

Report By:

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

NATIONAL

TAB

Comfort. Under control.

Report: Test and Balance

Date: 12/13/2021

PROJECT

**GSA IL0236FC John C. Kluczynski Fed.
BLDG. (Chicago, IL)**

230 S Dearborn St.

Chicago, IL

Client

44-A Peapack Road

Far hills, NJ 07931



Facili**Build**
make it easy

National TAB

Project: GSA IL0236FC John C. Kluczynski Fed. BLDG. (Chicago, IL)

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GSA IL0236FC John C. Kluczynski Fed. BLDG. (Chicago, IL)

CheckList Information

Name : AHU-17 **Status :** NotSubmitted
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB

CheckList Item Details

AHU Measurement NOVA Third Party Contractor Fill Out. Measure and verify the building minimum and maximum outdoor air for each AHU providing outdoor air to the building.

Supply Air CFM Measured:	Design: 22,000 / Actual: 21,160 CFM
Confirm DCV is Disabled (Demand Controlled Ventilation)	Confirmed
Outside Air Measurement Method (Direct PT or SA-RA PT)	Direct
Outside Air CFM Measured: (Maximum and Minimum OA CFM)	5,917 CFM
If Outside Air CFM is determined by Supply - Return air CFM, document the Measured Return Air CFM:	NA
Does AHU have full air side economizer?	Yes
BAS Setpoint. Document BAS Setpoint at time of testing. Include Outside Air Damper Setpoint BAS shows.	30%
Document Actual Observed Outside Air Damper Position. [Visual % Open: 0%, 25%, 75%, 100%.]	10-15%
<ul style="list-style-type: none"> Open FuseIT40526c5ca0764f.jpg 	
AHU Information & Verification. Include Photo Documentation	
Attach Photos of AHU Nameplate.	Yes
<ul style="list-style-type: none"> Open FuseIT7b6fa042769640.jpg 	
Pre-Filter MERV Rating (or NA)	Not listed on Filters. Design is MERV 8
Pre-Filter Size	8@24x24x2 8@12x24x2

- [Open](#) FuseIT074ca0c65b4247.jpg

Final Filter MERV Rating Not listed on Filters. Design is MERV 15

Final Filter Size 8@24x24x22 8@12x24x22

Belts - Visual Assessment of condition 2 motors - direct drive

Belts - Size and quantity Direct drive

Note if any modifications made to AHU set points to operate in full capacity.

Electrical connections - Visual assessment. Document motor Voltage and Amperage. 2 VFDs @ 75.39 Hz A: 17.9 amps, 430.7 V B: 17.6 amps, 431.3 V

- [Open](#) FuseIT3c6db7877c4041.jpg

Heating Coil(s) - Visual assessment and photo documentation. No issues, observed.

- [Open](#) FuseIT6b86948741804c.jpg

Cooling Coil(s) - Visual assessment and photo documentation. No issues observed.

- [Open](#) FuseIT7aeb816efdd747.jpg

Condensate Pan(s) - Visual assessment and photo documentation. No issues, observed.

- [Open](#) FuseIT02383251ebee43.jpg

Any unusual operation observed? (including vibration, over-pressure, etc.) No unusual operation observed.

Exhaust System Status (on/off). If this does not apply for this AHU, "N/A" NA

Visually inspect outdoor air intake louvers, bird screens, mist eliminators, and adjacent areas for cleanliness and integrity. Unable to visually inspect, duct swing towards intake and cannot be seen

- [Open](#) FuseIT6a67912597164b.jpg

Note ALL visible debris or visible biological material observed, physical damage to louvers, screens, or mist eliminators, and if such damage impairs the item from providing the required outdoor air entry. None

List any found deficiencies. Note any remarks or comments, including corrective actions. Include photo documentation of any relevant findings. None AHU controls screenshot attached.

- [Open](#) ACS17.png

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CheckList Information

Name : AHU-27 **Status :** NotSubmitted
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB

CheckList Item Details

AHU Measurement NOVA Third Party Contractor Fill Out. Measure and verify the building minimum and maximum outdoor air for each AHU providing outdoor air to the building.

- [Open](#) ACS_27.png

Supply Air CFM Measured:	Design: 16,500 / Actual: 14,279 CFM
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Confirm DCV is Disabled (Demand Controlled Ventilation)	Confirmed
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Outside Air Measurement Method (Direct PT or SA-RA PT)	Direct
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Outside Air CFM Measured: (Maximum and Minimum OA CFM)	14,279 CFM
--	------------

If Outside Air CFM is determined by Supply - Return air CFM, document the Measured Return Air CFM:	NA
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BAS Setpoint. Document BAS Setpoint at time of testing. Include Outside Air Damper Setpoint BAS shows.	100%
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Document Actual Observed Outside Air Damper Position. [Visual % Open: 0%, 25%, 75%, 100%.]	100%
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- [Open](#) FuseITe3ac4913122c41.jpg

Does AHU have full air side economizing?	Yes
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AHU Information & Verification. Include Photo Documentation

Attach Photos of AHU Nameplate.	No
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Pre-Filter MERV Rating (or NA)	Not listed on Filters. Design is MERV 8
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Pre-Filter Size	8@24x24x2
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- [Open](#) FuseIT8f9f892b865145.jpg

Final Filter MERV Rating	Not listed
Final Filter Size	Not listed on Filters. Design is MERV 15
• Open FuseITd367bd1d4d7d4f.jpg	
Belts - Visual Assessment of condition	2 motors - direct drive
Belts - Size and quantity	Direct drive
Note if any modifications made to AHU set points to operate in full capacity.	
Electrical connections - Visual assessment. Document motor Voltage and Amperage.	2 VFDs @ 95.30 Hz A: 13.5 amps, 394.0 V B: 13.9 amps, 393.6 V
• Open FuseITa839752618f542.jpg	
Heating Coil(s) - Visual assessment and photo documentation.	No issues observed.
• Open FuseIT134ac400712647.jpg	
Cooling Coil(s) - Visual assessment and photo documentation.	No issues observed.
• Open FuseITee9ff19c826347.jpg	
Condensate Pan(s) - Visual assessment and photo documentation.	No issues observed.
• Open FuseITb45935dfb4f946.jpg	
Any unusual operation observed? (including vibration, over-pressure, etc.)	No unusual operation observed.
Exhaust System Status (on/off). If this does not apply for this AHU, "N/A"	NA - ERV system
Visually inspect outdoor air intake louvers, bird screens, mist eliminators, and adjacent areas for cleanliness and integrity.	No issues
• Open FuseITcd02a426a46f48.jpg	
Note ALL visible debris or visible biological material observed, physical damage to louvers, screens, or mist eliminators, and if such damage impairs the item from providing the required outdoor air entry.	None
List any found deficiencies. Note any remarks or comments, including corrective actions. Include photo documentation of any relevant findings.	None

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CheckList Information

Name : AHU-18 **Status :** NotSubmitted

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

CheckList Item Details

AHU Measurement NOVA Third Party Contractor Fill Out. Measure and verify the building minimum and maximum outdoor air for each AHU providing outdoor air to the building.

Supply Air CFM Measured:	Design: 25,000 / Actual: 20,682 CFM
Confirm DCV is Disabled (Demand Controlled Ventilation)	confirmed
Outside Air Measurement Method (Direct PT or SA-RA PT)	direct
Outside Air CFM Measured: (Maximum and Minimum OA CFM)	12,512 CFM
If Outside Air CFM is determined by Supply - Return air CFM, document the Measured Return Air CFM:	NA
BAS Setpoint. Document BAS Setpoint at time of testing. Include Outside Air Damper Setpoint BAS shows.	42.3%
Document Actual Observed Outside Air Damper Position. [Visual % Open: 0%, 25%, 75%, 100%.]	15%-20%
<ul style="list-style-type: none"> Open FuseIT9e73d427-9f9.jpg 	
Does AHU have full air side economizer?	Yes
AHU Information & Verification. Include Photo Documentation	
Attach Photos of AHU Nameplate.	No
<ul style="list-style-type: none"> Open FuseIT8d2d014a509d40.jpg 	
Pre-Filter MERV Rating (or NA)	Not listed on Filters. Design is MERV 8
Pre-Filter Size	8@12x24x2 8@24x24x2

- [Open](#) FuseITa4c9b619220547.jpg

Final Filter MERV Rating Not listed on Filters. Design is MERV 15

Final Filter Size 8@24x24x22 8@12x24x22

Belts - Visual Assessment of condition 3 Motors - Direct drive

Belts - Size and quantity Direct drive

Note if any modifications made to AHU set points to operate in full capacity.

Electrical connections - Visual assessment. Document motor Voltage and Amperage. 3 VFDs @ 74.78 Hz A: 11.5 amps, 394.0 V B: 11.6 amps, 393.5 V C: 11.7 amps, 394.4 V

- [Open](#) FuseITc2a9947622a642.jpg

Heating Coil(s) - Visual assessment and photo documentation. No issues observed.

- [Open](#) FuseIT3da6f1ffdd394c.jpg

Cooling Coil(s) - Visual assessment and photo documentation. No issues observed.

- [Open](#) FuseITe7227d21122f43.jpg

Condensate Pan(s) - Visual assessment and photo documentation. No issues observed.

- [Open](#) FuseIT15043ca729074f.jpg

Any unusual operation observed? (including vibration, over-pressure, etc.) None

Exhaust System Status (on/off). If this does not apply for this AHU, "N/A" NA

Visually inspect outdoor air intake louvers, bird screens, mist eliminators, and adjacent areas for cleanliness and integrity. No issues

- [Open](#) FuseIT9fc1d4ed173542.jpg

Note ALL visible debris or visible biological material observed, physical damage to louvers, screens, or mist eliminators, and if such damage impairs the item from providing the required outdoor air entry. None

List any found deficiencies. Note any remarks or comments, including corrective actions. Include photo documentation of any relevant findings. None AHU controls screenshot attached.

- [Open](#) ACS18.png

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CheckList Information

Name : AHU-10 **Status :** NotSubmitted

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

CheckList Item Details

AHU Measurement NOVA Third Party Contractor Fill Out. Measure and verify the building minimum and maximum outdoor air for each AHU providing outdoor air to the building.

Supply Air CFM Measured:	Design: 10,000 / Actual: 7,354 CFM
Confirm DCV is Disabled (Demand Controlled Ventilation)	CONFIRMED
Outside Air Measurement Method (Direct PT or SA-RA PT)	DIRECT
Outside Air CFM Measured: (Maximum and Minimum OA CFM)	4,316 CFM
If Outside Air CFM is determined by Supply - Return air CFM, document the Measured Return Air CFM:	NA
BAS Setpoint. Document BAS Setpoint at time of testing. Include Outside Air Damper Setpoint BAS shows.	42%
Document Actual Observed Outside Air Damper Position. [Visual % Open: 0%, 25%, 75%, 100%.]	20-30%
Does AHU have full air side economizer?	Yes

AHU Information & Verification. Include Photo Documentation

Attach Photos of AHU Nameplate.	Yes
<ul style="list-style-type: none"> Open FuseIT864c406e8c7241.jpg 	
Pre-Filter MERV Rating (or NA)	Not listed on Filters. Design is MERV 8
Pre-Filter Size	6@24x24x2
Final Filter MERV Rating	Not listed on Filters. Design is MERV 15

Final Filter Size	6@24x24x22
<ul style="list-style-type: none"> • Open FuseIT9acbfe44650346.jpg • Open FuseIT40fbc193a2b84c.jpg 	
Belts - Visual Assessment of condition	2 motors - direct drive
Belts - Size and quantity	direct drive
Note if any modifications made to AHU set points to operate in full capacity.	
Electrical connections - Visual assessment. Document motor Voltage and Amperage.	Two motors A: 85.1 HZ, 7.5 Amps, 369 V B: 95.3 HZ, 7.2 Amps, 370 V
<ul style="list-style-type: none"> • Open FuseIT90604e6351744f.jpg 	
Heating Coil(s) - Visual assessment and photo documentation.	No issues observed.
<ul style="list-style-type: none"> • Open FuseIT3e68de23ae424a53b5d8b4b6e7771893.jpg 	
Cooling Coil(s) - Visual assessment and photo documentation.	No issues observed.
<ul style="list-style-type: none"> • Open FuseIT50615d759de442.jpg 	
Condensate Pan(s) - Visual assessment and photo documentation.	No issues observed.
<ul style="list-style-type: none"> • Open FuseIT2eeba5cc208147.jpg 	
Any unusual operation observed? (including vibration, over-pressure, etc.)	One 10" duct and one 14" duct has no airflow. All zones were commanded to full cooling by controls contractor. 2 out of 8 zones were not getting flow through the duct. Pressures taken at takeoff of main supply to confirm the issue is downstream and not at takeoff of unit.
<ul style="list-style-type: none"> • Open 14duct.jpg • Open 10duct.jpg 	
Exhaust System Status (on/off). If this does not apply for this AHU, "N/A"	NA
Visually inspect outdoor air intake louvers, bird screens, mist eliminators, and adjacent areas for cleanliness and integrity.	Connects to shared concert space, no issues in connection duct.
<ul style="list-style-type: none"> • Open FuseITcd660ae86e1c41.jpg 	
Note ALL visible debris or visible biological material observed, physical damage to louvers, screens, or mist eliminators, and if such damage impairs the item from providing the required outdoor air entry.	No issues observed.

List any found deficiencies. Note any remarks or comments, including corrective actions. Include photo documentation of any relevant findings.

Pre filters are dirty and need to be replaced. AHU controls screenshot attached.

- [Open](#) ACS10.png
- [Open](#) DirtyFilters.jpg

GSA IL0236FC John C. Kluczynski Fed. BLDG. (Chicago, IL)

CheckList Information

Name : AHU-26 **Status :** NotSubmitted

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

CheckList Item Details

AHU Measurement NOVA Third Party Contractor Fill Out. Measure and verify the building minimum and maximum outdoor air for each AHU providing outdoor air to the building.

Supply Air CFM Measured:	24,327 CFM
Confirm DCV is Disabled (Demand Controlled Ventilation)	Confirmed
Outside Air Measurement Method (Direct PT or SA-RA PT)	Direct
Outside Air CFM Measured: (Maximum and Minimum OA CFM)	21,420 CFM
If Outside Air CFM is determined by Supply - Return air CFM, document the Measured Return Air CFM:	NA
BAS Setpoint. Document BAS Setpoint at time of testing. Include Outside Air Damper Setpoint BAS shows.	61.7%
Document Actual Observed Outside Air Damper Position. [Visual % Open: 0%, 25%, 75%, 100%.]	35-45%
<ul style="list-style-type: none"> Open FuseIT0cb22692462b49.jpg 	
Does AHU have full air side economizing?	Yes
AHU Information & Verification. Include Photo Documentation	
Attach Photos of AHU Nameplate.	Yes
<ul style="list-style-type: none"> Open FuseIT6a18266875f145.jpg 	
Pre-Filter MERV Rating (or NA)	Not listed on Filters. Design is MERV 8
Pre-Filter Size	12@24x24x2 6@12x24x2

- [Open](#) FuseITe602d38425a34f.jpg

Final Filter MERV Rating	Not listed on Filters. Design is MERV 15
Final Filter Size	12@24x24x22 6@12x24x22
Belts - Visual Assessment of condition	6 motors - direct drive
Belts - Size and quantity	Direct drive
Note if any modifications made to AHU set points to operate in full capacity.	
Electrical connections - Visual assessment. Document motor Voltage and Amperage.	6 VFDs @ 82.83 Hz A: 6.5 amps, 370.3 V B: 6.2 amps, 370.8 V C: 6.2 amps, 371.2 V D: 6.5 amps, 371.4 V E: 6.4 amps, 370.8 V F: 6.5 amps, 371.3 V
• Open FuseITebee052466d48.jpg	
Heating Coil(s) - Visual assessment and photo documentation.	No issues
• Open FuseIT0ee0b07e1c6c44.jpg	
Cooling Coil(s) - Visual assessment and photo documentation.	Slight dirt buildup in heating coil side
• Open FuseIT140d4e84586a42.jpg • Open FuseITa3ff4cef25f74e.jpg	
Condensate Pan(s) - Visual assessment and photo documentation.	No issues
• Open FuseIT0bb742f51b2044.jpg	
Any unusual operation observed? (including vibration, over-pressure, etc.)	None
Exhaust System Status (on/off). If this does not apply for this AHU, "N/A"	NA
Visually inspect outdoor air intake louvers, bird screens, mist eliminators, and adjacent areas for cleanliness and integrity.	No issues
• Open FuseIT06a6ee79d71047.jpg	
Note ALL visible debris or visible biological material observed, physical damage to louvers, screens, or mist eliminators, and if such damage impairs the item from providing the required outdoor air entry.	None
List any found deficiencies. Note any remarks or comments, including corrective actions. Include photo documentation of any relevant findings.	Dirty filters AHU controls screenshot attached.

- [Open](#) FuseITecdfd138410241.jpg
- [Open](#) ACS26.png

GSA IL0236FC John C. Kluczynski Fed. BLDG. (Chicago, IL)

CheckList Information

Name : AHU-24 **Status :** NotSubmitted

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

CheckList Item Details

AHU Measurement NOVA Third Party Contractor Fill Out. Measure and verify the building minimum and maximum outdoor air for each AHU providing outdoor air to the building.

Supply Air CFM Measured:	Design: 30,000 / Actual: 24,997 CFM
Confirm DCV is Disabled (Demand Controlled Ventilation)	Confirmed
Outside Air Measurement Method (Direct PT or SA-RA PT)	Direct
Outside Air CFM Measured: (Maximum and Minimum OA CFM)	8,840 CFM
If Outside Air CFM is determined by Supply - Return air CFM, document the Measured Return Air CFM:	NA
BAS Setpoint. Document BAS Setpoint at time of testing. Include Outside Air Damper Setpoint BAS shows.	30%
Document Actual Observed Outside Air Damper Position. [Visual % Open: 0%, 25%, 75%, 100%.]	25%
<ul style="list-style-type: none"> Open FuseIT77f0e6bd4d5c46.jpg 	
Does AHU have full air side economizing?	Yes
AHU Information & Verification. Include Photo Documentation	
Attach Photos of AHU Nameplate.	Yes
<ul style="list-style-type: none"> Open FuseIT62685349130e41.jpg 	
Pre-Filter MERV Rating (or NA)	Not listed on Filters. Design is MERV 8
Pre-Filter Size	12@24x24x2 6@12x24x2

<ul style="list-style-type: none"> • Open FuseIT642fe834ab084a.jpg 	
Final Filter MERV Rating	Not listed on Filters. Design is MERV 15
Final Filter Size	12@24x24x22 6@12x24x22
<ul style="list-style-type: none"> • Open FuseIT5143d2cb92ad4b.jpg 	
Belts - Visual Assessment of condition	3 motors - direct drive
Belts - Size and quantity	Direct drive
Note if any modifications made to AHU set points to operate in full capacity.	
Electrical connections - Visual assessment. Document motor Voltage and Amperage.	3 VFDs @ 84.90 Hz A: 6.7 amps, 370.0 V B: 7.0 amps, 369.5 V C: 6.7 amps, 370.3 V
<ul style="list-style-type: none"> • Open FuseIT36d810979bd041.jpg 	
Heating Coil(s) - Visual assessment and photo documentation.	No issues
<ul style="list-style-type: none"> • Open FuseITbaf553e6172a41.jpg 	
Cooling Coil(s) - Visual assessment and photo documentation.	Slight dirt buildup on heating coil side
<ul style="list-style-type: none"> • Open FuseIT11b337d748ad41.jpg • Open FuseIT040ffa11b22446.jpg 	
Condensate Pan(s) - Visual assessment and photo documentation.	No issues
<ul style="list-style-type: none"> • Open FuseIT848391cdd58f41.jpg • Open FuseITdab45a6f8e7348.jpg 	
Any unusual operation observed? (including vibration, over-pressure, etc.)	None
Exhaust System Status (on/off). If this does not apply for this AHU, "N/A"	NA
Visually inspect outdoor air intake louvers, bird screens, mist eliminators, and adjacent areas for cleanliness and integrity.	No issues
<ul style="list-style-type: none"> • Open FuseITeb79b78a8a304a.jpg 	
Note ALL visible debris or visible biological material observed, physical damage to louvers, screens, or mist eliminators, and if such damage impairs the item from providing the required outdoor air entry.	None

List any found deficiencies. Note any remarks or comments, including corrective actions. Include photo documentation of any relevant findings.

Dirty filters AHU controls screenshot attached.

- [Open](#) FuseITc5fb5fd721af4b.jpg
- [Open](#) ACS24.png

GSA IL0236FC John C. Kluczynski Fed. BLDG. (Chicago, IL)

CheckList Information

Name : AHU-08 **Status :** NotSubmitted
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB

CheckList Item Details

AHU Measurement NOVA Third Party Contractor Fill Out. Measure and verify the building minimum and maximum outdoor air for each AHU providing outdoor air to the building.

Supply Air CFM Measured:	Design: 41,000 / Actual: 13,971 CFM
Confirm DCV is Disabled (Demand Controlled Ventilation)	Confirmed
Outside Air Measurement Method (Direct PT or SA-RA PT)	Direct with vel-grid. 2 plenums 46x60 each. Avg vel 171 = 6555cfm.
Outside Air CFM Measured: (Maximum and Minimum OA CFM)	6,555 CFM Max and min dampers work in unison.
If Outside Air CFM is determined by Supply - Return air CFM, document the Measured Return Air CFM:	Na
BAS Setpoint. Document BAS Setpoint at time of testing. Include Outside Air Damper Setpoint BAS shows.	30%
Document Actual Observed Outside Air Damper Position. [Visual % Open: 0%, 25%, 75%, 100%.]	Appears 20-30% open.
<ul style="list-style-type: none"> Open FuseIT99a565e6491641.jpg 	
Does AHU have full air side economizer?	Yes
AHU Information & Verification. Include Photo Documentation	
Attach Photos of AHU Nameplate.	Yes
<ul style="list-style-type: none"> Open ACS8Nameplate.jpg 	
Pre-Filter MERV Rating (or NA)	Not listed on Filters. Design is MERV 8
Pre-Filter Size	(18) 24x14x2 (6) 12x24x2

Final Filter MERV Rating	Not listed on Filters. Design is MERV 15
Final Filter Size	(18) 24x24x22 (6) 12x24x22
<ul style="list-style-type: none"> • Open FuseITae59686a9d844d.jpg • Open FuseITc5549f9ccd014f.jpg 	
Belts - Visual Assessment of condition	No belt- (3) Direct drive Motors
<ul style="list-style-type: none"> • Open FuseITe3111cd81a4446.jpg 	
Belts - Size and quantity	Na, Direct Drive.
Note if any modifications made to AHU set points to operate in full capacity.	
Electrical connections - Visual assessment. Document motor Voltage and Amperage.	(3) VFDs at 42 hz A 13.8 amp @ 307v B 15.2 amp @ 308v C 14.1 amp @ 307v
<ul style="list-style-type: none"> • Open FuseITbb59621c06a348.jpg 	
Heating Coil(s) - Visual assessment and photo documentation.	Appear in good condition.
<ul style="list-style-type: none"> • Open File.jpg 	
Cooling Coil(s) - Visual assessment and photo documentation.	Appear in good condition.
<ul style="list-style-type: none"> • Open FuseIT8ac482b766cf43.jpg 	
Condensate Pan(s) - Visual assessment and photo documentation.	Pans appear clean and clear.
<ul style="list-style-type: none"> • Open FuseIT2b660d03535046.jpg 	
Any unusual operation observed? (including vibration, over-pressure, etc.)	Nothing unusual observed..
Exhaust System Status (on/off). If this does not apply for this AHU, "N/A"	N/A
Visually inspect outdoor air intake louvers, bird screens, mist eliminators, and adjacent areas for cleanliness and integrity.	OA intake is provided by common shaft. No bird screen or obstruction. Appears clean.
<ul style="list-style-type: none"> • Open FuseITb0807014e8ee44.jpg 	
Note ALL visible debris or visible biological material observed, physical damage to louvers, screens, or mist eliminators, and if such damage impairs the item from providing the required outdoor air entry.	Slight dust build up on duct walls and cross support.
<ul style="list-style-type: none"> • Open FuseIT639a25e2e5be4a.jpg 	

List any found deficiencies. Note any remarks or comments, including corrective actions. Include photo documentation of any relevant findings.

No corrections felt needed. Ahu Screenshot attached.

- [Open](#) FuseITd928b6981e8a42.jpg

GSA IL0236FC John C. Kluczynski Fed. BLDG. (Chicago, IL)

CheckList Information

Name : AHU-19 **Status :** NotSubmitted

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

CheckList Item Details

AHU Measurement NOVA Third Party Contractor Fill Out. Measure and verify the building minimum and maximum outdoor air for each AHU providing outdoor air to the building.

Supply Air CFM Measured:	Design: 25,000 / Actual: 20,538 CFM
Confirm DCV is Disabled (Demand Controlled Ventilation)	Confirmed
Outside Air Measurement Method (Direct PT or SA-RA PT)	Direct
Outside Air CFM Measured: (Maximum and Minimum OA CFM)	13,600 CFM
If Outside Air CFM is determined by Supply - Return air CFM, document the Measured Return Air CFM:	NA
BAS Setpoint. Document BAS Setpoint at time of testing. Include Outside Air Damper Setpoint BAS shows.	52.7%
Document Actual Observed Outside Air Damper Position. [Visual % Open: 0%, 25%, 75%, 100%.]	25%
<ul style="list-style-type: none"> Open FuseIT667019535e6b47.jpg 	
Does AHU have full air side economizer?	Yes
AHU Information & Verification. Include Photo Documentation	
Attach Photos of AHU Nameplate.	Yes
<ul style="list-style-type: none"> Open FuseIT472cc49df1d741.jpg 	
Pre-Filter MERV Rating (or NA)	Not listed on Filters. Design is MERV 8
Pre-Filter Size	8@24x24x2 8x12x24x2

<ul style="list-style-type: none"> • Open FuseIT1e262f33779044.jpg 	
Final Filter MERV Rating	Not listed on Filters. Design is MERV 15
Final Filter Size	8@24x24x22 8@12x24x22
Belts - Visual Assessment of condition	3 motors - direct drive
Belts - Size and quantity	Direct drive
Note if any modifications made to AHU set points to operate in full capacity.	
Electrical connections - Visual assessment. Document motor Voltage and Amperage.	3 VFDs @ 75.37 Hz A: 12.2 amps, 397.6 V B: 11.9 amps, 397.5 V C: 12.1 amps, 397.0 V
<ul style="list-style-type: none"> • Open FuseIT99cca0bf762045.jpg 	
Heating Coil(s) - Visual assessment and photo documentation.	No issues observed.
<ul style="list-style-type: none"> • Open FuseIT11d2b871509e47.jpg 	
Cooling Coil(s) - Visual assessment and photo documentation.	Slight buildup of dust on heating coil side
<ul style="list-style-type: none"> • Open Dustyheatcoilside.jpg • Open Coolingcoil.jpg 	
Condensate Pan(s) - Visual assessment and photo documentation.	No issues observed
<ul style="list-style-type: none"> • Open FuseIT3005a0953d2348.jpg 	
Any unusual operation observed? (including vibration, over-pressure, etc.)	No issues
Exhaust System Status (on/off). If this does not apply for this AHU, "N/A"	NA
Visually inspect outdoor air intake louvers, bird screens, mist eliminators, and adjacent areas for cleanliness and integrity.	No issue
<ul style="list-style-type: none"> • Open FuseIT4bc74b68841d43.jpg 	
Note ALL visible debris or visible biological material observed, physical damage to louvers, screens, or mist eliminators, and if such damage impairs the item from providing the required outdoor air entry.	None
List any found deficiencies. Note any remarks or comments, including corrective actions. Include photo documentation of any relevant findings.	Dirty filters AHU controls screenshot attached.

- [Open](#) ACS19.png
- [Open](#) FuseITfdece4cea7f04e.jpg

GSA IL0236FC John C. Kluczynski Fed. BLDG. (Chicago, IL)

CheckList Information

Name :	AHU-14	Status :	NotSubmitted
Assigned Organization :	National TAB	Asset :	
Requesting Organization :	National TAB		

CheckList Item Details

AHU Measurement NOVA Third Party Contractor Fill Out. Measure and verify the building minimum and maximum outdoor air for each AHU providing outdoor air to the building.

Supply Air CFM Measured:	Design: 14,850 / Actual: 13,519 CFM
Confirm DCV is Disabled (Demand Controlled Ventilation)	Confirmed
Outside Air Measurement Method (Direct PT or SA-RA PT)	Direct
Outside Air CFM Measured: (Maximum and Minimum OA CFM)	13,519 CFM
If Outside Air CFM is determined by Supply - Return air CFM, document the Measured Return Air CFM:	NA
BAS Setpoint. Document BAS Setpoint at time of testing. Include Outside Air Damper Setpoint BAS shows.	0%
Document Actual Observed Outside Air Damper Position. [Visual % Open: 0%, 25%, 75%, 100%.]	100%
<ul style="list-style-type: none"> • Open FuseIT4ef4430764e645.jpg 	
Does AHU have full air side economizer?	Yes
AHU Information & Verification. Include Photo Documentation	
Attach Photos of AHU Nameplate.	Yes
<ul style="list-style-type: none"> • Open FuseITe6bdb6d5b5144f.jpg 	
Pre-Filter MERV Rating (or NA)	Not listed on Filters. Design is MERV 8
Pre-Filter Size	6@24x24x2 2@12x24x2

<ul style="list-style-type: none"> • Open FuseIT3489549a170747.jpg 	
Final Filter MERV Rating	Not listed on Filters. Design is MERV 15
Final Filter Size	6@24x24x22 2@12x24x22
<ul style="list-style-type: none"> • Open FuseIT38a556df38f14a.jpg 	
Belts - Visual Assessment of condition	2 motors - direct drive
Belts - Size and quantity	Direct drive
Note if any modifications made to AHU set points to operate in full capacity.	
Electrical connections - Visual assessment. Document motor Voltage and Amperage.	2 VFDs @ 91.91 Hz A: 12.5 amps, 401.0 V B: 12.2 amps, 399.3 V
<ul style="list-style-type: none"> • Open FuseIT45f6c1d7042c4d.jpg 	
Heating Coil(s) - Visual assessment and photo documentation.	No issues observed.
<ul style="list-style-type: none"> • Open FuseITefcac560259749.jpg 	
Cooling Coil(s) - Visual assessment and photo documentation.	No issues observed.
<ul style="list-style-type: none"> • Open FuseIT9b2e38c01df946.jpg 	
Condensate Pan(s) - Visual assessment and photo documentation.	No issues observed.
<ul style="list-style-type: none"> • Open FuseIT4f034581807d4d.jpg 	
Any unusual operation observed? (including vibration, over-pressure, etc.)	No unusual operation observed.
Exhaust System Status (on/off). If this does not apply for this AHU, "N/A"	NA - ERV system
Visually inspect outdoor air intake louvers, bird screens, mist eliminators, and adjacent areas for cleanliness and integrity.	No issues observed.
Note ALL visible debris or visible biological material observed, physical damage to louvers, screens, or mist eliminators, and if such damage impairs the item from providing the required outdoor air entry.	None observed.
List any found deficiencies. Note any remarks or comments, including corrective actions. Include photo documentation of any relevant findings.	Filters are slightly dirty AHU controls screenshot attached.
<ul style="list-style-type: none"> • Open FuseIT27706aa90a3b40.jpg • Open ACS14.png 	

GSA IL0236FC John C. Kluczynski Fed. BLDG. (Chicago, IL)

CheckList Information

Name : AHU-23 **Status :** NotSubmitted

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

CheckList Item Details

AHU Measurement NOVA Third Party Contractor Fill Out. Measure and verify the building minimum and maximum outdoor air for each AHU providing outdoor air to the building.

Supply Air CFM Measured:	Design: 38,000 / Actual: 29,364 CFM
Confirm DCV is Disabled (Demand Controlled Ventilation)	Confirmed
Outside Air Measurement Method (Direct PT or SA-RA PT)	Direct
Outside Air CFM Measured: (Maximum and Minimum OA CFM)	12,930 CFM
If Outside Air CFM is determined by Supply - Return air CFM, document the Measured Return Air CFM:	NA
BAS Setpoint. Document BAS Setpoint at time of testing. Include Outside Air Damper Setpoint BAS shows.	50%
Document Actual Observed Outside Air Damper Position. [Visual % Open: 0%, 25%, 75%, 100%.]	25%
<ul style="list-style-type: none"> Open FuseIT1a396fca235a48.jpg 	
Does AHU have full air side economizing?	Yes
AHU Information & Verification. Include Photo Documentation	
Attach Photos of AHU Nameplate.	Yes
<ul style="list-style-type: none"> Open FuseIT40885d60f99b41.jpg 	
Pre-Filter MERV Rating (or NA)	Not listed on Filters. Design is MERV 8
Pre-Filter Size	18@24x24x2 6@12x24x2

- [Open](#) FuseITe8e543788a9142.jpg

Final Filter MERV Rating	Not listed on Filters. Design is MERV 15
Final Filter Size	18@24x24x22 6@12x24x22
Belts - Visual Assessment of condition	3 motors - direct drive
Belts - Size and quantity	Direct drive
Note if any modifications made to AHU set points to operate in full capacity.	
Electrical connections - Visual assessment. Document motor Voltage and Amperage.	3 VFDs @ 58.27 Hz A: 16.2 amps, 368.5 V B: 15.6 amps, 367.8 V C: 15.6 amps, 367.2 V
• Open FuseIT1c6c759ccc704b.jpg	
Heating Coil(s) - Visual assessment and photo documentation.	No issues observed.
• Open FuseITc13411bcceb149.jpg	
Cooling Coil(s) - Visual assessment and photo documentation.	Slight dirt buildup in heating coil side
• Open FuseIT6c9f3e36367045.jpg • Open FuseIT76348fd773b249.jpg	
Condensate Pan(s) - Visual assessment and photo documentation.	No issues observed.
• Open FuseITef1b840c2eac4b.jpg	
Any unusual operation observed? (including vibration, over-pressure, etc.)	None observed.
Exhaust System Status (on/off). If this does not apply for this AHU, "N/A"	NA
Visually inspect outdoor air intake louvers, bird screens, mist eliminators, and adjacent areas for cleanliness and integrity.	No issues
• Open FuseIT0ff8d763f85647.jpg	
Note ALL visible debris or visible biological material observed, physical damage to louvers, screens, or mist eliminators, and if such damage impairs the item from providing the required outdoor air entry.	None
List any found deficiencies. Note any remarks or comments, including corrective actions. Include photo documentation of any relevant findings.	Dirty filters AHU controls screenshot attached.

- [Open](#) FuseIT6c4640c3f0ef4c.jpg
- [Open](#) ACS23.png

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CheckList Information

Name : AHU-01 **Status :** NotSubmitted

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

CheckList Item Details

AHU Measurement NOVA Third Party Contractor Fill Out. Measure and verify the building minimum and maximum outdoor air for each AHU providing outdoor air to the building.

Supply Air CFM Measured:	Design: 59500 / Actual: 33046
Confirm DCV is Disabled (Demand Controlled Ventilation)	Confirmed
Outside Air Measurement Method (Direct PT or SA-RA PT)	Direct
Outside Air CFM Measured: (Maximum and Minimum OA CFM)	2,538 CFM
If Outside Air CFM is determined by Supply - Return air CFM, document the Measured Return Air CFM:	NA
BAS Setpoint. Document BAS Setpoint at time of testing. Include Outside Air Damper Setpoint BAS shows.	30%
Document Actual Observed Outside Air Damper Position. [Visual % Open: 0%, 25%, 75%, 100%.]	10%
<ul style="list-style-type: none"> Open FuseIT29432e3cfe1142.jpg 	
Does AHU have full air side economizing	Yes
AHU Information & Verification. Include Photo Documentation	
Attach Photos of AHU Nameplate.	Yes
<ul style="list-style-type: none"> Open FuseITf2e6a4afc1bb43.jpg 	
Pre-Filter MERV Rating (or NA)	Not listed on Filters. Design is MERV 8
Pre-Filter Size	24@24x24x2 14@12x24x2

- [Open](#) FuseIT95c25f27f7c440.jpg

Final Filter MERV Rating	Not listed on Filters. Design is MERV 15
Final Filter Size	12@24x24x22 14@12x24x2
Belts - Visual Assessment of condition	6 motors - direct drive
Belts - Size and quantity	Direct drive
Note if any modifications made to AHU set points to operate in full capacity.	
Electrical connections - Visual assessment. Document motor Voltage and Amperage.	6 VFDs @ 44.13 Hz A: 7.1 amps, 281.2 V B: 7.8 amps, 280.2 V C: 7.2 amps, 281.6 V D: 7.9 amps, 281.6 V E: 7.2 amps, 280.0 V F: 7.8 amps, 282.3 V

- [Open](#) FuseITf55a3d79677b4b.jpg

Heating Coil(s) - Visual assessment and photo documentation.	No issues observed
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- [Open](#) FuseIT4a7b711d82b241.jpg

Cooling Coil(s) - Visual assessment and photo documentation.	Unit has no cooling coil
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Condensate Pan(s) - Visual assessment and photo documentation.	Unit has no cooling coil
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Any unusual operation observed? (including vibration, over-pressure, etc.)	No unusual operation observed.
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Exhaust System Status (on/off). If this does not apply for this AHU, "N/A"	NA
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Visually inspect outdoor air intake louvers, bird screens, mist eliminators, and adjacent areas for cleanliness and integrity.	Unable to access
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Note ALL visible debris or visible biological material observed, physical damage to louvers, screens, or mist eliminators, and if such damage impairs the item from providing the required outdoor air entry.	None observed
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List any found deficiencies. Note any remarks or comments, including corrective actions. Include photo documentation of any relevant findings.	None AHU controls screenshot attached.
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- [Open](#) ACS1.png

GSA IL0236FC John C. Kluczynski Fed. BLDG. (Chicago, IL)

CheckList Information

Name : AHU-03 **Status :** NotSubmitted

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

CheckList Item Details

AHU Measurement NOVA Third Party Contractor Fill Out. Measure and verify the building minimum and maximum outdoor air for each AHU providing outdoor air to the building.

Supply Air CFM Measured:	Design: 41,000 / Actual: 29,482 CFM
Confirm DCV is Disabled (Demand Controlled Ventilation)	Confirmed
Outside Air Measurement Method (Direct PT or SA-RA PT)	Direct
Outside Air CFM Measured: (Maximum and Minimum OA CFM)	15,549 CFM
If Outside Air CFM is determined by Supply - Return air CFM, document the Measured Return Air CFM:	NA
BAS Setpoint. Document BAS Setpoint at time of testing. Include Outside Air Damper Setpoint BAS shows.	30%
Document Actual Observed Outside Air Damper Position. [Visual % Open: 0%, 25%, 75%, 100%.]	25%
<ul style="list-style-type: none"> • Open FuseIT0e2edda836ac4e.jpg • Open FuseITc8384ca751a941.jpg • Open FuseITc8384ca751a941_.jpg • Open OA_DAMPER.jpg 	
Does AHU have full air side economizer?	Yes
AHU Information & Verification. Include Photo Documentation	
Attach Photos of AHU Nameplate.	No
Pre-Filter MERV Rating (or NA)	Not listed on Filters. Design is MERV 8
Pre-Filter Size	18@24x24x2 6@12x24x2

- [Open](#) FuseIT5d908c99ecb348.jpg
- [Open](#) FuseIT5d908c99ecb348.jpg

Final Filter MERV Rating	Not listed on Filters. Design is MERV 15
Final Filter Size	18@24x24x22 6@12x24x22
Belts - Visual Assessment of condition	3 motors - direct drive
Note if any modifications made to AHU set points to operate in full capacity.	
Belts - Size and quantity	Direct drive
Electrical connections - Visual assessment. Document motor Voltage and Amperage.	3 VFDs @ 49.12 Hz A: 18.8 amps, 354.2 V B: 18.5 amps, 354.7 V C: 19.2 amps, 356.1 V
<ul style="list-style-type: none"> • Open FuseIT7bf5e23704bd44.jpg 	
Heating Coil(s) - Visual assessment and photo documentation.	No issues observed.
<ul style="list-style-type: none"> • Open FuseITf119efeb79ce42.jpg 	
Cooling Coil(s) - Visual assessment and photo documentation.	No issues observed.
<ul style="list-style-type: none"> • Open FuseIT7e46dbbcee7944.jpg 	
Condensate Pan(s) - Visual assessment and photo documentation.	No issues observed.
<ul style="list-style-type: none"> • Open FuseITae9615ad76164c.jpg • Open Condensate_Pans.jpg 	
Any unusual operation observed? (including vibration, over-pressure, etc.)	None observed.
Exhaust System Status (on/off). If this does not apply for this AHU, "N/A"	NA
Visually inspect outdoor air intake louvers, bird screens, mist eliminators, and adjacent areas for cleanliness and integrity.	No issues observed.
<ul style="list-style-type: none"> • Open FuseIT56ceb7250b7e4f.jpg • Open FuseIT14711420b00441.jpg 	
Note ALL visible debris or visible biological material observed, physical damage to louvers, screens, or mist eliminators, and if such damage impairs the item from providing the required outdoor air entry.	None observed.
List any found deficiencies. Note any remarks or comments, including corrective actions. Include photo documentation of any relevant findings.	Supply access door is leaking airflow on the top left corner AHU controls screenshot attached.

- [Open](#) ACS3.png
- [Open](#) FuseIT08ccdca815bb4f.jpg

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CheckList Information

Name : AHU-06 **Status :** NotSubmitted

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

CheckList Item Details

AHU Measurement NOVA Third Party Contractor Fill Out. Measure and verify the building minimum and maximum outdoor air for each AHU providing outdoor air to the building.

Supply Air CFM Measured:	Design: 33,500 / Actual: 14,442 CFM
Confirm DCV is Disabled (Demand Controlled Ventilation)	Confirmed
Outside Air Measurement Method (Direct PT or SA-RA PT)	Direct
Outside Air CFM Measured: (Maximum and Minimum OA CFM)	8190
If Outside Air CFM is determined by Supply - Return air CFM, document the Measured Return Air CFM:	NA
BAS Setpoint. Document BAS Setpoint at time of testing. Include Outside Air Damper Setpoint BAS shows.	35%
Document Actual Observed Outside Air Damper Position. [Visual % Open: 0%, 25%, 75%, 100%.]	25%
<ul style="list-style-type: none"> Open FuseITe3be129ecea46.jpg Open FuseIT96a74ed9364749.jpg 	
Does AHU have full air side economizer?	Yes
AHU Information & Verification. Include Photo Documentation	
Attach Photos of AHU Nameplate.	Yes
<ul style="list-style-type: none"> Open FuseITf178101a0dd64e.jpg 	
Pre-Filter MERV Rating (or NA)	Not listed on Filters. Design is MERV 8
Pre-Filter Size	18@24x24x2 6@12x24x2

- [Open](#) FuseIT3db06e19bcb945.jpg

Final Filter MERV Rating Not listed on Filters. Design is MERV 15

Final Filter Size 18@24x24x22 6@12x24x22

Belts - Visual Assessment of condition 3 motors - direct drive

Belts - Size and quantity Direct drive

Electrical connections - Visual assessment. Document motor Voltage and Amperage. 3 VFDs @ 47.49 Hz A: 10.3 amps, 316.1 V B: 9.5 amps, 317.0 V C: 11.7 amps, 316.1

- [Open](#) FuseIT66dff2d0463b4e.jpg

Heating Coil(s) - Visual assessment and photo documentation. No issues observed.

- [Open](#) FuseIT63e4efcaed804c.jpg

Cooling Coil(s) - Visual assessment and photo documentation. No issues observed.

- [Open](#) FuseIT894ff016d6034c.jpg

Condensate Pan(s) - Visual assessment and photo documentation. No issues observed.

- [Open](#) FuseIT89033cd8718a43.jpg

Any unusual operation observed? (including vibration, over-pressure, etc.) No unusual operation observed.

Exhaust System Status (on/off). If this does not apply for this AHU, "N/A" NA

Visually inspect outdoor air intake louvers, bird screens, mist eliminators, and adjacent areas for cleanliness and integrity. No issues observed.

Note ALL visible debris or visible biological material observed, physical damage to louvers, screens, or mist eliminators, and if such damage impairs the item from providing the required outdoor air entry. None observed.

List any found deficiencies. Note any remarks or comments, including corrective actions. Include photo documentation of any relevant findings. None AHU controls screenshot attached.

- [Open](#) ACS6.png