Report By:

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

Report: Galley TAB 101523

Function: Test, Adjust, & Balance

Date: 10/19/2023

PROJECT

Galley On Levee (Newport, KY)

1 Levee Way

Newport, KY 41071

Client

CORE Resources

7795 Five Mile Rd

Cincinnati, OH 45230

National TAB

Project: Galley On Levee (Newport, KY)

Table Of Contents

The Back of House systems Consist of (4) hoods with two hoods in operation with one exhaust fan & two other hoods in operation with the other exhaust fan. A factory Direct employee of Captive Aire came to the site & started up the system & measured airflows & balanced the Exhaust fans systems and the DOAS system. National TAB verified the Exhaust hood flow rates & also performed smoke test on each hood to ensure 100% smoke capture. National TAB set up the hood temp sensor setpoints to ensure the hoods energize (fans turn on) when cooking equipment is turned on in a short period of time even if the fan switch is manually off. The service technician also verified the temperature performance of the RTU unit to ensure proper heating & cooling cycles.

Enclosed is the Captive Aire startup-balance report along with the balancing of the general exhaust fans that was performed by National TAB.

SDV Job #: 6065673 - Galley on the Levee

Service Region:	361 - Cincinnati OH Service		
Service Person:	Travis Huff		
Customer Number:	866644	**Customer Name:**	NATIONAL TAB
Address:	Galley on the Levee 212 East 3rd Street 300 Cincinnati, OH 45202		
Region Job #:	5833069		
Region Job Name:	Galley on the Levee		
Sales Region:	120 - Air Solutions		
Sales Person:	Joe Hertenstein		
Created By:	Travis Huff	**Creation Date:**	10/3/2023 3:06 PM
Last Modified By:	Travis Huff	**Last Modified Date:**	10/13/2023 7:34 AM
Dining Room Pressure:	0.0	**Kitchen Pressure:**	0.0
Hours On Job:	0.0	**Extra Hours:**	0.0
Completed:	Yes	**Completed By:**	Travis Huff
Completion Date:	10/13/2023 7:34 AM		

Job Site Meeting

NONE

UDS

NONE

Hood Group 1

Exhaust CFM: Design = 1572 Initial = 1623 Final = 1818 (115.6% of design)

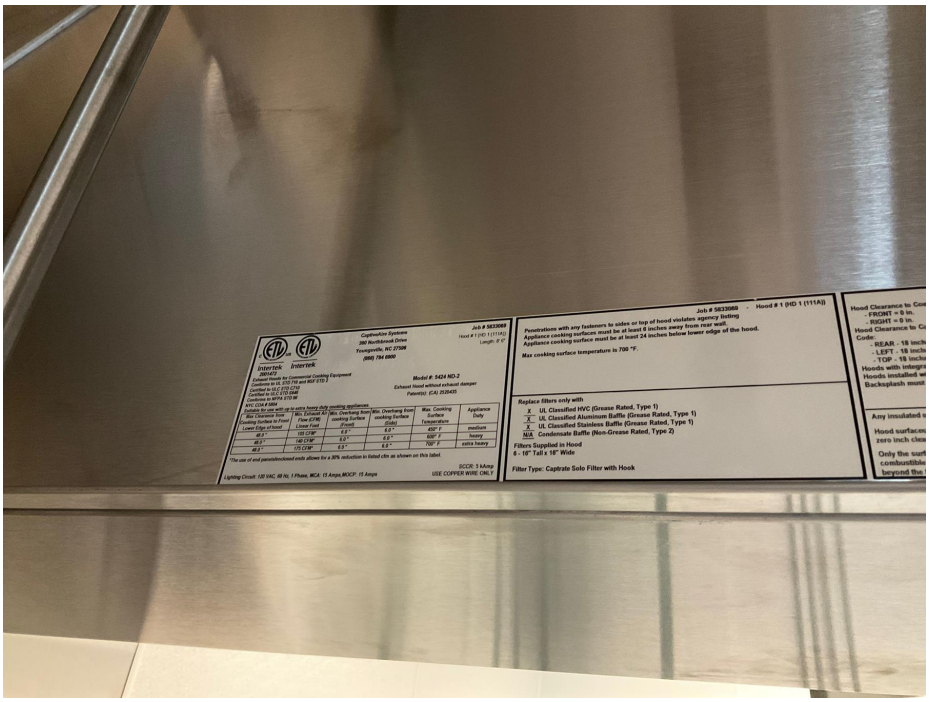
Hood 1 (HD 1 (111A)) (HD 1 (111A))

Model:	5424ND-2	**Length:**	8' 6.00"
Exhaust CFM:	Design = 1572 Initial = 1623 Final = 1818 (115.6% of design)		

Other Notes:

N/A

See attachment(s): [20231009101614.mp4]



Installation

Hung Using appropriate material to safely secure hood.	Design:	**Yes**	Actual:	**No**

Other Notes:

No double-nut.

COOKING EQUIPMENT ON AND OPERATING	Design:	**Yes**	Actual:	**No**
COOKING EQUIPMENT INSTALLED AS CLOSE TO BACK WALL AS POSSIBLE	Design:	**Yes**	Actual:	**Yes**
END PANELS INSTALLED CORRECTLY	Design:	**Yes**	Actual:	**No**

Other Notes:

End panels not installed.

Smoke Test Performed on all Hoods? Upload Video	Design:	**Yes**	Actual:	**Yes**

Filters

Type: Captrate Solo

Filter 1 Fan: #1 - DU240HFA (KEF111AB)	Size: 16x16	Initial Velocity: 161 fpm	Final Velocity: 196 fpm	Initial CFM: 261	Final CFM: 318
Filter 2 Fan: #1 - DU240HFA (KEF111AB)	Size: 16x16	Initial Velocity: 159 fpm	Final Velocity: 170 fpm	Initial CFM: 258	Final CFM: 275
Filter 3 Fan: #1 - DU240HFA (KEF111AB)	Size: 16x16	Initial Velocity: 180 fpm	Final Velocity: 205 fpm	Initial CFM: 292	Final CFM: 332
Filter 4 Fan: #1 - DU240HFA (KEF111AB)	Size: 16x16	Initial Velocity: 179 fpm	Final Velocity: 201 fpm	Initial CFM: 290	Final CFM: 326
Filter 5 Fan: #1 - DU240HFA (KEF111AB)	Size: 16x16	Initial Velocity: 169 fpm	Final Velocity: 179 fpm	Initial CFM: 274	Final CFM: 290
Filter 6 Fan: #1 - DU240HFA (KEF111AB)	Size: 16x16	Initial Velocity: 153 fpm	Final Velocity: 171 fpm	Initial CFM: 248	Final CFM: 277

Hood Group 2

Exhaust CFM: Design = 1572 Initial = 1342 Final = 1545 (98.3% of design)

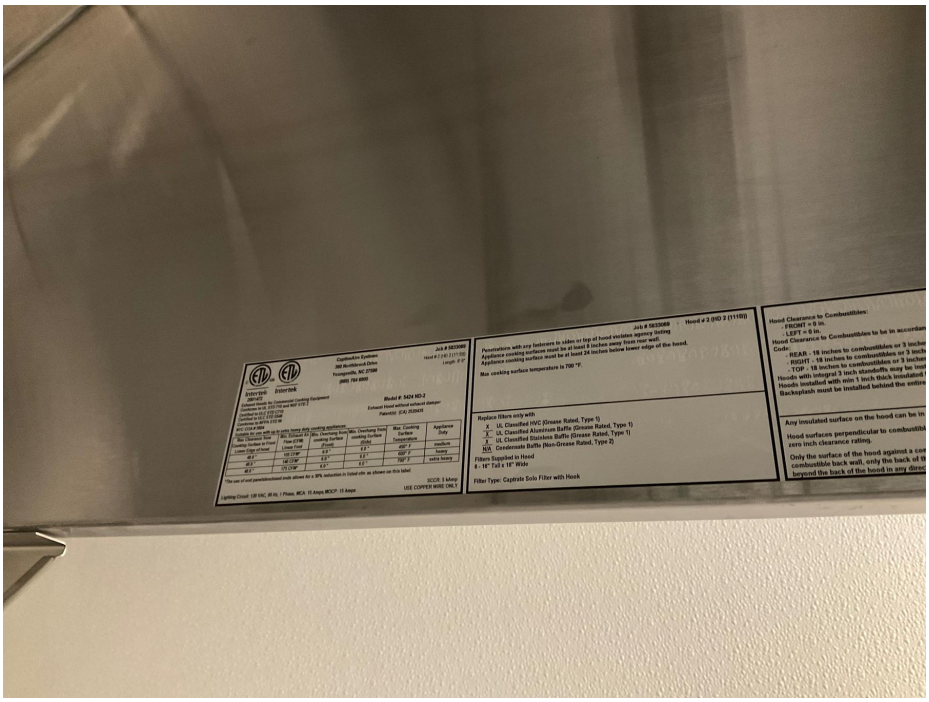
Hood 2 (HD 2 (111B)) (HD 2 (111B))

Model: 5424ND-2 **Length:** 8' 6.00"
Exhaust CFM: Design = 1572 Initial = 1342 Final = 1545 (98.3% of design)

Other Notes:

N/A

See attachment(s): [20231009101853.mp4]



Installation

Hung Using appropriate material to safely secure hood.	Design:	**Yes**	Actual:	**No**

Other Notes:

No double-nut.

COOKING EQUIPMENT ON AND OPERATING	Design:	**Yes**	Actual:	**No**
COOKING EQUIPMENT INSTALLED AS CLOSE TO BACK WALL AS POSSIBLE	Design:	**Yes**	Actual:	**Yes**
END PANELS INSTALLED CORRECTLY	Design:	**Yes**	Actual:	**Yes**
Smoke Test Performed on all Hoods? Upload Video	Design:	**Yes**	Actual:	**Yes**

Filters

Type: Captrate Solo

Filter 1 Fan: #1 - DU240HFA (KEF111AB)	Size: 16x16	Initial Velocity: 133 fpm	Final Velocity: 146 fpm	Initial CFM: 215	Final CFM: 237
Filter 2 Fan: #1 - DU240HFA (KEF111AB)	Size: 16x16	Initial Velocity: 142 fpm	Final Velocity: 173 fpm	Initial CFM: 230	Final CFM: 280
Filter 3 Fan: #1 - DU240HFA (KEF111AB)	Size: 16x16	Initial Velocity: 141 fpm	Final Velocity: 167 fpm	Initial CFM: 228	Final CFM: 271
Filter 4 Fan: #1 - DU240HFA (KEF111AB)	Size: 16x16	Initial Velocity: 151 fpm	Final Velocity: 179 fpm	Initial CFM: 245	Final CFM: 290
Filter 5 Fan: #1 - DU240HFA (KEF111AB)	Size: 16x16	Initial Velocity: 133 fpm	Final Velocity: 150 fpm	Initial CFM: 215	Final CFM: 243
Filter 6 Fan: #1 - DU240HFA (KEF111AB)	Size: 16x16	Initial Velocity: 129 fpm	Final Velocity: 138 fpm	Initial CFM: 209	Final CFM: 224

Hood Group 3

Exhaust CFM: Design = 1572 Initial = 1618 Final = 1618 (102.9% of design)

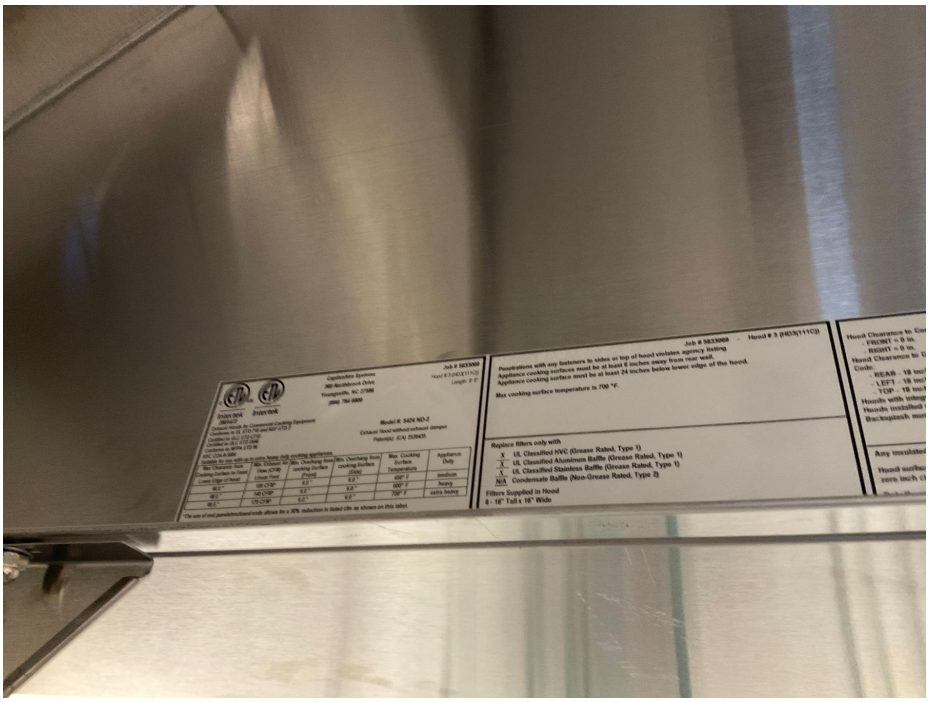
Hood 3 (HD3(111C)) (HD3(111C))

Model: 5424ND-2 **Length:** 8' 6.00"
Exhaust CFM: Design = 1572 Initial = 1618 Final = 1618 (102.9% of design)

Other Notes:

N/A

See attachment(s): [20231009101806.mp4]



Installation

Hung Using appropriate material to safely secure hood.	Design:	**Yes**	Actual:	**No**

Other Notes:

No double-nut.

COOKING EQUIPMENT ON AND OPERATING	Design:	**Yes**	Actual:	**Yes**
COOKING EQUIPMENT INSTALLED AS CLOSE TO BACK WALL AS POSSIBLE	Design:	**Yes**	Actual:	**Yes**
END PANELS INSTALLED CORRECTLY	Design:	**Yes**	Actual:	**Yes**
Smoke Test Performed on all Hoods? Upload Video	Design:	**Yes**	Actual:	**Yes**

Filters

Type: Captrate Solo

Filter 1 Size: 16x16 Fan: #2 - DU240HFA (KEF111CD)	Initial Velocity: 165 fpm	Final Velocity: 165 fpm	Initial CFM: 267	Final CFM: 267
Filter 2 Size: 16x16 Fan: #2 - DU240HFA (KEF111CD)	Initial Velocity: 155 fpm	Final Velocity: 155 fpm	Initial CFM: 251	Final CFM: 251
Filter 3 Size: 16x16 Fan: #2 - DU240HFA (KEF111CD)	Initial Velocity: 174 fpm	Final Velocity: 174 fpm	Initial CFM: 282	Final CFM: 282
Filter 4 Size: 16x16 Fan: #2 - DU240HFA (KEF111CD)	Initial Velocity: 156 fpm	Final Velocity: 156 fpm	Initial CFM: 253	Final CFM: 253
Filter 5 Size: 16x16 Fan: #2 - DU240HFA (KEF111CD)	Initial Velocity: 181 fpm	Final Velocity: 181 fpm	Initial CFM: 293	Final CFM: 293
Filter 6 Size: 16x16 Fan: #2 - DU240HFA (KEF111CD)	Initial Velocity: 168 fpm	Final Velocity: 168 fpm	Initial CFM: 272	Final CFM: 272

Hood Group 4

Exhaust CFM: Design = 1572 Initial = 1666 Final = 1666 (106.0% of design)

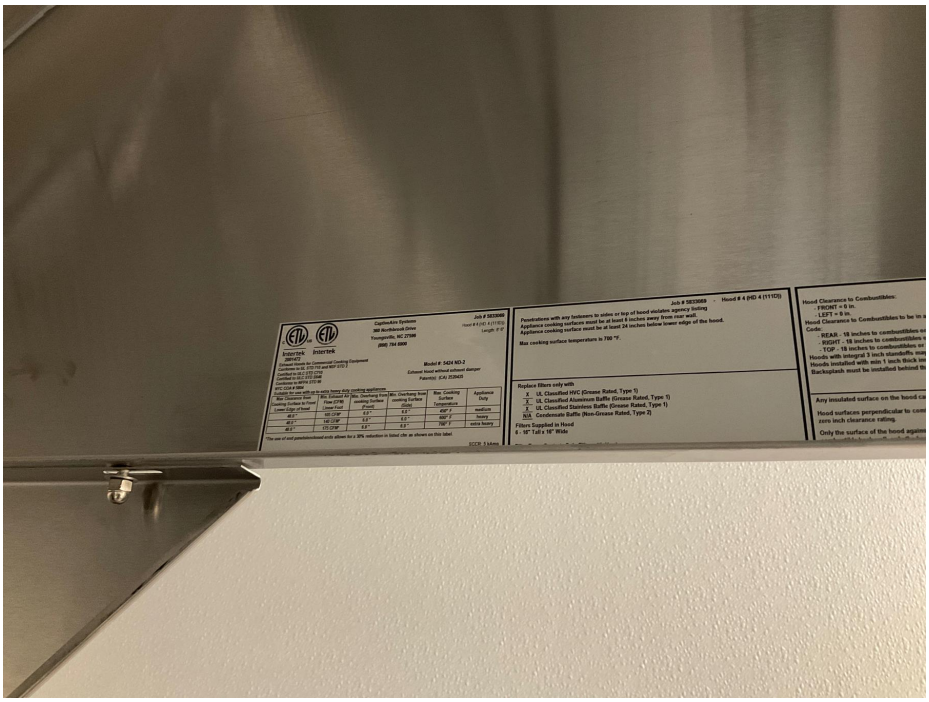
Hood 4 (HD 4 (111D)) (HD 4 (111D))

Model: 5424ND-2 **Length:** 8' 6.00"
Exhaust CFM: Design = 1572 Initial = 1666 Final = 1666 (106.0% of design)

Other Notes:

N/A

See attachment(s): [20231009101701.mp4]



Installation

Hung Using appropriate material to safely secure hood.	Design:	**Yes**	Actual:	**No**

Other Notes:

No double-nut.

COOKING EQUIPMENT ON AND OPERATING	Design:	**Yes**	Actual:	**No**
COOKING EQUIPMENT INSTALLED AS CLOSE TO BACK WALL AS POSSIBLE	Design:	**Yes**	Actual:	**Yes**
END PANELS INSTALLED CORRECTLY	Design:	**Yes**	Actual:	**Yes**
Smoke Test Performed on all Hoods? Upload Video	Design:	**Yes**	Actual:	**Yes**

Filters

Type: Captrate Solo

Filter 1 Fan: #2 - DU240HFA (KEF111CD)	Size: 16x16	Initial Velocity: 161 fpm	Final Velocity: 161 fpm	Initial CFM: 261	Final CFM: 261
Filter 2 Fan: #2 - DU240HFA (KEF111CD)	Size: 16x16	Initial Velocity: 164 fpm	Final Velocity: 164 fpm	Initial CFM: 266	Final CFM: 266
Filter 3 Fan: #2 - DU240HFA (KEF111CD)	Size: 16x16	Initial Velocity: 163 fpm	Final Velocity: 163 fpm	Initial CFM: 264	Final CFM: 264
Filter 4 Fan: #2 - DU240HFA (KEF111CD)	Size: 16x16	Initial Velocity: 190 fpm	Final Velocity: 190 fpm	Initial CFM: 308	Final CFM: 308
Filter 5 Fan: #2 - DU240HFA (KEF111CD)	Size: 16x16	Initial Velocity: 179 fpm	Final Velocity: 179 fpm	Initial CFM: 290	Final CFM: 290
Filter 6 Fan: #2 - DU240HFA (KEF111CD)	Size: 16x16	Initial Velocity: 171 fpm	Final Velocity: 171 fpm	Initial CFM: 277	Final CFM: 277

AQEs

NONE

Fans

Fan 1 - DU240HFA (KEF111AB) (KEF111AB)

Model: DU240HFA

Other Notes:

N/A

Exhaust

Exhaust CFM: Design = 3144 Actual = 3363 (107.0% of design)

Record the VFD HZ			Actual:	**63**
VOLTS	Design:	**460**	Actual:	**491**
HP	Design:	**3**	Actual:	**3**
HUB SET SCREW TIGHT	Design:	**Yes**	Actual:	**Yes**
FAN LEVEL	Design:	**Yes**	Actual:	**Yes**
ROTATION	Design:	**Correct**	Actual:	**Correct**
FAN VIBRATION	Design:	**Good**	Actual:	**Good**
RPM - DESIGN	Design:	**873**	Actual:	**924**
RPM - MAX	Design:	**1350**	Actual:	**N/A**
RPM - MAX RECOMMENDED	Design:	**1150**	Actual:	**N/A**
FLA	Design:	**4.5**	Actual:	**3.4**
OVERLOAD SET POINT		**N/A**		
PHASE	Design:	**3**	Actual:	**3**
Unit within five miles from the coast?			Actual:	**No**
HINGE KIT INSTALLED	Design:	**Yes**	Actual:	**Yes**
INSPECT ALL EXTERIOR SIDES OF UNIT. ANY VISIBLE DAMAGE	Design:	**No**	Actual:	**No**

Fan 2 - DU240HFA (KEF111CD) (KEF111CD)

Model: DU240HFA

Other Notes:

N/A

Exhaust

Exhaust CFM: Design = 3144 Actual = 3284 (104.5% of design)

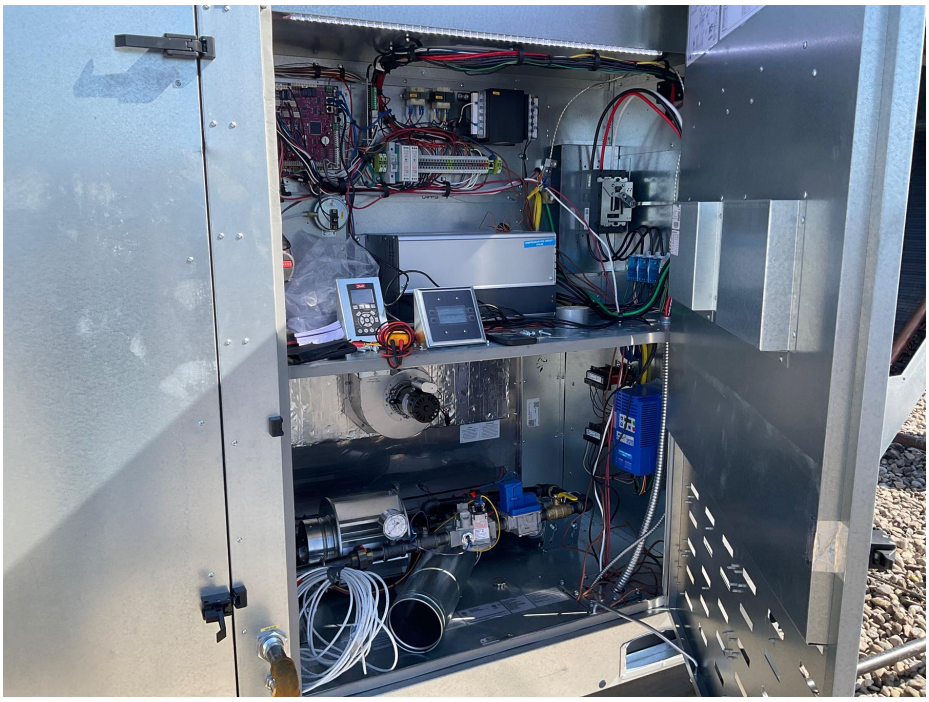
Record the VFD HZ			Actual:	**59.5**
VOLTS	Design:	**460**	Actual:	**493**
HP	Design:	**3**	Actual:	**3**
HUB SET SCREW TIGHT	Design:	**Yes**	Actual:	**No**
FAN LEVEL	Design:	**Yes**	Actual:	**Yes**
ROTATION	Design:	**Correct**	Actual:	**Correct**
FAN VIBRATION	Design:	**Good**	Actual:	**Good**
RPM - DESIGN	Design:	**873**	Actual:	**872**
RPM - MAX	Design:	**1350**	Actual:	**N/A**
RPM - MAX RECOMMENDED	Design:	**1150**	Actual:	**N/A**
FLA	Design:	**4.5**	Actual:	**3.2**
OVERLOAD SET POINT		**N/A**		
PHASE	Design:	**3**	Actual:	**3**
Unit within five miles from the coast?			Actual:	**No**
HINGE KIT INSTALLED	Design:	**Yes**	Actual:	**Yes**
INSPECT ALL EXTERIOR SIDES OF UNIT. ANY VISIBLE DAMAGE	Design:	**No**	Actual:	**No**

Fan 3 - CASRTU4-I.500-20-30T (RTU28-DOAS) (RTU28-DOAS)

Model: CASRTU4-I.500-20-30T

Other Notes:

N/A



Supply

Supply CFM: Design = 4900 Actual = 3676 (75.0% of design)

Other Notes:

Spoke to sales office about low airflows, could not increase blower speed any further due to rpm.

I was advised by sales office that 24 feet of return duct was not installed, which would explain low airflow readings. Sales office advised they would handle issue further.

VOLTS	Design:	**460**	Actual:	**491**
Is the main transformer (TR-01) tapped for the correct voltage?			Actual:	**Yes**
HP	Design:	**7.5**	Actual:	**7.5**
HUB SET SCREW TIGHT	Design:	**Yes**	Actual:	**Yes**
FAN LEVEL	Design:	**Yes**	Actual:	**Yes**
ROTATION	Design:	**Correct**	Actual:	**Correct**
FAN VIBRATION	Design:	**Good**	Actual:	**Good**
RPM - DESIGN	Design:	**1352**	Actual:	**1516**

Other Notes:

I was advised to increase blower speed over max recommended rpm by sales office but not to increase any further.

RPM - MAX	Design:	**1700**	Actual:	**N/A**
RPM - MAX RECOMMENDED	Design:	**1400**	Actual:	**N/A**
Is blower door tamper switch operational? Does blower shut down when the door is opened?	Design:	**Yes**	Actual:	**Yes**
Record the VFD HZ			Actual:	**52**
How was supply airflow measured for the T&B?			Actual:	**Flowhood**
Blower motor actual amperage at design airflow?	Design:	**Less than or equal to 9.6**	Actual:	**7.1**
Record pressure off the sampling tube of the air proving switch. For MUA Board: Note the differential pressure displayed on the HMI.			Actual:	**1.42**
Modulate the blower to the minimum speed that will be required for the application. Modulate the damper to the minimum position required for the application. Calibrate the airflow proving.	Design:	**Complete**	Actual:	**Complete**
With the blower still at minimum speed and damper at minimum position, calibrate the clogged filter switch.	Design:	**Complete**	Actual:	**Complete**
Design OA CFM at Interlock 3	Design:	**4900**	Actual:	**3300**
Damper voltage at design Interlock 3			Actual:	**6.1**
Design OA CFM at Interlock 4	Design:	**4900**	Actual:	**3300**
Damper voltage at design Interlock 4			Actual:	**6.1**
Design OA CFM at Interlock 5	Design:	**4900**	Actual:	**3300**
Damper voltage at design Interlock 5			Actual:	**6.1**
Design OA CFM at Interlock 6	Design:	**4900**	Actual:	**3300**
Damper voltage at design Interlock 6			Actual:	**10**
Design OA CFM at Interlock 7	Design:	**4900**	Actual:	**3676**
Damper voltage at design Interlock 7			Actual:	**6.1**

DOAS

Take pictures of all four sides of the unit.	Design:	**Complete**	Actual:	**Complete**

Other Notes:

N/A

Duct properly sealed to curb base and not bypassing through openings?	Design:	**Yes**	Actual:	**Yes**
Electrical input properly run through base or side?			Actual:	**Base**
Incoming gauge of wire	Design:	**4 AWG**	Actual:	**2**
Verify breaker size is appropriate for unit. Breaker size should be greater than or equal to MCA and less than or equal to MOCP. Must include picture.			Actual:	**80**

Other Notes:

N/A

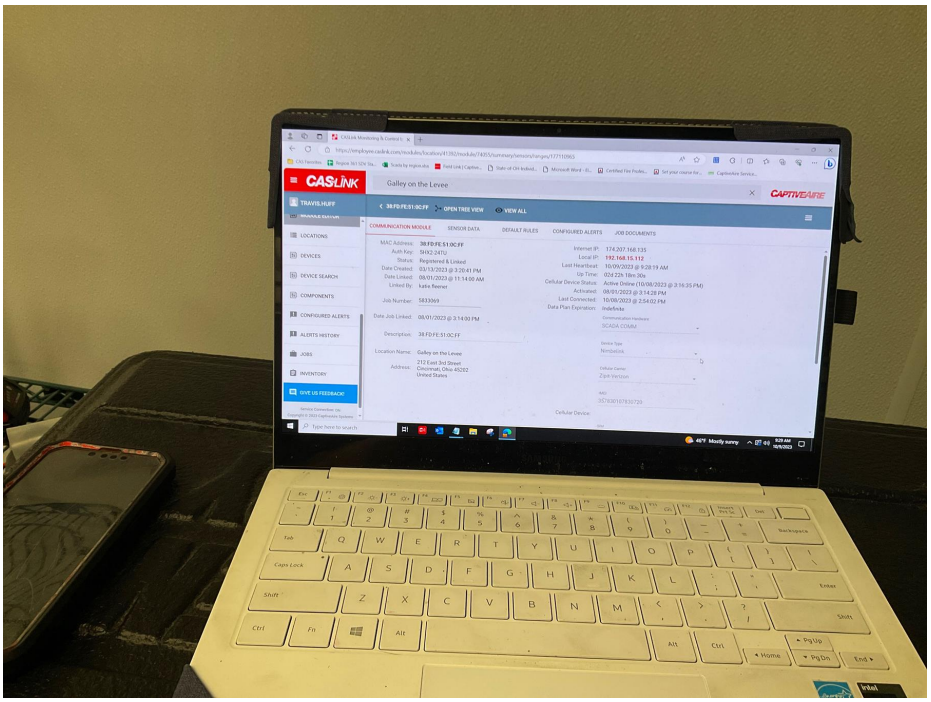
Unit within five miles from the			Actual:	**No**

coast?

Was the CAS supplied condensate drain used in the installation?	Design:	**Yes**	Actual:	**Yes**
Is condensate pan float switch free of debris and able to slide up and down?	Design:	**Yes**	Actual:	**Yes**
Is there any damage to refrigerant piping, distributor lines, or coils?	Design:	**No**	Actual:	**No**
Confirm field wiring shown on wiring diagrams are complete and check for loose connections. Correct as needed.	Design:	**Complete**	Actual:	**Complete**
Program the list of setting changes through the HMI that were obtained from DOAS@captiveaire.com.			Actual:	**Complete**
Has SCADA been registered, activated and obtained a CASLink heartbeat?	Design:	**Yes**	Actual:	**Yes**

Other Notes:

N/A



Cooling

Check status of Oil Sensor Level in HMI. Is status open or closed? Open means oil level is low. Do not operate compressor if the OLS is open.	Design:	**Closed**	Actual:	**Closed**
Test the OLS with the approved test piece. Does the OLS show Open with the test piece installed and Closed without the test piece installed?	Design:	**Yes**	Actual:	**Yes**
Measure the outside air temp and record the value.			Actual:	**60**
Verify the EEV model in settings matches the model number of the valve installed on the unit.	Design:	**Yes**	Actual:	**Yes**
Verify compressor VFD settings. Do settings match schematic?	Design:	**Yes**	Actual:	**Yes**
Place the system in evacuation mode and record the pressure at the suction service port with a gauge set.			Actual:	**180**
With the unit still in evacuation mode, record the suction pressure reading from HMI.			Actual:	**179**
Difference between the suction service port and suction pressure reading from HMI			Actual:	**1**
With the unit still in evacuation mode, record the discharge pressure reading from HMI.			Actual:	**179**
Difference between the suction service port and discharge pressure reading from HMI?			Actual:	**1**
With the unit still in evacuation mode, record the liquid pressure reading from the HMI			Actual:	**179**
Difference between suction service port and liquid pressure reading from HMI?			Actual:	**1**

Over 50F

Start a cooling test. Check refrigerant charge in accordance with Refrigerant Charge Check guide. Do the condensing fans turn on and modulate?	Design:	**Yes**	Actual:	**Yes**
Does EEV modulate to maintain 20F superheat?			Actual:	**Yes**
Does the compressor ramp up to max speed (200Hz or 330Hz depending on model) and modulate speed?	Design:	**Yes**	Actual:	**Yes**
Does the reheat valve open and modulate?	Design:	**Yes**	Actual:	**Yes**
Cooling superheat measured? (Target is 20)			Actual:	**19**
Record discharge pressure reading from HMI.			Actual:	**382**
Record liquid line pressure.			Actual:	**366**
Record liquid line temperature.			Actual:	**95**
Record subcool reading. Range should be 10F-20F.			Actual:	**15**
Record a video of the oil level according to the Viewing Oil Level guide. Upload video.			Actual:	**Complete**

Other Notes:

N/A

See attachment(s): [20231010131640.mp4]

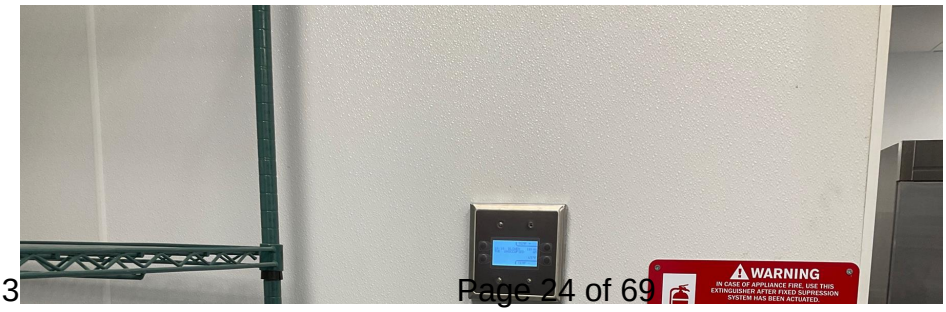
Is Oil level out of specs (<75% on the glass)?	Design:	**No**	Actual:	**Yes**

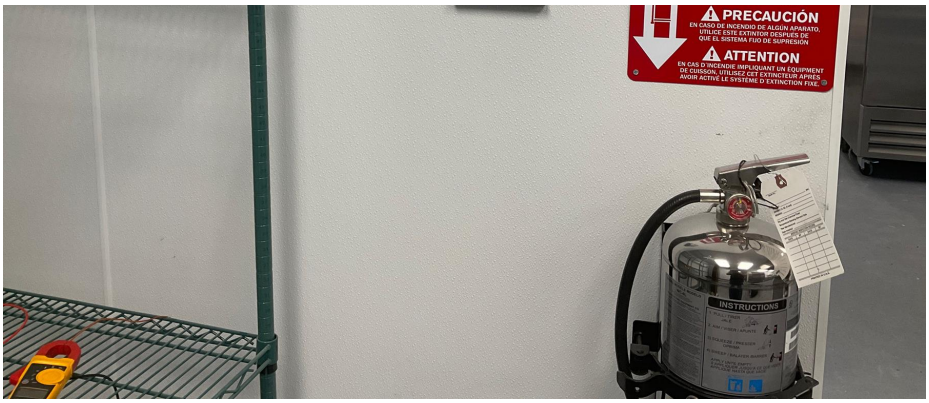
Temp Verification

Measure intake temp with meter and confirm it is within 10F of HMI readout.	Design:	**True**	Actual:	**True**
Measure return temp with meter and confirm it is within 10F of HMI readout.	Design:	**True**	Actual:	**True**
Measure evap coil temp with meter and confirm it is within 10F of HMI readout.	Design:	**True**	Actual:	**True**
Review intake humidity on HMI. Does it appear to be reporting correctly?	Design:	**Yes**	Actual:	**Yes**
Review discharge humidity on HMI. Does it appear to be reporting correctly?	Design:	**Yes**	Actual:	**Yes**
Are extra HMIs being used? Do not count the HMI in the unit. Upload picture of space HMI(s) and surrounding area.			Actual:	**Yes**

Other Notes:

N/A





Record number of extra HMI's used.	Actual:	**2**
Is HMI address 56 being used for space temperature and humidity readings?	Actual:	**Yes**
Is HMI address 57 being used for space temperature and humidity readings?	Actual:	**Yes**
Is wired space wall temp/humidity sensor (not HMI) being used?	Actual:	**Yes**

Other Notes:

N/A

Record the wired space temp reading from HMI. Make sure the wired space reading is recorded and not the average reading. (Service > Temperatures > Space Stat).			Actual:	**68**
Record the wired space RH reading from HMI. Make sure the wired space reading is recorded and not the average reading. (Service > RH > Values > Space).			Actual:	**40**
Measure space temp with a meter and confirm it is within 10F of the average space temp readout on the HMI (Service > Temperatures > Space AVG).	Design:	**True**	Actual:	**True**
Measure space RH with a meter and confirm it is within 10% of the average space temp readout on the HMI (Service > RH Values > Space AVG).			Actual:	**38**

Heater Gas - NOT AVAILABLE!

Other Notes:

Gas not ran to unit and vent not installed at time of SDV.

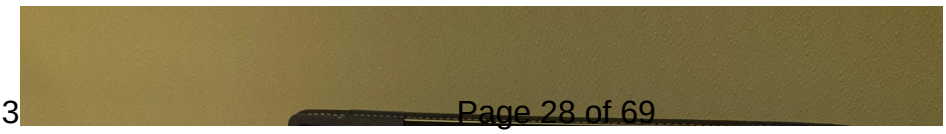
Gas Type	**N/A**
Set mod valve low fire setting using the IOM and STB20-1011. Record manifold gas pressure.	**N/A**
With unit maintaining steady state low fire, record intake temperature.	**N/A**
With the unit maintaining steady state low fire on only the first stage of heat, record the discharge temperature.	**N/A**
This answer should be auto calculated from the previous two questions. The answer will be the discharge temperature - intake temperature.	**N/A**
Set high fire pressure using test menu procedure in O&IM and record manifold gas pressure on pressure gauge.	**N/A**
Recorded Inlet Gas Pressure With Unit in high fire	**N/A**
Confirm the discharge air temp sensor is reading accurately in high fire. Reference STB20-1007 and modulate the burner to the highest capacity heat that can be achieved. Record the discharge air temp reading on the HMI.	**N/A**
With unit still holding highest capacity heat, go into space and record discharge temp at the supply diffuser closest to unit using a handheld temp probe. Record Temperature.	**N/A**
Difference between measured and actual temperature.	**N/A**

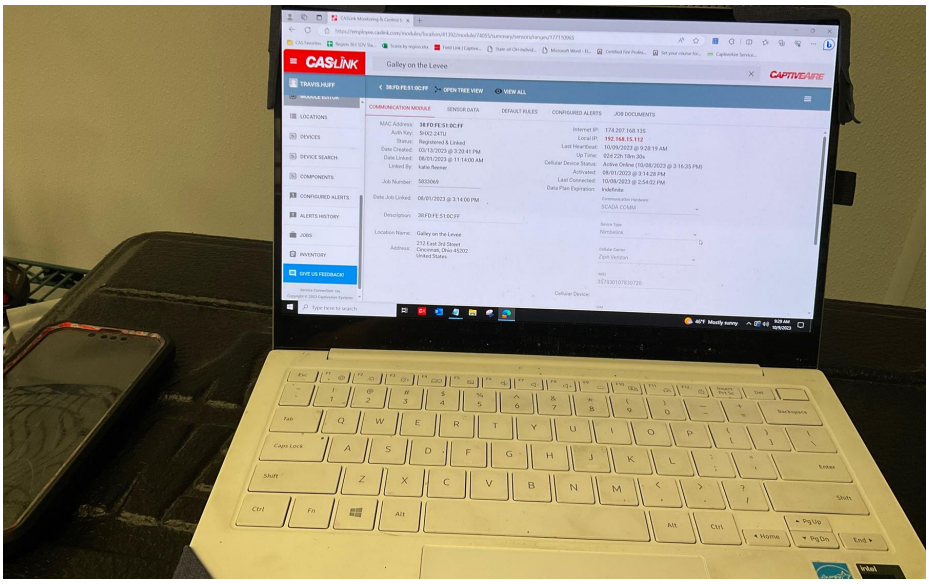
Final Checks

FINAL STEPS OF SDV. ONLY PERFORM FOLLOWING QUESTIONS IF REST OF SDV HAS BEEN COMPLETED!			Actual:	**Ok**
Is the fire alarm input (terminal F) wired and functional?		**N/A**		
Is either the wired occupied override or unit interlock being utilized and operational?			Actual:	**Occupied Override**
Once all SDV adjustments are complete, update the factory default settings through the service menu.	Design:	**Complete**	Actual:	**Complete**
Once all SDV adjustments are complete, download the CAAL file from the board, label it with the fan number, software revision and upload it to the NOLA job docs.			Actual:	**Complete**
Take picture of CASLink showing last heartbeat.			Actual:	**Complete**

Other Notes:

N/A



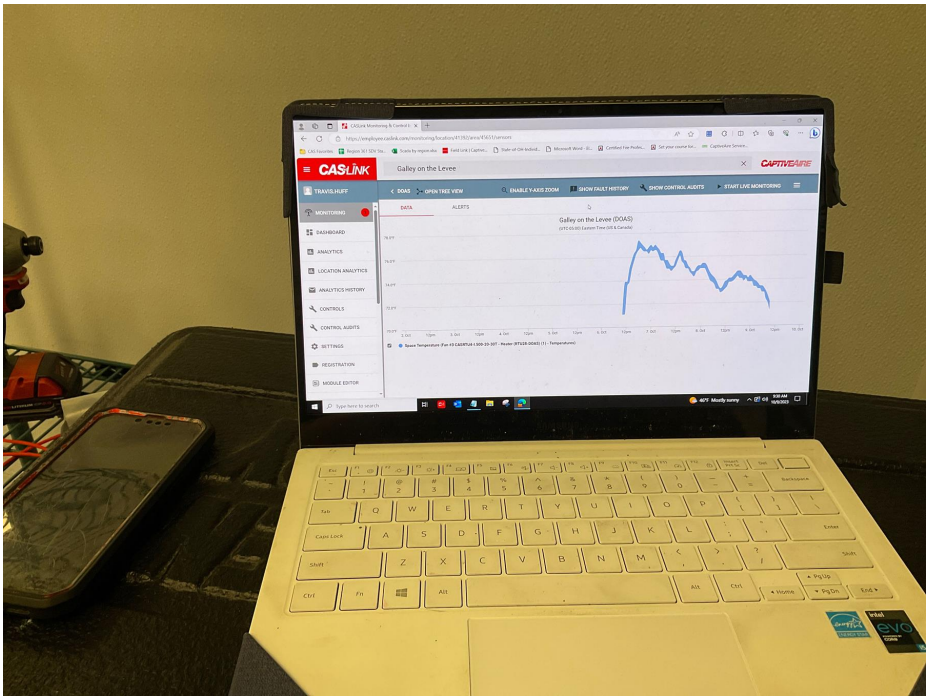


DOAS data is visible on CASLink, tagged unique from other equipment and matches field labeling — Actual: **Yes**

Take picture of CASLink showing DOAS data responding. — Actual: **Complete**

Other Notes:

N/A



All other equipment on job labeled and can see data on CASLink? — Actual: **Yes**

Has someone from DOAS_support@captiveaire.com confirmed they are seeing data on this job? — Actual: **Yes**

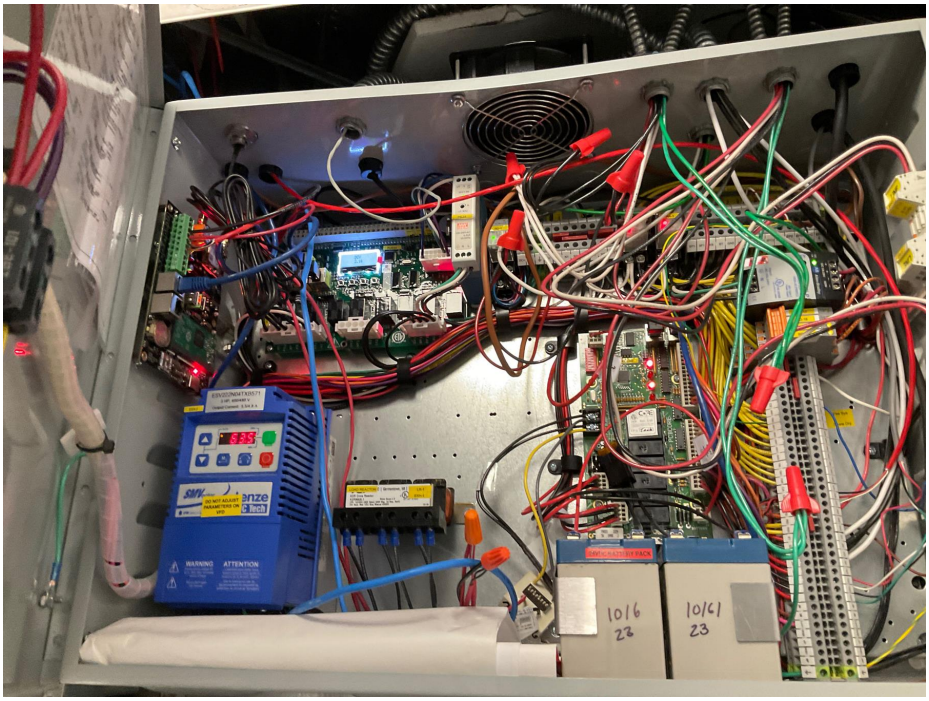
ECPs

ECP 1 - DCV-1011 (DCV111AB) (DCV111AB)

Package #: DCV-1011

Other Notes:

N/A



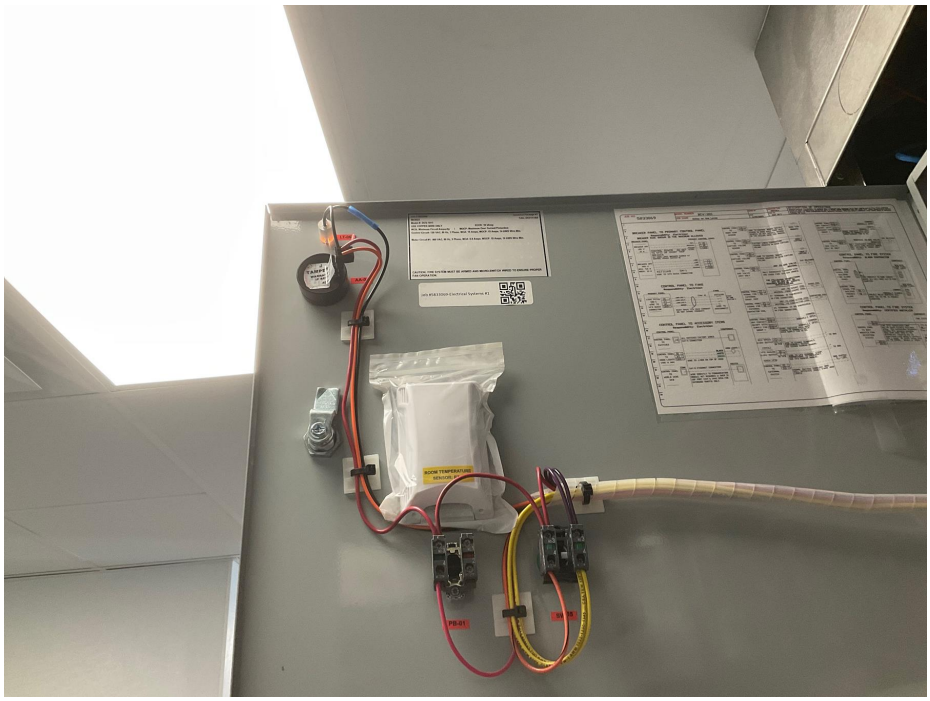
Smart Control

GAS VALVE RESET WORKS	Design:	**Yes**	Actual:	**Yes**
ROOM TEMPERATURE OFFSET	Design:	**21**	Actual:	**21**
HOW MANY FAN ZONES ARE THERE	Design:	**1**	Actual:	**1**
HYSTERESIS TEMPERATURE			Actual:	**2**
Room Sensor Type			Actual:	**Preset**
What is Preset temperature set to?			Actual:	**75**

ALL TEMP SENSORS ARE WIRED IN Design: **Yes** Actual: **No**

Other Notes:

Room temp sensor not wired, setting changed to preset.



Do any of the light circuits exceed 1400W? Design: **No** Actual: **No**

ALL LIGHTS WORK Design: **Yes** Actual: **No**

Other Notes:

No lightbulbs installed.

ALL FAULTS CLEARED	Design:	**Yes**	Actual:	**Yes**
ECPM03 HARDWARE REVISION	Design:	**04**	Actual:	**04**
ECPM03 PROGRAM VERSION	Design:	**2.16.00**	Actual:	**2.16.01**
CASHMI HARDWARE REVISION	Design:	**05**	Actual:	**05**
CASHMI PROGRAM VERSION	Design:	**2.16.00**	Actual:	**2.16.01**
ECPM03 DATE AND TIME ACCURATE	Design:	**Yes**	Actual:	**Yes**

DCV

Other Notes:

No MAU

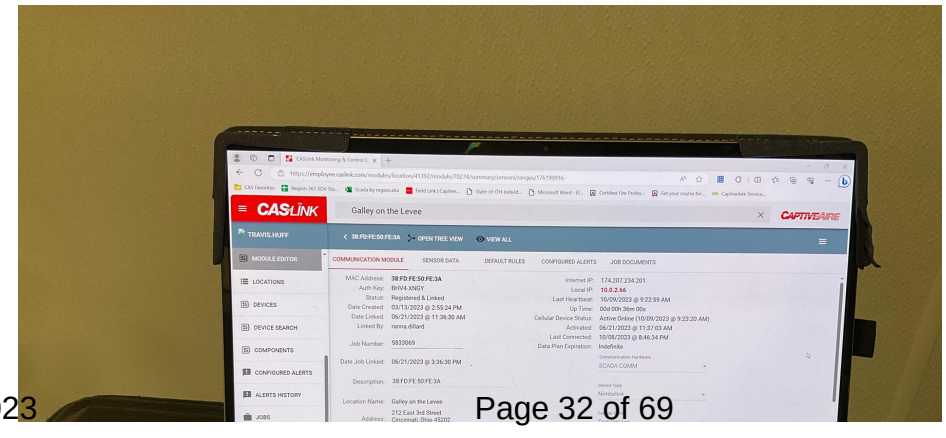
120V Line Ran from SF1 for MUA(s)	Design:	**Yes**	Actual:	**No**
Damper interlock wiring ran to MAU?	Design:	**Yes**	Actual:	**No**

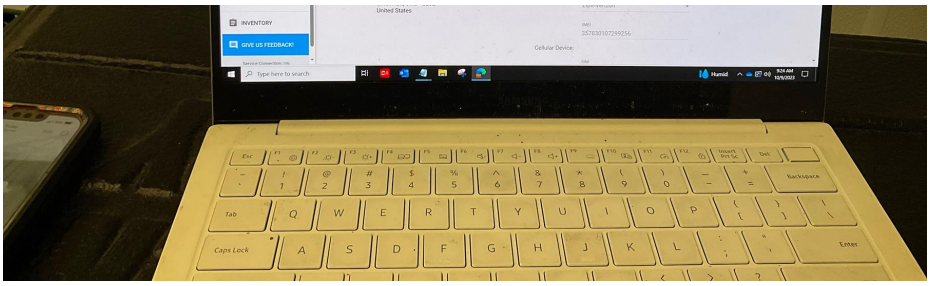
BMS & Monitoring

BMS TYPE	Design:	**CASLink**	Actual:	**CASLink**
CASLINK COMMUNICATION TYPE	Design:	**Cellular**	Actual:	**Cellular**
Cellular status is Active Online?	Design:	**Yes**	Actual:	**Yes**
CASLink Registration Wizard was completed?	Design:	**Yes**	Actual:	**Yes**
CASLink Module has a current heartbeat?	Design:	**Yes**	Actual:	**Yes**

Other Notes:

N/A

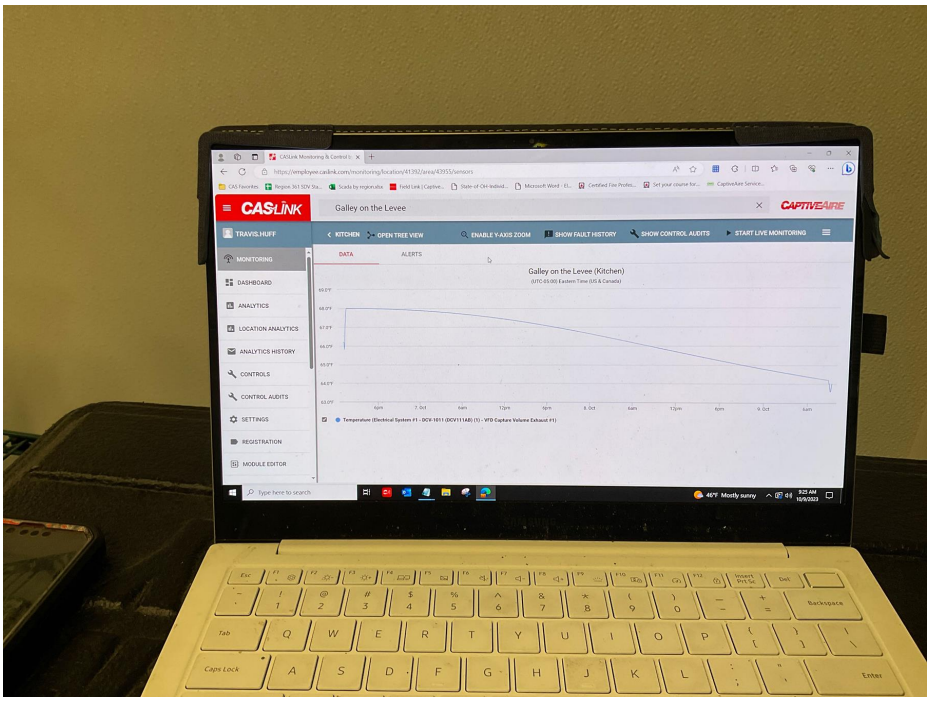




All devices connected to the SCADA are reporting live data? Design: **Yes** Actual: **Yes**

Other Notes:

N/A



Devices were assigned to an area and named appropriately? Design: **Yes** Actual: **Yes**

Sensors

T2

SENSOR TYPE	Design:	**Duct Stat**	Actual:	**Duct Stat**
SENSOR LOCATION	Design:	**H1CV1**	Actual:	**H1CV1**
FAN NUMBER	Design:	**1**	Actual:	**1**

T3

SENSOR TYPE	Design:	**Duct Stat**	Actual:	**Duct Stat**
SENSOR LOCATION	Design:	**H2CV1**	Actual:	**H2CV1**
FAN NUMBER	Design:	**1**	Actual:	**1**

VFDs

VFD 1

DESIGN CFM	Design:	**3144**	Actual:	**3363**
FAN DIRECTION	Design:	**Forward**	Actual:	**Forward**
TEMP SENSOR #s ASSIGNED	Design:	**T2, T3**	Actual:	**T2, T3**

DCV VFD

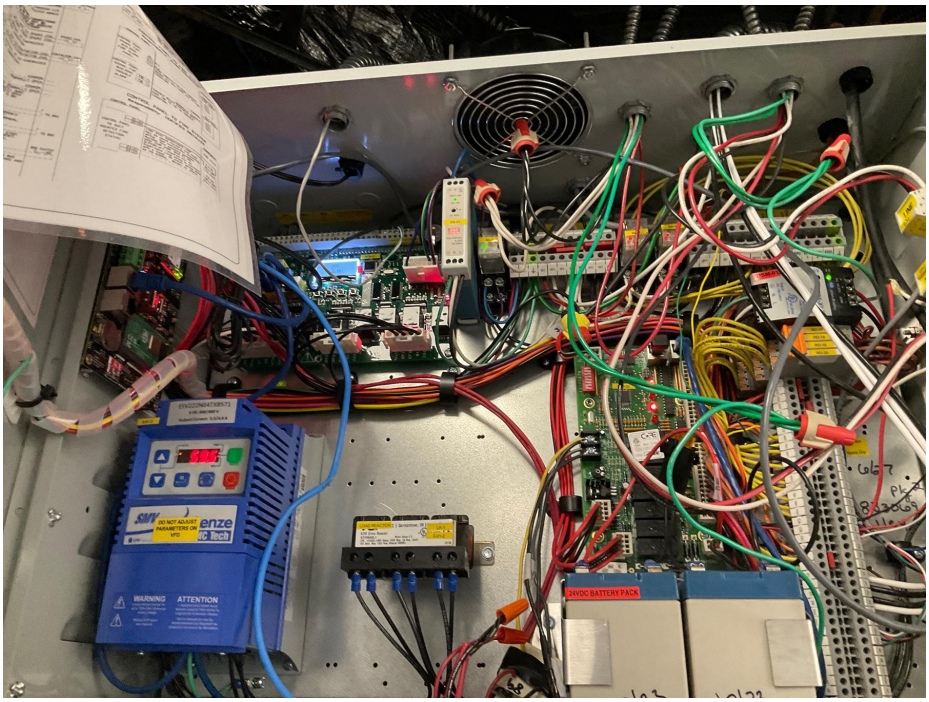
MODULATION RANGE	Design:	**45**	Actual:	**45**
OVERLOAD = P108	Design:	**93**	Actual:	**93**
MIN HZ	Design:	**47.6**	Actual:	**51.6**
MAX HZ	Design:	**59.5**	Actual:	**63.5**
ALL FAULTS CLEARED = P197	Design:	**Yes**	Actual:	**Yes**
P508			Actual:	**3.4**
LOAD IN SEPARATE CONDUIT.	Design:	**Yes**	Actual:	**Yes**

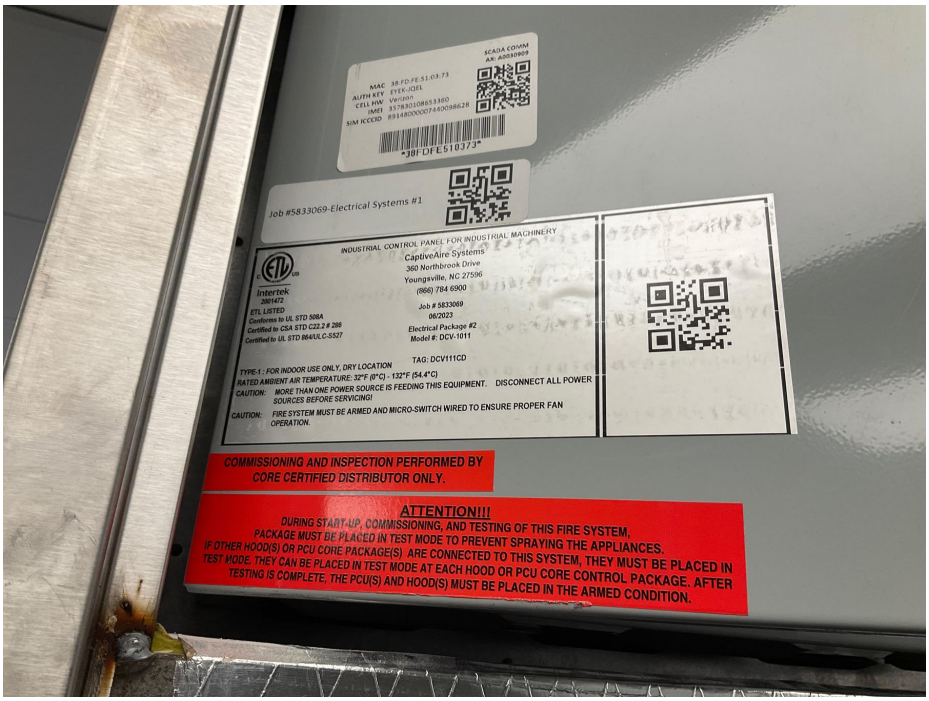
ECP 2 - DCV-1011 (DCV111CD) (DCV111CD)

Package #: DCV-1011

Other Notes:

N/A





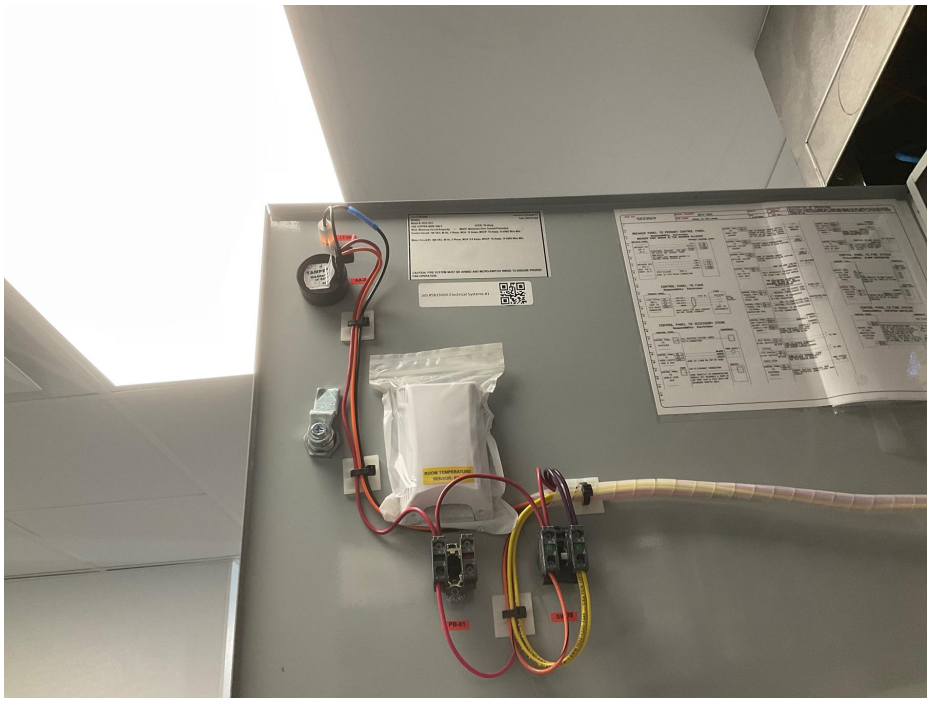
Smart Control

GAS VALVE RESET WORKS	Design:	**Yes**	Actual:	**Yes**
ROOM TEMPERATURE OFFSET	Design:	**21**	Actual:	**21**
HOW MANY FAN ZONES ARE THERE	Design:	**1**	Actual:	**1**
HYSTERESIS TEMPERATURE			Actual:	**2**
Room Sensor Type			Actual:	**Preset**
What is Preset temperature set to?			Actual:	**75**
ALL TEMP SENSORS ARE WIRED IN	Design:	**Yes**	Actual:	**No**

Other Notes:

Other Notes:

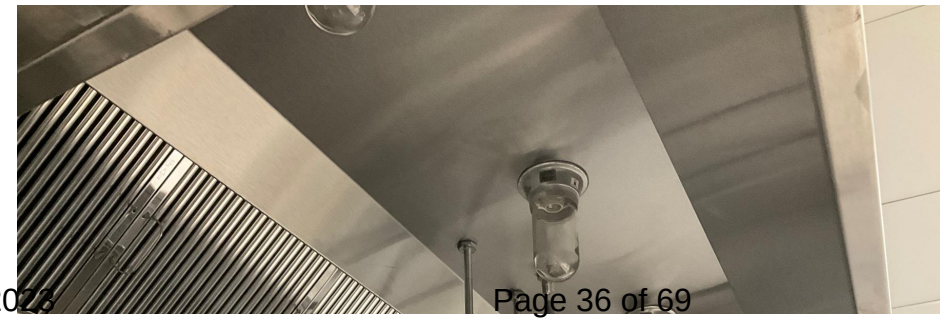
Room temp sensor not wired, setting changed to preset.



Do any of the light circuits exceed 1400W?	Design:	**No**	Actual:	**No**
ALL LIGHTS WORK	Design:	**Yes**	Actual:	**No**

Other Notes:

No lightbulbs installed.



ALL FAULTS CLEARED	Design:	**Yes**	Actual:	**Yes**
ECPM03 HARDWARE REVISION	Design:	**04**	Actual:	**04**
ECPM03 PROGRAM VERSION	Design:	**2.16.00**	Actual:	**2.16.01**
CASHMI HARDWARE REVISION	Design:	**03**	Actual:	**03**
CASHMI PROGRAM VERSION	Design:	**2.16.00**	Actual:	**2.16.01**
ECPM03 DATE AND TIME ACCURATE	Design:	**Yes**	Actual:	**Yes**

DCV

Other Notes:

No MAU.

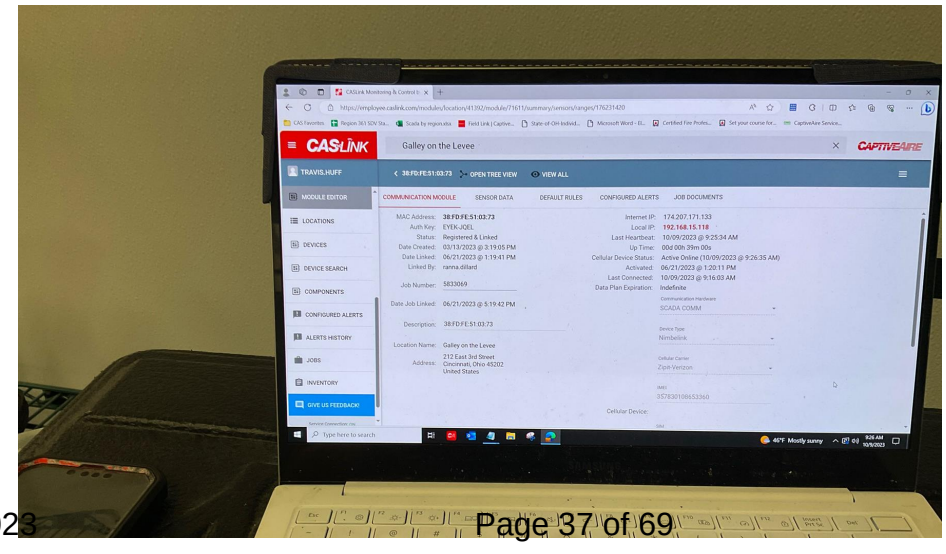
120V Line Ran from SF1 for MUA(s)	Design:	**Yes**	Actual:	**No**
Damper interlock wiring ran to MAU?	Design:	**Yes**	Actual:	**No**

BMS & Monitoring

BMS TYPE	Design:	**CASLink**	Actual:	**CASLink**
CASLINK COMMUNICATION TYPE	Design:	**Cellular**	Actual:	**Cellular**
Cellular status is Active Online?	Design:	**Yes**	Actual:	**Yes**
CASLink Registration Wizard was completed?	Design:	**Yes**	Actual:	**Yes**
CASLink Module has a current heartbeat?	Design:	**Yes**	Actual:	**Yes**

Other Notes:

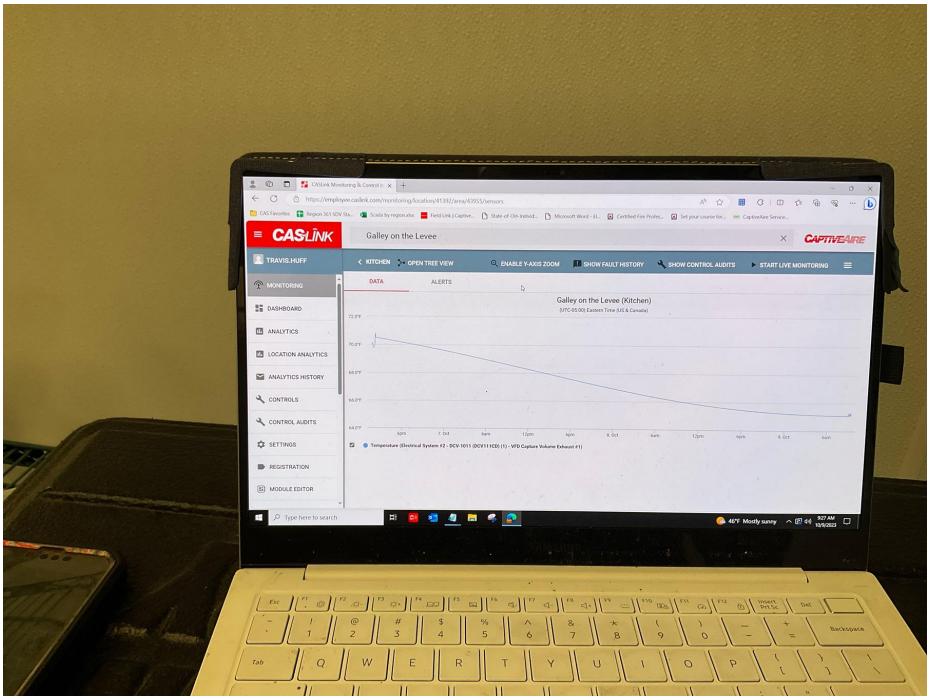
N/A



All devices connected to the SCADA are reporting live data? Design: **Yes** Actual: **Yes**

Other Notes:

N/A



Devices were assigned to an area and named appropriately? Design: **Yes** Actual: **Yes**

Sensors

T2

SENSOR TYPE	Design:	**Duct Stat**	Actual:	**Duct Stat**
SENSOR LOCATION	Design:	**H3CV1**	Actual:	**H3CV1**
FAN NUMBER	Design:	**2**	Actual:	**2**

T3

SENSOR TYPE	Design:	**Duct Stat**	Actual:	**Duct Stat**
SENSOR LOCATION	Design:	**H4CV1**	Actual:	**H4CV1**
FAN NUMBER	Design:	**2**	Actual:	**2**

VFDs

VFD 1

DESIGN CFM	Design:	**3144**	Actual:	**3284**
FAN DIRECTION	Design:	**Forward**	Actual:	**Forward**
TEMP SENSOR #s ASSIGNED	Design:	**T2, T3**	Actual:	**T2, T3**

DCV VFD

MODULATION RANGE	Design:	**45**	Actual:	**45**
OVERLOAD = P108	Design:	**93**	Actual:	**93**
MIN HZ	Design:	**47.6**	Actual:	**47.6**
MAX HZ	Design:	**59.5**	Actual:	**59.5**
ALL FAULTS CLEARED = P197	Design:	**Yes**	Actual:	**Yes**
P508			Actual:	**3.2**
LOAD IN SEPARATE CONDUIT.	Design:	**Yes**	Actual:	**Yes**

TANK

TANK ECP 1 (DCV111AB)

Location : Hood #1 5424ND-2: Fire Cabinet on the Right Side [4.0/4.0]

Other Notes:

N/A

Building Alarm Tied In	Design:	**Yes**	Actual:	**Yes**
Trouble Relay Tied In	Design:	**Yes**	Actual:	**No**
TANK Board Version	Design:	**N/A**	Actual:	**1.9**
TANK Board Updated to latest Software Version			Actual:	**Yes**
TANK Board Software Version	Design:	**N/A**	Actual:	**1.69**
Internet Connection Type			Actual:	**Cellular**

TANK Fire Suppression 1 (TANK (111))

Location : Hood #1 - Utility Cabinet Right

Electrician

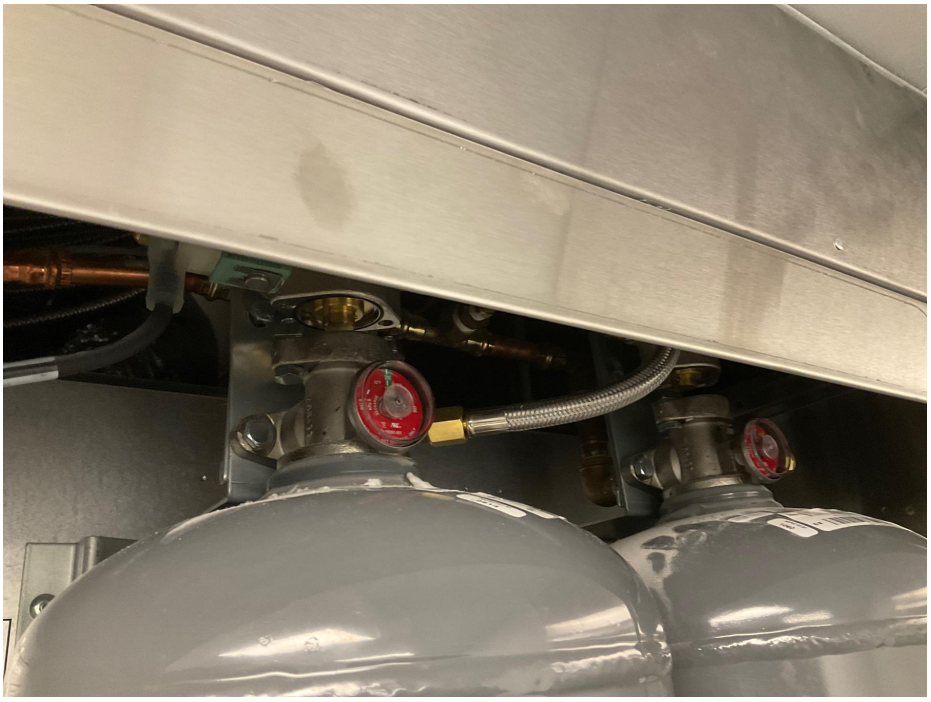
TANK Control Panel Wired	Design:	**Yes**	Actual:	**Yes**
UDS Appliance Kill Switch (if equipped) Wired		**N/A**		

Fire System Contractor w/CAS Supervision

Verify kitchen line up with drawings in NOLA?			Actual:	**Correct**
Actuator is in Shipped position with shipping plates mounted upon arrival? Upload Picture.	Design:	**Yes**	Actual:	**Yes**

Other Notes:

N/A



Gas Valve Wired (In Conduit)	Design:	**Yes**	Actual:	**No**

Other Notes:

Gas valve not installed at time of SDV. Tested for 120V when energized and 0V when in fire condition.

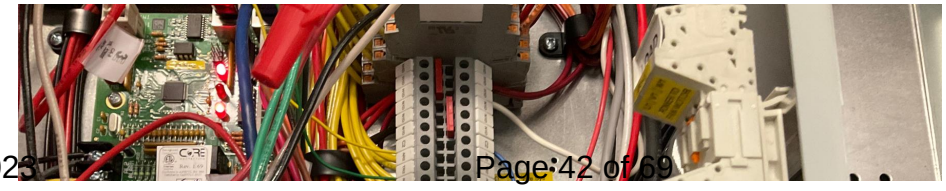
Are all overlapping nozzles within 35-50" of cooking surface?	Design:	**Yes**	Actual:	**Yes**
Nozzles Within 15" From Front/Back of Hazard Zone	Design:	**Yes**	Actual:	**Yes**
Verify overlapping nozzles are located at centerline of the 30" hazard zone (front to back) same height, aimed straight down?	Design:	**Yes**	Actual:	**Yes**
Is there a Salamander or Upright Broiler Present?	Design:	**Yes**	Actual:	**Yes**
Does Salamander or Upright Broiler (cooking surface exceed > 1050 sq/in)?	Design:	**No**	Actual:	**No**
Interior Nozzle Facing Back Opposite End of Appliance (For Upright Broiler/Salamander)	Design:	**Yes**	Actual:	**Yes**
Does the depth of any appliance cooking surface exceed the listed size in the Appliance Coverage Detail chart?	Design:	**No**	Actual:	**No**
All dedicated appliances, duct and plenum are utilizing TANK [illegible] Nozzles (3070-3/8H-10-[illegible]	Design:	**Yes**	Actual:	**Yes**

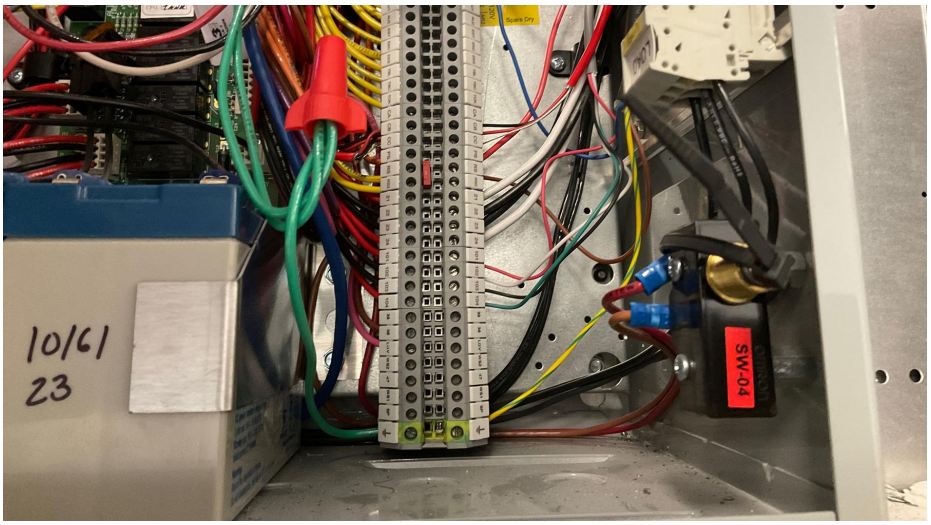
SS)?

Is end plenum nozzle installed 0-6" into plenum (From end of hood/hazard to center of nozzle)?	Design:	**Yes**	Actual:	**Yes**
Are TANK appliance nozzles spaced no more than 12"(From end of Hazard zone to center of first nozzle and end of hazard zone to center of last nozzle)?	Design:	**Yes**	Actual:	**Yes**
Did the appliance lineup change from the original design?	Design:	**No**	Actual:	**No**
Did the fire system appliance drops change from the original design?	Design:	**No**	Actual:	**No**
Does Fire System cover a Wok?			Actual:	**No**
Does dedicated TANK appliance nozzle piping exceed maximum pipe length of 10 ft?	Design:	**No**	Actual:	**No**
Does plenum branch piping exceed maximum pipe length of 3ft?	Design:	**No**	Actual:	**No**
Does the Supply line piping to first overlapping nozzle exceed 42 ft?	Design:	**No**	Actual:	**No**
Is Back-shelf a minimum of 18" Vertically off Appliance	Design:	**Yes**	Actual:	**Yes**
Back-shelf Overhang less than 12"	Design:	**Yes**	Actual:	**Yes**
No appliance drop has more than 2 nozzles?	Design:	**True**	Actual:	**True**
Is all piping except appliance drops 3/8" Blackiron, Chrome plated, Stainless Steel or 1/2" Copper?	Design:	**Yes**	Actual:	**Yes**
Is all appliance drop piping 3/8" polished stainless steel or polished chrome-plated black iron?			Actual:	**Yes**
Are there any fryers?			Actual:	**Yes**
How many fryers are there?			Actual:	**2**
Enter Width of Fryer 1:			Actual:	**20**
Does Fryer 1 have 30” coverage?	Design:	**Yes**	Actual:	**Yes**
Enter Width of Fryer 2:			Actual:	**20**
Does Fryer 2 have 30” coverage?	Design:	**Yes**	Actual:	**Yes**
Are there any Tilt Skillets?			Actual:	**No**
Is Manual Activation Device Wired into a Fire Loop (Must be 4 wire, in conduit)? Upload a picture of wiring connection of manual activation device.	Design:	**Yes**	Actual:	**Yes**

Other Notes:

N/A





MAD Installed 10'-20' from Hood at a Point of Egress and 42"-48" AFF	Design:	**Yes**	Actual:	**Yes**
CORE Interlock Wired (If multiple systems present)	Design:	**Yes**	Actual:	**Yes**
Extra Fire Stat Added		**N/A**		
Fire stats are wired in a fire loop with 842 degree high temp wire when ran on top of hoods	Design:	**Yes**	Actual:	**Yes**
CAS Service Supervised, Assisted or Wired All Supervised Loop Connections			Actual:	**Supervised**
Ensure each FS Nozzle match actual Fire system drawings?	Design:	**Yes**	Actual:	**Yes**

CAS Service

Verify the correct Fire Stat is installed?			Actual:	**360**
Have all shipping covers been removed from fire stats	Design:	**Yes**	Actual:	**Yes**
System Activates on 120V power only	Design:	**Yes**	Actual:	**Yes**
Test System. Ensure balloons are installed on all nozzles before activating system.			Actual:	**Ok**
Activate system by Manual Activation device. Did system activate and all balloons fill and/or hold pressure properly?	Design:	**Yes**	Actual:	**Yes**
Activate system by all Fire Stats. Did system activate and all balloons fill and/or hold pressure properly?	Design:	**Yes**	Actual:	**Yes**
Activate system on Battery Backup (Remove CORE board power and place system in Test Mode). Did system activate properly?	Design:	**Yes**	Actual:	**Yes**
Did the Audible Alarm Sound during each Test of the system?	Design:	**Yes**	Actual:	**Yes**
Gas Valve is Functioning Properly	Design:	**Yes**	Actual:	**Yes**

Other Notes:

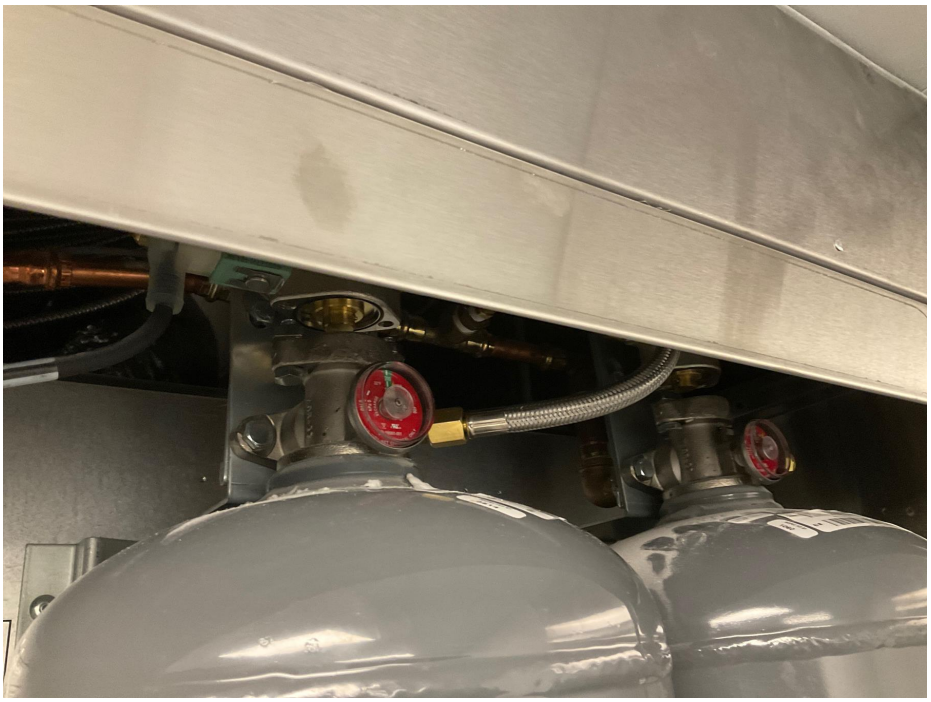
Gas valve not installed at time of SDV. Tested for 120V when energized and 0V when in fire condition.

Battery Date Code (The actual date FST wrote on batteries with paint pen during SDV)			Actual:	**10/6/2023 4:00:00 AM**
[illegible]	Design:	Yes	Actual:	Yes

Verify the correct amount of TANK appliance nozzles cover the cross-sectional Perimeter or Diameter of the Duct Riser? (If 0 - 75" perimeter equals 1 nozzles, 75 - 150" 2 nozzles, above 150" 3 nozzles)	Design:	**Yes**	Actual:	**Yes**
Is the system commissioned with the actuator bolted onto the TANK Fire Suppression system tank? Upload Picture.	Design:	**Yes**	Actual:	**No**

Other Notes:

N/A



Is pressure switch installed and functioning properly?	Design:	**Yes**	Actual:	**Yes**
Monitor the presssure gauge on the PAK. The pressure must not read above 0.5 psi for a minimum of 15 minutes.	Design:	**N/A**	Actual:	**Complete**
CAUTION!: If pressure reads above 0.5 psi, immediately remove the primary actuator hose from the primary tank			Actual:	**Ok**
Is appliance specific protection piped with adequate protection? Upload picture.	Design:	**Yes**	Actual:	**Yes**

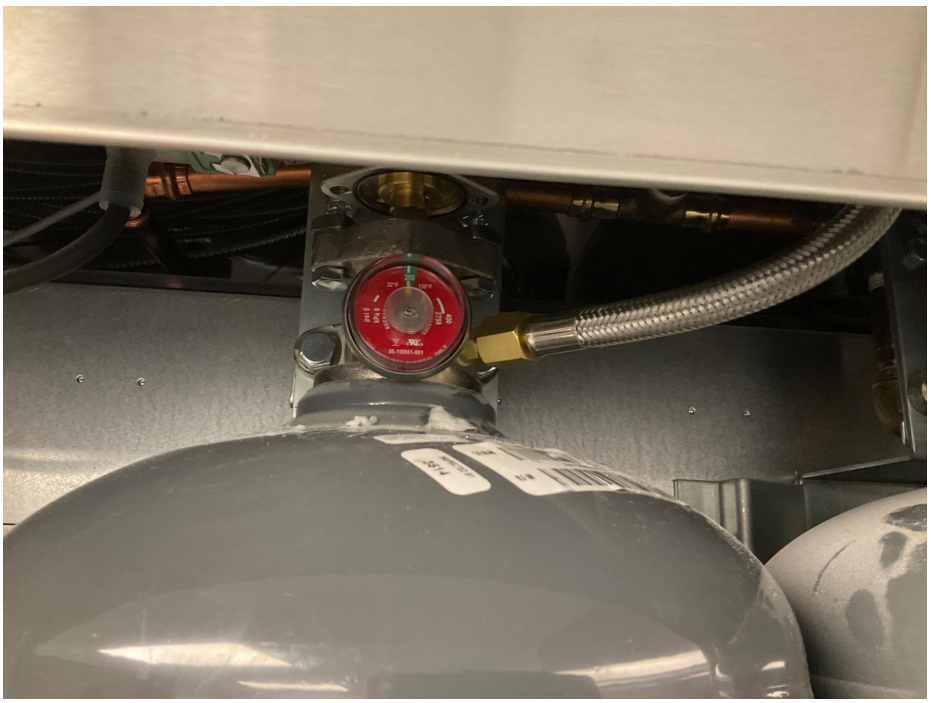
Other Notes:

N/A

Use coil liquid leak detector around PAK and braided hose to check for leaks. Are there any leaks present?	Design:	**No**	Actual:	**No**
Do TANK bottles have 200 PSI with gauges functioning properly? Upload picture	Design:	**Yes**	Actual:	**Yes**

Other Notes:

N/A



Do all nozzles have metal caps?	Design:	**Yes**	Actual:	**Yes**

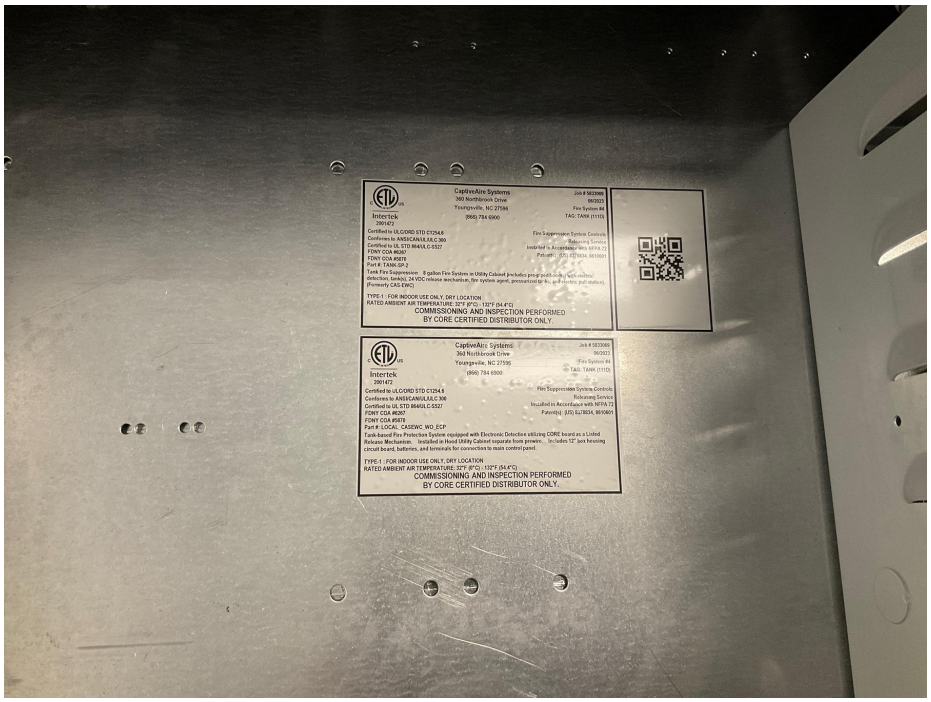
Verify Nozzle Flow Points/Tank Capabilities. Does Nozzles FP exceed Tank Capacity?	Design:	**No**	Actual:	**No**
Take a photo of Fire System Tag			Actual:	**Ok**
Tanks installed securely with straps and mounting hardware?	Design:	**Yes**	Actual:	**Yes**
After inspection of system, lubricate and change O-ring of primary actuator hose (p/n 19020).	Design:	**Replaced**	Actual:	**Replaced**
All Faults Are Cleared	Design:	**Yes**	Actual:	**Yes**
Are DIP switches set correctly according to number of Fire Groups?	Design:	**Yes**	Actual:	**Yes**
Is TANK system located/mounted in a climate-controlled area?	Design:	**Yes**	Actual:	**Yes**

TANK Fire Suppression 2 (TANK (111B))

Location : Hood #2 - Utility Cabinet Left

Other Notes:

N/A



Electrician

TANK Control Panel Wired	Design:	**Yes**	Actual:	**Yes**
UDS Appliance Kill Switch (if equipped) Wired		**N/A**		

Fire System Contractor w/CAS Supervision

Verify kitchen line up with drawings in NOLA?			Actual:	**Correct**
Actuator is in Shipped position with shipping plates mounted upon arrival? Upload Picture.	Design:	**Yes**	Actual:	**Yes**

Other Notes:

N/A

Gas Valve Wired (In Conduit)	Design:	**Yes**	Actual:	**No**

Other Notes:

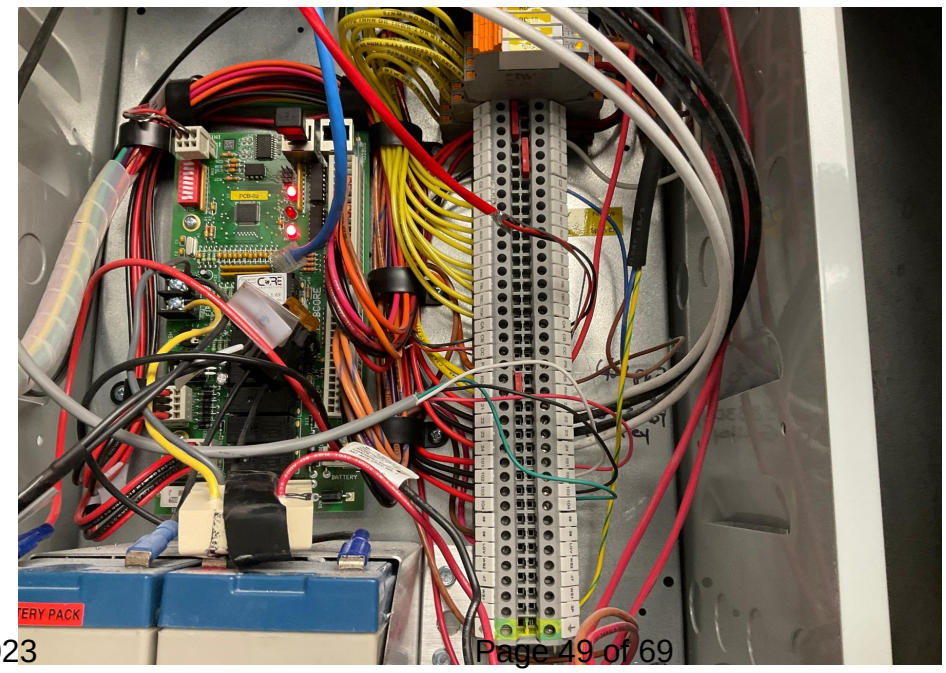
Gas valve not installed at time of SDV. Tested for 120V when energized and 0V when in fire condition.

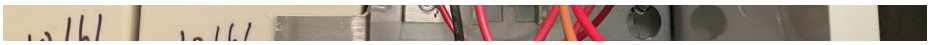
Are all overlapping nozzles within 35-50" of cooking surface?	Design:	**Yes**	Actual:	**Yes**
Nozzles Within 15" From Front/Back of Hazard Zone	Design:	**Yes**	Actual:	**Yes**
Verify overlapping nozzles are located at centerline of the 30" hazard zone (front to back) same height, aimed straight down?	Design:	**Yes**	Actual:	**Yes**
Is there a Salamander or Upright Broiler Present?	Design:	**Yes**	Actual:	**Yes**
Does Salamander or Upright Broiler (cooking surface exceed > 1050 sq/in)?	Design:	**No**	Actual:	**No**
Interior Nozzle Facing Back Opposite End of Appliance (For Upright Broiler/Salamander)	Design:	**Yes**	Actual:	**Yes**
Does the depth of any appliance cooking surface exceed the listed size in the Appliance Coverage Detail chart?	Design:	**No**	Actual:	**No**
All dedicated appliances, duct and plenum are utilizing TANK appliance nozzles (3070-3/8H-10-SS)?	Design:	**Yes**	Actual:	**Yes**
Is end plenum nozzle installed 0-6" into plenum (From end of hood/hazard to center of nozzle)?	Design:	**Yes**	Actual:	**Yes**
Are TANK appliance nozzles spaced no more than 12"(From end of Hazard zone to center of first nozzle and end of hazard zone to center of last nozzle)?	Design:	**Yes**	Actual:	**Yes**
Did the appliance lineup change from the original design?	Design:	**No**	Actual:	**No**
Did the fire system appliance drops change from the original design?	Design:	**No**	Actual:	**No**
Does Fire System cover a Wok?			Actual:	**No**

Does dedicated TANK appliance nozzle piping exceed maximum pipe length of 10 ft?	Design:	**No**	Actual:	**No**
Does plenum branch piping exceed maximum pipe length of 3ft?	Design:	**No**	Actual:	**No**
Does the Supply line piping to first overlapping nozzle exceed 42 ft?	Design:	**No**	Actual:	**No**
Is Back-shelf a minimum of 18" Vertically off Appliance	Design:	**Yes**	Actual:	**Yes**
Back-shelf Overhang less than 12"	Design:	**Yes**	Actual:	**Yes**
No appliance drop has more than 2 nozzles?	Design:	**True**	Actual:	**True**
Is all piping except appliance drops 3/8" Blackiron, Chrome plated, Stainless Steel or 1/2" Copper?	Design:	**Yes**	Actual:	**Yes**
Is all appliance drop piping 3/8" polished stainless steel or polished chrome-plated black iron?			Actual:	**Yes**
Are there any fryers?			Actual:	**Yes**
How many fryers are there?			Actual:	**1**
Enter Width of Fryer 1:			Actual:	**20**
Does Fryer 1 have 30” coverage?	Design:	**Yes**	Actual:	**Yes**
Does Fryer 2 have 30” coverage?	Design:	**Yes**	Actual:	**Yes**
Are there any Tilt Skillets?			Actual:	**No**
Is Manual Activation Device Wired into a Fire Loop (Must be 4 wire, in conduit)? Upload a picture of wiring connection of manual activation device.	Design:	**Yes**	Actual:	**Yes**

Other Notes:

N/A





MAD Installed 10'-20' from Hood at a Point of Egress and 42"-48" AFF	Design:	**Yes**	Actual:	**Yes**
CORE Interlock Wired (If multiple systems present)	Design:	**Yes**	Actual:	**Yes**
Extra Fire Stat Added		**N/A**		
Fire stats are wired in a fire loop with 842 degree high temp wire when ran on top of hoods	Design:	**Yes**	Actual:	**Yes**
CAS Service Supervised, Assisted or Wired All Supervised Loop Connections			Actual:	**Supervised**
Ensure each FS Nozzle match actual Fire system drawings?	Design:	**Yes**	Actual:	**Yes**

CAS Service

Verify the correct Fire Stat is installed?			Actual:	**360**
Have all shipping covers been removed from fire stats	Design:	**Yes**	Actual:	**Yes**
System Activates on 120V power only	Design:	**Yes**	Actual:	**Yes**
Test System. Ensure balloons are installed on all nozzles before activating system.			Actual:	**Ok**
Activate system by Manual Activation device. Did system activate and all balloons fill and/or hold pressure properly?	Design:	**Yes**	Actual:	**Yes**
Activate system by all Fire Stats. Did system activate and all balloons fill and/or hold pressure properly?	Design:	**Yes**	Actual:	**Yes**
Activate system on Battery Backup (Remove CORE board power and place system in Test Mode). Did system activate properly?	Design:	**Yes**	Actual:	**Yes**
Did the Audible Alarm Sound during each Test of the system?	Design:	**Yes**	Actual:	**Yes**
Gas Valve is Functioning Properly	Design:	**Yes**	Actual:	**Yes**

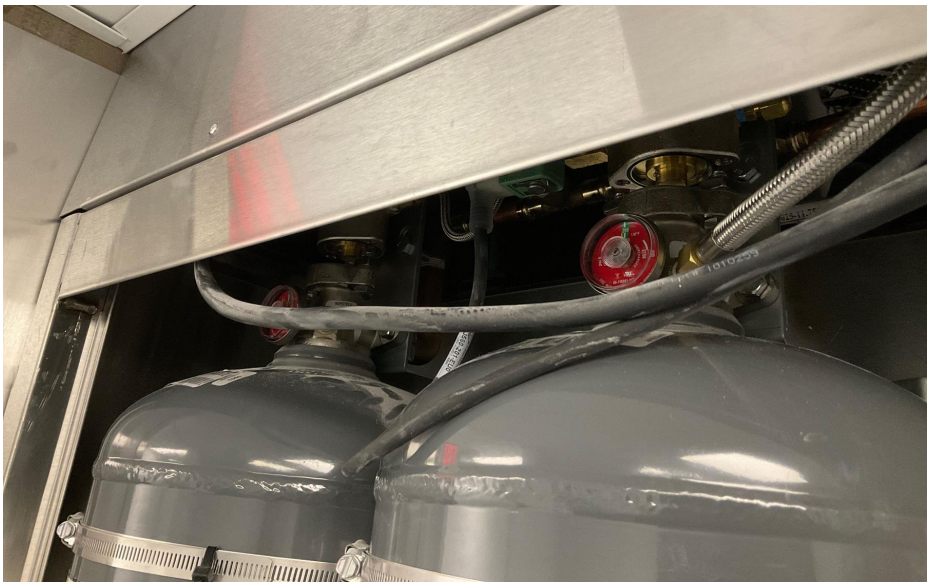
Other Notes:

Gas valve not installed at time of SDV. Tested for 120V when energized and 0V when in fire condition.

Battery Date Code (The actual date FST wrote on batteries with paint pen during SDV)			Actual:	**10/6/2023 4:00:00 AM**
Verify the correct amount of TANK appliance nozzles cover the cross-sectional Perimeter or Diameter of the Duct Riser? (If 0 - 75" perimeter equals 1 nozzles, 75 - 150" 2 nozzles, above 150" 3 nozzles)	Design:	**Yes**	Actual:	**Yes**
Is the system commissioned with the actuator bolted onto the TANK Fire Suppression system tank? Upload Picture.	Design:	**Yes**	Actual:	**No**

Other Notes:

N/A



Is pressure switch installed and functioning properly?	Design:	**Yes**	Actual:	**Yes**
Monitor the presssure gauge on the PAK. The pressure must not read above 0.5 psi for a minimum of 15 minutes.	Design:	**N/A**	Actual:	**Complete**
CAUTION!: If pressure reads above 0.5 psi, immediately remove the primary actuator hose from the primary tank			Actual:	**Ok**
Is appliance specific protection piped with adequate protection? Upload picture.	Design:	**Yes**	Actual:	**Yes**

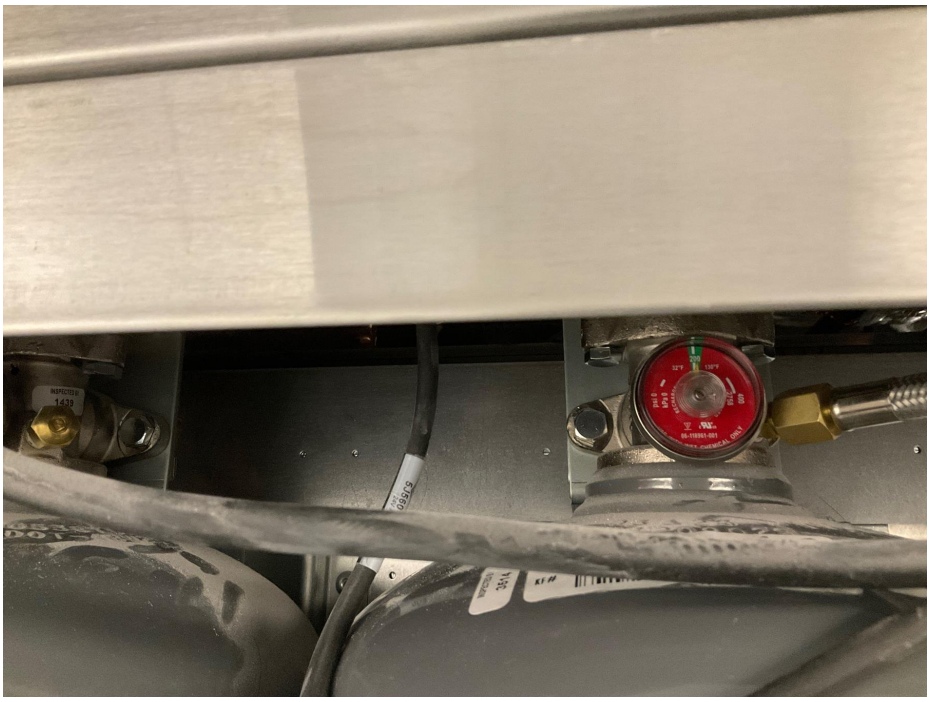
Other Notes:

N/A

Use coil liquid leak detector around PAK and braided hose to check for leaks. Are there any leaks present?	Design:	**No**	Actual:	**No**
Do TANK bottles have 200 PSI with gauges functioning properly? Upload picture	Design:	**Yes**	Actual:	**Yes**

Other Notes:

N/A



Do all nozzles have metal caps?	Design:	**Yes**	Actual:	**Yes**
Verify Nozzle Flow Points/Tank Capabilities. Does Nozzles FP exceed Tank Capacity?	Design:	**No**	Actual:	**No**
Take a photo of Fire System Tag			Actual:	**Ok**
Tanks installed securely with straps and mounting hardware?	Design:	**Yes**	Actual:	**Yes**
After inspection of system, lubricate and change O-ring of primary actuator hose (p/n 19020).	Design:	**Replaced**	Actual:	**Replaced**
All Faults Are Cleared	Design:	**Yes**	Actual:	**Yes**
Are DIP switches set correctly according to number of Fire Groups?	Design:	**Yes**	Actual:	**Yes**
Is TANK system located/mounted in a climate controlled area?	Design:	**Yes**	Actual:	**Yes**

PCU Installations

NONE

PCU Installations

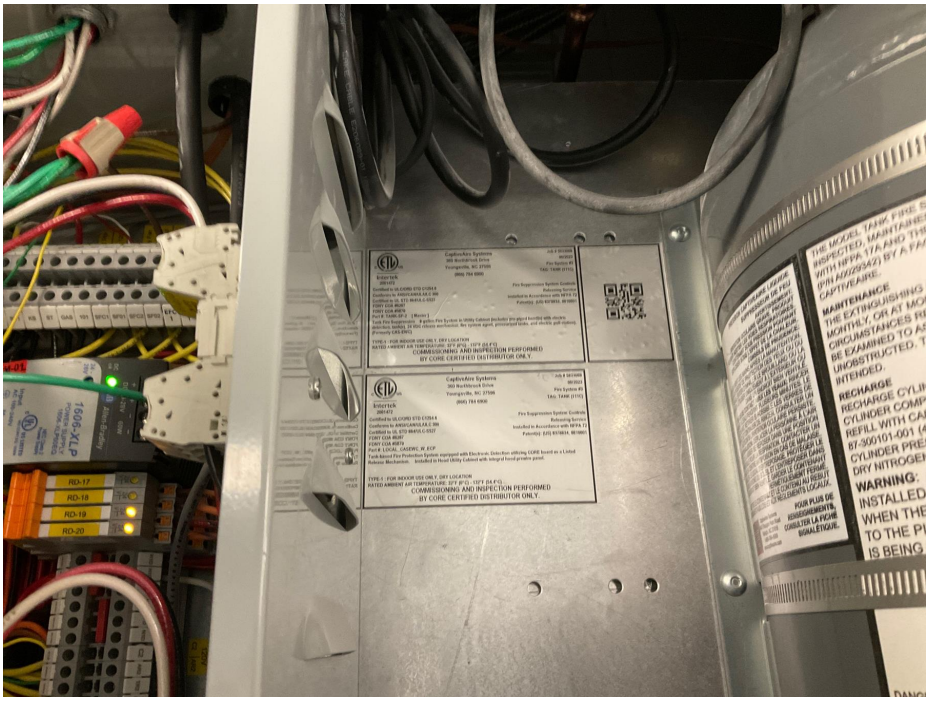
NONE

TANK ECP 2 (DCV111CD)

Location : Hood #3 5424ND-2: Fire Cabinet on the Right Side [4.0/4.0]

Other Notes:

N/A



Building Alarm Tied In	Design:	**Yes**	Actual:	**Yes**
Trouble Relay Tied In	Design:	**Yes**	Actual:	**No**
TANK Board Version	Design:	**N/A**	Actual:	**1.9**
TANK Board Updated to latest Software Version			Actual:	**Yes**
TANK Board Software Version	Design:	**N/A**	Actual:	**1.69**
Internet Connection Type			Actual:	**Cellular**

TANK Fire Suppression 3 (TANK (111C))

Location : Hood #3 - Utility Cabinet Right

Electrician

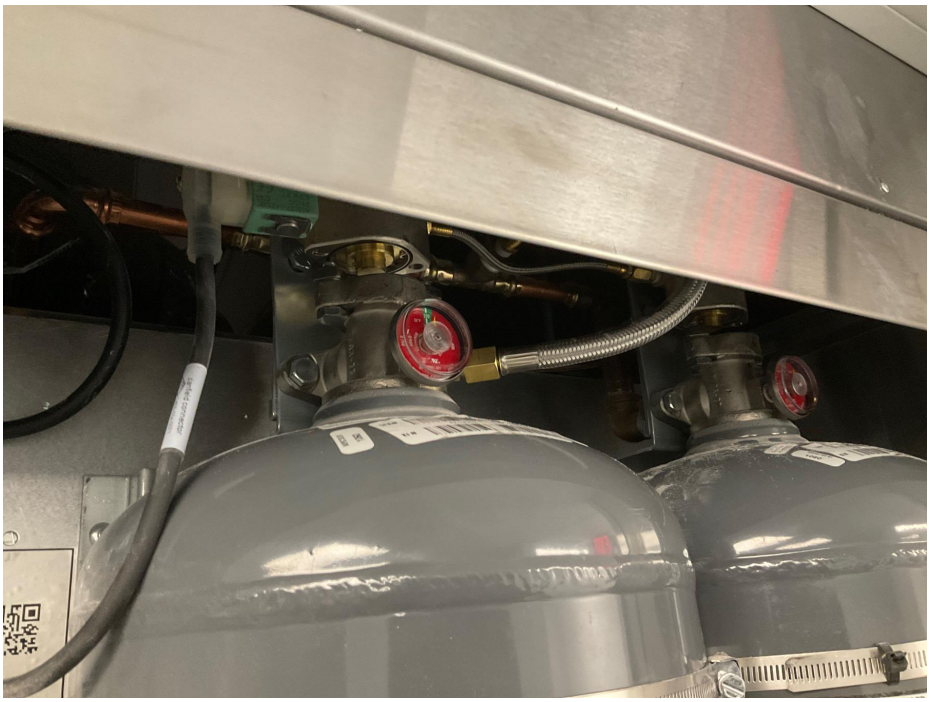
TANK Control Panel Wired	Design:	**Yes**	Actual:	**Yes**
UDS Appliance Kill Switch (if equipped) Wired		**N/A**		

Fire System Contractor w/CAS Supervision

Verify kitchen line up with drawings in NOLA?			Actual:	**Correct**
Actuator is in Shipped position with shipping plates mounted upon arrival? Upload Picture.	Design:	**Yes**	Actual:	**Yes**

Other Notes:

N/A



Gas Valve Wired (In Conduit)	Design:	**Yes**	Actual:	**No**

Other Notes:

Gas valve not installed at time of SDV. Tested for 120V when energized and 0V when in fire condition.

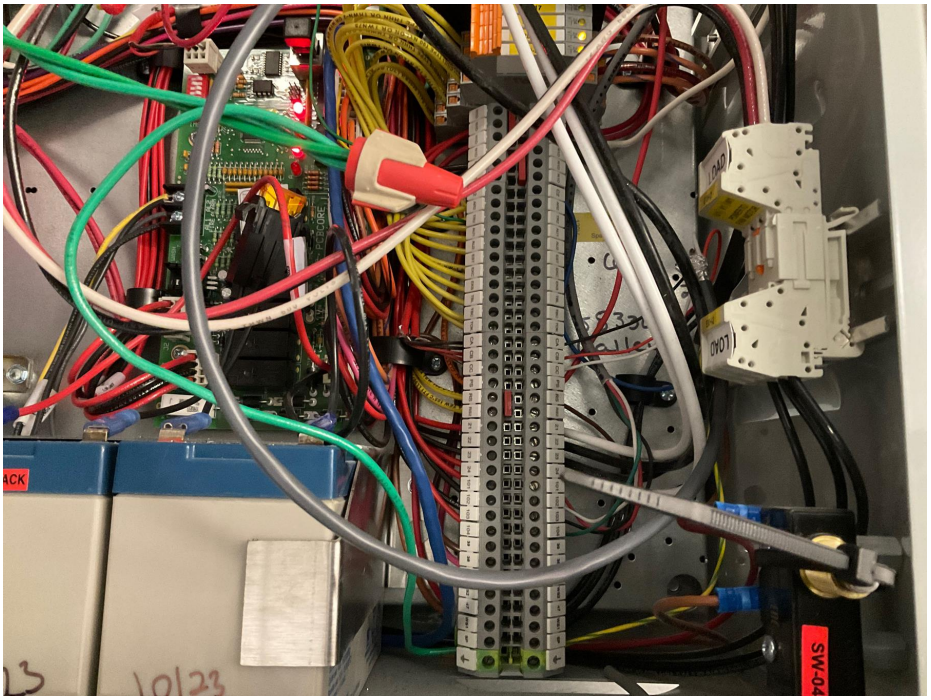
Are all overlapping nozzles within 35-50" of cooking surface?	Design:	**Yes**	Actual:	**Yes**
Nozzles Within 15" From Front/Back of Hazard Zone	Design:	**Yes**	Actual:	**Yes**
Verify overlapping nozzles are located at centerline of the 30"	Design:	**Yes**	Actual:	**Yes**

located at centerline of the 30 hazard zone (front to back) same height, aimed straight down?				
Is there a Salamander or Upright Broiler Present?	Design:	**Yes**	Actual:	**Yes**
Does Salamander or Upright Broiler (cooking surface exceed > 1050 sq/in)?	Design:	**No**	Actual:	**No**
Interior Nozzle Facing Back Opposite End of Appliance (For Upright Broiler/Salamander)	Design:	**Yes**	Actual:	**Yes**
Does the depth of any appliance cooking surface exceed the listed size in the Appliance Coverage Detail chart?	Design:	**No**	Actual:	**No**
All dedicated appliances, duct and plenum are utilizing TANK appliance nozzles (3070-3/8H-10-SS)?	Design:	**Yes**	Actual:	**Yes**
Is end plenum nozzle installed 0-6" into plenum (From end of hood/hazard to center of nozzle)?	Design:	**Yes**	Actual:	**Yes**
Are TANK appliance nozzles spaced no more than 12"(From end of Hazard zone to center of first nozzle and end of hazard zone to center of last nozzle)?	Design:	**Yes**	Actual:	**Yes**
Did the appliance lineup change from the original design?	Design:	**No**	Actual:	**No**
Did the fire system appliance drops change from the original design?	Design:	**No**	Actual:	**No**
Does Fire System cover a Wok?			Actual:	**No**
Does dedicated TANK appliance nozzle piping exceed maximum pipe length of 10 ft?	Design:	**No**	Actual:	**No**
Does plenum branch piping exceed maximum pipe length of 3ft?	Design:	**No**	Actual:	**No**
Does the Supply line piping to first overlapping nozzle exceed 42 ft?	Design:	**No**	Actual:	**No**
Is Back-shelf a minimum of 18" Vertically off Appliance	Design:	**Yes**	Actual:	**Yes**
Back-shelf Overhang less than 12"	Design:	**Yes**	Actual:	**Yes**
No appliance drop has more than 2 nozzles?	Design:	**True**	Actual:	**True**
Is all piping except appliance drops 3/8" Blackiron, Chrome plated, Stainless Steel or 1/2" Copper?	Design:	**Yes**	Actual:	**Yes**
Is all appliance drop piping 3/8" polished stainless steel or polished chrome-plated black iron?			Actual:	**Yes**
Are there any fryers?			Actual:	**Yes**
How many fryers are there?			Actual:	**1**
Enter Width of Fryer 1:			Actual:	**20**
Does Fryer 1 have 30” coverage?	Design:	**Yes**	Actual:	**Yes**
Are there any Tilt Skillets?			Actual:	**No**

Is Manual Activation Device Wired into a Fire Loop (Must be 4 wire, in conduit)? Upload a picture of wiring connection of manual activation device.	Design:	**Yes**	Actual:	**Yes**

Other Notes:

N/A



MAD Installed 10'-20' from Hood at a Point of Egress and 42"-48" AFF	Design:	**Yes**	Actual:	**Yes**
CORE Interlock Wired (If multiple systems present)	Design:	**Yes**	Actual:	**Yes**
Extra Fire Stat Added		**N/A**		
Fire stats are wired in a fire loop with 842 degree high temp wire when ran on top of hoods	Design:	**Yes**	Actual:	**Yes**
CAS Service Supervised, Assisted or Wired All Supervised Loop Connections			Actual:	**Supervised**
Ensure each FS Nozzle match actual Fire system drawings?	Design:	**Yes**	Actual:	**Yes**

CAS Service

Verify the correct Fire Stat is installed?			Actual:	**360**
Have all shipping covers been removed from fire stats	Design:	**Yes**	Actual:	**Yes**
System Activates on 120V power only	Design:	**Yes**	Actual:	**Yes**
Test System. Ensure balloons are installed on all nozzles before activating system.			Actual:	**Ok**
Activate system by Manual Activation device. Did system activate and all balloons fill and/or hold pressure properly?	Design:	**Yes**	Actual:	**Yes**
Activate system by all Fire Stats. Did system activate and all balloons fill and/or hold pressure properly?	Design:	**Yes**	Actual:	**Yes**

Activate system on Battery Backup (Remove CORE board power and place system in Test Mode). Did system activate properly?	Design:	**Yes**	Actual:	**Yes**
Did the Audible Alarm Sound during each Test of the system?	Design:	**Yes**	Actual:	**Yes**
Gas Valve is Functioning Properly	Design:	**Yes**	Actual:	**Yes**

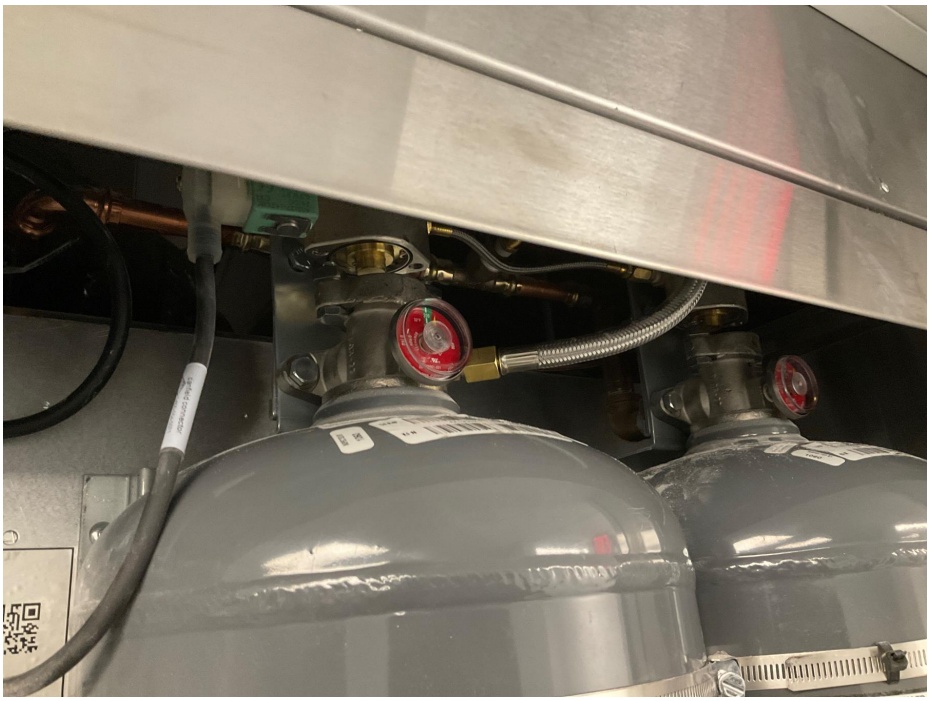
Other Notes:

Gas valve not installed at time of SDV. Tested for 120V when energized and 0V when in fire condition.

Battery Date Code (The actual date FST wrote on batteries with paint pen during SDV)			Actual:	**10/6/2023 4:00:00 AM**
Verify the correct amount of TANK appliance nozzles cover the cross-sectional Perimeter or Diameter of the Duct Riser? (If 0 - 75" perimeter equals 1 nozzles, 75 - 150" 2 nozzles, above 150" 3 nozzles)	Design:	**Yes**	Actual:	**Yes**
Is the system commissioned with the actuator bolted onto the TANK Fire Suppression system tank? Upload Picture.	Design:	**Yes**	Actual:	**No**

Other Notes:

N/A



Is pressure switch installed and functioning properly?	Design:	**Yes**	Actual:	**Yes**
Monitor the presssure gauge on the PAK. The pressure must not read above 0.5 psi for a minimum of 15 minutes.	Design:	**N/A**	Actual:	**Complete**
CAUTION!: If pressure reads above 0.5 psi, immediately remove the primary actuator hose from the primary tank			Actual:	**Ok**
Is appliance specific protection piped with adequate protection? Upload picture.	Design:	**Yes**	Actual:	**Yes**

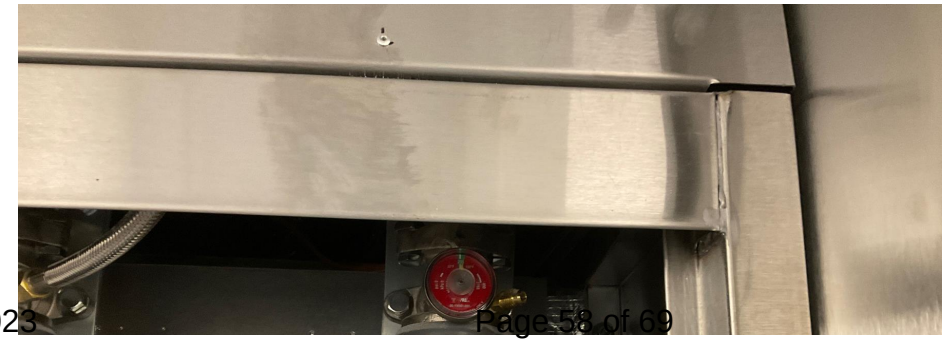
Other Notes:

N/A

Use coil liquid leak detector around PAK and braided hose to check for leaks. Are there any leaks present?	Design:	**No**	Actual:	**No**
Do TANK bottles have 200 PSI with gauges functioning properly? Upload picture	Design:	**Yes**	Actual:	**Yes**

Other Notes:

N/A



Do all nozzles have metal caps?	Design:	**Yes**	Actual:	**Yes**
Verify Nozzle Flow Points/Tank Capabilities. Does Nozzles FP exceed Tank Capacity?	Design:	**No**	Actual:	**No**
Take a photo of Fire System Tag			Actual:	**Ok**
Tanks installed securely with straps and mounting hardware?	Design:	**Yes**	Actual:	**Yes**
After inspection of system, lubricate and change O-ring of primary actuator hose (p/n 19020).	Design:	**Replaced**	Actual:	**Replaced**
All Faults Are Cleared	Design:	**Yes**	Actual:	**Yes**
Are DIP switches set correctly according to number of Fire Groups?	Design:	**Yes**	Actual:	**Yes**
Is TANK system located/mounted in a climate-controlled area?	Design:	**Yes**	Actual:	**Yes**

PCU Installations

NONE

PCU Installations

NONE

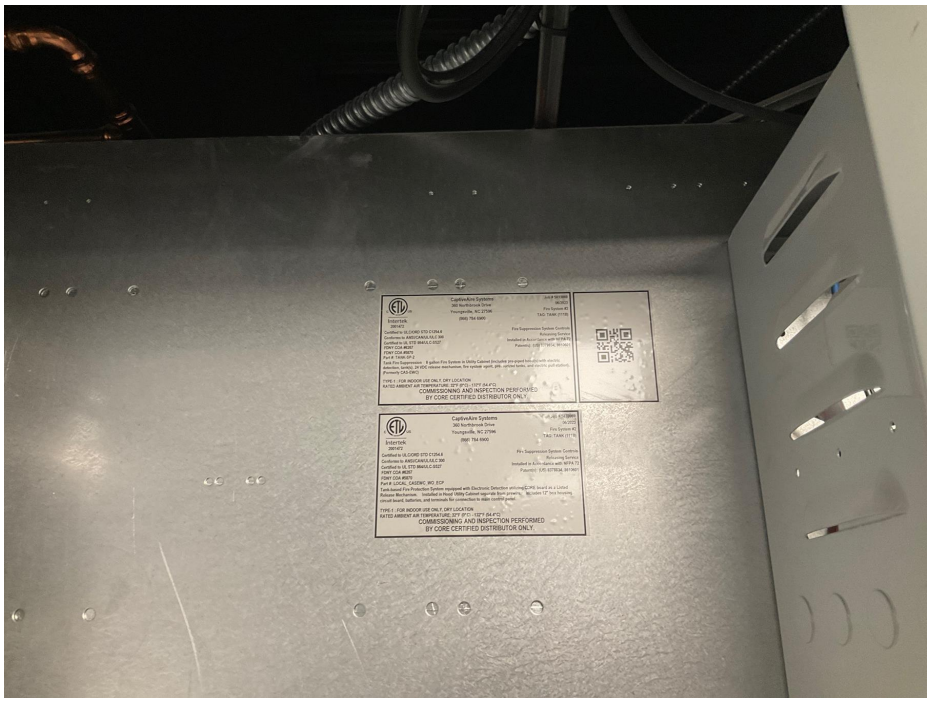
TANK Fire Suppression 4 (TANK (111D))

Location : Hood #4 - Utility Cabinet Left

Electrician

Other Notes:

N/A



TANK Control Panel Wired	Design:	**Yes**	Actual:	**Yes**
UDS Appliance Kill Switch (if equipped) Wired		**N/A**		

Fire System Contractor w/CAS Supervision

Verify kitchen line up with drawings in NOLA?			Actual:	**Correct**
Actuator is in Shipped position with shipping plates mounted upon arrival? Upload Picture.	Design:	**Yes**	Actual:	**Yes**

Other Notes:

N/A

Gas Valve Wired (In Conduit)	Design:	**Yes**	Actual:	**No**

Other Notes:

Gas valve not installed at time of SDV. Tested for 120V when energized and 0V when in fire condition.

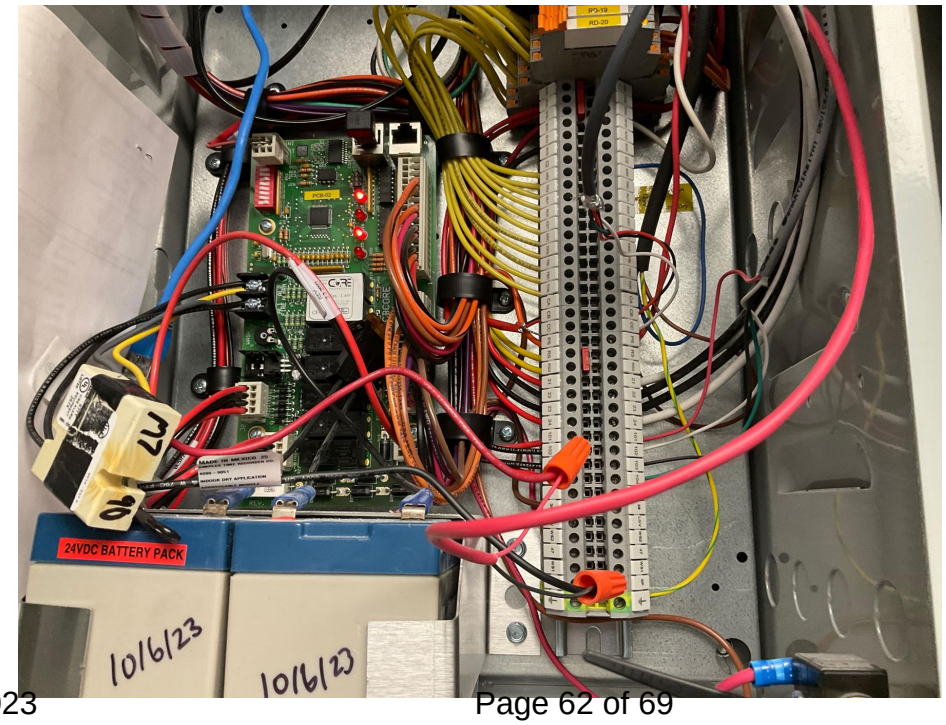
Are all overlapping nozzles within 35-50" of cooking surface?	Design:	**Yes**	Actual:	**Yes**
Nozzles Within 15" From Front/Back of Hazard Zone	Design:	**Yes**	Actual:	**Yes**
Verify overlapping nozzles are located at centerline of the 30" hazard zone (front to back) same height, aimed straight down?	Design:	**Yes**	Actual:	**Yes**
Is there a Salamander or Upright Broiler Present?	Design:	**Yes**	Actual:	**Yes**
Does Salamander or Upright Broiler (cooking surface exceed > 1050 sq/in)?	Design:	**No**	Actual:	**No**
Interior Nozzle Facing Back Opposite End of Appliance (For Upright Broiler/Salamander)	Design:	**Yes**	Actual:	**Yes**
Does the depth of any appliance cooking surface exceed the listed size in the Appliance Coverage Detail chart?	Design:	**No**	Actual:	**No**
All dedicated appliances, duct and plenum are utilizing TANK appliance nozzles (3070-3/8H-10-SS)?	Design:	**Yes**	Actual:	**Yes**
Is end plenum nozzle installed 0-6" into plenum (From end of hood/hazard to center of nozzle)?	Design:	**Yes**	Actual:	**Yes**
Are TANK appliance nozzles spaced no more than 12"(From end of Hazard zone to center of first nozzle and end of hazard zone to center of last nozzle)?	Design:	**Yes**	Actual:	**Yes**
Did the appliance lineup change from the original design?	Design:	**No**	Actual:	**No**
Did the fire system appliance drops change from the original design?	Design:	**No**	Actual:	**No**
Does Fire System cover a Wok?			Actual:	**No**
Does dedicated TANK appliance [illegible] exceed maximum	Design:	**No**	Actual:	**No**

pipe length of 10 ft?

Does plenum branch piping exceed maximum pipe length of 3ft?	Design:	**No**	Actual:	**No**
Does the Supply line piping to first overlapping nozzle exceed 42 ft?	Design:	**No**	Actual:	**No**
Is Back-shelf a minimum of 18" Vertically off Appliance	Design:	**Yes**	Actual:	**Yes**
Back-shelf Overhang less than 12"	Design:	**Yes**	Actual:	**Yes**
No appliance drop has more than 2 nozzles?	Design:	**True**	Actual:	**True**
Is all piping except appliance drops 3/8" Blackiron, Chrome plated, Stainless Steel or 1/2" Copper?	Design:	**Yes**	Actual:	**Yes**
Is all appliance drop piping 3/8" polished stainless steel or polished chrome-plated black iron?			Actual:	**Yes**
Are there any fryers?			Actual:	**Yes**
How many fryers are there?			Actual:	**2**
Enter Width of Fryer 1:			Actual:	**20**
Does Fryer 1 have 30” coverage?	Design:	**Yes**	Actual:	**Yes**
Enter Width of Fryer 2:			Actual:	**20**
Does Fryer 2 have 30” coverage?	Design:	**Yes**	Actual:	**Yes**
Are there any Tilt Skillets?			Actual:	**No**
Is Manual Activation Device Wired into a Fire Loop (Must be 4 wire, in conduit)? Upload a picture of wiring connection of manual activation device.	Design:	**Yes**	Actual:	**Yes**

Other Notes:

N/A



MAD Installed 10'-20' from Hood at a Point of Egress and 42"-48" AFF	Design:	**Yes**	Actual:	**Yes**
CORE Interlock Wired (If multiple systems present)	Design:	**Yes**	Actual:	**Yes**
Extra Fire Stat Added		**N/A**		
Fire stats are wired in a fire loop with 842 degree high temp wire when ran on top of hoods	Design:	**Yes**	Actual:	**Yes**
CAS Service Supervised, Assisted or Wired All Supervised Loop Connections			Actual:	**Supervised**
Ensure each FS Nozzle match actual Fire system drawings?	Design:	**Yes**	Actual:	**Yes**

CAS Service

Verify the correct Fire Stat is installed?			Actual:	**360**
Have all shipping covers been removed from fire stats	Design:	**Yes**	Actual:	**Yes**
System Activates on 120V power only	Design:	**Yes**	Actual:	**Yes**
Test System. Ensure balloons are installed on all nozzles before activating system.			Actual:	**Ok**
Activate system by Manual Activation device. Did system activate and all balloons fill and/or hold pressure properly?	Design:	**Yes**	Actual:	**Yes**
Activate system by all Fire Stats. Did system activate and all balloons fill and/or hold pressure properly?	Design:	**Yes**	Actual:	**Yes**
Activate system on Battery Backup (Remove CORE board power and place system in Test Mode). Did system activate properly?	Design:	**Yes**	Actual:	**Yes**
Did the Audible Alarm Sound during each Test of the system?	Design:	**Yes**	Actual:	**Yes**
Gas Valve is Functioning Properly	Design:	**Yes**	Actual:	**Yes**

Other Notes:

Gas valve not installed at time of SDV. Tested for 120V when energized and 0V when in fire condition.

Battery Date Code (The actual date FST wrote on batteries with paint pen during SDV)			Actual:	**10/6/2023 4:00:00 AM**
Verify the correct amount of TANK appliance nozzles cover the cross-sectional Perimeter or Diameter of the Duct Riser? (If 0 - 75" perimeter equals 1 nozzles, 75 - 150" 2 nozzles, above 150" 3 nozzles)	Design:	**Yes**	Actual:	**Yes**
Is the system commissioned with the actuator bolted onto the TANK Fire Suppression system tank? Upload Picture.	Design:	**Yes**	Actual:	**No**

Other Notes:

N/A

Is pressure switch installed and functioning properly?	Design:	**Yes**	Actual:	**Yes**
Monitor the presssure gauge on the PAK. The pressure must not read above 0.5 psi for a minimum of 15 minutes.	Design:	**N/A**	Actual:	**Complete**
CAUTION!: If pressure reads above 0.5 psi, immediately remove the primary actuator hose from the primary tank			Actual:	**Ok**
Is appliance specific protection piped with adequate protection? Upload picture.	Design:	**Yes**	Actual:	**Yes**

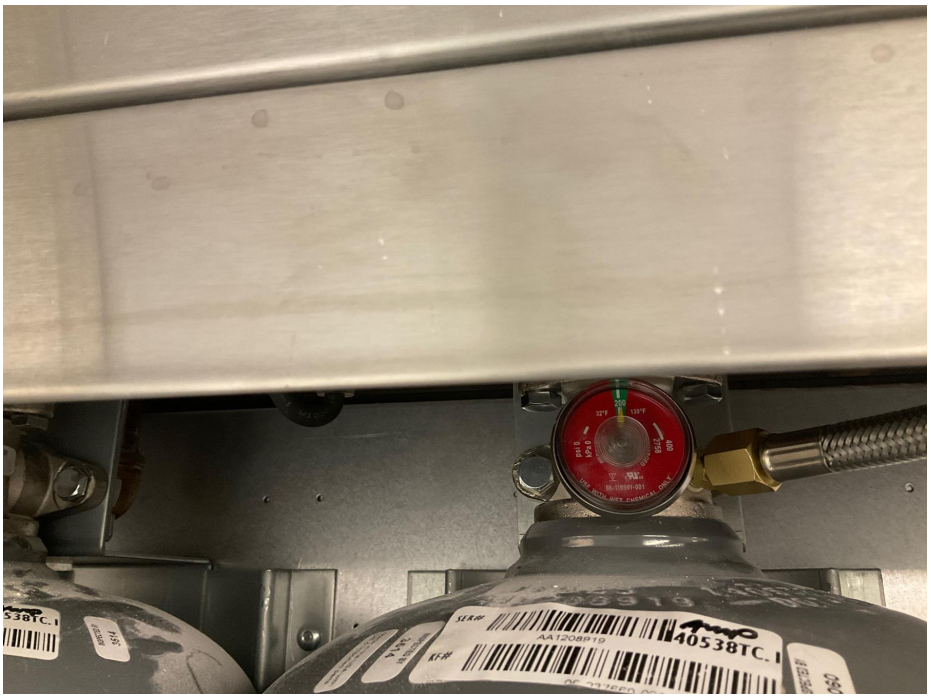
Other Notes:

N/A

Use coil liquid leak detector around PAK and braided hose to check for leaks. Are there any leaks present?	Design:	**No**	Actual:	**No**
Do TANK bottles have 200 PSI with gauges functioning properly? Upload picture	Design:	**Yes**	Actual:	**Yes**

Other Notes:

N/A



Do all nozzles have metal caps?	Design:	**Yes**	Actual:	**Yes**
Verify Nozzle Flow Points/Tank Capabilities. Does Nozzles FP exceed Tank Capacity?	Design:	**No**	Actual:	**No**
Take a photo of Fire System Tag			Actual:	**Ok**
Tanks installed securely with straps and mounting hardware?	Design:	**Yes**	Actual:	**Yes**
After inspection of system, lubricate and change O-ring of primary actuator hose (p/n 19020).	Design:	**Replaced**	Actual:	**Replaced**
All Faults Are Cleared	Design:	**Yes**	Actual:	**Yes**
Are DIP switches set correctly according to number of Fire Groups?	Design:	**Yes**	Actual:	**Yes**
Is TANK system located/mounted in a climate-controlled area?	Design:	**Yes**	Actual:	**Yes**

National TAB

Project: Galley On Levee (Newport, KY)

System/Unit: FAN - Exhaust

Asset: EF-1 AREA:113

Unit Data		
	Design	**Actual**
MFG	NA	Dayton
Model Num	NA	4YC66G
Serial Num	-	22866143
Type	-	DOWNBLAST

Test Data		
	Design	**Actual**
CFM	500	497
RL Voltage	-	115
RL Amperage	-	2.6
Total ESP	0.35	0.3”

Motor Data		
	Design	**Actual**
Motor MFG	-	MCMILLAN
Frame	-	NA
Horsepower	0.1	0.18
Motor Rpm	1447	1550
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	2.6
Service Factor	-	NA

Completed By: Jordan Best on 10/12/2023

National TAB

Project:Galley On Levee (Newport, KY)

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF-1/113

Asset								
Asset Name	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
E1-1	ER-1	10X10	250	1	228	228	228	91.2
E1-2	ER-1	10X10	250	1	269	269	269	107.6
Total			500		497	497	497	99.4%

National TAB

Project: Galley On Levee (Newport, KY)

System/Unit: FAN - Exhaust

Asset: EF-2 AREA:TRASH 106

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	SP-A125-QD
Serial Num	-	20719292
Type	CEILING	CEILING

Test Data		
	Design	**Actual**
CFM	150	65
RL Voltage	-	-
RL Amperage	-	0.45
Total ESP	0.2	-

Motor Data		
	Design	**Actual**
Motor MFG	-	GREENHECK
Frame	-	NA
Horsepower	48W	NA
Motor Rpm	1400	1100
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	0.18
Service Factor	-	NA

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Notes:
No speed controller. Model differs from MSET. Unable to attain design CFM

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