

**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)

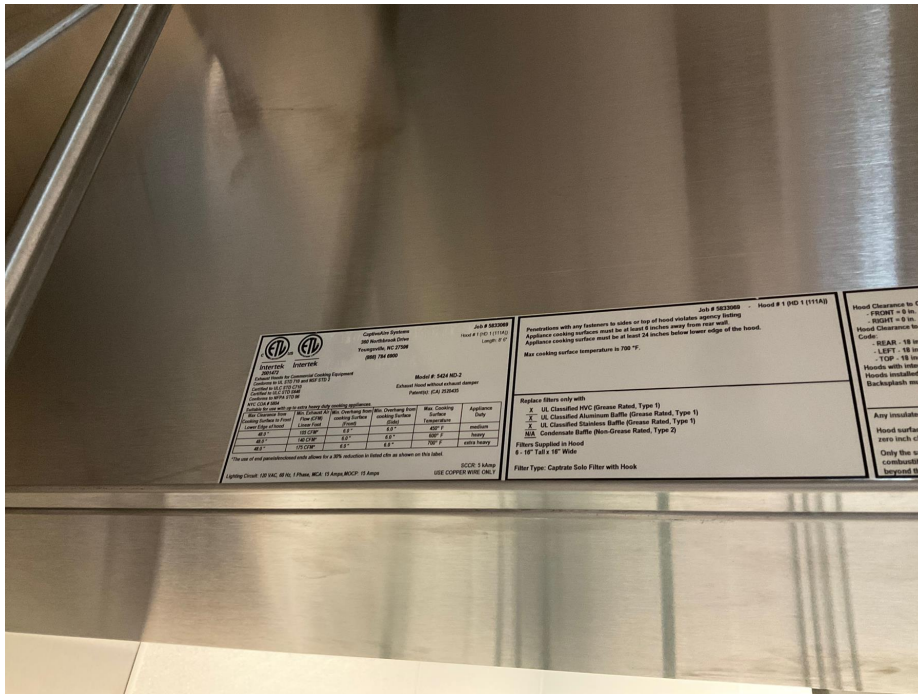
**Hood 1 ( HD 1 (111A) ) (HD 1 (111A))**

**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

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

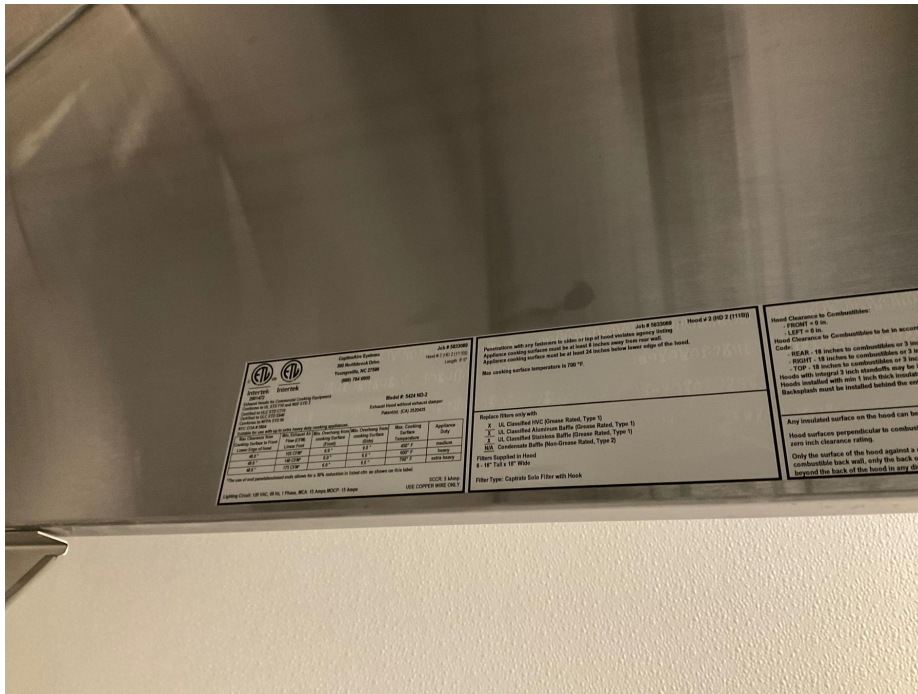
### Hood 2 ( HD 2 (111B) ) (HD 2 (111B))

**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

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



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

**Hood Group 4**

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

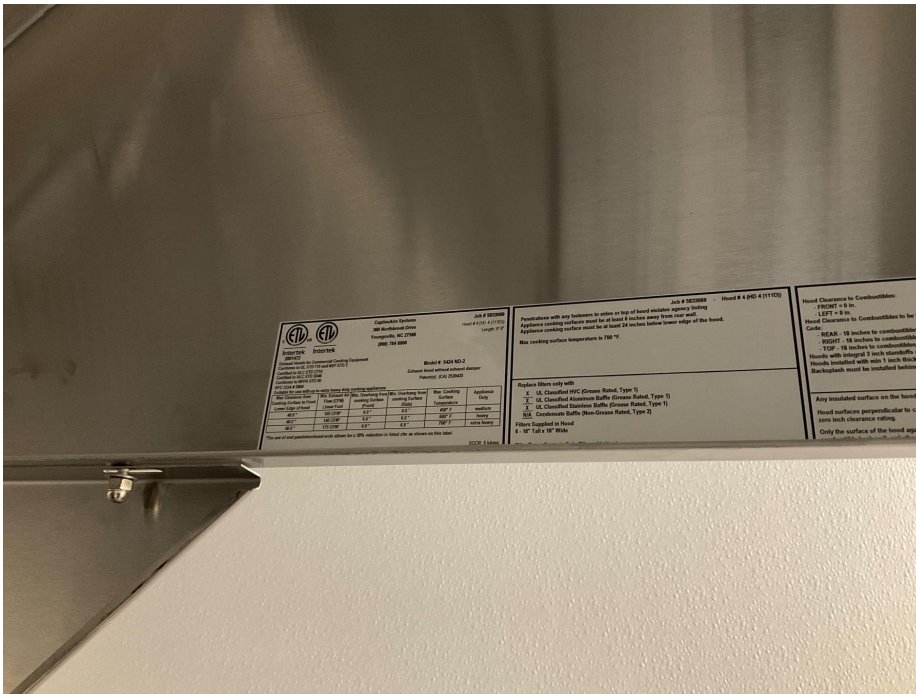
**Hood 4 ( HD 4 (111D) ) (HD 4 (111D))**

**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

<b>Filter 1</b> Fan: #2 - DU240HFA (KEF111CD)	Size: 16x16	Initial Velocity: 161 fpm	Final Velocity: 161 fpm	Initial CFM: 261	Final CFM: 261
<b>Filter 2</b> Fan: #2 - DU240HFA (KEF111CD)	Size: 16x16	Initial Velocity: 164 fpm	Final Velocity: 164 fpm	Initial CFM: 266	Final CFM: 266
<b>Filter 3</b> Fan: #2 - DU240HFA (KEF111CD)	Size: 16x16	Initial Velocity: 163 fpm	Final Velocity: 163 fpm	Initial CFM: 264	Final CFM: 264
<b>Filter 4</b> Fan: #2 - DU240HFA (KEF111CD)	Size: 16x16	Initial Velocity: 190 fpm	Final Velocity: 190 fpm	Initial CFM: 308	Final CFM: 308
<b>Filter 5</b> Fan: #2 - DU240HFA (KEF111CD)	Size: 16x16	Initial Velocity: 179 fpm	Final Velocity: 179 fpm	Initial CFM: 290	Final CFM: 290
<b>Filter 6</b> 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: <b>63</b>
VOLTS	Design: <b>460</b>	Actual: <b>491</b>
HP	Design: <b>3</b>	Actual: <b>3</b>
HUB SET SCREW TIGHT	Design: <b>Yes</b>	Actual: <b>Yes</b>
FAN LEVEL	Design: <b>Yes</b>	Actual: <b>Yes</b>
ROTATION	Design: <b>Correct</b>	Actual: <b>Correct</b>
FAN VIBRATION	Design: <b>Good</b>	Actual: <b>Good</b>
RPM - DESIGN	Design: <b>873</b>	Actual: <b>924</b>
RPM - MAX	Design: <b>1350</b>	Actual: <b>N/A</b>
RPM - MAX RECOMMENDED	Design: <b>1150</b>	Actual: <b>N/A</b>
FLA	Design: <b>4.5</b>	Actual: <b>3.4</b>
OVERLOAD SET POINT	<b>N/A</b>	
PHASE	Design: <b>3</b>	Actual: <b>3</b>
Unit within five miles from the coast?		Actual: <b>No</b>
HINGE KIT INSTALLED	Design: <b>Yes</b>	Actual: <b>Yes</b>
INSPECT ALL EXTERIOR SIDES OF UNIT. ANY VISIBLE DAMAGE	Design: <b>No</b>	Actual: <b>No</b>

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

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

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

**DOAS**

Take pictures of all four sides of the unit.	Design: <b>Complete</b>	Actual: <b>Complete</b>
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**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@captivaire.com.

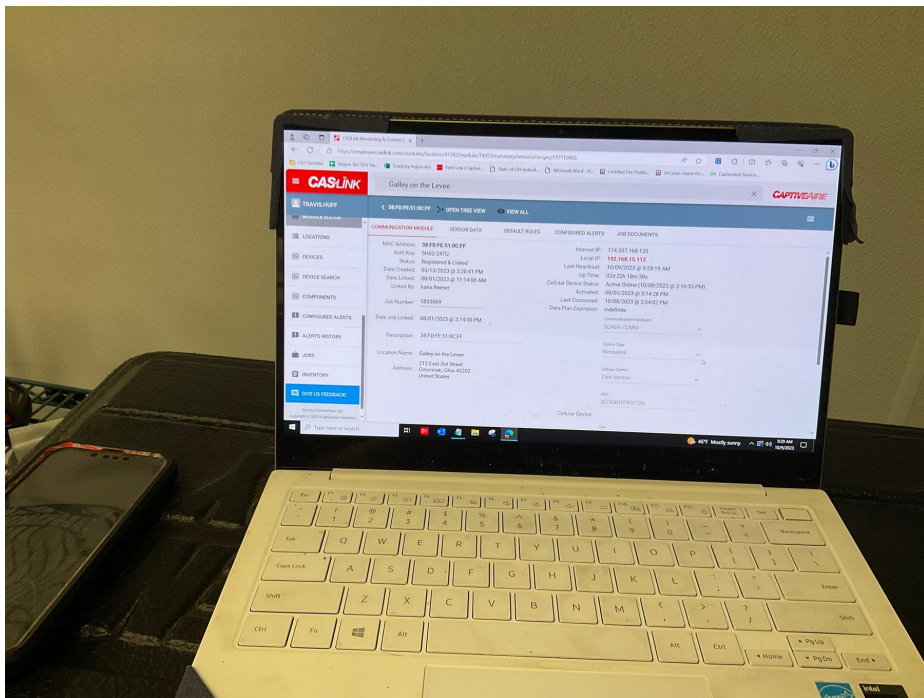
Actual: **Complete**

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: <b>Closed</b>	Actual: <b>Closed</b>
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: <b>Yes</b>	Actual: <b>Yes</b>
Measure the outside air temp and record the value.		Actual: <b>60</b>
Verify the EEV model in settings matches the model number of the valve installed on the unit.	Design: <b>Yes</b>	Actual: <b>Yes</b>
Verify compressor VFD settings. Do settings match schematic?	Design: <b>Yes</b>	Actual: <b>Yes</b>
Place the system in evacuation mode and record the pressure at the suction service port with a gauge set.		Actual: <b>180</b>
With the unit still in evacuation mode, record the suction pressure reading from HMI.		Actual: <b>179</b>
Difference between the suction service port and suction pressure reading from HMI		Actual: <b>1</b>
With the unit still in evacuation mode, record the discharge pressure reading from HMI.		Actual: <b>179</b>
Difference between the suction service port and discharge pressure reading from HMI?		Actual: <b>1</b>
With the unit still in evacuation mode, record the liquid pressure reading from the HMI		Actual: <b>179</b>
Difference between suction service port and liquid pressure reading from HMI?		Actual: <b>1</b>

**Over 50F**

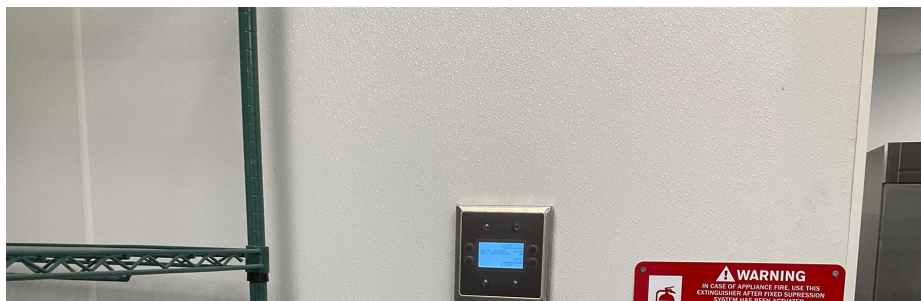
Start a cooling test. Check refrigerant charge in accordance with Refrigerant Charge Check guide. Do the condensing fans turn on and modulate?	Design: <b>Yes</b>	Actual: <b>Yes</b>
Does EEV modulate to maintain 20F superheat?		Actual: <b>Yes</b>
Does the compressor ramp up to max speed (200Hz or 330Hz depending on model) and modulate speed?	Design: <b>Yes</b>	Actual: <b>Yes</b>
Does the reheat valve open and modulate?	Design: <b>Yes</b>	Actual: <b>Yes</b>
Cooling superheat measured? (Target is 20)		Actual: <b>19</b>
Record discharge pressure reading from HMI.		Actual: <b>382</b>
Record liquid line pressure.		Actual: <b>366</b>
Record liquid line temperature.		Actual: <b>95</b>
Record subcool reading. Range should be 10F-20F.		Actual: <b>15</b>
Record a video of the oil level according to the Viewing Oil Level guide. Upload video.		Actual: <b>Complete</b>
<b>Other Notes:</b>		
N/A		
See attachment(s):	[20231010131640.mp4]	
Is Oil level out of specs (<75% on the glass)?	Design: <b>No</b>	Actual: <b>Yes</b>

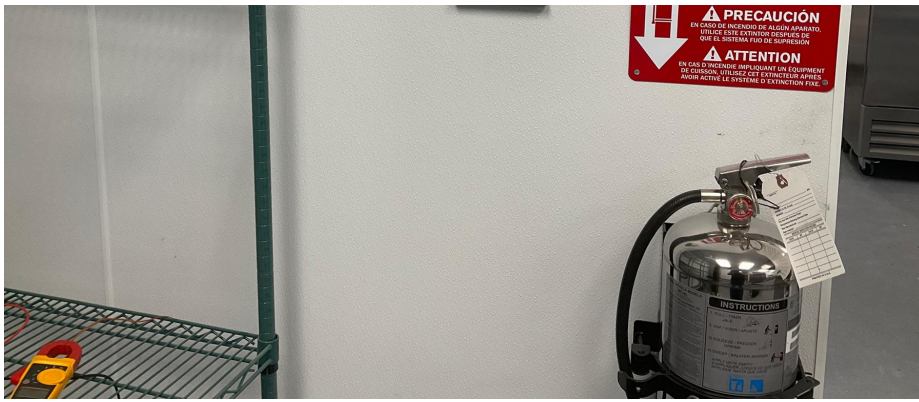
## Temp Verification

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

### 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**

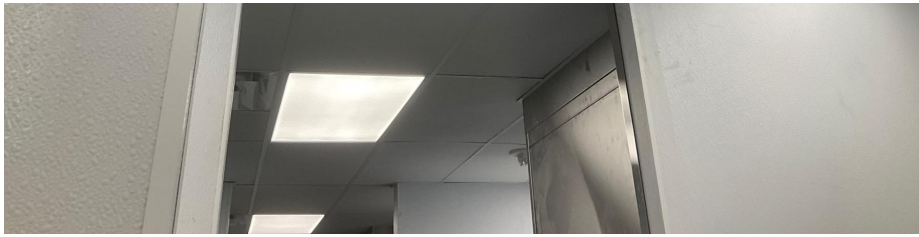
Is wired space wall temp/humidity sensor (not HMI) being used?

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**

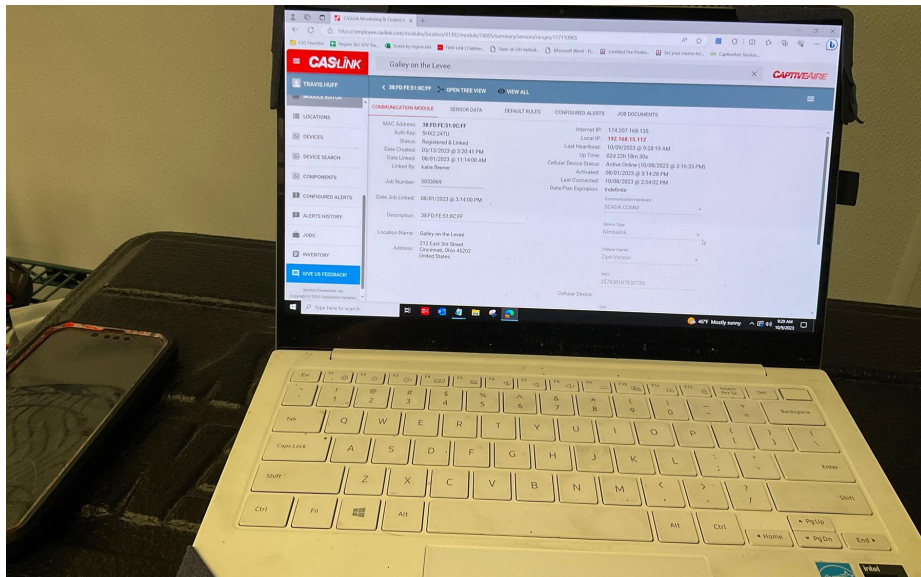
Take picture of CASLink showing last heartbeat.

Actual: **Complete**

**Other Notes:**

N/A





DOAS data is visible on CASLink, tagged unique from other equipment and matches field labeling

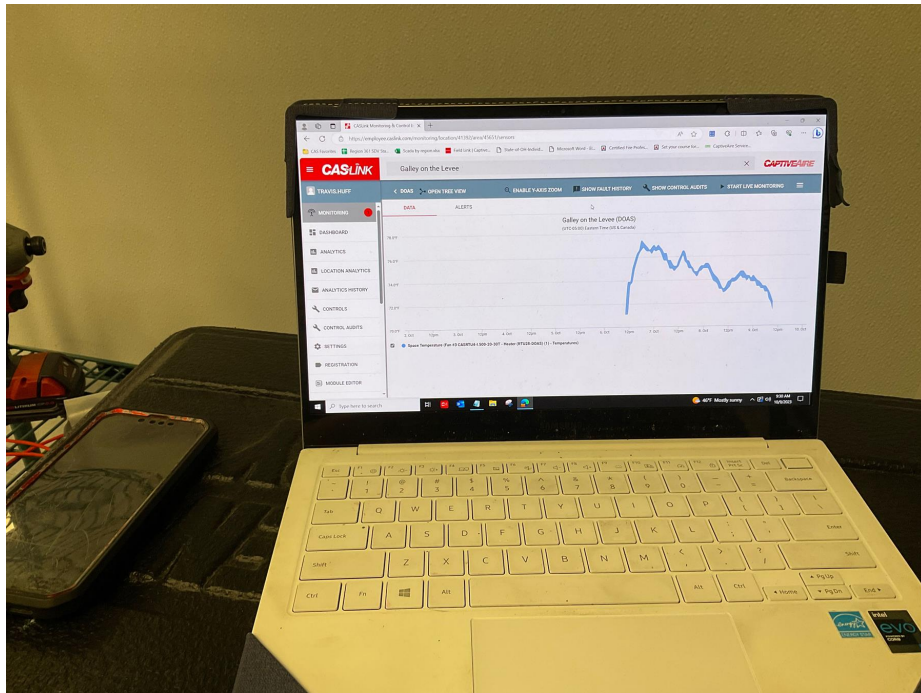
Actual: **Yes**

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?

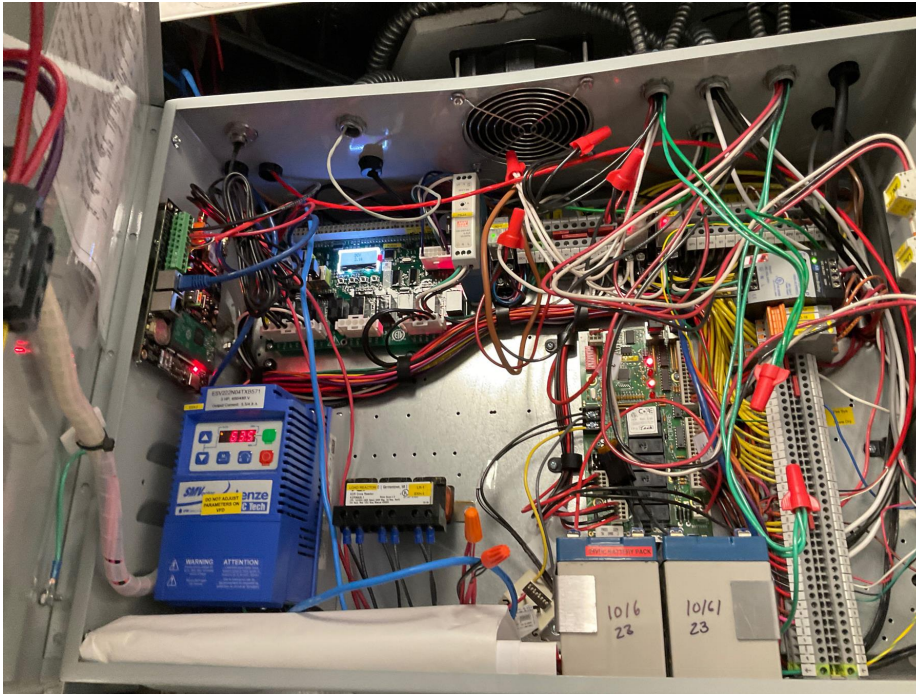
Actual: **Yes**

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

**Package #:** DCV-1011

**Other Notes:**

N/A



**Smart Control**

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

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: <b>Yes</b>	Actual: <b>Yes</b>
ECPM03 HARDWARE REVISION	Design: <b>04</b>	Actual: <b>04</b>
ECPM03 PROGRAM VERSION	Design: <b>2.16.00</b>	Actual: <b>2.16.01</b>
CASHMI HARDWARE REVISION	Design: <b>05</b>	Actual: <b>05</b>
CASHMI PROGRAM VERSION	Design: <b>2.16.00</b>	Actual: <b>2.16.01</b>
ECPM03 DATE AND TIME ACCURATE	Design: <b>Yes</b>	Actual: <b>Yes</b>

## DCV

**Other Notes:**

*No MAU*

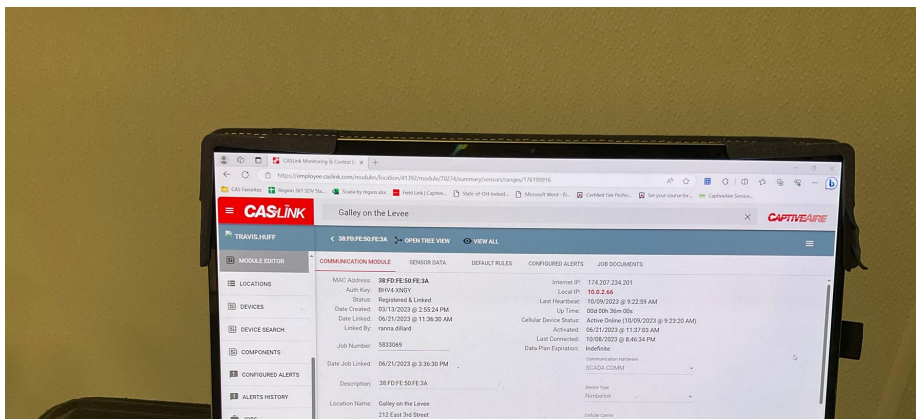
120V Line Ran from SF1 for MUA(s)	Design: <b>Yes</b>	Actual: <b>No</b>
Damper interlock wiring ran to MAU?	Design: <b>Yes</b>	Actual: <b>No</b>

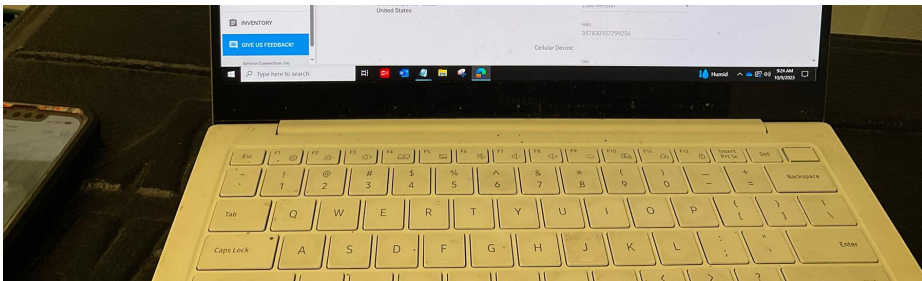
## BMS & Monitoring

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

**Other Notes:**

*N/A*





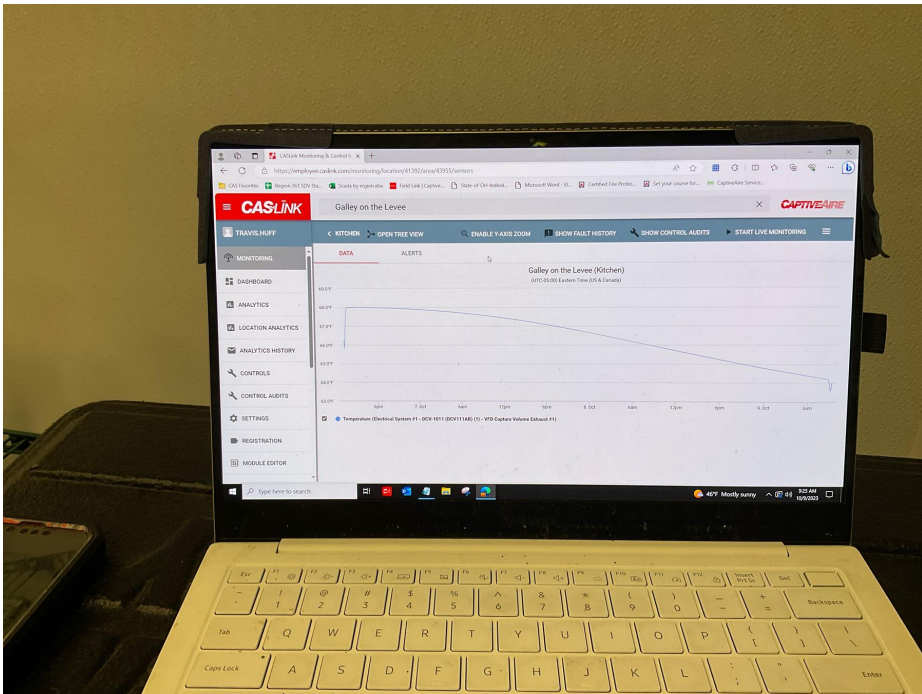
All devices connected to the SCADA are reporting live data?

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: <b>Duct Stat</b>	Actual: <b>Duct Stat</b>
SENSOR LOCATION	Design: <b>H1CV1</b>	Actual: <b>H1CV1</b>
FAN NUMBER	Design: <b>1</b>	Actual: <b>1</b>

**T3**

SENSOR TYPE	Design: <b>Duct Stat</b>	Actual: <b>Duct Stat</b>
SENSOR LOCATION	Design: <b>H2CV1</b>	Actual: <b>H2CV1</b>
FAN NUMBER	Design: <b>1</b>	Actual: <b>1</b>

**VFDs**

## VFD 1

DESIGN CFM	Design: <b>3144</b>	Actual: <b>3363</b>
FAN DIRECTION	Design: <b>Forward</b>	Actual: <b>Forward</b>
TEMP SENSOR #s ASSIGNED	Design: <b>T2, T3</b>	Actual: <b>T2, T3</b>

## DCV VFD

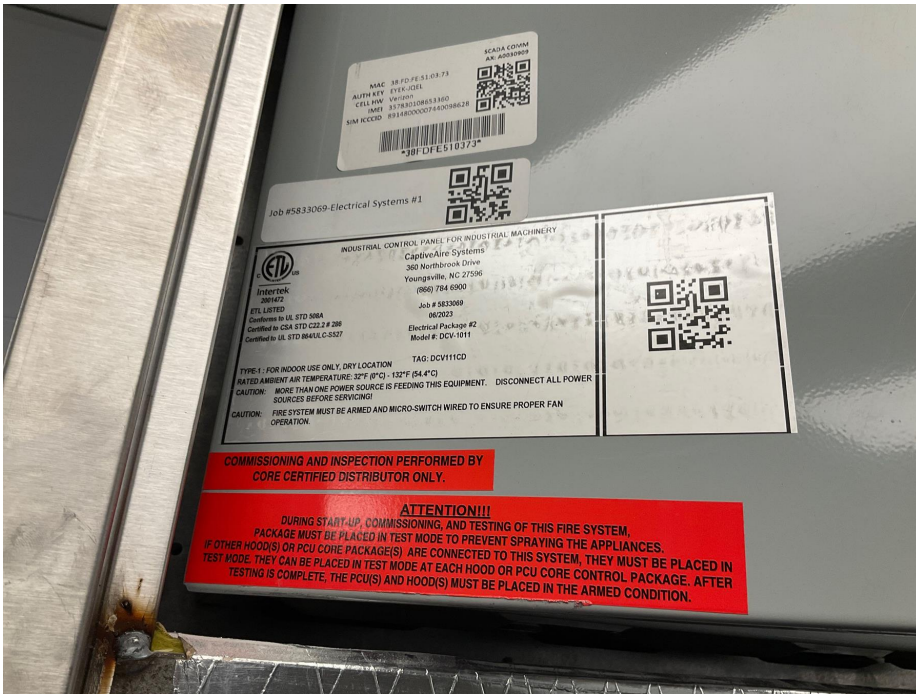
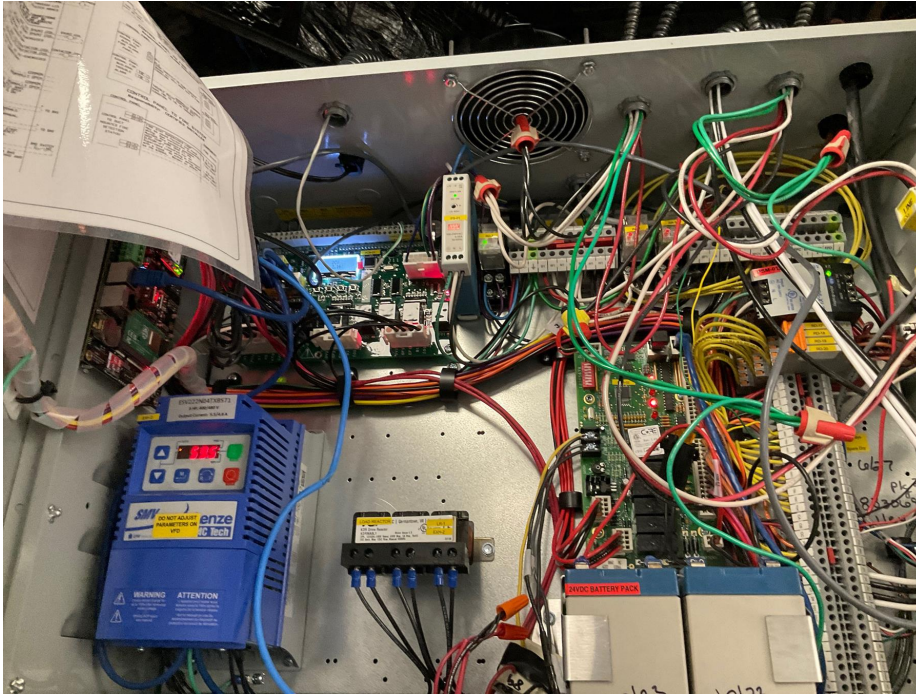
MODULATION RANGE	Design: <b>45</b>	Actual: <b>45</b>
OVERLOAD = P108	Design: <b>93</b>	Actual: <b>93</b>
MIN HZ	Design: <b>47.6</b>	Actual: <b>51.6</b>
MAX HZ	Design: <b>59.5</b>	Actual: <b>63.5</b>
ALL FAULTS CLEARED = P197	Design: <b>Yes</b>	Actual: <b>Yes</b>
P508		Actual: <b>3.4</b>
LOAD IN SEPARATE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

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

Package #: DCV-1011

**Other Notes:**

N/A



**Smart Control**

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

**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**

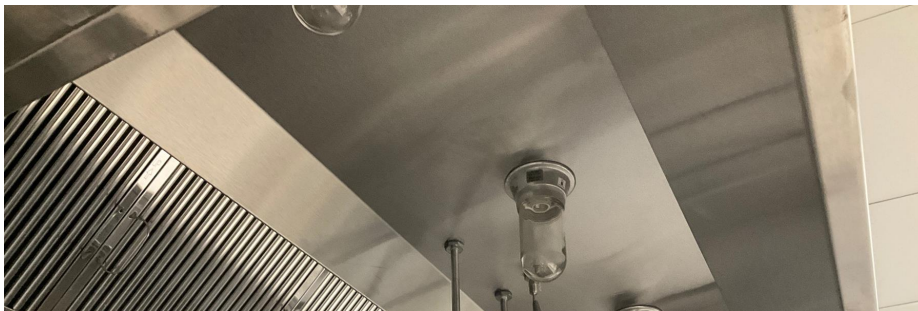
ALL LIGHTS WORK

Design: **Yes**

Actual: **No**

**Other Notes:**

No lightbulbs installed.





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

### DCV

**Other Notes:**

*No MAU.*

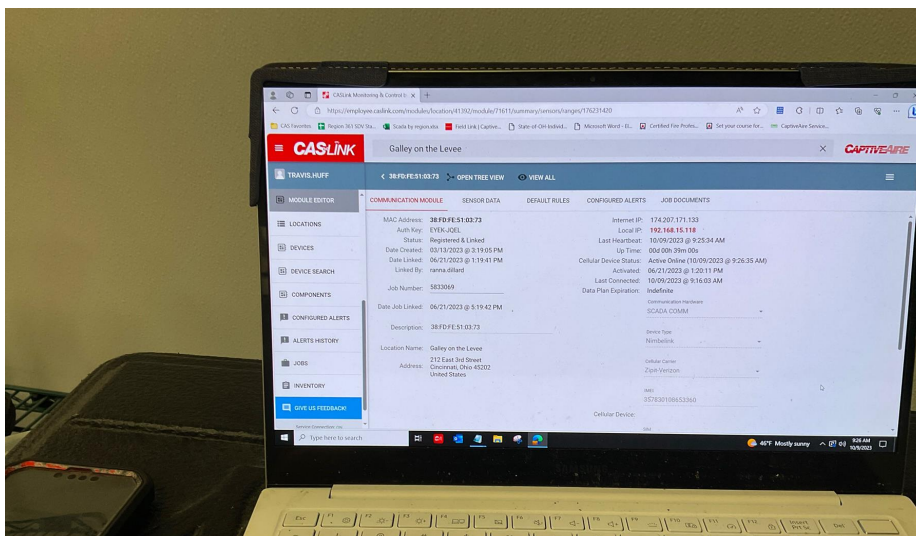
120V Line Ran from SF1 for MUA(s)	Design: <b>Yes</b>	Actual: <b>No</b>
Damper interlock wiring ran to MAU?	Design: <b>Yes</b>	Actual: <b>No</b>

### BMS & Monitoring

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

**Other Notes:**

N/A





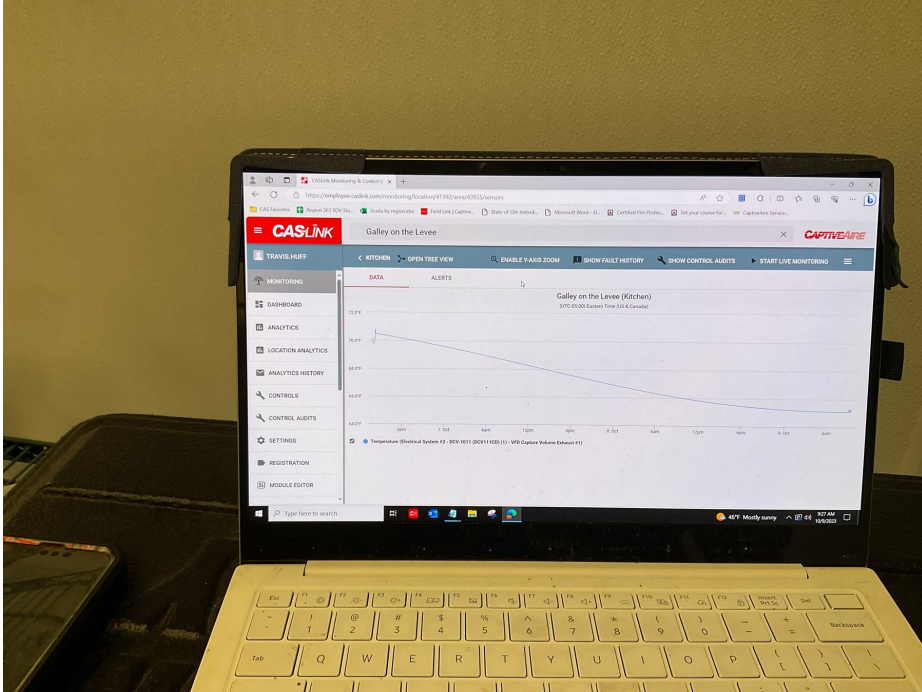
All devices connected to the SCADA are reporting live data?

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: <b>Duct Stat</b>	Actual: <b>Duct Stat</b>
SENSOR LOCATION	Design: <b>H3CV1</b>	Actual: <b>H3CV1</b>
FAN NUMBER	Design: <b>2</b>	Actual: <b>2</b>

**T3**

SENSOR TYPE	Design: <b>Duct Stat</b>	Actual: <b>Duct Stat</b>
SENSOR LOCATION	Design: <b>H4CV1</b>	Actual: <b>H4CV1</b>
FAN NUMBER	Design: <b>2</b>	Actual: <b>2</b>

**VFDs**

**VFD 1**

DESIGN CFM	Design: <b>3144</b>	Actual: <b>3284</b>
FAN DIRECTION	Design: <b>Forward</b>	Actual: <b>Forward</b>
TEMP SENSOR #s ASSIGNED	Design: <b>T2, T3</b>	Actual: <b>T2, T3</b>

### DCV VFD

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

## 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: <b>Yes</b>	Actual: <b>Yes</b>
Trouble Relay Tied In	Design: <b>Yes</b>	Actual: <b>No</b>
TANK Board Version	Design: <b>N/A</b>	Actual: <b>1.9</b>
TANK Board Updated to latest Software Version		Actual: <b>Yes</b>
TANK Board Software Version	Design: <b>N/A</b>	Actual: <b>1.69</b>
Internet Connection Type		Actual: <b>Cellular</b>

**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 appliance nozzles (3070-3/8H-10-  
--- 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**

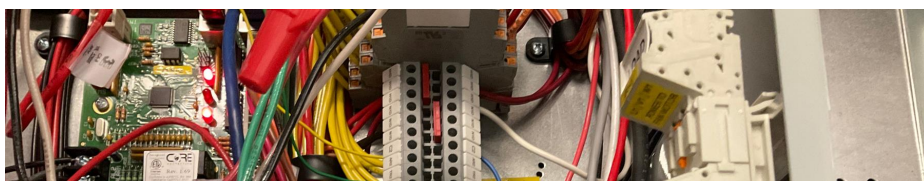
Does Fryer 2 have 30" coverage? Design: **Yes** Actual: **Yes**

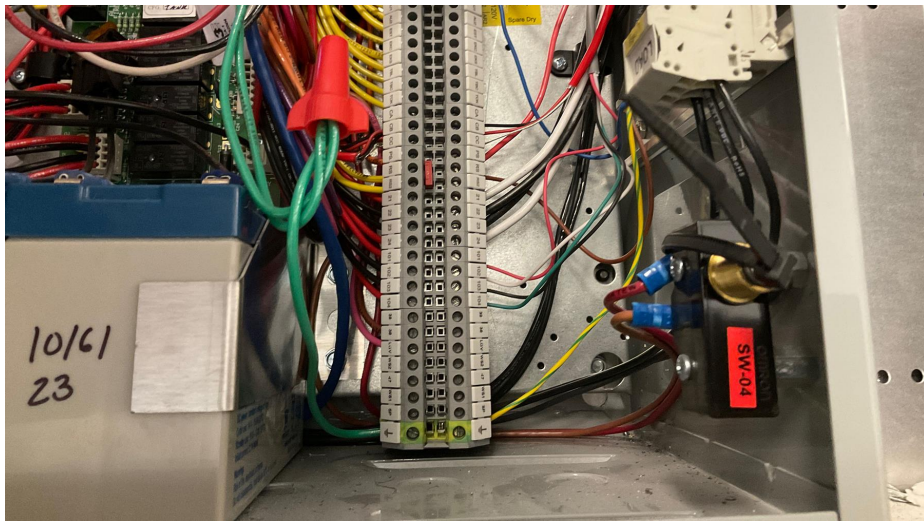
Are there any Tilt Skillets? Actual: **No**

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: <b>Yes</b>	Actual: <b>Yes</b>
CORE Interlock Wired (If multiple systems present)	Design: <b>Yes</b>	Actual: <b>Yes</b>
Extra Fire Stat Added	<b>N/A</b>	
Fire stats are wired in a fire loop with 842 degree high temp wire when ran on top of hoods	Design: <b>Yes</b>	Actual: <b>Yes</b>
CAS Service Supervised, Assisted or Wired All Supervised Loop Connections		Actual: <b>Supervised</b>
Ensure each FS Nozzle match actual Fire system drawings?	Design: <b>Yes</b>	Actual: <b>Yes</b>

### CAS Service

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

#### 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: <b>10/6/2023 4:00:00 AM</b>
--	--	-------------------------------------

Verify the correct amount of TANK	Design: <b>Yes</b>	Actual: <b>Yes</b>
-----------------------------------	--------------------	--------------------

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**

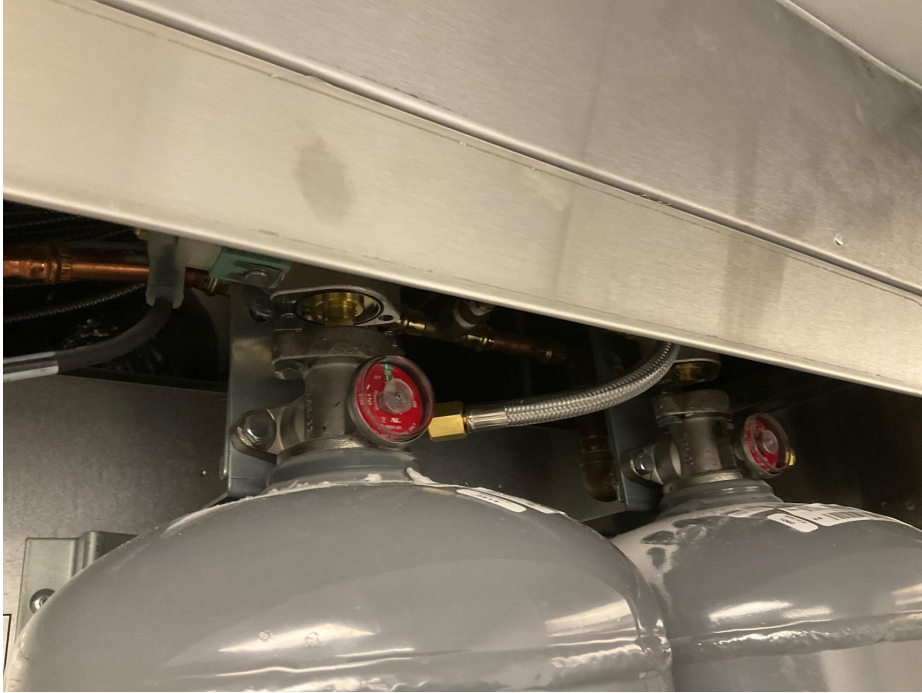
Is the system commissioned with the actuator bolted onto the TANK Fire Suppression system tank? Upload Picture.

Design: **Yes**

Actual: **No**

**Other Notes:**

N/A



Is pressure switch installed and functioning properly?

Design: **Yes**

Actual: **Yes**

Monitor the pressure 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.

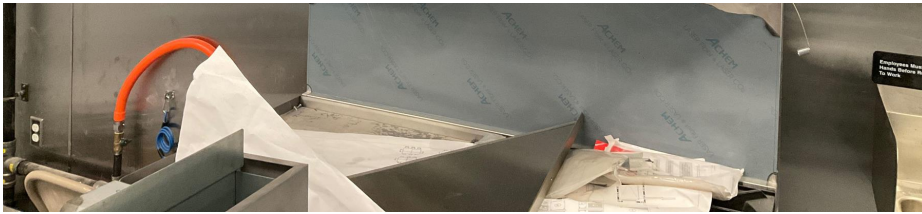
Design: **Yes**

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**

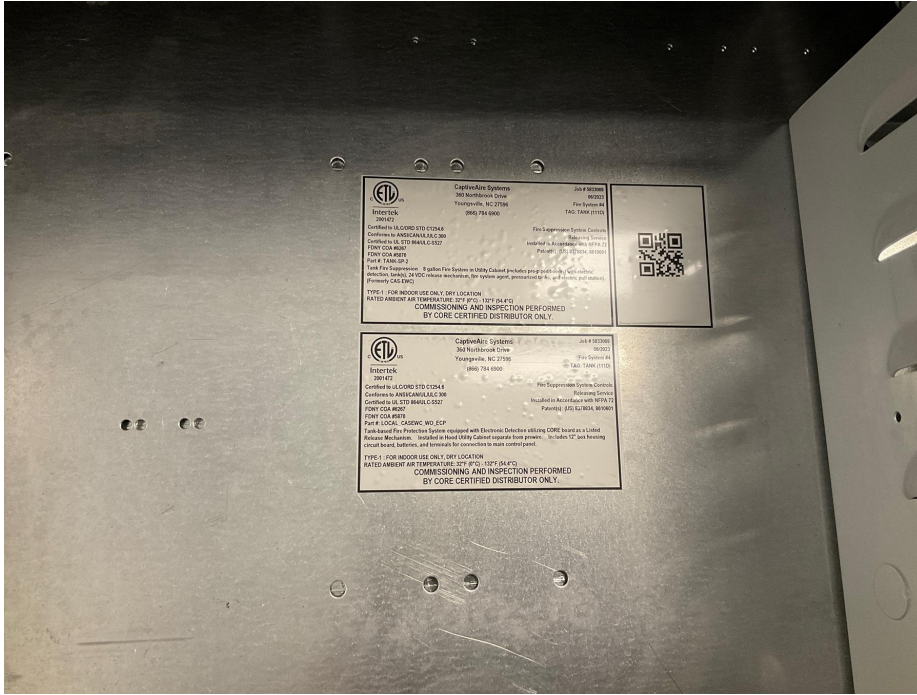
Verify Nozzle Flow Points/Tank Capabilities. Does Nozzles FP exceed Tank Capacity?	Design: <b>No</b>	Actual: <b>No</b>
Take a photo of Fire System Tag		Actual: <b>Ok</b>
Tanks installed securely with straps and mounting hardware?	Design: <b>Yes</b>	Actual: <b>Yes</b>
After inspection of system, lubricate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

## 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:**



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

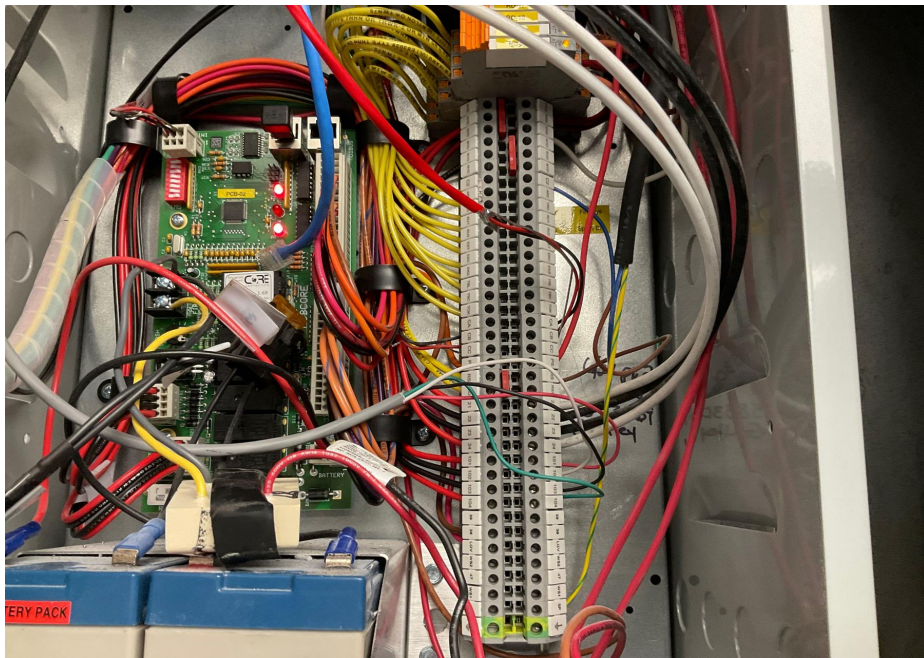
Does dedicated TANK appliance nozzle piping exceed maximum pipe length of 10 ft?	Design: <b>No</b>	Actual: <b>No</b>
Does plenum branch piping exceed maximum pipe length of 3ft?	Design: <b>No</b>	Actual: <b>No</b>
Does the Supply line piping to first overlapping nozzle exceed 42 ft?	Design: <b>No</b>	Actual: <b>No</b>
Is Back-shelf a minimum of 18" Vertically off Appliance	Design: <b>Yes</b>	Actual: <b>Yes</b>
Back-shelf Overhang less than 12"	Design: <b>Yes</b>	Actual: <b>Yes</b>
No appliance drop has more than 2 nozzles?	Design: <b>True</b>	Actual: <b>True</b>
Is all piping except appliance drops 3/8" Blackiron, Chrome plated, Stainless Steel or 1/2" Copper?	Design: <b>Yes</b>	Actual: <b>Yes</b>
Is all appliance drop piping 3/8" polished stainless steel or polished chrome-plated black iron?		Actual: <b>Yes</b>
Are there any fryers?		Actual: <b>Yes</b>
How many fryers are there?		Actual: <b>1</b>
Enter Width of Fryer 1:		Actual: <b>20</b>
Does Fryer 1 have 30" coverage?	Design: <b>Yes</b>	Actual: <b>Yes</b>
Does Fryer 2 have 30" coverage?	Design: <b>Yes</b>	Actual: <b>Yes</b>
Are there any Tilt Skillet?		Actual: <b>No</b>

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: <b>Yes</b>	Actual: <b>Yes</b>
CORE Interlock Wired (If multiple systems present)	Design: <b>Yes</b>	Actual: <b>Yes</b>
Extra Fire Stat Added	<b>N/A</b>	
Fire stats are wired in a fire loop with 842 degree high temp wire when ran on top of hoods	Design: <b>Yes</b>	Actual: <b>Yes</b>
CAS Service Supervised, Assisted or Wired All Supervised Loop Connections		Actual: <b>Supervised</b>
Ensure each FS Nozzle match actual Fire system drawings?	Design: <b>Yes</b>	Actual: <b>Yes</b>

### CAS Service

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

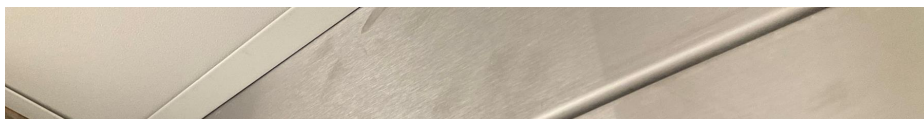
**Other Notes:**

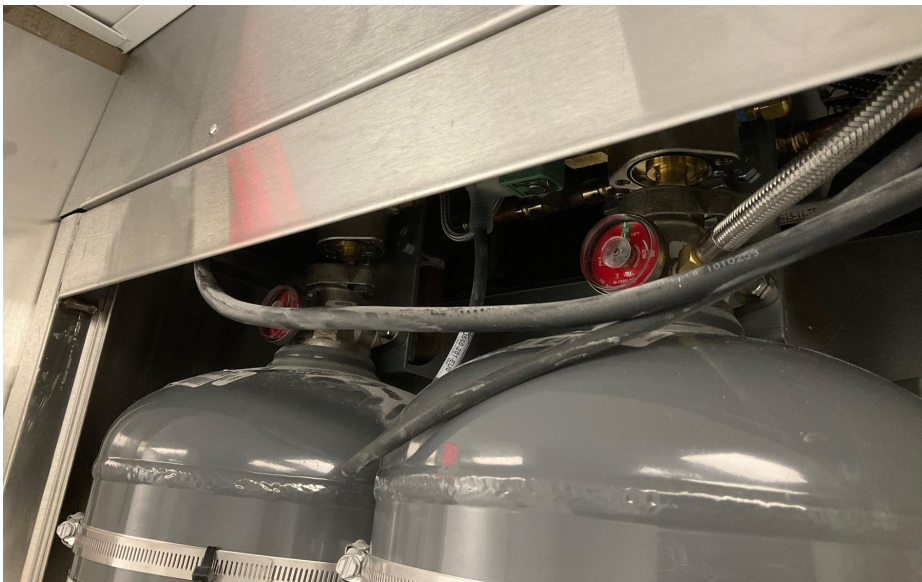
*Gas valve not installed at time of SDV. Tested for 120V when energized and 0V when in fire condition.*

Battery Date Code (The actual date FST wrote on batteries with paint pen during SDV)		Actual: <b>10/6/2023 4:00:00 AM</b>
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: <b>Yes</b>	Actual: <b>Yes</b>
Is the system commissioned with the actuator bolted onto the TANK Fire Suppression system tank? Upload Picture.	Design: <b>Yes</b>	Actual: <b>No</b>

**Other Notes:**

N/A





Is pressure switch installed and functioning properly?

Design: **Yes**

Actual: **Yes**

Monitor the pressure 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:**



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

**PCU Installations**

NONE

**PCU Installations**

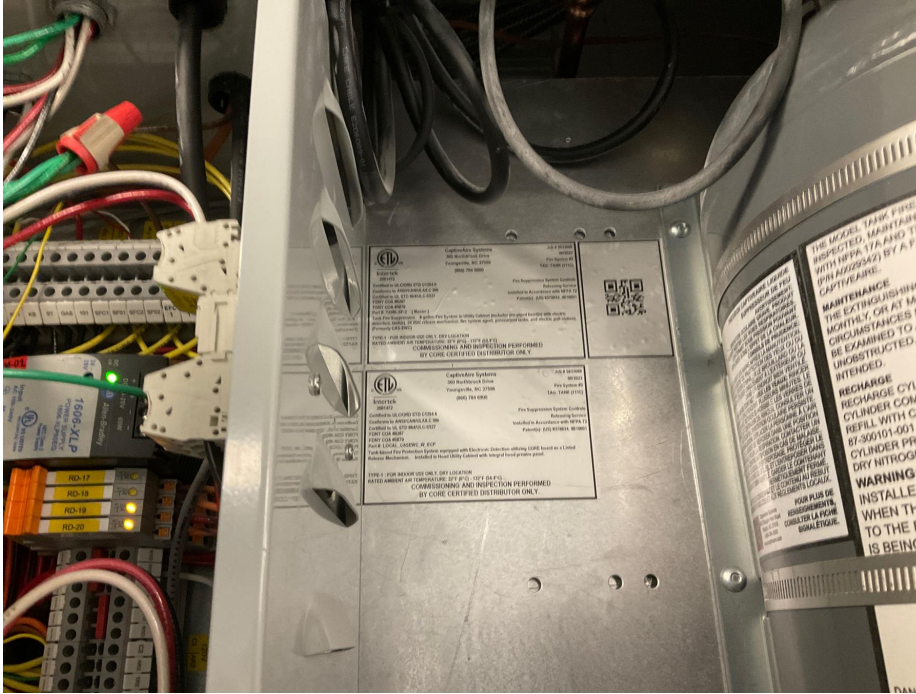
NONE

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

### TANK Fire Suppression 3 (TANK (111C))

**Location :** Hood #3 - Utility Cabinet Right

#### Electrician

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

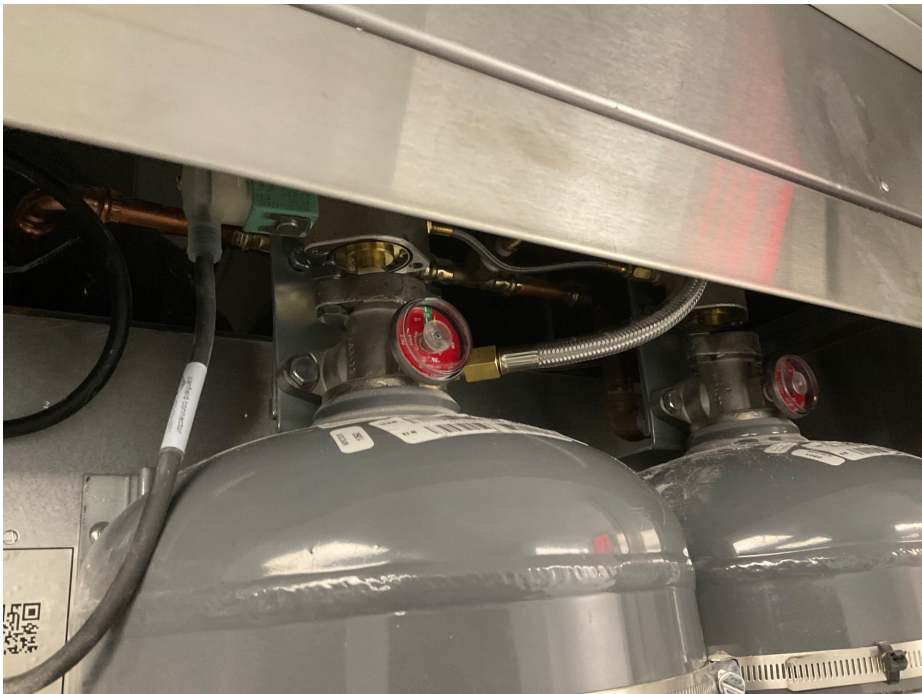
#### Fire System Contractor w/CAS Supervision

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**

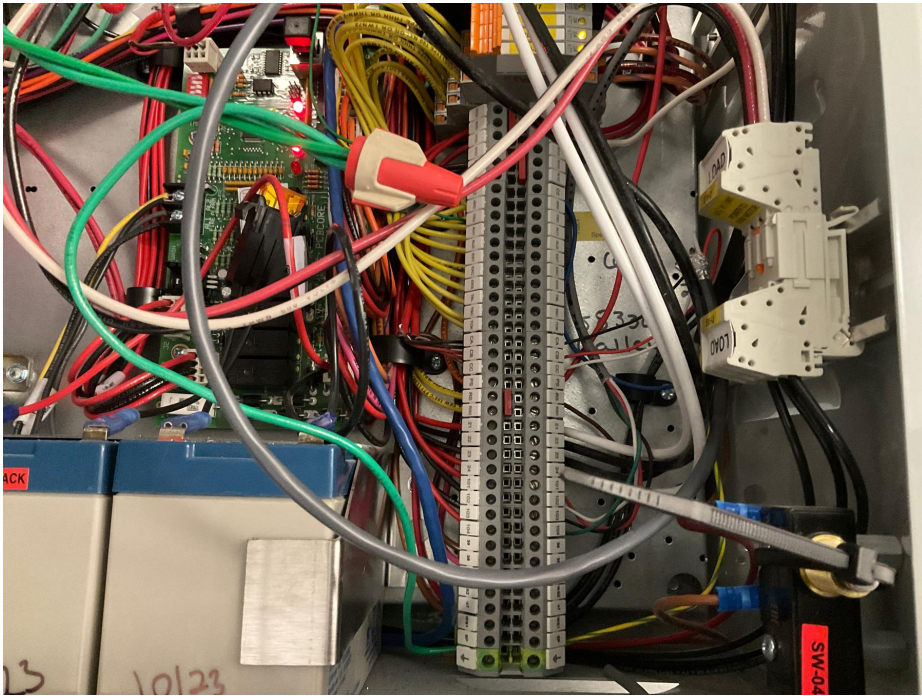
Is Manual Activation Device Wired into a Fire Loop (Must be 4 wire, in conduit)? Upload a picture of wiring connection of manual activation device.

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**

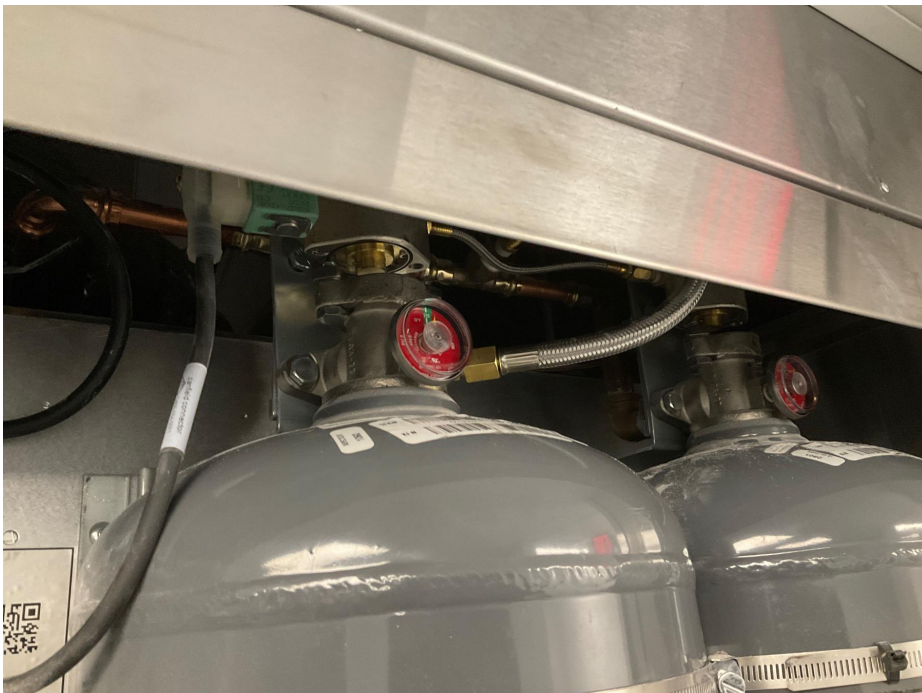
Is the system commissioned with the actuator bolted onto the TANK Fire Suppression system tank? Upload Picture.

Design: **Yes**

Actual: **No**

**Other Notes:**

N/A



Is pressure switch installed and functioning properly?

Design: **Yes**

Actual: **Yes**

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

**PCU Installations**

NONE

**PCU Installations**

NONE

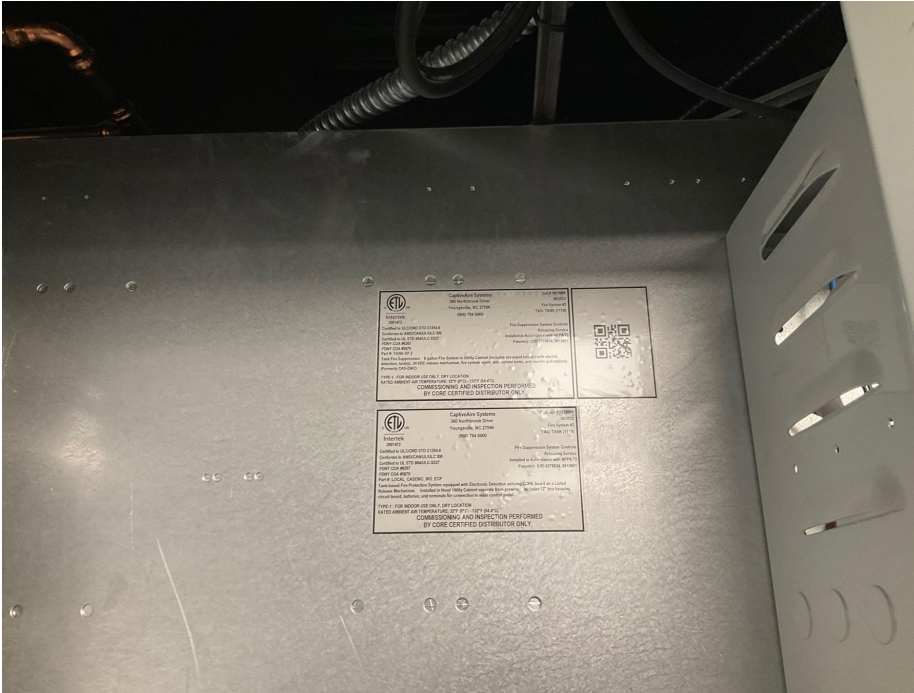
**TANK Fire Suppression 4 (TANK (111D))**

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

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**

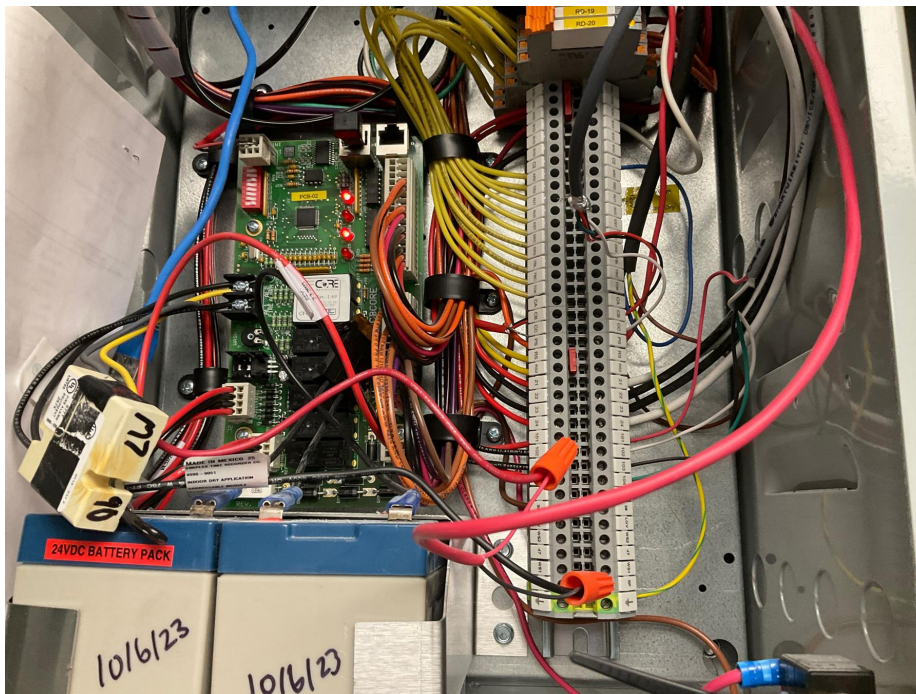
Is Manual Activation Device Wired into a Fire Loop (Must be 4 wire, in conduit)? Upload a picture of wiring connection of manual activation device.

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.*

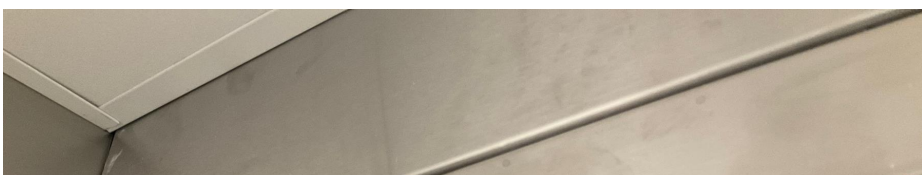
Battery Date Code (The actual date FST wrote on batteries with paint pen during SDV) Actual: **10/6/2023 4:00:00 AM**

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 pressure 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**

