



Comfort. Under control.

07-11 CULVERS - ELLISVILLE, MO

CheckList Information

Name : REMARKS **Status :** NotSubmitted

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

CheckList Item Details

PRIORITY (HIGH/LOW/INFO ONLY)

INFO ONLY

INFO ONLY

INFO ONLY

INFO ONLY

Notes/Comments :



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07-11 CULVERS - ELLISVILLE, MO

CheckList Information

Name : TECH - STEP 1: INITIAL WALKTHROUGH **Status :** NotSubmitted

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

CheckList Item Details

INITIAL SITE WALKTHROUGH

| | |
|--|-----|
| All diffusers and grilles are installed and match design? | Yes |
| Perforated diffusers are installed on the cook line? (4-ways will disrupt hood capture) | Yes |
| All hood filters installed and accounted for? | Yes |
| Hoods are wired and have power? | Yes |
| Thermostats have power? | Yes |
| Have trades/general contractor been notified about any issues and are they created on FaciliBuild? | N/A |
| On the cookline diffusers neck is there 18" (12" minimum) straight rigid duct run attached? | YES |

Notes/Comments :



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07-11 CULVERS - ELLISVILLE, MO

CheckList Information

Name : TECH - STEP 2: UNIT DATA AND EVAL **Status :** NotSubmitted
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB

CheckList Item Details

UNIT DATA AND EVALUATION WHILE GATHERING UNIT DATA CHECK THE FOLLOWING:

RTU's/AHU's

Economizers are assembled and functional? No



FuseITe2394c818d3b41a1bfd
56b388d5bf801.jpeg

Thermostat wire run from OCP on the RTU to the Ec terminal at the thermostat? If no, jumper can be installed from R to OCP temporarily. (The economizers will not open without OCP being energized.) Yes

Motors are all operating below the FLA rating? Yes

Are belts tight? YES

If direct drive unit is the speed controller working. NA

Is gas piping installed and valves turned on? Yes

| | |
|---|-----|
| Unit free of noticeable noise and vibration | Yes |
| EF's | |
| Rotation is correct? | Yes |
| Belts are tight? | YES |
| Grease cup installed on hood fan? | Yes |
| Hinge kit installed installed on hood fan? | Yes |
| Lean grease rated fans back. Is grease duct installation adequate and is duct ran all the way to the base of the fan? | Yes |
| Flex conduit is long enough so that fan can be completely tilted back? | Yes |
| There is no major leakage around base of fan? | Yes |
| Is the motor operating below the motor FLA rating? | Yes |
| For restroom fan(s) is the back draft damper installed and can it fully open? | |



**FuseIT9a391e7b6acb470e88a
2d2fba84fd65c.jpeg**

| | |
|--|-----|
| Unit free of noticeable noise and vibration? | Yes |
| The hood exhaust fans are installed in correct positions and are not switched? | Yes |
| HOODS | |
| Kitchen equipment installed in proper places? | Yes |
| Can kitchen equipment be turned on for final smoke test? | No |

Second stage Grease Grabber filters are installed on the griddle hood?

Yes

DOCUMENTATION

Have trades/general contractor been notified about any issues and are they created on FaciliBuild?

Yes

Notes/Comments :



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07-11 CULVERS - ELLISVILLE, MO

CheckList Information

Name : TECH - STEP 3: TEST, ADJUST AND BALANCE **Status :** NotSubmitted

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

CheckList Item Details

TEST, ADJUST, AND BALANCE ALL EQUIPMENT:

DURING TESTING MAKE NOTE OF THE FOLLOWING:

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

Notes/Comments :



Comfort. Under control.

07-11 CULVERS - ELLISVILLE, MO

CheckList Information

| | | | |
|----------------------------------|----------------------------|-----------------|--------------|
| Name : | TECH - STEP 4: FINAL TESTS | Status : | NotSubmitted |
| Assigned Organization : | National TAB | Asset : | |
| Requesting Organization : | National TAB | | |

CheckList Item Details

FINAL TESTS

HOOD CAPTURE TEST

| | |
|---|---|
| List equipment turned on for testing | None, cooking start ups have not been done yet. |
| List smoke candle type used | 45 second smoke emitter |
| Smoke test capture - Perimeter of hood | 100% |
| Smoke test capture - Top of cooking surface | 100% |

WITNESS

| | |
|--|---------------------------------------|
| Date test was completed | 07/13/2022 |
| TAB tech name / Firm | JACOB DAVIDSON / NATIONAL TAB |
| Site super name / Firm | CHUCK HERZOG / FICON CONSTRUCTION INC |
| Owner representative name / Firm (if Applicable) | DANIEL SIEMER / CULVER'S |
| Building pressure at front & back doors (All Systems On) | FRONT 0.0035 SIDE 0.0016 BACK 0.0023 |

ADDITIONAL

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

PRODIGY SETTINGS FOR RTU'S

| | |
|-----------------------|-----|
| Parameter 65 set to 0 | Yes |
|-----------------------|-----|

| | |
|---|-----|
| Parameter 78 set to 0 | Yes |
| Parameter 105 set to 6 | Yes |
| Parameter 156 set to 70 (Dining unit only) | Yes |
| Parameter 156 set to 65 (Kitchen Unit Only) | Yes |
| Parameter 170 set to 75 (Dining Unit Only) | Yes |
| Parameter 170 set to 70 (Kitchen Unit Only) | Yes |
| Parameter 131 set to the same % as OA minimum position? | Yes |
| Parameter 117 set to the same % as OA minimum position? | Yes |

Notes/Comments :



Comfort. Under control.

07-11 CULVERS - ELLISVILLE, MO

CheckList Information

| | | | |
|----------------------------------|------------------------------------|-----------------|--------------|
| Name : | TECH - STEP 5: FINAL DOCUMENTATION | Status : | NotSubmitted |
| Assigned Organization : | National TAB | Asset : | |
| Requesting Organization : | National TAB | | |

CheckList Item Details

FINAL DOCUMENTATION

| | |
|---|-----|
| Marked Data capture complete for all assets? | Yes |
| Picture file sent to processing team or uploaded? | Yes |
| Balance schedule complete and uploaded? | Yes |
| Prelim report generated and reviewed? | Yes |

Notes/Comments :

National TAB

Project: 07-11 CULVERS - ELLISVILLE, MO

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU1

AREA:DINING

| Unit Data | | |
|---------------------|-------------|----------------|
| | Design | Actual |
| MFG | LENNOX | LENNOX |
| Serial Num | - | 5622E01871 |
| Model Num | LGH-210-H4B | LGH-210-H4BM3Y |
| Type | - | RTU |
| Configuration | - | VERTICAL |
| Num OA Filters 1 | - | [1] |
| OA Filter Size 1 | - | [1] |
| Num Final Filter 1 | - | 6 |
| Final Filter Size 1 | - | 24X24X2 |

| Motor Data | | |
|----------------|---------|-----------|
| | Design | Actual |
| Motor MFG | - | INTERLINK |
| Frame | - | 56HZ |
| Horsepower | - | 3 |
| Motor Rpm | - | 1750 |
| Phase | 3 | 3 |
| Rated Voltage | 208/230 | 200-230 |
| Rated Amperage | - | 8.0-7.8 |

| Drive Data | | |
|--------------------|--------|-------------|
| | Design | Actual |
| Motor Sheave Size | - | 3.75" |
| Motor Bore Size | - | 7/8" |
| Motor Sheave SetPt | - | 6 TURNS OUT |
| Fan Sheave Size | - | 7" |
| Fan Sheave Bore | - | 1 3/16" |
| Belt CL Distance | - | 20.75" |
| Num of Belts | - | 1 |
| Belt Size | - | BX55 |
| Belt Alignment | - | VERIFIED |

| Test Data | | |
|------------------------|--------|----------------|
| | Design | Actual |
| SF CFM | 6000 | 5796 |
| SF RPM | - | 723 |
| RA CFM | 4250 | 3950 |
| OA CFM | 1825 | 1846 |
| RL Voltage | - | 209/207/209 |
| RL Amperage | - | 6.1/6.8/6.8 |
| SF Rotation | - | CCW |
| RA Damper Position | - | [1] 42% |
| Min OA Damper Position | - | [1] 42% |
| Min OA Damper Type | - | ECONOMIZER [1] |
| OA Enthalpy Setpt | - | 19 mA |

| Performance Data | | |
|------------------|--------|--------|
| | Design | Actual |
| MA Plenum SP | - | -0.34" |
| Fan Suction SP | - | -0.64" |
| Fan Discharge SP | - | 0.23" |
| Total ESP | - | 0.57" |
| Fan Total SP | - | 0.87" |

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

Completed By: Jacob Davidson

Notes:

National TAB

Project:07-11 CULVERS - ELLISVILLE, MO

AHU/RTU



Comfort. Under control.

Diffuser Supply (GRD)

RTU1/DINING

| Asset | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) |
|--------|---------------------|--------------------|------|------------|----|--------|--------|
| SGRD1 | Dining | SD1 | 8" | 150 | 1 | 208 | 140 |
| | FINAL CFM | % to design | | | | | |
| | 137 | 91.3 | | | | | |
| SGRD2 | Hall | SD1 | 12" | 450 | 1 | 379 | 416 |
| | FINAL CFM | % to design | | | | | |
| | 427 | 94.9 | | | | | |
| SGRD3 | Customer Order Area | SD1 | 12" | 450 | 1 | 389 | 404 |
| | FINAL CFM | % to design | | | | | |
| | 430 | 95.6 | | | | | |
| SGRD4 | Dining | SD1 | 8" | 150 | 1 | 289 | 137 |
| | FINAL CFM | % to design | | | | | |
| | 147 | 98.0 | | | | | |
| SGRD5 | Dining | SD4 | 8" | 150 | 1 | 170 | 144 |
| | FINAL CFM | % to design | | | | | |
| | 164 | 109.3 | | | | | |
| SGRD6 | Men | SD4 | 8" | 150 | 1 | 132 | 164 |
| | FINAL CFM | % to design | | | | | |
| | 155 | 103.3 | | | | | |
| SGRD7 | Dining | SD4 | 8" | 150 | 1 | 190 | 157 |
| | FINAL CFM | % to design | | | | | |
| | 156 | 104.0 | | | | | |
| SGRD8 | Dining | SD1 | 8" | 150 | 1 | 196 | 141 |
| | FINAL CFM | % to design | | | | | |
| | 144 | 96.0 | | | | | |
| SGRD9 | Dining | SD1 | 8" | 150 | 1 | 142 | 157 |
| | FINAL CFM | % to design | | | | | |
| | 156 | 104.0 | | | | | |
| SGRD10 | Dining | SD1 | 8" | 150 | 1 | 149 | 159 |
| | FINAL CFM | % to design | | | | | |
| | 141 | 94.0 | | | | | |
| SGRD11 | Dining | SD1 | 8" | 150 | 1 | 150 | 160 |
| | FINAL CFM | % to design | | | | | |
| | | | | | | | |

| | | | | | | | |
|--------|---------------------|--------------------|-------------|-------------------|-----------|---------------|---------------|
| | 146 | 97.3 | | | | | |
| SGRD12 | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) |
| | Dining | SD1 | 8" | 150 | 1 | 73 | 89 |
| | FINAL CFM | % to design | | | | | |
| | 93 | 62.0 | | | | | |
| SGRD13 | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) |
| | Dining | SD1 | 8" | 150 | 1 | 134 | 140 |
| | FINAL CFM | % to design | | | | | |
| | 153 | 102.0 | | | | | |
| SGRD14 | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) |
| | Dining | SD1 | 8" | 150 | 1 | 145 | 154 |
| | FINAL CFM | % to design | | | | | |
| | 157 | 104.7 | | | | | |
| SGRD15 | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) |
| | Dining | SD1 | 8" | 150 | 1 | 37 | 161 |
| | FINAL CFM | % to design | | | | | |
| | 142 | 94.7 | | | | | |
| SGRD16 | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) |
| | Dining | SD1 | 8" | 150 | 1 | 155 | 155 |
| | FINAL CFM | % to design | | | | | |
| | 146 | 97.3 | | | | | |
| SGRD17 | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) |
| | Dining | SD1 | 8" | 150 | 1 | 204 | 197 |
| | FINAL CFM | % to design | | | | | |
| | 147 | 98.0 | | | | | |
| SGRD18 | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) |
| | Dining | SD1 | 8" | 150 | 1 | 173 | 176 |
| | FINAL CFM | % to design | | | | | |
| | 155 | 103.3 | | | | | |
| SGRD19 | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) |
| | Dining | SD1 | 8" | 150 | 1 | 200 | 141 |
| | FINAL CFM | % to design | | | | | |
| | 163 | 108.7 | | | | | |
| SGRD20 | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) |
| | Drinks & Condiments | SD1 | 10" | 300 | 1 | 349 | 376 |
| | FINAL CFM | % to design | | | | | |
| | 317 | 105.7 | | | | | |
| SGRD21 | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) |
| | Entry | SD1 | 8" | 150 | 1 | 220 | 145 |
| | FINAL CFM | % to design | | | | | |
| | 146 | 97.3 | | | | | |
| SGRD22 | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) |
| | Customer Service | SD1 | 10" | 350 | 1 | 192 | 194 |
| | FINAL CFM | % to design | | | | | |
| | 214 | 61.1 | | | | | |
| SGRD23 | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) |
| | Customer Service | SD1 | 10" | 350 | 1 | 334 | 349 |
| | FINAL CFM | % to design | | | | | |
| | 366 | 104.6 | | | | | |
| SGRD24 | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) |
| | Customer Service | SD1 | 10" | 350 | 1 | 315 | 319 |
| | FINAL CFM | % to design | | | | | |
| | 330 | 94.3 | | | | | |
| SGRD25 | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) |
| | Customer Service | SD1 | 10" | 350 | 1 | 330 | 362 |

| | | | | | | | |
|--------|------------------|--------------------|-------------|-------------------|-----------|---------------|---------------|
| | FINAL CFM | % to design | | | | | |
| | 374 | 106.9 | | | | | |
| SGRD26 | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) |
| | Drive Thru | SD1 | 12" | 500 | 1 | 548 | 543 |
| | FINAL CFM | % to design | | | | | |
| | 493 | 98.6 | | | | | |
| SGRD27 | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) |
| | Office | SD1 | 8" | 200 | 1 | 178 | 180 |
| | FINAL CFM | % to design | | | | | |
| | 197 | 98.5 | | | | | |

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| Asset | Notes |
|-------|-------|
|-------|-------|

National TAB

Project: 07-11 CULVERS - ELLISVILLE, MO

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU2

AREA:KITCHEN

| Unit Data | | |
|---------------------|-------------|----------------|
| | Design | Actual |
| MFG | LENNOX | LENNOX |
| Serial Num | - | 5622E01390 |
| Model Num | LGH-240-H4B | LGH-240-H4BM4Y |
| Type | - | RTU |
| Configuration | - | VERTICAL |
| Num OA Filters 1 | - | 3 METAL MESH |
| OA Filter Size 1 | - | 13X23 |
| Num Final Filter 1 | - | 6 |
| Final Filter Size 1 | - | 24X24X2 |

| Test Data | | |
|------------------------|--------|-------------|
| | Design | Actual |
| SF CFM | 6225 | 6001 |
| SF RPM | - | 789 |
| RA CFM | 4525 | 4221 |
| OA CFM | 1775 | 1780 |
| RL Voltage | - | 209/211/211 |
| RL Amperage | - | 8.1/8.2/8.3 |
| SF Rotation | - | CCW |
| RA Damper Position | - | 46% |
| Min OA Damper Position | - | 46% |
| Min OA Damper Type | - | ECONOMIZER |
| OA Enthalpy Setpt | - | 19 mA |

| Motor Data | | |
|----------------|---------|------------------|
| | Design | Actual |
| Motor MFG | - | NIDEC MOTOR CORP |
| Frame | - | 184TZ |
| Horsepower | - | 5 |
| Motor Rpm | - | 1765 |
| Phase | 3 | 3 |
| Rated Voltage | 208/230 | 208-230 |
| Rated Amperage | - | 13.8-13.0 |

| Performance Data | | |
|------------------|--------|--------|
| | Design | Actual |
| MA Plenum SP | - | -0.36" |
| Fan Suction SP | - | -0.72" |
| Fan Discharge SP | - | 0.33" |
| Total ESP | - | 0.69" |
| Fan Total SP | - | 1.05" |

| Drive Data | | |
|--------------------|--------|-------------|
| | Design | Actual |
| Motor Sheave Size | - | 1VP50BB |
| Motor Bore Size | - | 1 1/8" |
| Motor Sheave SetPt | - | 3 TURNS OUT |
| Fan Sheave Size | - | 10" |
| Fan Sheave Bore | - | 1 3/16" |
| Belt CL Distance | - | 21" |
| Num of Belts | - | 1 |
| Belt Size | - | BX61 |
| Belt Alignment | - | VERIFIED |

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

Completed By: Jacob Davidson

Notes:

National TAB

Project:07-11 CULVERS - ELLISVILLE, MO

AHU/RTU



Comfort. Under control.

Diffuser Supply (GRD)

RTU2/KITCHEN

| Asset | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) |
|--------|------------------|--------------------|------|------------|----|--------|--------|
| SGRD1 | Cook Line | SD5 | 10 | 200 | 1 | 50 | 280 |
| | FINAL CFM | % to design | | | | | |
| | 195 | 97.5 | | | | | |
| SGRD2 | Cook Line | SD5 | 12 | 375 | 1 | 66 | 467 |
| | FINAL CFM | % to design | | | | | |
| | 374 | 99.7 | | | | | |
| SGRD3 | Food Prep | SD5 | 12 | 350 | 1 | 651 | 475 |
| | FINAL CFM | % to design | | | | | |
| | 354 | 101.1 | | | | | |
| SGRD4 | Food Prep | SD5 | 12 | 400 | 1 | 79 | 324 |
| | FINAL CFM | % to design | | | | | |
| | 409 | 102.3 | | | | | |
| SGRD5 | Food Prep | SD5 | 12 | 400 | 1 | 85 | 298 |
| | FINAL CFM | % to design | | | | | |
| | 395 | 98.8 | | | | | |
| SGRD6 | Cook Line | SD5 | 10 | 250 | 1 | 553 | 503 |
| | FINAL CFM | % to design | | | | | |
| | 250 | 100.0 | | | | | |
| SGRD7 | Cook Line | SD5 | 10 | 275 | 1 | 98 | 502 |
| | FINAL CFM | % to design | | | | | |
| | 285 | 103.6 | | | | | |
| SGRD8 | Sundae Service | SD1 | 12 | 600 | 1 | 690 | 654 |
| | FINAL CFM | % to design | | | | | |
| | 591 | 98.5 | | | | | |
| SGRD9 | Sundae Service | SD1 | 12 | 600 | 1 | 684 | 527 |
| | FINAL CFM | % to design | | | | | |
| | 602 | 100.3 | | | | | |
| SGRD10 | Utility Room | SD1 | 12 | 600 | 1 | 776 | 699 |
| | FINAL CFM | % to design | | | | | |
| | 566 | 94.3 | | | | | |
| SGRD11 | Dry Goods | SD1 | 12 | 600 | 1 | 565 | 530 |
| | FINAL CFM | % to design | | | | | |
| | | | | | | | |

| | | | | | | | |
|--------|-------------------|--------------------|-------------|-------------------|-----------|---------------|---------------|
| | 601 | 100.2 | | | | | |
| SGRD12 | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) |
| | Employee Restroom | SD4 | 6 | 75 | 1 | 172 | 157 |
| | FINAL CFM | % to design | | | | | |
| | 78 | 104.0 | | | | | |
| SGRD13 | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) |
| | Dish Washing | SD5 | 12 | 350 | 1 | 442 | 243 |
| | FINAL CFM | % to design | | | | | |
| | 347 | 99.1 | | | | | |
| SGRD14 | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) |
| | Dish Washing | SD5 | 12 | 350 | 1 | 705 | 376 |
| | FINAL CFM | % to design | | | | | |
| | 349 | 99.7 | | | | | |
| SGRD15 | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) |
| | Dry Goods | SD1 | 12 | 600 | 1 | 439 | 264 |
| | FINAL CFM | % to design | | | | | |
| | 344 | 57.3 | | | | | |
| SGRD16 | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) |
| | Dry Goods | SD1 | 10 | 200 | 1 | 312 | 182 |
| | FINAL CFM | % to design | | | | | |
| | 261 | 130.5 | | | | | |

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| Asset | Notes |
|-------|-------|
|-------|-------|

National TAB

Project: 07-11 CULVERS - ELLISVILLE, MO
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-A1

AREA:MOP ROOM

| Unit Data | | |
|----------------------|----------|----------|
| | Design | Actual |
| MFG | ACCUREX | ACCUREX |
| Model Num | XCR-B80 | XCR-B80 |
| Serial Num | - | 19598731 |
| Type | Celing | CEILING |
| Configuration | Vertical | VERTICAL |

| Test Data | | |
|-------------------------|--------|---------|
| | Design | Actual |
| CFM | 75 | 69 |
| Fan RPM | 885 | DD |
| Fan Rotation | - | CCW |
| Motor RPM | - | DD |
| System SetPt | - | SEE PIC |
| RL Voltage | - | 120 |
| RL Amperage | - | 0.14 |
| Total ESP | 0.125" | UTO |
| Fan Inlet SP | - | UTO |
| Fan Discharge SP | - | UTO |

| Motor Data | | |
|-------------------------|--------|-----------|
| | Design | Actual |
| Motor MFG | - | GREENHECK |
| Frame | - | NL |
| Horsepower | - | NL |
| Motor Rpm | 900 | 900 |
| Phase | 1 | 1 |
| Voltage (rated) | 115 | 115 |
| Amperage (rated) | - | 0.16 |
| Service Factor | - | 1 |

Completed By: Jacob Davidson

Notes:

| Asset | Notes |
|-------|-------|
| | |

National TAB

Project: 07-11 CULVERS - ELLISVILLE, MO

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-A1

AREA:EMPLOYEE RESTROOM

| Unit Data | | |
|---------------|----------|----------|
| | Design | Actual |
| MFG | ACCUREX | ACCUREX |
| Model Num | XCR-B80 | XCR-B80 |
| Serial Num | - | 20569652 |
| Type | Ceiling | CEILING |
| Configuration | Vertical | VERTICAL |

| Motor Data | | |
|------------------|--------|-----------|
| | Design | Actual |
| Motor MFG | - | GREENHECK |
| Frame | - | NL |
| Horsepower | - | NL |
| Motor Rpm | 900 | 900 |
| Phase | 1 | 1 |
| Voltage (rated) | 115 | 115 |
| Amperage (rated) | - | 0.16 |
| Service Factor | - | 1 |

| Test Data | | |
|------------------|--------|---------|
| | Design | Actual |
| CFM | 75 | 76 |
| Fan RPM | 885 | DD |
| Fan Rotation | - | CCW |
| Motor RPM | - | DD |
| System SetPt | - | SEE PIC |
| RL Voltage | - | 122 |
| RL Amperage | - | 0.15 |
| Total ESP | 0.125" | UTO |
| Fan Inlet SP | - | UTO |
| Fan Discharge SP | - | UTO |

Completed By: Jacob Davidson

Notes:

| Asset | Notes |
|-------|-------|
| | |

National TAB

Project: 07-11 CULVERS - ELLISVILLE, MO

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: PRV1

AREA:RESTROOM

| Unit Data | | |
|---------------|------------|----------------------|
| | Design | Actual |
| MFG | ACCUREX | ACCUREX |
| Model Num | XRED-095-D | XRED-095-6-V6-1-17-X |
| Serial Num | - | 19602648 |
| Type | Downblast | DOWNBLAST |
| Configuration | Horizontal | VERTICAL |

| Motor Data | | |
|------------------|--------|-----------------|
| | Design | Actual |
| Motor MFG | - | NL |
| Frame | - | NL |
| Horsepower | 0.0667 | 1/6 |
| Motor Rpm | 1550 | 350-1750 |
| Phase | 1 | 1 |
| Voltage (rated) | 115 | 115/208-230/277 |
| Amperage (rated) | - | 2.3/1.5/1.2 |
| Service Factor | - | 1 |

| Test Data | | |
|------------------|--------|-----------|
| | Design | Actual |
| CFM | - | 294 |
| Fan RPM | 1479 | DD |
| Fan Rotation | - | CW |
| Motor RPM | - | DD |
| System SetPt | - | 5 SEE PIC |
| RL Voltage | - | NOT SAFE |
| RL Amperage | - | NOT SAFE |
| Total ESP | 0.5" | 0.15" |
| Fan Inlet SP | - | -0.15" |
| Fan Discharge SP | - | ATM |

Completed By: Jacob Davidson

Notes:

National TAB

Project:07-11 CULVERS - ELLISVILLE, MO

FAN - Exhaust



Comfort. Under control.

Diffuser Ret/Exh (GRD)

PRV1/RESTROOM

| Asset | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) |
|-------|------------------|--------------------|-------|------------|----|--------|--------|
| EGRD1 | Women RR | EG1 | 10x10 | 150 | 1 | 346 | 147 |
| | FINAL CFM | % to design | | | | | |
| | 148 | 98.7 | | | | | |
| EGRD2 | Men RR | EG1 | 10x10 | 150 | 1 | 324 | 144 |
| | FINAL CFM | % to design | | | | | |
| | 146 | 97.3 | | | | | |

Completed By: Jacob Davidson on

| Asset | Notes |
|-------|-------|
| | |

National TAB

Project: 07-11 CULVERS - ELLISVILLE, MO
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: PRV2

AREA:HD1 GRILL

| Unit Data | | |
|---------------|---------------|----------------------|
| | Design | Actual |
| MFG | ACCUREX | ACCUREX |
| Model Num | XRUB-160XP-15 | XRUB-160XP-15-1-26-G |
| Serial Num | - | 19602763 |
| Type | Upblast | UPBLAST |
| Configuration | Vertical | VERTICAL |

| Test Data | | |
|---------------|--------|-------------|
| | Design | Actual |
| CFM | 1500 | 1469 |
| Fan RPM | 2411 | 2398 |
| Fan Rotation | - | CW |
| Motor RPM | - | 1769 |
| RL Voltage | - | 209/210/211 |
| RL Amperage | - | 3.2/3.5/3.4 |
| Suction ESP | - | -1.01 |
| Discharge ESP | - | ATM |
| Total ESP | - | 1.01 |

| Motor Data | | |
|------------------|--------|---------|
| | Design | Actual |
| Motor MFG | - | NIDEC |
| Frame | - | 56 |
| Horsepower | 1.5 | 1.5 |
| Motor Rpm | 1725 | 1760 |
| Phase | 3 | 3 |
| Voltage (rated) | 208 | 230/460 |
| Amperage (rated) | - | 4.2/2.1 |
| Service Factor | - | 1.15 |

| Drive Data | | |
|--------------------|--------|---------------------|
| | Design | Actual |
| Motor Sheave Size | - | 4.25" |
| Motor Bore Size | - | 5/8" |
| Motor Sheave SetPt | - | 1.5 TURNS OUT |
| Fan Sheave Size | - | 3.25" |
| Fan Sheave Bore | - | 1" |
| Belt CL Distance | - | 5.75" |
| Num of Belts | - | 1 |
| Belt Size | - | AX-24 |

Completed By: Jacob Davidson

Notes:

| Asset | Notes |
|-------|-------|
| | |

National TAB

Project: 07-11 CULVERS - ELLISVILLE, MO
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: PRV3

AREA:HD2 FRYER

| Unit Data | | |
|---------------|------------|-------------------|
| | Design | Actual |
| MFG | ACCUREX | ACCUREX |
| Model Num | XRUB-140-7 | XRUB-140-7-1-26-G |
| Serial Num | - | 19602805 |
| Type | Ceiling | UPBLAST |
| Configuration | Vertical | VERTICAL |

| Test Data | | |
|---------------|--------|-------------|
| | Design | Actual |
| CFM | 1500 | 1538 |
| Fan RPM | 1377 | 1025 |
| Fan Rotation | - | CW |
| Motor RPM | - | 1770 |
| RL Voltage | - | 209/210/210 |
| RL Amperage | - | 1.3/1.5/1.7 |
| Suction ESP | - | -0.85" |
| Discharge ESP | - | ATM |
| Total ESP | - | 0.85" |

| Motor Data | | |
|------------------|--------|----------|
| | Design | Actual |
| Motor MFG | - | NIDEC |
| Frame | - | 56 |
| Horsepower | 0.5 | 0.75 |
| Motor Rpm | 1725 | 1760 |
| Phase | 3 | 3 |
| Voltage (rated) | 208 | 230/460 |
| Amperage (rated) | - | 2.3/1.15 |
| Service Factor | - | 1.25 |

| Drive Data | | |
|--------------------|--------|-------------|
| | Design | Actual |
| Motor Sheave Size | - | 3.25" |
| Motor Bore Size | - | 5/8" |
| Motor Sheave SetPt | - | 5 TURNS OUT |
| Fan Sheave Size | - | 4" |
| Fan Sheave Bore | - | 11/16" |
| Belt CL Distance | - | 5.5" |
| Num of Belts | - | 1 |
| Belt Size | - | AP23 |

Completed By: Jacob Davidson

Notes:

| Asset | Notes |
|-------|-------|
| | |

National TAB

Project: 07-11 CULVERS - ELLISVILLE, MO

System/Unit: Kitchen Hood Type I



Comfort. Under control.

Asset: HD1

AREA:Griddle

| Unit Data | | |
|------------------|----------------------|----------------------|
| | Design | Actual |
| MFG | Accurex | Accurex |
| Model Num | XGEP-64-S | XGEP-64.00-S |
| Job / Serial Num | - | 19619653 |
| Type | Type I Low Proximity | TYPE I LOW PROXIMITY |
| Hood length | 64" | 64" |
| Hood Width | 23" | 23" |

| Performance Data | | |
|----------------------------|--------|-------------------------|
| | Design | Actual |
| Smoke Generation Type | - | 45 SECOND SMOKE EMITTER |
| Hood Capture % | - | 100% |
| End Panels Installed (Y/N) | - | Y |

| Test Data Exhaust | | |
|-------------------------|----------------|-----------|
| | Design | Actual |
| Filter Type | Grease Grabber | X-TRACTOR |
| Filter Size 1 | 16x16 | 16X16 |
| Filter Qty 1 | 4 | 4 |
| Filter AK factor size 1 | 1.53 | 1.53 |
| Filter Total AK Area | 6.12 | 6.12 |
| Filter1 FPM | - | 270 |
| Filter2 FPM | - | 225 |
| Filter3 FPM | - | 230 |
| Filter4 FPM | - | 235 |
| Filter Ave FPM(corr) | - | 240 |
| CFM | - | 1469 |

| General | | |
|---------------------|--------|----------------|
| | Design | Actual |
| Third Party Witness | - | DANIEL SIEMER |
| Third Party Company | - | CULVERS |
| Tech Witness | - | JACOB DAVIDSON |

| Cooking Equipment | | |
|-------------------|--------|---------|
| | Design | Actual |
| Item 1 | - | GRIDDLE |

Completed By: Jacob Davidson

Notes:

| Asset | Notes |
|-------|-------|
| | |

National TAB

Project: 07-11 CULVERS - ELLISVILLE, MO

System/Unit: Kitchen Hood Type I



Comfort. Under control.

Asset: HD2

AREA:Fryer

| Unit Data | | |
|------------------|----------------------------|----------------------------|
| | Design | Actual |
| MFG | Accurex | Accurex |
| Model Num | XXEP-83-S | XXEP-83.00-S |
| Job / Serial Num | - | 19619652 |
| Type | Type I Low Proximity | TYPE I LOW PROXIMITY |
| Hood length | 83" | 83" |
| Hood Width | 23" | 23" |

| Performance Data | | |
|----------------------------|--------|----------------------------------|
| | Design | Actual |
| Smoke Generation Type | - | 45 SECOND SMOKE EMITTER |
| Hood Capture % | - | 100% |
| End Panels Installed (Y/N) | - | Y |

| Test Data Exhaust | | |
|-------------------------|---------------------------------|---------------|
| | Design | Actual |
| Filter Type | X-Tractor Stainless Steel | X- TRACTOR |
| Filter Size 1 | 16x16 | 16X16 |
| Filter Qty 1 | 5 | 5 |
| Filter AK factor size 1 | 1.53 | 1.53 |
| Filter Total AK Area | 7.65 | 7.65 |
| Filter1 FPM | - | 213 |
| Filter2 FPM | - | 183 |
| Filter3 FPM | - | 185 |
| Filter4 FPM | - | 212 |
| Filter5 FPM | - | 213 |
| Filter Ave FPM(corr) | - | 201 |
| CFM | - | 1538 |

| General | | |
|---------------------|--------|-------------------|
| | Design | Actual |
| Third Party Witness | - | DANIEL SIEMER |
| Third Party Company | - | CULVER'S |
| Tech Witness | - | JACOB DAVIDSON |

| Cooking Equipment | | |
|-------------------|--------|--------|
| | Design | Actual |
| Item 1 | - | FRYERS |

Completed By: Jacob Davidson

Notes:

| Asset | Notes |
|-------|-------|
| | |