

Report By:

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



Report: TAB REPORT
Function: Test, Adjust, & Balance
Date: 12/06/2023

PROJECT
12-04-23 FIREBIRDS - PLANO, TX

5400 State Highway 121

Plano, TX

Client

FIREBIRD RESTAURANTS

National TAB

Project: 12-04-23 FIREBIRDS - PLANO, TX

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Issue List

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- KITCHEN HOOD CONTROLS
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- RTU-1 MINIMUM FAN %
- RTU-1 OSA Damper
- RTU-2 OSA Damper
- Trane Thermostat Scheduling
- VELOCITY FOR PASS TO KITCHEN PASSTHROUGH



12-04-23 FIREBIRDS - PLANO, TX

Project Issue Information

Issue Name : DAOS-1 and DOAS-2 Total CFM
Description : Both DOAS-1 and DOAS-2 were high on total cfm. Both units were reduced.
Created By : National TAB **Assigned To :** National TAB - Will Turnbough
Status : Open
Priority : InfoOnly **Asset Tag :**
Originated Date : 12/08/2023 - Bayley Morvant - National TAB



12-04-23 FIREBIRDS - PLANO, TX

Project Issue Information

Issue Name : DOAS-1 and DOAS-2 OSA damper
Description : Both DOAS-1 and DOAS-2 OSA dampers were set to 72% via unit controls. These were both opened to 100% for testing purposes.
Created By : National TAB **Assigned To :** National TAB - Will Turnbough
Status : Open
Priority : InfoOnly **Asset Tag :**
Originated Date : 12/08/2023 - Bayley Morvant - National TAB



12-04-23 FIREBIRDS - PLANO, TX

Project Issue Information

Issue Name : EF-5 Not Installed
Description : It would appear that EF-5 was never installed.
Created By : National TAB **Assigned To :** National TAB - Will Turnbough
Status : Open
Priority : InfoOnly **Asset Tag :**
Originated Date : 12/08/2023 - Bayley Morvant - National TAB



12-04-23 FIREBIRDS - PLANO, TX

Project Issue Information

Issue Name : EF-DISH Fan Seal
Description : EF-DISH does not sit all the way down on the curb for the fan. There is about a 1/2" to 3/4" gap all the way around. There is also not a rubber seal on the bottom of the fan or on the curb to help seal off the duct. The duct itself that comes up through the curb does not align with the intake of the exhaust fan. Pictures attached provide insight.
Created By : National TAB **Assigned To :** National TAB - Will Turnbough
Status : Open
Priority : InfoOnly **Asset Tag :**
Originated Date : 12/08/2023 - Bayley Morvant - National TAB

Project Issue File Details



EF_DISH_ISSUE_3
12/08/2023



EF_DISH_ISSUE_1
12/08/2023



EF_DISH_ISSUE_2
12/08/2023



12-04-23 FIREBIRDS - PLANO, TX

Project Issue Information

Issue Name : EF-DISH GREASE CUP
Description : EF-DISH DOES NOT HAVE A GREASE CUP INSTALLED.
Created By : National TAB **Assigned To :** National TAB - Will Turnbough
Status : Open
Priority : InfoOnly **Asset Tag :**
Originated Date : 12/08/2023 - Bayley Morvant - National TAB

Project Issue File Details





12-04-23 FIREBIRDS - PLANO, TX

Project Issue Information

Issue Name : KITCHEN HOOD CONTROLS
Description : The kitchen hood controls for each fan do not control corresponding numbered fan, EF-1 on HMI controls EF-4 EF-2 on HMI controls EF-1 EF-3 on HMI controls EF-3 EF-4 on HMI controls EF-2.
Created By : National TAB **Assigned To :** National TAB - Will Turnbough
Status : Open
Priority : InfoOnly **Asset Tag :**
Originated Date : 12/08/2023 - Bayley Morvant - National TAB



12-04-23 FIREBIRDS - PLANO, TX

Project Issue Information

Issue Name : RTU-1 FINAL FILTERS
Description : RTU-1 still needs final filters installed in unit.
Created By : National TAB **Assigned To :** National TAB - Will Turnbough
Status : Open
Priority : InfoOnly **Asset Tag :**
Originated Date : 12/08/2023 - Bayley Morvant - National TAB



12-04-23 FIREBIRDS - PLANO, TX

Project Issue Information

Issue Name : RTU-1 MINIMUM FAN %
Description : RTU-1 minimum fan setting was at 0% when unit was first inspected. This was changed to 100% so that when unit will call for minimum fan speed the fan operates at the correct fan speed %.

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

Status : Open

Priority : InfoOnly **Asset Tag :**

Originated Date : 12/08/2023 - Bayley Morvant - National TAB



12-04-23 FIREBIRDS - PLANO, TX

Project Issue Information

Issue Name : RTU-1 OSA Damper
Description : RTU-1 OSA damper was found to be stuck at 100% open. I was unable to get the damper to move through unit controls, so the motorized damper was unplugged and manually balanced and marked.

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

Status : Open

Priority : InfoOnly **Asset Tag :**

Originated Date : 12/08/2023 - Bayley Morvant - National TAB



12-04-23 FIREBIRDS - PLANO, TX

Project Issue Information

Issue Name : RTU-2 OSA Damper
Description : RTU-2 OSA damper was found to be about 40% open when testing unit. OSA was reading 1294 cfm, well over design for this unit. This was reduced to within tolerance.
Created By : National TAB **Assigned To :** National TAB - Will Turnbough
Status : Open
Priority : InfoOnly **Asset Tag :**
Originated Date : 12/08/2023 - Bayley Morvant - National TAB



12-04-23 FIREBIRDS - PLANO, TX

Project Issue Information

Issue Name : Trane Thermostat Scheduling
Description : I am unable to program a schedule for these thermostats. I have tried looking through a few different Trane manuals for them and nothing is working.
Created By : National TAB **Assigned To :** National TAB - Will Turnbough
Status : Open
Priority : **Asset Tag :**
Originated Date : 12/07/2023 - Bayley Morvant - National TAB



12-04-23 FIREBIRDS - PLANO, TX

Project Issue Information

Issue Name : VELOCITY FOR PASS TO KITCHEN PASSTHROUGH
Description : The velocity for the passthrough between the pass and the kitchen is -115 fpm.
Created By : National TAB **Assigned To :** National TAB - Will Turnbough
Status : Open
Priority : InfoOnly **Asset Tag :**
Originated Date : 12/08/2023 - Bayley Morvant - National TAB

Project Issue File Details



CheckList List

- JOB SITE PHOTO'S



12-04-23 FIREBIRDS - PLANO, TX

CheckList Information

Name : JOB SITE PHOTO'S **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 12/06/2023 - Brianna Biggs - National TAB

CheckList Item Details

STORE FRONT

Yes

Comment:



FIREBIRDS_STOREFRONT...
12/08/2023

DOAS-1

Yes

Comment:



FIREBIRDS_DOAS_1
12/08/2023

DOAS-2

Yes

Comment:



FIREBIRDS_DOAS_2
12/08/2023

RTU-1

Yes

Comment:



FIREBIRDS_RTU_1
12/08/2023

RTU-2

Yes

Comment:



FIREBIRDS_RTU_2
12/08/2023

TEF-1

Yes

Comment:



FIREBIRDS_TEF_1
12/08/2023

EF-1

Yes

Comment:



FIREBIRDS_EF_1
12/08/2023

EF-2

Yes

Comment:



FIREBIRDS_EF_2
12/08/2023

EF-3

Yes

Comment:



FIREBIRDS_EF_3_SOLID_..
12/08/2023

EF-4

Yes

Comment:



FIREBIRDS_EF_4
12/08/2023

EF-5

No

Comment:

EF-5 WAS NEVER INSTALLED

HOOD-1

Yes

Comment:



FIREBIRDS_HD_1
12/08/2023

HOOD-2

Yes

Comment:



FIREBIRDS_HD_2
12/08/2023

HOOD-3

Yes

Comment:



FIREBIRDS_HD_3_SOLID_..
12/08/2023

HOOD-4

Yes

Comment:



FIREBIRDS_HD_4
12/08/2023

National TAB

Project: 12-04-23 FIREBIRDS - PLANO, TX

System/Unit: AHU/RTU



Asset: DOAS1

AREA:

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Serial Num	-	22232853
Model Num	XRV-45-30I	XRV-75-30I-O-G1
Type	DOAS	DOAS
Configuration	VERTICAL	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	5170	4746
SF RPM	-	DIRECT DRIVE
RA CFM	0	0
OA CFM	5170	4746
RL Voltage	-	213/212/213
RL Amperage	-	3.1/1.8/3.0
SF Rotation	-	CCW
RA Damper Position	-	0% OPEN
Min OA Damper Position	-	100% OPEN
Min OA Damper Type	-	OPOSED BLADE
OA Enthalpy Setpt	-	

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	182T
Horsepower	2	1.5
Motor Rpm	-	1170
Phase	3	3
Rated Voltage	208	230
Rated Amperage	-	5.0

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.5"	
Fan Total SP	-	

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

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

National TAB

Project: 12-04-23 FIREBIRDS - PLANO, TX

System/Unit: AHU/RTU



Asset: DOAS2

AREA:

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Serial Num	-	22232869
Model Num	XRV-45-30I	XRV-75-30I-O-G1
Type	DOAS	DOAS
Configuration	VERTICAL	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	-	BALDOR
Frame	-	182T
Horsepower	2	1.5
Motor Rpm	-	1170
Phase	3	3
Rated Voltage	208	230
Rated Amperage	-	5.0

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

Test Data		
	Design	Actual
SF CFM	5530	4956
SF RPM	-	DIRECT DRIVE
RA CFM	0	0
OA CFM	5530	4956
RL Voltage	-	212/214/214
RL Amperage	-	3.5/2.2/3.6
SF Rotation	-	CCW
RA Damper Position	-	0% OPEN
Min OA Damper Position	-	100% OPEN
Min OA Damper Type	-	OPOSED BLADE
OA Enthalpy Setpt	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.5"	
Fan Total SP	-	

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

National TAB

Project: 12-04-23 FIREBIRDS - PLANO, TX

System/Unit: AHU/RTU



Asset: RTU1

AREA:

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	233113019L
Model Num	YSJ150	YSJ150A3S0L02P
Type	RTU	RTU
Configuration	VERTICAL	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	-	NA
Frame	-	NA
Horsepower	3.1	5.0
Motor Rpm	-	NA
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	11.0

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	5000	4495
SF RPM	-	DIRECT DRIVE
RA CFM	4000	3364
OA CFM	1000	1131
RL Voltage	-	213/212/213
RL Amperage	-	5.8/5.8/5.9
SF Rotation	-	CCW
RA Damper Position	-	75% OPEN
Min OA Damper Position	-	15% OPEN
Min OA Damper Type	-	OPOSED BLADE
OA Enthalpy Setpt	-	60 DEGREES

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	1.0"	
Fan Total SP	-	

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

National TAB

Project: 12-04-23 FIREBIRDS - PLANO, TX

System/Unit: AHU/RTU



Asset: RTU2

AREA:

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	231611124L
Model Num	YHC048	YHC048E3RLA2DH0B1
Type	RTU	RTU
Configuration	VERTICAL	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	-	MARATHON
Frame	-	56
Horsepower	1	1.0
Motor Rpm	-	1725
Phase	3	3
Rated Voltage	208	200-230
Rated Amperage	-	3.4-3.3

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	1600	1533
SF RPM	-	976
RA CFM	1280	1199
OA CFM	320	334
RL Voltage	-	213/217/212
RL Amperage	-	2.8/2.7/2.8
SF Rotation	-	CW
RA Damper Position	-	0% OPEN(basically closed)
Min OA Damper Position	-	100% OPEN
Min OA Damper Type	-	OPOSED BLADE
OA Enthalpy Setpt	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	1.0"	
Fan Total SP	-	

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

National TAB

Project: 12-04-23 FIREBIRDS - PLANO, TX

System/Unit: FAN - Exhaust



Asset: EF1

AREA:HOOD 1 ITEM 33 (COOKLINE L.R)

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XCUE-160-VG	XCUE-160-10-VG-1-26-G
Serial Num	-	22199958
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	BROAD-OCEAN
Frame	-	NA
Horsepower	1	1.00
Motor Rpm	1300	300-1750
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	7.0
Service Factor	-	NA

Test Data		
	Design	Actual
CFM	2350	2246
Fan RPM	1246	DIRECT DRIVE
Fan Rotation	-	
Motor RPM	-	DIRECT DRIVE
System SetPt	-	
RL Voltage	-	213
RL Amperage	-	3.3
Total ESP	1.078"	
Fan Inlet SP	-	
Fan Discharge SP	-	

Notes:
SERVES HD-1

Written By: Bayley Morvant on 12/06/2023

National TAB

Project: 12-04-23 FIREBIRDS - PLANO, TX

System/Unit: FAN - Exhaust



Asset: EF2

AREA:HOOD 2 ITEM 33 (COOKLINE L.R)

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XCUE-160-VG	XCUE-160-A-20-1-26-G
Serial Num	-	22199963
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	143
Horsepower	2	2.00
Motor Rpm	1725	1740
Phase	1	3
Voltage (rated)	208	230
Amperage (rated)	-	5.38
Service Factor	-	1.00

Test Data		
	Design	Actual
CFM	2820	2682
Fan RPM	1400	DIRECT DRIVE
Fan Rotation	-	
Motor RPM	-	DIRECT DRIVE
System SetPt	-	
RL Voltage	-	213
RL Amperage	-	3.4
Total ESP	1.227"	
Fan Inlet SP	-	
Fan Discharge SP	-	

Notes:

SERVES HD-2

Written By: Bayley Morvant on 12/06/2023

National TAB

Project: 12-04-23 FIREBIRDS - PLANO, TX

System/Unit: FAN - Exhaust



Asset: EF3

AREA:HOOD 3 ITEM 38 (SOLID FUEL)

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XRUBS-180HP-20	XRUBS-180HP-20-1-30-G
Serial Num	-	22199968
Type	UPBLAST	UPBALST
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	Actual
CFM	3000	2875
Fan RPM	1538	
Fan Rotation	-	
Motor RPM	-	
RL Voltage	-	205/205/205
RL Amperage	-	6.2/6.2/6.3
Suction ESP	-	
Discharge ESP	-	
Total ESP	1.864"	

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	143T
Horsepower	2	2.00
Motor Rpm	1725	1755
Phase	3	3
Voltage (rated)	208	200
Amperage (rated)	-	6.00
Service Factor	-	1.15

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	-	

Notes:
SERVES HD-3(SOLID FUEL)

Written By: Bayley Morvant on 12/08/2023

National TAB

Project: 12-04-23 FIREBIRDS - PLANO, TX

System/Unit: FAN - Exhaust



Asset: EF4

AREA:HOOD 4 ITEM 70

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XCUE-160-VG	XCUE-160-10-VG-1-26-G
Serial Num	-	22199969
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	BROAD-OCEAN
Frame	-	NA
Horsepower	1	1.0
Motor Rpm	1300	300-1750
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	7.0
Service Factor	-	NA

Test Data		
	Design	Actual
CFM	2438	2297
Fan RPM	1239	DIRECT DRIVE
Fan Rotation	-	
Motor RPM	-	DIRECT DRIVE
System SetPt	-	
RL Voltage	-	212
RL Amperage	-	3.2
Total ESP	1.002"	
Fan Inlet SP	-	
Fan Discharge SP	-	

Notes:

SERVES HD-4

Written By: Bayley Morvant on 12/06/2023

National TAB

Project: 12-04-23 FIREBIRDS - PLANO, TX

System/Unit: FAN - Exhaust



Asset: EF5

AREA:

Unit Data		
	Design	Actual
MFG	GREENHECK	NA
Model Num	CSP-A390	NA
Serial Num	-	NA
Type	INLINE	NA
Configuration	HORIZONTAL	NA

Motor Data		
	Design	Actual
Motor MFG	-	NA
Frame	-	NA
Horsepower	-	NA
Motor Rpm	-	NA
Phase	1	NA
Voltage (rated)	208	NA
Amperage (rated)	-	NA
Service Factor	-	NA

Test Data		
	Design	Actual
CFM	100	0
Fan RPM	0.5"	NA
Fan Rotation	-	NA
Motor RPM	-	NA
System SetPt	-	NA
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	-	NA
Fan Inlet SP	-	NA
Fan Discharge SP	-	NA

Completed By: Bayley Morvant on 12/06/2023

Notes:
FAN WAS NOT INSTALLED.

Written By: Bayley Morvant on 12/06/2023

National TAB

Project: 12-04-23 FIREBIRDS - PLANO, TX

System/Unit: FAN - Exhaust



Asset: EF-DISH6

AREA:

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XRUD-099-VG	XCUE-099-4-VG-1-22-G
Serial Num	-	22199970
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	BROAD-OCEAN
Frame	-	NA
Horsepower	0.25	1/4
Motor Rpm	1725	300-1750
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	2.85
Service Factor	-	1.25

Test Data		
	Design	Actual
CFM	800	650
Fan RPM	1386	DIRECT DRIVE
Fan Rotation	-	
Motor RPM	-	DIRECT DRIVE
System SetPt	-	
RL Voltage	-	123
RL Amperage	-	3.2
Total ESP	0.375"	
Fan Inlet SP	-	
Fan Discharge SP	-	

National TAB

Project: 12-04-23 FIREBIRDS - PLANO, TX

System/Unit: FAN - Exhaust



Asset: TEF1

AREA:

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	G-080	G-090- DGE117X9D
Serial Num	-	22644958
Type	CENTRIFUGAL	CENTRIFUGAL
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	MCMILLAN ELECTRIC
Frame	-	NA
Horsepower	-	1/15
Motor Rpm	-	1550
Phase	1	1
Voltage (rated)	208	120
Amperage (rated)	-	1.2
Service Factor	-	NA

Test Data		
	Design	Actual
CFM	200	422
Fan RPM	-	DIRECT DRIVE
Fan Rotation	-	
Motor RPM	-	DIRECT DRIVE
System SetPt	-	HIGH SPEED
RL Voltage	-	121
RL Amperage	-	1.2
Total ESP	0.5"	
Fan Inlet SP	-	
Fan Discharge SP	-	

National TAB

Project: 12-04-23 FIREBIRDS - PLANO, TX

System/Unit: Kitchen Hood Type I



Asset: HD1

AREA:ITEM 33 (COOKLINE L.R)

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XXEW-120-S	XBEW-120.00-S
Job / Serial Num	-	22391959
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	120"	120"
Hood Width	54"	54"

Test Data Exhaust		
	Design	Actual
Filter Type	XTRACTOR	BAFFLE
Filter Size 1	20X20	20X20
Filter Qty 1	6	6
Filter AK factor size 1	3.00	2.40
Filter Total AK Area	18.00	14.4
Filter1 FPM	-	125
Filter2 FPM	-	143
Filter3 FPM	-	200
Filter4 FPM	-	188
Filter5 FPM	-	143
Filter6 FPM	-	134
Filter Ave FPM(corr)	-	156
CFM	2350	2246

Cooking Equipment		
	Design	Actual
Item 1	-	GAS STOVETOP
Item 2	-	OVEN

Notes:
SERVED BY EF-1

Written By: Bayley Morvant on 12/06/2023

National TAB

Project: 12-04-23 FIREBIRDS - PLANO, TX

System/Unit: Kitchen Hood Type I



Asset: HD2

AREA:

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XXEW--144-S	XBEW--144.00-S
Job / Serial Num	-	22391960
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	144"	144"
Hood Width	54"	54"

Test Data Exhaust		
	Design	Actual
Filter Type	XTRACTOR	BAFFLE
Filter Size 1	16X20	16X20
Filter Size 2	20X20	20X20
Filter Qty 1	4	4
Filter Qty 2	4	4
Filter AK factor size 1	2.00	2.10
Filters AK factor size 2	3.00	2.40
Filter Total AK Area	20	18
Filter1 FPM	-	106
Filter2 FPM	-	130
Filter3 FPM	-	167
Filter4 FPM	-	205
Filter5 FPM	-	202
Filter6 FPM	-	146
Filter7 FPM	-	118
Filter8 FPM	-	119
Filter Ave FPM(corr)	-	149
CFM	2820	2682

Cooking Equipment		
	Design	Actual
Item 1	-	FLAT TOP GRILLE
Item 2	-	FRYER

Notes:
SERVED BY EF-2

Written By: Bayley Morvant on 12/06/2023

National TAB

Project: 12-04-23 FIREBIRDS - PLANO, TX

System/Unit: Kitchen Hood Type I



Asset: HD3

AREA:ITEM 38 (SOLID FUEL)

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XWAE-B-98-S	XWAE-B-98.00-S
Job / Serial Num	-	22391961
Type	TYPE I LOW PROXIMITY	TYPE I LOW PROXIMITY
Hood length	60"	60"
Hood Width	98"	98"

Test Data Exhaust		
	Design	Actual
Filter Type	BAFFLE	OPEN FACE
Filter Size 1	16X20	86X3.875
Filter Qty 1	4	1
Filter AK factor size 1	2.10	2.31
Filter Total AK Area	8.4	2.31
Filter Ave FPM(corr)	-	1245
CFM	3000	2875

Cooking Equipment		
	Design	Actual
Item 1	-	WOOD FIRED GRILLE

Notes:
SERVED BY EF-3

Written By: Bayley Morvant on 12/06/2023

National TAB

Project: 12-04-23 FIREBIRDS - PLANO, TX

System/Unit: Kitchen Hood Type I



Asset: HD4

AREA:ITEM 70

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XXEW-126-S	XBEW-135.00-S
Job / Serial Num	-	22391963
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	126"	135"
Hood Width	60"	60"

Test Data Exhaust		
	Design	Actual
Filter Type	XTRACTOR	BAFFLE
Filter Size 1	16X20	16X20
Filter Size 2	20X20	20X20
Filter Qty 1	4	6
Filter Qty 2	3	2
Filter AK factor size 1	2.00	2.10
Filters AK factor size 2	3.00	2.40
Filter Total AK Area	17	17.4
Filter1 FPM	-	105
Filter2 FPM	-	111
Filter3 FPM	-	130
Filter4 FPM	-	165
Filter5 FPM	-	170
Filter6 FPM	-	138
Filter7 FPM	-	129
Filter8 FPM	-	104
Filter Ave FPM(corr)	-	132
CFM	2438	2297

Cooking Equipment		
	Design	Actual
Item 1	-	GAS STOVE TOP
Item 2	-	

Notes:
SERVED BY EF-4

Written By: Bayley Morvant on 12/06/2023

Task List

- 01: Read out diffusers on DOAS-2 that are in the kitchen area before making adjustments.
- 02: Measure the dish exhaust
- 03: RTU-1 - remeasure/balance to 90% of design with the OA damper at a minimum position.
- 04: Remeasure RTU-2 with the OA damper at a minimum position (balance to 90% of design)
- 05: Double check DOAS-2 model number
- 06: Reduce EF-2 to 90-95% of design
- 07: Decrease DOAS-1 and 2 to 90% of design flow
- Increase EF-3 (Solid fuel) possibly?
- Program thermostats



12-04-23 FIREBIRDS - PLANO, TX

Project Task Information

Task Name : 01: Read out diffusers on DOAS-2 that are in the kitchen area before making adjustments.

Description : .

Created By : National TAB **Assigned To :** National TAB - Bayley Morvant

Status : Open

Originated Date : 12/06/2023 - Will Turnbough - National TAB

Project Task Response Details

- **12/07/2023 National TAB - Bayley Morvant**
 - grilles in kitchen off doas2 are 759 cfm and 927 cfm. both are designed at 750 cfm.



12-04-23 FIREBIRDS - PLANO, TX

Project Task Information

Task Name : 02: Measure the dish exhaust

Description : .

Created By : National TAB

Assigned To : National TAB - Will Turnbough

Status : Open

Originated Date : 12/06/2023 - Will Turnbough - National TAB

Project Task Response Details

- **12/07/2023 National TAB - Bayley Morvant**
 - OPERATING AT 650 CFM BY TRAVERSE.



12-04-23 FIREBIRDS - PLANO, TX

Project Task Information

Task Name : 03: RTU-1 - remeasure/balance to 90% of design with the OA damper at a minimum position.

Description : .

Created By : National TAB **Assigned To :** National TAB - Bayley Morvant

Status : Open

Originated Date : 12/06/2023 - Will Turnbough - National TAB

Project Task Response Details

- **12/07/2023 National TAB - Bayley Morvant**
 - Unit was adjusted to 4495 cfm. Unit originally at 77% fan speed, is now operating at 81% fan speed. Unit OSA was balanced to 1131 cfm.



12-04-23 FIREBIRDS - PLANO, TX

Project Task Information

Task Name : 04: Remeasure RTU-2 with the OA damper at a minimum position (balance to 90% of design)

Description : .

Created By : National TAB **Assigned To :** National TAB - Bayley Morvant

Status : Open

Originated Date : 12/06/2023 - Will Turnbough - National TAB

Project Task Response Details

- **12/08/2023 National TAB - Bayley Morvant**
 - Unit osa was adjusted to be within design tolerance.



12-04-23 FIREBIRDS - PLANO, TX

Project Task Information

Task Name : 05: Double check DOAS-2 model number

Description : .

Created By : National TAB

Assigned To : National TAB - Bayley Morvant

Status : Open

Originated Date : 12/06/2023 - Will Turnbough - National TAB

Project Task Response Details

- **12/07/2023 National TAB - Bayley Morvant**
 - done and in hub



12-04-23 FIREBIRDS - PLANO, TX

Project Task Information

Task Name : 06: Reduce EF-2 to 90-95% of design
Description : .
Created By : National TAB **Assigned To :** National TAB - Bayley Morvant
Status : Open
Originated Date : 12/06/2023 - Will Turnbough - National TAB

Project Task Response Details

- **12/08/2023 National TAB - Bayley Morvant**
 - Fan reduced to 95% of design.



12-04-23 FIREBIRDS - PLANO, TX

Project Task Information

Task Name : 07: Decrease DOAS-1 and 2 to 90% of design flow

Description : .

Created By : National TAB

Assigned To : National TAB - Bayley Morvant

Status : Open

Originated Date : 12/06/2023 - Will Turnbough - National TAB

Project Task Response Details

- **12/07/2023 National TAB - Bayley Morvant**
 - units have been reduced. Doas-1 is operating at 4746 cfm, and doas-2 is operating at 4956 cfm.



12-04-23 FIREBIRDS - PLANO, TX

Project Task Information

Task Name : Increase EF-3 (Solid fuel) possibly?
Description : Need to understand where smoke loss is happening. The exhaust rate may be too low if the smoke is billowing out the sides.
Created By : National TAB **Assigned To :** National TAB - Bayley Morvant
Status : Open
Originated Date : 12/06/2023 - Will Turnbough - National TAB

Project Task Response Details

- **12/08/2023 National TAB - Bayley Morvant**
 - Unable to increase this fan due to motor running at max amps.



12-04-23 FIREBIRDS - PLANO, TX

Project Task Information

Task Name : Program thermostats

Description : .

Created By : National TAB

Assigned To : National TAB - Bayley Morvant

Status : Open

Originated Date : 12/06/2023 - Will Turnbough - National TAB

Project Task Response Details

- **12/08/2023 National TAB - Bayley Morvant**
 - Unable to program thermostats, issue created for this.