DESIGN 0.30" EX 0.29" SUP
ACTUAL 0.2912"EX 0.211"SUP

Written By: Zack Eismin on 11/19/2024