

Report By:

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

NATIONAL

TAB

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**Report: REVIVE REPORT
Function: Test, Adjust, & Balance
Date: 01/11/2023**

PROJECT

12-26 FREDDY'S - FAIRFAX, VA (REVIVE)

10030 FAIRFAX BLVD

FAIRFAX, VA 22030

Client

JRI Hospitality Management
621 Westport Blvd
Salina, KS 67401

National TAB

Project: 12-26 FREDDY'S - FAIRFAX, VA (REVIVE)

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12-26 FREDDY'S - FAIRFAX, VA (REVIVE)

Project Issue Information

Issue Name : EF-1 and EF-2 should use proper COG belts
Description : EF-1 and EF-2 are running with adjustable belts. Recommend having belts replaced with proper COG belts.
Created By : National TAB **Assigned To :** National TAB - David Annan
Status : Open
Originated Date : 01/03/2023 - David Annan - National TAB

Project Issue File Details



EF_adjustablebelt.jpe...



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12-26 FREDDY'S - FAIRFAX, VA (REVIVE)

Project Issue Information

Issue Name : EF-2 electrical disconnect is not properly secured to the unit

Description : EF-2 electrical disconnect was found hanging by the unit. The disconnect should be secured properly have maintenance re screw the disconnect to the unit.

Created By : National TAB

Assigned To : National TAB - David Annan

Status : Open

Originated Date : 01/03/2023 - David Annan - National TAB

Project Issue File Details



EF-2_disconnect.jpeg



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Project Issue Information

Issue Name : MUA OA intake filters are dirty

Description : MUA outside wire filters are dirty. This affects airflow getting into the unit. Recommend having the filters cleaned.

Created By : National TAB

Assigned To : National TAB - David Annan

Status : Open

Originated Date : 01/03/2023 - David Annan - National TAB

Project Issue File Details



MUA_filter.jpeg



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12-26 FREDDY'S - FAIRFAX, VA (REVIVE)

Project Issue Information

Issue Name : RTU-2: Grease inside filter compartment

Description : RTU-2 was found to have grease in the clean out door.

Created By : National TAB

Assigned To : National TAB - David Annan

Status : Open

Originated Date : 01/03/2023 - David Annan - National TAB

Project Issue File Details



RTU-2_grease.jpeg



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CheckList Information

Name : TECH - SITE PICTURES **Status :** NotSubmitted
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB

CheckList Item Details

RTU-1



MicrosoftTeams_image_...

RTU-2



MicrosoftTeams_image_...

EF-1



MicrosoftTeams_image_...

EF-2



MicrosoftTeams_image_...

MUA-1



MicrosoftTeams_image_...

HOOD



MicrosoftTeams_image_...

Notes/Comments :



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12-26 FREDDY'S - FAIRFAX, VA (REVIVE)

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?	Front: -0.0181" Side: -0.0256" Rear: -0.0247"
Are thermostats programmed?	Yes
Are building pressure relief working properly?	Yes

INITIAL AIRFLOWS:

SUPPLY RTU-1	4857
OA RTU-1	0
SUPPLY RTU-2	2,720
OA RTU-2	0
SUPPLY RTU-3	-
OA RTU-3	-
EF-1	KEF-1 :
EF-2	KEF-2:
EF-3	EF-1: 128 CFM
EF-4	EF-2 : 164 CFM
MAU-1	1197 CFM

Notes/Comments :



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

Notes/Comments :



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12-26 FREDDY'S - FAIRFAX, VA (REVIVE)

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

EF's

Rotation is correct?	Yes
Belts are tight?	Yes
Grease cup installed on hood fan?	Yes
Hinge kit installed installed on hood fan?	Yes
Lean fan 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?	No major leakage.
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
Unit free of noticeable noise and vibration?	KEF-2 has noticeable vibration.

MUA

Rotation is correct?	Yes
Gas piping is installed and valves are in on position?	Yes
Heater tested and is functional?	Yes
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
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Notes/Comments :



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

Notes/Comments :



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12-26 FREDDY'S - FAIRFAX, VA (REVIVE)

CheckList Information

Name : TECH - STEP 5: 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	Yes
List smoke candle type used	Live cooking smoke
Smoke test capture - Perimeter of hood	100%
Smoke test capture - Top of cooking surface	100%

WITNESS

Date test was completed	12/28/2022
TAB tech name / Firm	David Annan
Site super name / Firm	NA
Owner representative name / Firm (if Applicable)	Freddy's Kitchen staff
Building pressure at front & back doors (All Systems On)	Front: -0.00645" Rear: -0.0139"

ADDITIONAL

Do actual net building airflow, design net building airflow, and pressure coincide? If not why? (All three should either be positive or negative)	NA
Thermostats are programmed?	Yes

Notes/Comments :

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Project: 12-26 FREDDY'S - FAIRFAX, VA (REVIVE)

System/Unit: AHU/RTU



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Asset: RTU1

AREA:DINING

Unit Data		
	Design	Actual
MFG	NA	Trane
Serial Num	-	16291264JA
Model Num	NA	GAC240A3EMA
Type	-	RTU
Configuration	-	Vertical
Num OA Filters 1	-	1
OA Filter Size 1	-	66X17
Num Final Filter 1	-	8
Final Filter Size 1	-	20X25X2

Motor Data		
	Design	Actual
Motor MFG	-	Marathon
Frame	-	56HZ
Horsepower	-	5
Motor Rpm	-	3450
Phase	-	3
Rated Voltage	-	208
Rated Amperage	-	13.4

Drive Data		
	Design	Actual
Motor Sheave Size	-	3 7/8"
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	3 Turns out
Fan Sheave Size	-	BK140
Fan Sheave Bore	-	1 7/16"
Belt CL Distance	-	14"
Num of Belts	-	1
Belt Size	-	BX55
Belt Alignment	-	Good

Test Data		
	Design	Actual
SF CFM	-	4857
SF RPM	-	977
RA CFM	-	3611
OA CFM	-	1246
RL Voltage	-	209/210/208
RL Amperage	-	9.6/8.9/9.4
SF Rotation	-	CW
RA Damper Position	-	NA
Min OA Damper Position	-	4'O clock position
Min OA Damper Type	-	SBD
OA Enthalpy Setpt	-	"E"

Performance Data		
	Design	Actual
MA Plenum SP	-	-1.0130"
Fan Suction SP	-	-1.2108"
Fan Discharge SP	-	0.5724"
Total ESP	-	1.585"
Fan Total SP	-	1.783"

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

Completed By: David Annan

Notes:

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Project: 12-26 FREDDY'S - FAIRFAX, VA (REVIVE)

System/Unit: AHU/RTU



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Asset: RTU2

AREA:KITCHEN

Unit Data		
	Design	Actual
MFG	NA	Trane
Serial Num	-	163412948L
Model Num	NA	YSC120F3RLA1V
Type	-	RTU
Configuration	-	Vertical
Num OA Filters 1	-	1
OA Filter Size 1	-	36X15
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2

Motor Data		
	Design	Actual
Motor MFG	-	N/L
Frame	-	N/L
Horsepower	-	3.80
Phase	-	3
Rated Voltage	-	208
Rated Amperage	-	8.50

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

Test Data		
	Design	Actual
SF CFM	-	2720
RA CFM	-	2364
OA CFM	-	356
RL Voltage	-	208/208/209
RL Amperage	-	1.5/1.8/1.5
SF Rotation	-	CW
RA Damper Position	-	NA
Min OA Damper Position	-	2'o clock position
Min OA Damper Type	-	SBD
OA Enthalpy Setpt	-	"E"

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.1760"
Fan Suction SP	-	-0.2688"
Fan Discharge SP	-	0.8982"

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: 12-26 FREDDY'S - FAIRFAX, VA (REVIVE)

System/Unit: FAN - Exhaust



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Asset: EF1

AREA:

Unit Data		
	Design	Actual
MFG	NA	NA
Model Num	NA	NA

Test Data		
	Design	Actual

Motor Data		
	Design	Actual

Completed By: Brianna Biggs

Notes:

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Project: 12-26 FREDDY'S - FAIRFAX, VA (REVIVE)

System/Unit: FAN - Exhaust



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Asset: EF2

AREA:

Unit Data		
	Design	Actual
MFG	NA	NA
Model Num	NA	NA

Test Data		
	Design	Actual

Motor Data		
	Design	Actual

Completed By: Brianna Biggs

Notes:

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Project: 12-26 FREDDY'S - FAIRFAX, VA (REVIVE)

System/Unit: FAN - Exhaust



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Asset: KEF1

AREA:

Unit Data		
	Design	Actual
MFG	BELT	Captiveaire
Model Num	NA	NCA14FA
Serial Num	-	2931023
Type	-	Exhaust Fan
Configuration	-	Upblast

Motor Data		
	Design	Actual
Motor MFG	-	Weg
Frame	-	56H
Horsepower	-	1.0
Motor Rpm	-	1760
Phase	-	3
Voltage (rated)	-	208
Amperage (rated)	-	3.47
Service Factor	-	1.15

Drive Data		
	Design	Actual
Motor Sheave Size	-	3 5/8"
Motor Bore Size	-	5/8"
Motor Sheave SetPt	-	2 Turns out
Fan Sheave Size	-	4 1/2"
Fan Sheave Bore	-	3/4"
Belt CL Distance	-	7 3/4"
Num of Belts	-	1
Belt Size	-	NA

Test Data		
	Design	Actual
CFM	-	2317
Fan RPM	-	1386
Fan Rotation	-	CCW
Motor RPM	-	1770
RL Voltage	-	208/209/208
RL Amperage	-	2.2/2.1/2.3
Suction ESP	-	-1.324"
Discharge ESP	-	ATM
Total ESP	-	1.324"

Completed By: David Annan

Notes:

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Project: 12-26 FREDDY'S - FAIRFAX, VA (REVIVE)

System/Unit: FAN - Exhaust



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Asset: KEF2

AREA:

Unit Data		
	Design	Actual
MFG	DIRECT	Captiveaire
Model Num	NA	NCA8FA
Serial Num	-	1512600
Type	-	Exhaust Fan
Configuration	-	Upblast

Motor Data		
	Design	Actual
Motor MFG	-	HSSA
Frame	-	56
Horsepower	-	3/4
Motor Rpm	-	1750
Phase	-	3
Voltage (rated)	-	115
Amperage (rated)	-	6.0
Service Factor	-	1.15

Test Data		
	Design	Actual
CFM	-	1431
Fan Rotation	-	CCW
Motor RPM	-	1786
System SetPt	-	Belt Driven
RL Voltage	-	119.1
RL Amperage	-	3.6
Total ESP	-	0.7423"
Fan Inlet SP	-	-0.7423"
Fan Discharge SP	-	ATM

Completed By: David Annan

Notes:

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Project: 12-26 FREDDY'S - FAIRFAX, VA (REVIVE)

System/Unit: FAN - Supply



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Asset: MUA1

AREA:

Unit Data		
	Design	Actual
MFG	NA	Captiveaire
Model Num	NA	NA
Serial Num	-	NA
Type	-	MAU
Configuration	-	Vertical

Test Data		
	Design	Actual
CFM	-	1197
RL Voltage	-	209/208/184.1
RL Amperage	-	3.0/2.9/

Motor Data		
	Design	Actual
Horsepower	-	1.50
Motor Rpm	-	1720
Phase	-	3
Voltage (rated)	-	208
Amperage (rated)	-	4.70

Gas Heat		
	Design	Actual
Heater Operates (y/n)	-	Yes
Flame Status (pass/fail)	-	Pass
Inlet Air Temp SetPt	-	55
Discharge Air Temp SetPt	-	60

Completed By: David Annan

Notes:

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Project: 12-26 FREDDY'S - FAIRFAX, VA (REVIVE)

System/Unit: Kitchen Hood Type I



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Asset: HD2

AREA:

Unit Data		
	Design	Actual
MFG	PSP	Captiveaire
Model Num	NA	NA
Job / Serial Num	-	NA
Type	-	ACPSP
Hood length	-	52"
Hood Width	-	54"
Supply Plenum Type	-	ACPSP
Supply Plenum Width	-	12"
Supply Plenum Length	-	52"

Test Data Supply		
	Design	Actual
Total AK Area	-	4.333
Kv factor (Vel)	-	0.87

Test Data Exhaust		
	Design	Actual
Filter Type	-	Baffle
Filter Size 1	-	20X20
Filter Qty 1	-	3
Filter AK factor size 1	-	2.68
Filter Total AK Area	-	8.04
Filter1 FPM	-	161.5
Filter2 FPM	-	194.9
Filter3 FPM	-	177.7
Filter Ave FPM(corr)	-	178.03
CFM	-	1431

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

Completed By: David Annan

Notes:

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Project: 12-26 FREDDY'S - FAIRFAX, VA (REVIVE)

System/Unit: Kitchen Hood Type I



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Asset: HD-A1

AREA:

Unit Data		
	Design	Actual
MFG	PSP	Captiveaire
Model Num	NA	NA
Job / Serial Num	-	NA
Type	-	ACPSP
Hood length	-	74"
Hood Width	-	42"
Supply Plenum Type	-	ACPSP
Supply Plenum Width	-	14"
Supply Plenum Length	-	74"

Test Data Supply		
	Design	Actual
Total AK Area	-	7.194
Kv factor (Vel)	-	0.90

Test Data Exhaust		
	Design	Actual
Filter Type	-	Baffle
Filter Size 1	-	20X16
Filter Size 2	-	16X16
Filter Qty 1	-	2
Filter Qty 2	-	2
Filter AK factor size 1	-	2.08
Filters AK factor size 2	-	1.62
Filter Total AK Area	-	7.4
Filter1 FPM	-	118.3
Filter2 FPM	-	166.2
Filter3 FPM	-	167.2
Filter4 FPM	-	167.7
Filter Ave FPM(corr)	-	154.85
CFM	-	1146

Cooking Equipment		
	Design	Actual
Item 1	-	Grill

Completed By: David Annan

Notes: This hood is not in use for cooking. MAU reading was taken at the roof.

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Project: 12-26 FREDDY'S - FAIRFAX, VA (REVIVE)

System/Unit: Kitchen Hood Type I



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Asset: HD-B1

AREA:

Unit Data		
	Design	Actual
MFG	PSP	Captivaire
Model Num	NA	NA
Type	-	ACPSP
Hood length	-	74"
Hood Width	-	42"
Supply Plenum Type	-	PSP
Supply Plenum Width	-	14"
Supply Plenum Length	-	74"

Test Data Supply		
	Design	Actual
Total AK Area	-	7.194
Kv factor (Vel)	-	0.90
Num of Readings	-	NA

Test Data Exhaust		
	Design	Actual
Filter Type	-	Baffle
Filter Size 1	-	16X16
Filter Size 2	-	16X20
Filter Qty 1	-	2
Filter Qty 2	-	2
Filter AK factor size 1	-	1.62
Filters AK factor size 2	-	2.08
Filter Total AK Area	-	7.4
Filter1 FPM	-	150.4
Filter2 FPM	-	166.2
Filter3 FPM	-	177.3
Filter4 FPM	-	139.1
Filter Ave FPM(corr)	-	158.25
CFM	-	1171

Cooking Equipment		
	Design	Actual
Item 1	-	Grill

Completed By: David Annan

Notes:

