

Report By:

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

**NATIONAL**

**TAB**

Comfort. Under control.

**Report: FINAL TAB REPORT**  
**Function: Test, Adjust, & Balance**  
**Date: 07/25/2022**

**PROJECT**  
**08-29 NIKE LIVE - CARY, NC**

4 FENTON ST

CARY, NC

Client

Construction One

101 E. Town St

Suite 401

Columbus, OH 43215

# National TAB

Project: 08-29 NIKE LIVE - CARY, NC

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## CheckList List

- Summary of Issues

## Issue List

- EF1
- FCU1
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- SF1

## CheckList List

- TECH - STEP 1: INITIAL WALKTHROUGH
- TECH - STEP 2: UNIT DATA AND EVAL
- TECH - STEP 3: TEST, ADJUST AND BALANCE
- TECH - STEP 4: FINAL TESTS

## Project Summary

The summary below provides a quick understanding of our scope of work and general testing procedures. Enclosed in the report is further detail about your building performance including recommendations, asset data, and pictures. Our focus is to work with the trades to remedy any issues or deficiencies during the actual field balancing and not after the balancing has occurred to achieve a positive environment and outcome. The level of success is determined by the availability of the trades, possible parts needed, or time constraints.

### FCU's w/ Diffusers

Each of the FCU's were measured at their terminal devices utilizing a flow hood. The sum of these readings is equal to the total flow for that particular unit. The total flow of each FCU was then adjusted to within tolerance of the specified design. Each terminal diffuser was balanced to within tolerance of the engineer's design volume utilizing the provided hand damper located at the takeoff of the main & branch trunk line(s). Any equipment that fell outside of this tolerance is noted throughout the report.

### Variable Air Volume (VAV) Terminals

The VAV's were calibrated in a call for max cooling and the correction factors are reported on the individual asset. While in a call for full cooling, the individual air devices were then balanced within design tolerance. The VAVs were then stroked to minimum cool and the airflow values reported. The VAV was then stroked to heating and the airflow values reported. It was verified that there was a sufficient temp rise on each VAV.

### Outside Air Fan

The OAF provides ventilation air to HVAC units throughout the space. All equipment on the duct system was first turned on in a full fan speed condition. The total airflow was measured via traverse and then adjustment was made to bring the total flow within design tolerance. The individual branches to each unit were then traversed and balanced until they were within design tolerances. Once balancing was completed, the overrides were released

### General Exhaust Fans

The general exhaust fans were measured by reading each air device with a flow hood. The total airflow for each fan is equivalent to the sum of these readings. Fan speed was then adjusted so that the airflow was within tolerance of design. Each terminal device was balanced to within tolerance of the design volume using the installed volume dampers. Any equipment that fell outside of this tolerance is noted throughout the report.

### Final Building Tests

After completing the test and balance the final building pressure was measured. It was confirmed that the building pressure fell within acceptable tolerances of  $-0.02''$  wc to  $+0.02''$  wc and that the pressure measurement coincides with the actual and design net airflow. Any deviations from these standards are noted throughout the report.



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## 08-29 NIKE LIVE - CARY, NC

### CheckList Information

**Name :** Summary of Issues **Status :** Completed

**Assigned Organization :** National TAB **Asset :**

**Requesting Organization :** National TAB

### CheckList Item Details

Summary of Issues - Details of each are provided in the subsequent detailed issues

|   |   |
|---|---|
| EF1 Duct is not complete. Not connected to the room grille                | Resolution: DUCT COMPLETE FAN HAS BEEN BALANCED AND EGRD1 & EGRD2 ARE WITHIN DESIGN FAN   |
| FCU1 EMS controls not communicating: OA damper not set                    | Resolution: FCU1 Outside air damper controls are operational and communicating with Comfort Systems. Fresh air ducts have been traversed for each unit and designed amount of outside air set for each unit.              |
| FCU1 GRD#2 is connected to the Supply fan and should be connected to FCU1 | Resolution: This issue has been fixed and SGRD2 has been balanced.  |
| FCU2 EMS controls not communicating: OA damper not set                    | Resolution: FCU2 - Outside air damper controls are operational and communicating with Comfort Systems. Fresh air ducts have been traversed for each unit and designed amount of outside air set for each unit.            |
| FCU2 - VAV is not able to be controlled via EMS controls                  | Resolution: VAV damper opened when unit placed in full cooling mode   |
| FCU3 EMS controls not communicating: OA damper not set                    | Resolution: FCU3- Outside air damper controls are operational and communicating with Comfort Systems. Fresh air ducts have been traversed for each unit and designed amount of outside air set for each unit.             |
| FCU 4 EMS controls not communicating: OA damper not set                   | Resolution: FCU4 - Outside air damper controls are operational and communicating with Comfort Systems. Fresh air ducts have been traversed for each unit and designed amount of outside air set for each unit.            |
| FCU 4 is running in high speed - Unit total is low                        | Resolution: FCU4 is running in high speed, to place fan in high-speed wire taps were adjusted via carrier tech support over the phone and ems placed unit into second stage cooling mode. fan total is low of design cfm. |

FCU 5 EMS controls not communicating: OA damper not set

Resolution: This unit does not have OA ductwork run to it per plans, no outside air to balance.

FCU 5 is running in high speed - Unit total is low

Resolution: . FCU5 is running in high speed, to place fan in high-speed wire taps were adjusted via carrier tech support over the phone and EMS placed unit into second stage cooling mode. fan total is low of design cfm.

SF1 EMS controls are not communicating or reporting fan operation correctly

Resolution: SF1 - fan controls are installed and operation. fan has been traversed and balanced. Final fan speed setting is 7.2V

SF1 fan was manually shut off due to severe fan wheel grinding on housing

Resolution: this issue has been fixed and fan is operating with no grinding noise



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### 08-29 NIKE LIVE - CARY, NC

#### Project Issue Information

**Issue Name :** EF1  
**Description :** 1.EF1-1 DUCTWORK IS NOT FINISHED OR RUN TO GRILL. UNABLE TO BALANCE THIS GRILL OR FAN TILL DUCTWORK IS COMPLETED.  
**Created By :** National TAB                      **Assigned To :** National TAB - Brianna Biggs  
**Status :** Closed  
**Originated Date :** 07/07/2022 - Dale Wheeler - National TAB

#### Project Issue File Details



ef1\_1\_cary\_  
07/08/2022

#### Project Issue Response Details

- **04/27/2023 National TAB - Dale Wheeler**
  - DUCTWORK HAS BEEN COMPLETED GRILL HAS BEEN BALANCED 4/27/23

---

- **08/31/2022 National TAB - Andrew Loignon**
  - DUCTWORK IS STILL UNCONNECTED. UNABLE TO BALANCE UNTIL DUCTWORK IS CONNECTED.

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#### Project Issue Information

**Issue Name :** FCU1

**Description :** 1. EMS CONTROLS DO NOT HAVE CONTROL OVER OA DAMPERS TO EACH UNIT. OA CANNOT BE SET UNTIL THEY ARE ABLE TO EST. CONTROLS WITH THESE OA DAMPERS. 2. SGRD2 IS CONNECT TO THE SF1 DUCTWORK. IT SHOULD BE CONNECTED TO THE FCU1 SUPPLY DUCT. - FIXED EMS HAS CONTROL OF OA DAMPER, OUTSIDE HAS BEEN TRAVERSED AND DAMPER SET FOR THIS UNIT 4/27/23

**Created By :** National TAB                      **Assigned To :** National TAB - Brianna Biggs

**Status :** Closed

**Originated Date :** 07/07/2022 - Dale Wheeler - National TAB

#### Project Issue File Details



oa\_fcu1  
07/08/2022



sgrd2\_cary\_  
07/08/2022

#### Project Issue Response Details

- **04/27/2023 National TAB - Dale Wheeler**
  - SGRD2 IS CONNECT TO THE SF1 DUCTWORK. IT SHOULD BE CONNECTED TO THE FCU1 SUPPLY DUCT. - THIS ISSUE HAS BEEN FIXED EMS HAS CONTROL OF OA DAMPER, OUTSIDE HAS BEEN TRAVERSED AND DAMPER SET FOR THIS UNIT 4/27/23

• **08/31/2022 National TAB - Andrew Laignon**

- SGRD2 IS CONNECT TO THE SF1 DUCTWORK. IT SHOULD BE CONNECTED TO THE FCU1 SUPPLY DUCT, THIS ISSUE HAS STILL NOT BE ADDRESSED. SF1 CANNOT BE CONTROLLED (REFER TO SF1 ISSUE FOR MORE INFORMATION), RESULTING IN THE INABILITY TO BALANCE OA TO FCU1.
-



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### 08-29 NIKE LIVE - CARY, NC

#### Project Issue Information

**Issue Name :** FCU2

**Description :** 1.EMS CONTROLS DO NOT HAVE CONTROL OVER OA DAMPERS TO EACH UNIT. -FIXED EMS HAS CONTROL OF OA DAMPER, OUTSIDE HAS BEEN TRAVERSED AND DAMPER SET 2.CONFORT CONTROLS SYSTEM [EMS] IS NOT ABLE TO CONTROL/CALIBRATE THIS VAV BOX. EMS IS ONLY ABLE TO VIEW THE DAMPER VOLTAGE. THIS ISSUE WILL NEED TO BE RESOLVED BETWEEN CONFORT CONTROL SYSTEM AND THE MECH.

**Created By :** National TAB                      **Assigned To :** National TAB - Brianna Biggs

**Status :** Closed

**Originated Date :** 07/07/2022 - Dale Wheeler - National TAB

#### Project Issue Response Details

- **04/27/2023    National TAB - Dale Wheeler**
  - EMS HAS CONTROL OF OA DAMPER, OUTSIDE HAS BEEN TRAVERSED AND DAMPER POSITION SET 4/27/23

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- **08/31/2022    National TAB - Andrew Loignon**
  - CALLED COMFORT CONTROL SYSTEMS SPOKE WITH BRIAN, HE INFORMED US THAT FCU2 WAS UNABLE TO CONNECT/CONTROL THROUGH THEIR SYSTEMS AND WAS OFFLINE. SF1 CANNOT BE CONTROLLED (REFER TO SF1 ISSUE FOR MORE INFORMATION), RESULTING IN THE INABILITY TO BALANCE OA TO FCU2.



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### 08-29 NIKE LIVE - CARY, NC

#### Project Issue Information

**Issue Name :** FCU3  
**Description :** EMS CONTROLS DO NOT HAVE CONTROL OVER OA DAMPERS TO EACH UNIT. OA CANNOT BE SET UNTIL THEY ARE ABLE TO EST. CONTROLS WITH THESE OA DAMPERS. -FIXED EMS HAS CONTROL OF OA DAMPER, OUTSIDE HAS BEEN TRAVERSED AND DAMPER SET FOR THIS UNIT 4/27/23  
**Created By :** National TAB                      **Assigned To :** National TAB - Brianna Biggs  
**Status :** Closed  
**Originated Date :** 07/07/2022 - Dale Wheeler - National TAB

#### Project Issue Response Details

- **08/31/2022 National TAB - Andrew Loignon**
  - SF1 CANNOT BE CONTROLLED (REFER TO SF1 ISSUE FOR MORE INFORMATION), RESULTING IN THE INABILITY TO BALANCE OA TO FCU3.



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**Project Issue Information**

**Issue Name :** FCU4

**Description :** 1.FCU4 EMS CONTROLS DO NOT HAVE CONTROL OVER OA DAMPERS TO EACH UNIT. OA CANNOT BE SET UNTIL THEY ARE ABLE TO EST. CONTROLS WITH THESE OA DAMPERS. 2.FCU4 FAN IS RUNNING IN HIGH SPEED. TO PLACE FAN INTO HIGH-SPEED WIRE TAPES WERE ADJUSTED VIA CARRIER TECH SUPPORT OVER THE PHONE AND EMS PLACED UNIT INTO FULL COOLING MODE. UNIT TOTAL IS LOW

**Created By :** National TAB                      **Assigned To :** National TAB - Brianna Biggs

**Status :** Closed

**Originated Date :** 07/07/2022 - Dale Wheeler - National TAB

Project Issue Response Details

- **04/27/2023    National TAB - Dale Wheeler**
  - THIS ISSUE HAS BEEN FIXED EMS HAS CONTROL OF OA DAMPER, OUTSIDE HAS BEEN TRAVERSED AND DAMPER SET FOR THIS UNIT 4/27/23

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- **08/31/2022    National TAB - Andrew Laignon**
  - SF1 CANNOT BE CONTROLLED (REFER TO SF1 ISSUE FOR MORE INFORMATION), RESULTING IN THE INABILITY TO BALANCE OA TO FCU4. COMFORT CONTROL SYSTEMS DROVE THE UNIT TO HIGH SPEED, DUCTWORK WAS TRAVERSED READING 11% LOW OF DESIGN, READ AT 1254 CFM DESIGN IS 1400 CFM.



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#### Project Issue Information

**Issue Name :** FCU5

**Description :** 1. FCU5 EMS CONTROLS DO NOT HAVE CONTROL OVER OA DAMPERS TO EACH UNIT. OA CANNOT BE SET UNTIL THEY ARE ABLE TO EST. CONTROLS WITH THESE OA DAMPERS. 2. FCU5 FAN IS RUNNING IN HIGH SPEED. TO PLACE FAN INTO HIGH-SPEED WIRE TAPES WERE ADJUSTED VIA CARRIER TECH SUPPORT OVER THE PHONE AND EMS PLACED UNIT INTO FULL COOLING MODE. UNIT TOTAL IS LOW

**Created By :** National TAB                      **Assigned To :** National TAB - Brianna Biggs

**Status :** Closed

**Originated Date :** 07/07/2022 - Dale Wheeler - National TAB

#### Project Issue File Details



fcu5\_cary\_  
07/08/2022

#### Project Issue Response Details

- **04/27/2023 National TAB - Dale Wheeler**
  - THIS ISSUE HAS BEEN FIXED EMS HAS CONTROL OF OA DAMPER, OUTSIDE HAS BEEN TRAVERSED AND DAMPER SET FOR THIS UNIT 4/27/23
- **08/31/2022 National TAB - Andrew Loignon**

- UNIT DOES NOT HAVE OA, UNIT IS 100% RA SYSTEM. COMFORT CONTROL SYSTEMS DROVE THE UNIT TO HIGH SPEED, DUCTWORK WAS TRAVERSED READING WAS 39% LOW OF DESIGN, READING AT 741 CFM DESIGN IS 1200 CFM. RECOMEND COMFORT CONTROL SYSTEMS VERIFY CONTROL OF SYSTEM AND UNIT IS CAPABLE TO BE DRIVEN TO MAX SPEED.
-



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### 08-29 NIKE LIVE - CARY, NC

#### Project Issue Information

**Issue Name :** SF1  
**Description :** EMS HAS NO CONTROL OVER FAN SPEED, THEIR SYSTEM SAYS SF1 FAN WAS NOT RUNNING WHEN FAN WAS RUNNING 100%. THERE IS NO SPEED CONTROLLER INSTALLED ON FAN. FAN BLADES ARE ALSO GRINDING REALLY BAD, FAN WAS SHUT OFF TO PREVENT DAMAGE FROM OCCURRING. - FIXED FAN HAS BEEN BALANCED AND SET TO 7.2V  
**Created By :** National TAB                      **Assigned To :** National TAB - Brianna Biggs  
**Status :** Closed  
**Originated Date :** 07/07/2022 - Dale Wheeler - National TAB

#### Project Issue File Details



sf1\_cary  
07/08/2022

#### Project Issue Response Details

- **08/31/2022 National TAB - Andrew Loignon**
  - SF1 IS OPERATIONAL, HOWEVER COMFORT CONTROL SYSTEMS CAN NOT ADJUST FAN SPEED THROUGH THEIR SYSTEM DUE TO FAULTS, RESULTING IN SF1 NOT BEING ABLE TO BE BALANCED CAUSING THE INABILITY FOR OA OF FCU 1-4 TO BE BALANCED.



### AIR BALANCE SCHEDULE

| UNIT          | AREA SERVED | HVAC SUPPLY |        | HVAC RETURN |        | HVAC OUTDOOR |        | OA %   |        | HOOD MAKE-UP |        | HOOD EXHAUST |        | GENERAL EXH. |        |
|---------------|-------------|-------------|--------|-------------|--------|--------------|--------|--------|--------|--------------|--------|--------------|--------|--------------|--------|
|               |             | DESIGN      | ACTUAL | DESIGN      | ACTUAL | DESIGN       | ACTUAL | DESIGN | ACTUAL | DESIGN       | ACTUAL | DESIGN       | ACTUAL | DESIGN       | ACTUAL |
| FCU-1         | BOH         | 1900        | 1732   | 1610        | 1732   | 290          |        | 15.3%  | 0.0%   |              |        |              |        |              |        |
| FCU-2         | SALES       | 1400        | 1516   | 1095        | 1516   | 305          |        | 21.8%  | 0.0%   |              |        |              |        |              |        |
| FCU-3         | SALES       | 1400        | 1542   | 1095        | 1542   | 305          |        | 21.8%  | 0.0%   |              |        |              |        |              |        |
| FCU-4         | SALES       | 1400        | 1176   | 1095        | 1176   | 305          |        | 21.8%  | 0.0%   |              |        |              |        |              |        |
| FCU-5         | SOLAR ZONE  | 1200        | 870    | 1200        | 870    | 0            |        | 0.0%   | 0.0%   |              |        |              |        |              |        |
| SF-1          | FCU1-4      |             |        |             |        |              |        |        |        | 600          | 2021   |              |        |              |        |
| EF-1          | RESTROOM    |             |        |             |        |              |        |        |        |              |        |              |        | 200          | 98     |
| <b>TOTALS</b> |             | 7300        | 6836   | 6095        | 6836   | 1205         | 0      |        |        | 600          | 2021   | 0            | 0      | 200          | 98     |

#### NET BUILDING AIRFLOW CALCULATION

| TOTALS             | DESIGN | ACTUAL |
|--------------------|--------|--------|
| TOTAL OA           | 1805   | 2021   |
| TOTAL EXHAUST      | 200    | 98     |
| <b>NET AIRFLOW</b> | 1605   | 1923   |

| DOOR TESTED    | BUILDING PRESSURE MEASUREMENTS (IN. H2O) |
|----------------|--|
| FRONT          | 0.                                       |
| SIDE           |  |
| REAR           |  |
| <b>AVERAGE</b> | <b>0.</b>                                |

#### FINAL CHECKS

- ACTUAL NET AIRFLOW COINCIDES WITH DESIGN: ✓
- MEASURED PRESSURES COINCIDES WITH ACTUAL NET AIRFLOW: ✓
- PRESSURE FALLS WITHIN IMC TOLERANCE OF +/-0.02" W.C. ✓

NOTES:

# STORE FRONT



# FCU5



# FCU2



# FCU3



## FCU1



## SALES SPACE



## FCU4



## FCU5



SF1



EF1



FCU1



SF1



# FCU4





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## 08-29 NIKE LIVE - CARY, NC

### CheckList Information

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

**Assigned Organization :** National TAB      **Asset :**

**Requesting Organization :** National TAB

### CheckList Item Details

#### INITIAL SITE WALKTHROUGH

|   |   |
|---|---|
| Review Plan Review Checklist, has it been signed off and meets our standards to start balancing? If not contact processor to ensure job is ready. | YES   |
| All diffusers and grilles are installed and match design?   | FCU1 SGRD2 SUPPLY GRILL IS CONNECTED TO THE OA DUCT NOT THE UNITS SUPPLY GRILL              |
| Thermostats have power?   | UNITS ARE CONTROLLED BY A THIRD PARTY CONTROLS COMPANY STATS WITHIN STORE SPACE ARE POWERED |
| All HVAC units and fans and powered and operational?  | YES   |
| VAV diffusers (if applicable) are powered and responding to adjustment at thermostat?   | YES MECHANICAL DAMPERS ARE COMMUNICATING WITH THERMOSTATS IN ROOM FOR FCU1                  |
| Have trades/general contractor been notified about any issues and are they created on FaciliBuild?  | STORE IS OPEN LOCATION ALL ISSUES WILL BE SENT OUT IN EMAIL AT THE END OF JOB               |



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### CheckList Information

**Name :** TECH - STEP 2: UNIT DATA AND EVAL **Status :** Completed

**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?             | OA DAMPERS ARE INSTALLED BUT NOT FUNCTIONING, 3RD PARTY EMS CONTROLS SYSTEM DOES NOT HAVE CONTROL OVER OA DAMPER POSITIONS, UNABLE TO SET OA SETPOINTS TILL THIS ISSUES IS FIXED FOR ALL UNITS. |
| Motors are all operating below the FLA rating?        | YES   |
| Are belts tight?                                      | N/A   |
| If direct drive unit is the speed controller working. | YES / FANS ARE CONTROLLED BY 3RD PARTY COMPANY FANS ARE FORCED INTO COOLING/ HIGH SPEED FOR BALANCE   |
| Is gas piping installed and valves turned on?         | N/A   |
| Unit free of noticeable noise and vibration           | UNITS AMPS HAD TO BE TAKEN WITH BLOWER FAN PANEL OFF  |

##### EF's

|  |  |
|--|--|
| Rotation is correct?                       | EF1 FAN IS LOCATED ABOVE CEILING GRID AND IS NOT ACCESSIBLE / FAN IS RUNNING BUT CANNOT GAIN ACCESS TO THE INLINE FAN. |
| Belts are tight?                           | N/A  |
| Grease cup installed on hood fan           | N/A  |
| Hinge kit installed installed on hood fan? | N/A  |

|   |  |
|---|--|
| Lean fan back. Is grease duct installation adequate and is duct ran all the way to the base of the fan? | N/A  |
| Flex conduit is long enough so that fan can be completely tilted back?                                  | N/A  |
| There is no major leakage around base of fan?   | N/A  |
| Is the motor operating below the motor FLA rating?  | N/A  |
| For restroom fan(s) is the back draft damper installed and can it fully open?                           | N/A  |
| Unit free of noticeable noise and vibration?  | YES / EF1 NO / SF1 FAN WHEEL IS GRINDING UNABLE TO FIX THIS ISSUE. FAN HAS BEEN SHUT OFF TILL THIS ISSUE CAN BE RESOLVED. EMS DOES NOT HAVE COMMUNICATION WITH SF1 |

**DOCUMENTATION**

|  |  |
|--|--|
| Have trades/general contractor been notified about any issues and are they created on FaciliBuild? | THIS IS A OPEN LOCATION, GC OR TRADES ARE NOT ON SITE. ALL ISSUES WILL BE SENT OUT IN EMAIL AT THE END OF JOB. |
|--|--|

**Notes/Comments :**

EF1 FAN DUCTWORK IS NOT CONNECTED TO EF1-1 FLEX DUCT IS NOT RUN DOWN TO DIFFUSER DUCTWORK LOCATED ABOVE HARD CEILING.

**Date :**07/07/2022



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### CheckList Information

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

**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". | N/A |
|---|-----|

#### FABRIC DUCT STATIC PRESSURES (IF APPLICABLE)

|  |     |
|--|-----|
| Take static pressures near takeoff for each fabric duct once balancing is completed. Input this into the "VEL (1)" field on the diffuser asset. If not a fabric duct then, put "N/A" into the "VEL (1)" field instead. | N/A |
|--|-----|



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### CheckList Information

**Name :** TECH - STEP 4: FINAL TESTS **Status :** Completed  
**Assigned Organization :** National TAB **Asset :**  
**Requesting Organization :** National TAB

### CheckList Item Details

#### FINAL TESTS

#### BUILDING PRESSURE

|  |  |
|--|--|
| Building pressure at front & back doors (All Systems On) | FRONT DOOR -0.00" / SF1 FAN IS NOT RUNNING |
|--|--|

|   |   |
|---|---|
| Do actual net building airflow, design net building airflow, and pressure coincide? If not why? (All three should either be positive or negative) | SF1 HAD TO BE TURNED OFF DUE TO FAN GRINDING BADLY. |
|---|---|

#### CARRIER VFD PARAMETERS (IF APPLICABLE)

|  |     |
|--|-----|
| Use Carrier provided VFD cable to verify VFD speed parameters for each unit (Defaults - high speed = 60Hz, low speed = 40Hz). Can adjust high speed parameter for balancing but requires that the low speed is proportionally adjusted. Record VFD speeds on the individual assets | N/A |
|--|-----|

#### TEMPERATURES/HUMIDITIES

|   |  |
|---|--|
| Measure temperatures/humidities for outside air (taken in shade), return air, and supply air for each HVAC unit during full cooling and input into appropriate fields on the individual asset | FCU1 SUPPLY TEMP. 60F / 71% HUMIDITY / OA TEMP. 79F / HUMIDITY 82% FCU2 SUPPLY TEMP. 59F/ 72% HUMIDITY / OA TEMP. 79F / HUMIDITY 82% FCU3 SUPPLY TEMP. 56F/ 71% HUMIDITY / OA TEMP. 79F / HUMIDITY 82% FCU4 SUPPLY TEMP. 50F/ 70% HUMIDITY / OA TEMP. 79F / HUMIDITY 82% FCU5 SUPPLY TEMP. 49F / 71% HUMIDITY / OA TEMP. 79F / HUMIDITY 82% DID NOT HAVE TIME TO TAKE RETURN AIR TEMPS BEFORE STORE CLOSED, UNIT SPACE TEMP. WAS 72F |
|---|--|

#### VAV DIFFUSERS (IF APPLICABLE)

|  |   |
|--|---|
| Each VAV-diffuser is calibrated for max airflow? | NO / THESE ARE NOT ABLE TO BE CALIBRATED DUE TO CONFORT CONTROLS NOT HAVE CONTROL OVER THIS VAV BOX |
|--|---|

Each VAV diffuser is set for minimum airflow? Record value  
in notes on the individual diffuser asset

MAX AND MIN, ARE BOTH SET TO 300CFM

# National TAB

Project: 08-29 NIKE LIVE - CARY, NC  
System/Unit: AHU/RTU



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Asset: FCU1

AREA:BOH

| Unit Data           |           |            |
|---------------------|-----------|------------|
|                     | Design    | Actual     |
| MFG                 | CARRIER   | CARRIER    |
| Serial Num          | -         | 4821F11375 |
| Model Num           | FV4CNB006 | FV4CNB006  |
| Configuration       | -         | HORIZONTAL |
| Num OA Filters 1    | -         | N/A        |
| OA Filter Size 1    | -         | N/A        |
| Num Final Filter 1  | -         | 1          |
| Final Filter Size 1 | -         | 22X24X1    |

| Motor Data     |        |         |
|----------------|--------|---------|
|                | Design | Actual  |
| Motor MFG      | -      | N/L     |
| Frame          | -      | N/L     |
| Horsepower     | 3/4    | 0.75    |
| Motor Rpm      | -      | N/L     |
| Phase          | 3      | 1       |
| Rated Voltage  | 480    | 208/230 |
| Rated Amperage | -      | 6.8     |

| Drive Data   |        |        |
|--------------|--------|--------|
|              | Design | Actual |
| Num of Belts | -      | DD     |

| Test Data              |        |        |
|------------------------|--------|--------|
|                        | Design | Actual |
| SF CFM                 | 1900   | 1862   |
| SF RPM                 | -      | DD     |
| RA CFM                 | 1610   | 1587   |
| OA CFM                 | 290    | 275    |
| RL Voltage             | -      | [3]    |
| RL Amperage            | -      | 2.5    |
| SF Rotation            | -      | CCW    |
| Min OA Damper Position | -      | [2]    |

| Performance Data |        |         |
|------------------|--------|---------|
|                  | Design | Actual  |
| MA Plenum SP     | -      | -0.175" |
| Fan Suction SP   | -      | -0.519" |
| Fan Discharge SP | -      | 0.101"  |
| Total ESP        | 0.65"  | 0.276"  |
| Fan Total SP     | -      | 0.62"   |

| General                    |        |        |
|----------------------------|--------|--------|
|                            | Design | Actual |
| Unit free of Damage        | -      | YES    |
| Unit Completely Assembled  | -      | YES    |
| Unit Leveled               | -      | YES    |
| Controls Complete          | -      | YES    |
| Unit Filters Clean         | -      | YES    |
| Evap Coil Clean            | -      | YES    |
| Condensate Drain Installed | -      | YES    |

Completed By: Brianna Biggs on

Notes: [2] no safe location to take volts & amps had to be taken with supply door off

Date: 04/27/2023

# National TAB

Project:08-29 NIKE LIVE - CARY, NC

## AHU/RTU



Comfort. Under control.

### Diffuser Supply (GRD)

#### FCU1/BOH

| Asset      |                |      |      |            |        |        |           |             |
|------------|----------------|------|------|------------|--------|--------|-----------|-------------|
| Asset Name | Location       | Type | Size | DESIGN CFM | CFM(1) | CFM(2) | FINAL CFM | % to design |
| SGRD1      | IT ROOM        | CSD3 | 10"  | 250        | 155    | 153    | 226       | 90.4        |
| SGRD2      | RESTROOM       | CSD3 | 6"   | 75         | 65     | 65     | 68        | 90.7        |
| SGRD3      | FOH PIP        | CSD2 | 8"   | 100        | 107    | 137    | 108       | 108.0       |
| SGRD4      | COACH'S OFFICE | CSD1 | 8"   | 200        | 181    | 181    | 183       | 91.5        |
| SGRD5      | HALLWAY        | CSD2 | 8"   | 100        | 91     | 93     | 99        | 99.0        |
| SGRD6      | S&R            | CSD2 | 8"   | 200        | 186    | 199    | 201       | 100.5       |
| SGRD7      | S&R            | CSD2 | 8"   | 200        | 192    | 208    | 213       | 106.5       |
| SGRD8      | S&R            | CSD2 | 8"   | 200        | 187    | 178    | 182       | 91.0        |
| SGRD9      | S&R            | CSD2 | 8"   | 200        | 209    | 227    | 242       | 121.0       |
| SGRD10     | BREAKROOM      | CSD1 | 8"   | 200        | 137    | 141    | 181       | 90.5        |
| SGRD11     | BREAKROOM      | CSD1 | 8"   | 175        | 122    | 127    | 159       | 90.9        |

Completed By: Brianna Biggs on 08/15/2022

# National TAB

Project: 08-29 NIKE LIVE - CARY, NC  
System/Unit: AHU/RTU



Comfort. Under control.

Asset: FCU2

AREA:SALES

| Unit Data           |           |            |
|---------------------|-----------|------------|
|                     | Design    | Actual     |
| MFG                 | CARRIER   | CARRIER    |
| Serial Num          | -         | 4821F11362 |
| Model Num           | FV4CNB006 | FV4CNB006  |
| Configuration       | -         | HORIZONTAL |
| Num OA Filters 1    | -         | N/A        |
| OA Filter Size 1    | -         | N/A        |
| Num Final Filter 1  | -         | 1          |
| Final Filter Size 1 | -         | 22X24X1    |

| Test Data      |        |        |
|----------------|--------|--------|
|                | Design | Actual |
| SF CFM         | 1400   | 1263   |
| SF RPM         | -      | DD     |
| RA CFM         | 1095   | 982    |
| OA CFM         | 305    | 281    |
| RL Voltage     | -      | [3]    |
| RL Amperage    | -      | 1.8    |
| SF Rotation    | -      | CCW    |
| OA Damper Type | -      | [1]    |

| Motor Data     |        |         |
|----------------|--------|---------|
|                | Design | Actual  |
| Motor MFG      | -      | N/L     |
| Frame          | -      | N/L     |
| Horsepower     | 3/4    | 0.75    |
| Motor Rpm      | -      | N/L     |
| Phase          | 3      | 1       |
| Rated Voltage  | 480    | 230/208 |
| Rated Amperage | -      | 6.8     |

| Performance Data |        |        |
|------------------|--------|--------|
|                  | Design | Actual |
| MA Plenum SP     | -      | -0.12" |
| Fan Suction SP   | -      | -0.46" |
| Fan Discharge SP | -      | 0.11"  |
| Total ESP        | 0.85"  | 0.23"  |
| Fan Total SP     | -      | 0.57"  |

| Drive Data   |        |        |
|--------------|--------|--------|
|              | Design | Actual |
| Num of Belts | -      | DD     |

| General                    |        |        |
|----------------------------|--------|--------|
|                            | Design | Actual |
| Unit free of Damage        | -      | YES    |
| Unit Completely Assembled  | -      | YES    |
| Unit Leveled               | -      | YES    |
| Controls Complete          | -      | YES    |
| Unit Filters Clean         | -      | YES    |
| Evap Coil Clean            | -      | YES    |
| Condensate Drain Installed | -      | YES    |

Completed By: Brianna Biggs on

Notes: [2] no safe location to take volts & amps had to be taken with supply door off

Date: 04/27/2023

# National TAB

Project:08-29 NIKE LIVE - CARY, NC

## AHU/RTU



Comfort. Under control.

**Diffuser Supply (GRD)**

**FCU2/SALES**

| Asset      |          |      |      |            |        |        |           |             |
|------------|----------|------|------|------------|--------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | CFM(2) | FINAL CFM | % to design |
| SGRD1      | FOH PIP  | CSD2 | 10"  | 225        | 270    | 270    | 241       | 107.1       |
| SGRD2      | FOH PIP  | CSD2 | 10"  | 225        | 270    | 303    | 246       | 109.3       |
| SGRD3      | FOH PIP  | CSD2 | 10"  | 225        | 242    | 347    | 242       | 107.6       |
| SGRD4      | FOH PIP  | CSD2 | 10"  | 225        | 296    | 296    | 234       | 104.0       |
| VAV1       | VAV1     | -    | 9"   | 500        | 300    | 300    | 300       | 60.0        |

Completed By: Brianna Biggs on 08/15/2022

| Asset | Notes  | Date       |
|-------|--|------------|
| VAV1  | [1] COMFORT CONTROLS SYSTEM [EMS] IS NOT ABLE TO CALIBRATE/CONTROL THIS VAV BOX. EMS IS ONLY ABLE TO VIEW THE DAMPER VOLTAGE. THIS ISSUE WILL NEED TO BE RESOLVED BETWEEN COMFORT CONTROL SYSTEM AND THE MECHANICAL FIELD TECH WHO INSTALLED THE CONTROLS. | 08/15/2022 |

# National TAB

Project: 08-29 NIKE LIVE - CARY, NC  
System/Unit: AHU/RTU



Comfort. Under control.

Asset: FCU3

AREA:SALES

| Unit Data           |           |            |
|---------------------|-----------|------------|
|                     | Design    | Actual     |
| MFG                 | CARRIER   | CARRIER    |
| Serial Num          | -         | 4821F11361 |
| Model Num           | FV4CNB006 | FV4CNB006  |
| Configuration       | -         | HORIZONTAL |
| Num OA Filters 1    | -         | N/A        |
| OA Filter Size 1    | -         | N/A        |
| Num Final Filter 1  | -         | 1          |
| Final Filter Size 1 | -         | 22X24X1    |

| Test Data   |        |        |
|-------------|--------|--------|
|             | Design | Actual |
| SF CFM      | 1400   | 1502   |
| SF RPM      | -      | DD     |
| RA CFM      | 1095   | 1215   |
| OA CFM      | 305    | 287    |
| RL Voltage  | -      | [2]    |
| RL Amperage | -      | 2.7    |
| SF Rotation | -      | CCW    |

| Motor Data     |        |         |
|----------------|--------|---------|
|                | Design | Actual  |
| Motor MFG      | -      | N/L     |
| Frame          | -      | N/L     |
| Horsepower     | 3/4    | 0.75    |
| Motor Rpm      | -      | N/L     |
| Phase          | 3      | 1       |
| Rated Voltage  | 480    | 208/230 |
| Rated Amperage | -      | 6.8     |

| Performance Data |        |         |
|------------------|--------|---------|
|                  | Design | Actual  |
| MA Plenum SP     | -      | -0.132" |
| Fan Suction SP   | -      | -0.511" |
| Fan Discharge SP | -      | 0.14"   |
| Total ESP        | 0.60"  | 0.272"  |
| Fan Total SP     | -      | 0.651"  |

| Drive Data   |        |        |
|--------------|--------|--------|
|              | Design | Actual |
| Num of Belts | -      | DD     |

| General                    |        |        |
|----------------------------|--------|--------|
|                            | Design | Actual |
| Unit free of Damage        | -      | YES    |
| Unit Completely Assembled  | -      | YES    |
| Unit Leveled               | -      | YES    |
| Controls Complete          | -      | YES    |
| Unit Filters Clean         | -      | YES    |
| Evap Coil Clean            | -      | YES    |
| Condensate Drain Installed | -      | YES    |

Completed By: Brianna Biggs on

Notes: [2] no safe location to take volts & amps had to be taken with supply door off

Date: 04/27/2023

# National TAB

Project:08-29 NIKE LIVE - CARY, NC

## AHU/RTU



Comfort. Under control.

**Diffuser Supply (GRD)**

**FCU3/SALES**

| Asset      |          |      |      |            |    |        |        |        |        |           |             |
|------------|----------|------|------|------------|----|--------|--------|--------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | AK | VEL(1) | CFM(1) | VEL(2) | CFM(2) | FINAL CFM | % to design |
| SGRD1      | SALES    | DSG1 | 10X6 | 200        | 1  |        | 236    |        | 236    | 218       | 109.0       |
| SGRD2      | SALES    | DSG1 | 10X6 | 200        | 1  |        | 236    |        | 236    | 214       | 107.0       |
| SGRD3      | SALES    | DSG1 | 10X6 | 200        | 1  | 225    | 225    |        | 216    | 217       | 108.5       |
| SGRD4      | SALES    | DSG1 | 10X6 | 200        | 1  | 237    | 237    |        | 201    | 214       | 107.0       |
| SGRD5      | SALES    | DSG1 | 10X6 | 200        | 1  | 199    | 199    |        | 227    | 209       | 104.5       |
| SGRD6      | SALES    | DSG1 | 10X6 | 200        | 1  | 192    | 192    |        | 183    | 211       | 105.5       |
| SGRD7      | SALES    | DSG1 | 10X6 | 200        | 1  | 287    | 287    |        | 256    | 219       | 109.5       |

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# National TAB

Project: 08-29 NIKE LIVE - CARY, NC  
System/Unit: AHU/RTU



Comfort. Under control.

Asset: FCU4

AREA:SALES

| Unit Data           |           |            |
|---------------------|-----------|------------|
|                     | Design    | Actual     |
| MFG                 | CARRIER   | CARRIER    |
| Serial Num          | -         | 4821F11378 |
| Model Num           | FV4CNB006 | FV4CNB006  |
| Configuration       | -         | HORIZONTAL |
| Num Final Filter 1  | -         | 1          |
| Final Filter Size 1 | -         | 22X24X1    |

| Motor Data     |        |         |
|----------------|--------|---------|
|                | Design | Actual  |
| Motor MFG      | -      | N/L     |
| Frame          | -      | N/L     |
| Horsepower     | 3/4    | .75     |
| Motor Rpm      | -      | N/L     |
| Phase          | 3      | 1       |
| Rated Voltage  | 480    | 208/230 |
| Rated Amperage | -      | 6.8     |

| Drive Data   |        |        |
|--------------|--------|--------|
|              | Design | Actual |
| Num of Belts | -      | DD     |

| Test Data              |        |        |
|------------------------|--------|--------|
|                        | Design | Actual |
| SF CFM                 | 1400   | 1176   |
| SF RPM                 | -      | DD     |
| RA CFM                 | 1095   | 868    |
| OA CFM                 | 305    | 308    |
| RL Voltage             | -      | [2]    |
| RL Amperage            | -      | 1.8    |
| SF Rotation            | -      | CCW    |
| Min OA Damper Position | -      | [3]    |

| Performance Data |        |         |
|------------------|--------|---------|
|                  | Design | Actual  |
| MA Plenum SP     | -      | -0.12"  |
| Fan Suction SP   | -      | -0.284" |
| Fan Discharge SP | -      | 0.11"   |
| Total ESP        | 0.65"  | 0.23"   |
| Fan Total SP     | -      | 0.394"  |

| General                    |        |        |
|----------------------------|--------|--------|
|                            | Design | Actual |
| Unit free of Damage        | -      | YES    |
| Unit Completely Assembled  | -      | YES    |
| Unit Leveled               | -      | YES    |
| Controls Complete          | -      | YES    |
| Unit Filters Clean         | -      | YES    |
| Evap Coil Clean            | -      | YES    |
| Condensate Drain Installed | -      | YES    |

Completed By: Dale Wheeler on 04/27/2023

# National TAB

Project:08-29 NIKE LIVE - CARY, NC

## AHU/RTU



Comfort. Under control.

### Diffuser Supply (GRD)

#### FCU4/SALES

| Asset      |          |      |      |            |    |        |        |        |        |           |             |
|------------|----------|------|------|------------|----|--------|--------|--------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | AK | VEL(1) | CFM(1) | VEL(2) | CFM(2) | FINAL CFM | % to design |
| SGRD1      | SALES    | DSG1 | 10X6 | 200        | 1  |        | -      | -      | -      |           | -           |
| SGRD2      | SALES    | DSG1 | 10X6 | 200        | 1  |        | -      | -      | -      |           | -           |
| SGRD3      | SALES    | DSG1 | 10X6 | 200        | 1  |        | 153    | 153    | 153    | 153       | 76.5        |
| SGRD4      | SALES    | DSG1 | 10X6 | 200        | 1  |        | 169    | 169    | 169    | 169       | 84.5        |
| SGRD5      | SALES    | DSG1 | 10X6 | 200        | 1  |        | 200    | 200    | 200    | 200       | 100.0       |
| SGRD6      | SALES    | DSG1 | 10X6 | 200        | 1  |        | 188    | 188    | 188    | 188       | 94.0        |
| SGRD7      | SALES    | DSG1 | 10X6 | 200        | 1  |        | 196    | 196    | 196    | 196       | 98.0        |

Completed By: Brianna Biggs on

| Asset | Notes   | Date       |
|-------|---|------------|
| SGRD1 | SGRD1 CANNOT PHYSICALLY BE ACCESSED IN STORE SPACE TO BE READ | 08/15/2022 |
| SGRD2 | SGRD2 CANNOT BE PHYSICALLY ACCESSED IN THE STORE TO READ      | 08/15/2022 |

# National TAB

Project: 08-29 NIKE LIVE - CARY, NC  
System/Unit: AHU/RTU



Comfort. Under control.

Asset: FCU5

AREA: SOLAR ZONE

| Unit Data           |           |            |
|---------------------|-----------|------------|
|                     | Design    | Actual     |
| MFG                 | CARRIER   | CARRIER    |
| Serial Num          | -         | 5221F46291 |
| Model Num           | FV4CNB003 | FV4CNF003  |
| Configuration       | -         | HORIZONTAL |
| Num OA Filters 1    | -         | N/A        |
| OA Filter Size 1    | -         | N/A        |
| Num Final Filter 1  | -         | 1          |
| Final Filter Size 1 | -         | 20x22x1    |

| Test Data              |        |        |
|------------------------|--------|--------|
|                        | Design | Actual |
| SF CFM                 | 1200   | 870    |
| SF RPM                 | -      | DD     |
| RA CFM                 | 1200   | 870    |
| OA CFM                 | -      | -      |
| RL Voltage             | -      | [2]    |
| RL Amperage            | -      | 0.14   |
| SF Rotation            | -      | CCW    |
| Min OA Damper Position | -      | [3]    |

| Motor Data     |        |         |
|----------------|--------|---------|
|                | Design | Actual  |
| Motor MFG      | -      | N/L     |
| Frame          | -      | N/L     |
| Horsepower     | 1/2    | 0.50    |
| Motor Rpm      | -      | N/L     |
| Phase          | 3      | 1       |
| Rated Voltage  | 480    | 208/230 |
| Rated Amperage | -      | 4.3     |

| Performance Data |        |         |
|------------------|--------|---------|
|                  | Design | Actual  |
| MA Plenum SP     | -      | -0.05"  |
| Fan Suction SP   | -      | -0.191" |
| Fan Discharge SP | -      | 0.017"  |
| Total ESP        | 0.65"  | 0.067"  |
| Fan Total SP     | -      | 0.208"  |

| Drive Data   |        |        |
|--------------|--------|--------|
|              | Design | Actual |
| Num of Belts | -      | DD     |

| General                    |        |        |
|----------------------------|--------|--------|
|                            | Design | Actual |
| Unit free of Damage        | -      | YES    |
| Unit Completely Assembled  | -      | YES    |
| Unit Leveled               | -      | YES    |
| Controls Complete          | -      | YES    |
| Unit Filters Clean         | -      | YES    |
| Evap Coil Clean            | -      | YES    |
| Condensate Drain Installed | -      | YRS    |

Completed By: Dale Wheeler on 04/27/2023

# National TAB

Project:08-29 NIKE LIVE - CARY, NC

## AHU/RTU



Comfort. Under control.

**Diffuser Supply (GRD)**

**FCU5/SOLAR ZONE**

| Asset      |          |      |      |            |    |        |        |        |        |           |             |
|------------|----------|------|------|------------|----|--------|--------|--------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | AK | VEL(1) | CFM(1) | VEL(2) | CFM(2) | FINAL CFM | % to design |
| SGRD1      | WELCOM E | DSG1 | 14X6 | 300        | 1  |        | 217    | 300    | 217    | 217       | 72.3        |
| SGRD2      | WELCOM E | DSG1 | 14X6 | 300        | 1  |        | 217    | 3      | 217    | 217       | 72.3        |
| SGRD3      | WELCOM E | DSG1 | 14X6 | 300        | 1  |        | 218    |        | 218    | 218       | 72.7        |
| SGRD4      | WELCOM E | DSG1 | 14X6 | 300        | 1  |        | 218    |        | 218    | 218       | 72.7        |

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# National TAB

Project: 08-29 NIKE LIVE - CARY, NC

## System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF1

AREA:RESTROOM

| Unit Data            |            |            |
|----------------------|------------|------------|
|                      | Design     | Actual     |
| <b>MFG</b>           | GREENHECK  | GREENHECK  |
| <b>Model Num</b>     | SQ-080-VG  | SQ-080-VG  |
| <b>Serial Num</b>    | -          | N/A        |
| <b>Type</b>          | INLINE     | INLINE     |
| <b>Configuration</b> | HORIZONTAL | HORIZONTAL |

| Test Data  |        |        |
|------------|--------|--------|
|            | Design | Actual |
| <b>CFM</b> | 200    | 216    |

| Motor Data |        |        |
|------------|--------|--------|
|            | Design | Actual |
|            |        |        |

| Drive Data |        |        |
|------------|--------|--------|
|            | Design | Actual |
|            |        |        |

Completed By: Brianna Biggs on

Notes: [1] unable to access fan due to height and placement of fan above ceiling grid.

Date: 04/27/2023

# National TAB

Project:08-29 NIKE LIVE - CARY, NC

## FAN - Exhaust



Comfort. Under control.

**Diffuser Ret/Exh (GRD)**

**EF1/RESTROOM**

| Asset      |           |        |      |      |            |    |        |        |        |        |           |             |
|------------|-----------|--------|------|------|------------|----|--------|--------|--------|--------|-----------|-------------|
| Asset Name | Model Num | MFG    | Type | Size | DESIGN CFM | AK | VEL(1) | CFM(1) | VEL(2) | CFM(2) | FINAL CFM | % to design |
| EGRD1      | NA        | RETURN | CEG1 | 6"   | 75         | 1  |        | 0      | 0      | 0      | 82        | 109.3       |
| EGRD2      | NA        | RETURN | CEG1 | 8"   | 125        | 1  |        | 98     | 98     | 98     | 134       | 107.2       |

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# National TAB

Project: 08-29 NIKE LIVE - CARY, NC  
System/Unit: FAN - Supply



Comfort. Under control.

Asset: SF1

AREA:FCU1-4

| Unit Data     |            |            |
|---------------|------------|------------|
|               | Design     | Actual     |
| MFG           | GREENHECK  | GREENHECK  |
| Model Num     | SQ-120-VG  | SQ-120-VG  |
| Serial Num    | -          | N/L        |
| Type          | INLINE     | INLINE     |
| Configuration | HORIZONTAL | HORIZONTAL |

| Motor Data       |        |        |
|------------------|--------|--------|
|                  | Design | Actual |
| Motor MFG        | -      | N/A    |
| Frame            | -      | N/A    |
| Horsepower       | 1/2    | N/A    |
| Motor Rpm        | -      | N/A    |
| Phase            | 1      | N/A    |
| Voltage (rated)  | 120    | N/A    |
| Amperage (rated) | -      | N/A    |
| Service Factor   | -      | N/A    |

| Drive Data |        |        |
|------------|--------|--------|
|            | Design | Actual |
|            |        |        |

| Gas Heat                  |        |        |
|---------------------------|--------|--------|
|                           | Design | Actual |
| Heater Operates (y/n)     | -      |        |
| Flame Status (pass/fail)  | -      |        |
| Inlet Air Temp SetPt      | -      |        |
| Discharge Air Temp SetPt  | -      |        |
| Air Flow Switch SP Actual | -      |        |

| Electric Coil |        |        |
|---------------|--------|--------|
|               | Design | Actual |
|               |        |        |

| Hot Water Coil |        |        |
|----------------|--------|--------|
|                | Design | Actual |
|                |        |        |

| Steam Coil |        |        |
|------------|--------|--------|
|            | Design | Actual |
|            |        |        |

| Condensor DX Coil |        |        |
|-------------------|--------|--------|
|                   | Design | Actual |
|                   |        |        |

| Condensor Fan |        |        |
|---------------|--------|--------|
|               | Design | Actual |
|               |        |        |

| Test Data       |        |         |
|-----------------|--------|---------|
|                 | Design | Actual  |
| CFM             | 600    | 658     |
| SF RPM          | 1602   | DD      |
| Motor RPM       | -      | DD      |
| SF System SetPt | -      | 7.2V    |
| RL Voltage      | -      | [1]     |
| RL Amperage     | -      | [1]     |
| Total ESP       | -      | 0.137"  |
| Fan Inlet SP    | -      | -0.137" |

| Combustion Fan Motor Data |        |        |
|---------------------------|--------|--------|
|                           | Design | Actual |
|                           |        |        |

| Combustion Gas Duct |        |        |
|---------------------|--------|--------|
|                     | Design | Actual |
|                     |        |        |

| Chilled Water Coil |        |        |
|--------------------|--------|--------|
|                    | Design | Actual |
|                    |        |        |

| Evaporator DX Coil |        |        |
|--------------------|--------|--------|
|                    | Design | Actual |
|                    |        |        |

| Evaporative Cooler |        |        |
|--------------------|--------|--------|
|                    | Design | Actual |
|                    |        |        |

| Compressors |        |        |
|-------------|--------|--------|
|             | Design | Actual |
|             |        |        |

| General |        |        |
|---------|--------|--------|
|         | Design | Actual |
|         |        |        |

Completed By: Dale Wheeler on 04/27/2023

# National TAB

Project:08-29 NIKE LIVE - CARY, NC



Comfort. Under control.

## VAV - Single Duct

### EQUIPMENT/

| Asset      |                |         |         |              |
|------------|----------------|---------|---------|--------------|
| Asset Name | Design Max CFM | Max CFM | Min CFM | Damper SetPt |
| VAV1       | 500            | 300     | 300     | 37V          |

1 HVAC PLAN  
3/16" = 1'-0"

2 ENLARGED BACK OF HOUSE HVAC PLAN  
1/4" = 1'-0"

