

Uniform Indoor Air Quality Inspection and Evaluation Program

Reporting Year: 2024

District:

Meriden Public Schools

School:

Casimir Pulaski Elementary School 100 Clearview Ave, Meriden, CT 06450

In accordance with section 10-220(d) of the Connecticut General Statutes ("CGS § 10-220(d)" or "IAQ Statute"), Meriden Public Schools completed a uniform Indoor Air Quality (IAQ) inspection and evaluation of "Casimir Pulaski Elementary" in 2024. This report provides summaries of the School's inspections and evaluations undertaken pursuant to the 14 IAQ categories set forth in the IAQ Statute. Where applicable, Meriden Public Schools referred to and relied on the U.S. Environmental Protection Agency's (EPA's) IAQ Tools for Schools (TFS) guidance and checklists in its inspections and evaluations. The TFS checklists completed for the School in 2024 can be found at https://pulaski.meridenk12.org/news/tools-for-schools/.

1. Heating, Ventilation and Air Conditioning (HVAC) Systems

Meriden Public Schools completed this assessment requirement using a combination of the TFS general Walkthrough Inspection Checklist and Ventilation Checklist. These checklists provide guidance for evaluating multiple elements of the School's HVAC systems, including the School building's outdoor intakes and potential pollutant sources, system cleanliness and preventative maintenance programs, control components, distribution systems, and exhaust systems.

In accordance with section 10-231e of the Connecticut General Statutes, Meriden Public Schools also ensures that the School's HVAC systems are (1) maintained and operated in accordance with the prevailing maintenance standards at the time of installation or renovation of such systems, and (2) operated continuously during the hours in which students or School personnel occupy School facilities, except (A) during scheduled maintenance and emergency repairs, and (B) during periods for which School officials can demonstrate that the quantity of outdoor air supplied provides sufficient air changes.

This year's assessment did not identify any issues with the HVAC system that required immediate action in connection with IAQ in the School or an update to reflect the findings

2. Radon Levels in Air

Meriden Public Schools has a long-established radon testing program for the School in accordance with CGS § 10-220(d) and the State of Connecticut Department of Public Health (CTDPH) guidance. This program currently requires qualified and trained professionals to evaluate each school building for radon through sampling and laboratory analysis every three years as well as reporting to CTDPH. Meriden Public Schools is conducting a radon evaluation in all school buildings during the 2024-2025 testing season. The district is due for the next periodic evaluation during the 2027-2028 school year.

3. Potential For Exposure to Microbiological Airborne Particles, Including, But Not Limited To, Fungi, Mold, and Bacteria

Meriden Public Schools addressed this assessment requirement using a combination of EPA's TFS general Walkthrough Inspection, Building and Grounds Maintenance, Food Service, and Teacher's Classroom Checklists. The focus items include evaluation of drainage at the exterior and roof of the building, any evidence of interior

moisture intrusion or moisture issues through roof or plumbing leaks or any consistent condensation, evidence of mold/mildew growth, etc.

The School's IAQ conditions were typical of school buildings and no concerns for microbiological airborne particles were noted in the assessment.

4. Chemical Compounds of Concern to Indoor Air Quality Including, But Not Limited To, Volatile Organic Compounds

Meriden Public Schools addressed this assessment requirement using a combination of EPA's TFS general Walkthrough Inspection and Building and Grounds Maintenance checklists. The focus items include the evaluation of building maintenance supplies and grounds maintenance supplies and how they are used, stored, and labeled as well as spill response, engineering, and administrative controls used in conjunction with these products.

The assessment did not reveal any issues with chemicals of concern impacting the IAQ. Additionally, the School continues to operate its green cleaning program utilizing environmentally preferable cleaning and disinfecting products or updates to reflect findings

5. Degree Of Pest Infestation, Including, But Not Limited To, Insects and Rodents

Meriden Public Schools addressed this assessment requirement using a combination of EPA's TFS general Walkthrough Inspection, Teacher's Classroom, Waste Management, Food Service, and Integrated Pest Management checklists. The focus items include the evaluation of pest evidence, entry points, food, water, and identification of potential pest habitats as well as establishing a regular monitoring program.

Buildings are visually inspected bi-weekly by Total Pest Control (the district's integrated pest management company) to evaluate reported issues (if applicable), review potential exterior entry points and eliminate conditions that might be conducive to breeding or attracting pests. After the assessment, it was determined that any food stored in classrooms should be contained in plastic containers.

6. Degree Of Pesticide Usage

Meriden Public Schools operates an Integrated Pest Management (IPM) program in accordance with CGS § 10-231a-231d. The IPM program requires Meriden Public Schools to evaluate alternative pest management methods before using pesticides, utilize the least toxic method to address the pest problem and ensure all pest control products are used and stored in accordance with regulatory and manufacturer requirements by trained and qualified personnel. The plan further requires notifications to school occupants and parents of pesticide applications through posted notices and/or letters and that records of IPM practices and a pest management log be maintained for the School.

The application of pesticides on School grounds is avoided unless there is an emergency and it is only used under the direction of a licensed pesticide applicator.

7. The Presence Of And The Plans For Removal Of Any Hazardous Substances That Are Contained On The List Prepared Pursuant To Section 302 Of The Federal Emergency Planning And Community Right-To-Know Act, 42 USC 9601 Et Seq. (EPCRA)

Meriden Public Schools has evaluated the School for the potential presence of "extremely hazardous substances" as listed in EPCRA Section 302 and determined there are currently none present.

8. Ventilation Systems

The assessment of the School's ventilation systems is addressed in Section 1 herein.

9. Plumbing, Including Water Distribution Systems, Drainage Systems and Fixtures

Meriden Public Schools addressed this assessment requirement using a combination of EPA's TFS General Walkthrough Inspection, Building and Grounds Maintenance, Teacher's Classroom, and Food Service checklists. The focus items include the evaluation of drainage and plumbing systems for evidence of leaks, odors, staining, condensation, and evidence of mold/mildew growth.

Based on the walkthrough, no plumbing issues affecting IAQ were identified

10. Moisture Incursion

Meriden Public Schools addressed this assessment requirement using a combination of EPA's TFS general Walkthrough Inspection, Building and Grounds Maintenance, Teacher's Classroom and Food Service checklists. The focus items include evaluation of drainage at the exterior and roof of the building, evidence of interior moisture intrusion or moisture issues through roof or plumbing leaks or consistent condensation, and evidence of mold/mildew growth.

In Meriden, if school staff see issues of moisture incursion they report them to the head custodian. The head custodian enters a work order ticket. When these issues are identified via the ticket process or otherwise brought to the attention of the Facilities Department, they are repaired or replaced as applicable and the root cause of the moisture is evaluated and addressed.

11. Overall Cleanliness of The Facilities

Meriden Public Schools addressed this assessment requirement using a combination of EPA's TFS general Walkthrough Inspection, Teacher's Classroom, Waste Management, Food Service, and Integrated Pest Management checklists. The focus items include evaluation of sanitary conditions in food handling and storage areas, ensuring waste does not accumulate, verifying walk-off mats are present at each entrance, ensuring proper procedures are in place for dust control during cleaning activities and a schedule is established for vacuuming and mopping floors.

At Casimir Pulaski Elementary School, minor dust collection was noted in limited areas, but overall, the School facility was acceptably clean.

12. Building Structural Elements, Including, But Not Limited To, Roofing, Basements or Slabs

Meriden Public Schools addressed this assessment requirement using a combination of EPA's TFS general Walkthrough Inspection and Building and Grounds Maintenance checklists. The focus items include visual evaluation of roofing materials and structural components of the building.

13. Use Of Space, Particularly Areas That Were Designed to Be Unoccupied

Meriden Public Schools continuously evaluates the use of space at the School. Meriden Public Schools staff understand that spaces not designed to be occupied may not have adequate ventilation or meet minimum requirements for heating or cooling.



The School's walkthrough did not identify the use of any spaces contrary to their intended use (e.g., the use of a closet as an office).

14. The Provision of Indoor Air Quality Maintenance Training for Building Staff

The School's building staff have been trained, most recently in 2024, in the use of the EPA TFS checklists to gather information related to the overall condition of the school building. Staff understand that findings must be documented and addressed promptly. Additionally, certain staff members have specialized training related to HVAC, plumbing, nursing, groundskeeping, etc., and serve a critical role in addressing identified concerns if/when they arise.



- 1. Read the IAQ

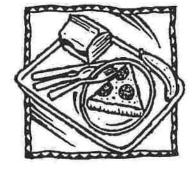
 Backgrounder and the Background Information for this checklist.
- 2. Keep the
 Background
 Information and
 make a copy of
 the checklist for
 future reference.
- 3. Complete the Checklist.
 - Check the "yes,"
 "no," or
 "not applicable"
 box beside each
 item. (A "no"
 response requires
 further attention.)
 - Make comments in the "Notes" section as necessary.
- 4. Return the checklist portion of this document to the IAQ Coordinator.

Building and Grounds Maintenance Checklist

Na	Name: David Paul					
Sc	hool: Casimir Pulaski Elementary School		-			
Ro	pom or Area: All Date Completed: 2/26/2024	8	_			
	gnature: Daw O Paul		-			
1.	BUILDING MAINTENANCE SUPPLIES Yes,	No	N/A			
1a.	Developed appropriate procedures and stocked supplies for spill control					
1b.	Reviewed supply labels					
lc.	Ensured that air from chemical and trash storage areas vents to the outdoors					
1d.	Stored chemical products and supplies in sealed, clearly labeled	-				
	containers					
	Ensured that sumplies are being used according to manufacturers'		_			
	instructions					
1g.	Ensured that chemicals, chemical-containing wastes, and containers are	, 				
1 h	disposed of according to manufacturers' instructions					
	Scheduled work involving odorous or hazardous chemicals for periods	_	_			
	when the school is unoccupied					
lj.	Ventilated affected areas during and after the use of odorous or					
	hazardous chemicals	_	_			
2.	GROUNDS MAINTENANCE SUPPLIES					
2a.	Stored grounds maintenance supplies in appropriate area(s)					
	Ensured that supplies are used and stored according to manufacturers'	_				
•	instructions	u	Q			
2c.	Established and followed procedures to minimize exposure to fumes from supplies	ا ت	Q			
2d.	Reviewed and followed manufacturers' guidelines for maintenance					
	Replaced portable gas cans with low-emission cans	G				
2f.	3 55 30 30 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	_	_			
•	containers.	Ú				
2g.	Ensured that chemicals, chemical-containing wastes, and containers are disposed of according to manufacturers' instructions	۵				
3.	DUST CONTROL					
			П			
3a.	Installed and maintained barrier mats for entrances	u D				
3D.	Used high efficiency vacuum bags	-				
3d.	Wrapped feather dusters with a dust cloth		Q.			
		F				

3e. Cleaned air return grilles and air supply vents.....

4.	FLOOR CLEANING	Yes	Nο	N/A	n	7	
4a.	Established and followed schedule for vacuuming and mopping floors				1	. ///	M
	Cleaned spills on floors promptly (as necessary)	4			8 11		12/8
	Performed restorative maintenance (as necessary)	-		ā			1218
5 .	DRAIN TRAPS					Mary 1	15/8
5a.	Poured water down floor drains once per week (about 1 quart of water)	e			N E		
	Ran water in sinks at least once per week (about 2 cups of water)					<u> </u>	
	Flushed toilets once each week (if not used regularly)					~~~	
6.	MOISTURE, LEAKS, AND SPILLS						
	Checked for moldy odors	🗹					
6b.	Inspected ceiling tiles, floors, and walls for leaks or discoloration (may indicate periodic leaks)						
6c.	Checked areas where moisture is commonly generated (e.g., kitchens,	🕰	J	u			
	locker rooms, and bathrooms)	🗷					
6d.	Checked that windows, windowsills, and window frames are free of	1	П				
6e.	condensate	6	u	J			
	free of condensate	🗹					
6ſ.	Ensured the following areas are free from signs of leaks and water damage						
	Indoor areas near known roof or wall leaks						
	Walls around leaky or broken windows			ā			
	Floors and ceilings under plumbing	🗷					
	Duct interiors near humidifiers, cooling coils, and outdoor air intakes	u					
7.	COMBUSTION APPLIANCES		,				
7a.	Checked for odors from combustion appliances	🗷					
	Checked appliances for backdrafting (using chemical smoke)						
7c.	Inspected exhaust components for leaks, disconnections, or deterioration	. 2					
7d.	Inspected flue components for corrosion and soot						
8.	PEST CONTROL						
8a.	Completed the Integrated Pest Management Checklist	H				12	
NO	OTES						
	- Ches duste	VS	1	,	moial	19.10	10.100
	3d Dangen micro-Fiber dusto	1.71	('	,		7, (0)	(1165)
	dust particulates friable						
	*						



Food Service Checklist

	Name: 100 STREIJO	_	
	School: Casimir Pulaski Elementary School Room or Area: Callet a Mixture Date Completed: 41212044 Signature:		_
		-	
1	. COOKING AREA		
1	a. Determined that local exhaust fans operate properly (note if fans are	No	N/A
1	b. Checked for odors near cooking, preparation, and eating areas		٥
	c. Ensured that exhaust fans are used whenever cooking, washing dishes,	_	_
-	and cleaning		
1	d. Determined that gas appliances function properly		
	e. Verified that gas appliances are vented outdoors	ū	
1	f. Ensured there are no combustion gas or natural gas odors, leaks, back-drafting, or headaches when gas appliances are used		
1	g. Ensured that kitchen is clean after use		
1	h. Checked for signs of microbiological growth in the kitchen, including the upper walls and ceiling (for example, mold, slime, and algae)		
1	i. Selected biocides registered by EPA (if required), followed the		
	manufacturer's directions for use, and carefully reviewed the		
1	i. Verified the kitchen is free of plumbing and ceiling leaks (signs include	_	
1	lj. Verified the kitchen is free of plumbing and ceiling leaks (signs include stains, discoloration, and damp areas)		
2	2. FOOD HANDLING AND STORAGE		
2	2a. Checked food preparation, cooking, and storage areas for signs of insects		
_	and vermin (for example, feces or remains)		
2	2b. Stored leftovers in well-sealed containers with no traces of food on outside surfaces		
2	2c. Ensured that food preparation, cooking, and storage practices are sanitary.		
	2d. Disposed of food scraps properly and removed crumbs		
	2e. Cleaned counters with soap and water or a disinfectant (according to		
	-ds		_

Instructions

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 Backgrounder and
 the Background
 Information for
 this checklist.
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- 3. Complete the Checklist.
 - Check the "yes,"
 "no," or
 "not applicable"
 box beside each
 item. (A "no"
 response
 requires further
 attention.)
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2e.	Cleaned counters with soap and water or a disinfectant (according to school policy)		
2f.	school policy)	a	
	WASTE MANAGEMENT		
3a.	Selected and placed waste in appropriate containers		
3b.	Selected and placed waste in appropriate containers. Ensured that containers' lids are securely closed		
30	Separated food waste and food-contaminated items from other wastes, if possible		
3d	. Stored waste containers in a well-ventilated area		
3e,	Ensured that dumpsters are properly located (away from air intake vents, operable windows, and food service doors in relation to prevailing winds)		

4.	DELIVERIES	s/No	N	J/A
4a.	mistraction volidous to avoid faring mon origines daring derivative missing -			_
4b.	Posted a sign prohibiting vehicles from idling their engines in receiving areas) Ç2x	/	
4c.	Ensured that doors or air barriers are closed between receiving area and kitchen			۵



NOTES



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 attention.)
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Integrated Pest Management Checklist

N	ame: David Haul		
S	chool: Casimir Pulaski Elementary School		
R	oom or Area: All Date Completed: 2/26/20	24	
1.	OFFICIAL POLICY STATEMENT Yes	s No	N/A
la.	Developed or located the school's official policy statement for integrated pest management (IPM)	-	۵
2.	DESIGNATING PEST MANAGEMENT ROLES		
2a. 2h	Assigned and trained a qualified person to be the pest manager		0
	Educated students and staff (the occupants of the building) about IPM and asked them to keep their areas clean and free of clutter	,	_
2d.	Encouraged parents to learn about IPM practices and implement them at home		<u>,</u> a
	Developed a program to educate and train all IPM participants		
	professionals	ш	
3.	SETTING PEST MANAGEMENT OBJECTIVES		
3a.	Set appropriate pest management objectives for school buildings (such as		
	preventing pests from interfering with students' learning environment and preserving the integrity of the building structure)	/ o	
3b.	Set appropriate pest management objectives for school grounds (such as providing safe playing areas and the best athletic surfaces possible)		
4.	INSPECTING, IDENTIFYING, AND MONITORING		
4a.	Inspected all buildings and grounds for pest evidence, entry points,	-	
4b.	food, water, and harborage sites		
	Pinpointed the source of any current pest problems		
4d.	Monitored to determine the extent of pest problems and to estimate pest populations	D	
4e.	Developed plans to modify habitat (for example, exclusion, repair, and		_
4f.	sanitation efforts) to prevent or resolve any pest problems	Ų	J
	estimate pest population levels and identify evidence of pests and	/ [

5.	SETTING ACTION THRESHOLDS		
5a.	Evaluated all available data obtained through inspecting, identifying, and monitoring	No I	N/A
	Determined how many pests the school buildings, grounds, and occupants can tolerate	ב	
5c.	Set action thresholds	3	
6.	PREVENTIVE STRATEGIES		
	DOOR SITES		
6a.	Implemented appropriate strategies to prevent pests from inhabiting the following	are	as:
	Distry ways	_	
	Chastronia	3	
	Gymnasianis)	
	- Looker round	ם	
	0111003		
	- Start Tourigos		
	Dutill Comb)	
	1 Ood preparation and serving areas	_	
	Rooms with extensive prameing		
	Widmichance areas	J	
	• Other)	
	TDOOR SITES		
6b.	Implemented appropriate strategies to prevent pests from inhabiting the following		
	1 laygiounus	3	
	Tarking tota		
	Lawiis and adirecte fields		
	Touching gardens of greenitedses	<u> </u>	
	Doubling downs	0	
	Dumpsiers		
	Titous Wild Official States and Tool Millians		
7.	PESTICIDE USE AND STORAGE		
7a.	Explored alternative pest management methods before concluding that		
71	positiones were necessary	_	
	Ensured that pest management professionals integrate IPM into their pest management methods		
7c.	Identified the least toxic, target-specific chemical (or pesticide formulation) that is the most effective to address the pest problem,		
	preferably as baitsand granules		
	Reviewed and followed all label instructions on pesticides and learned how to properly apply and handle these chemicals		a
7e.	Used spot-treatment (or bait, crack, and crevice applications) to apply		
	pesticides whenever possible and only treated the obviously infested		
	plants in the area)
7f.	Used protective clothing or equipment when applying pesticides	ш	Ų
7g.	Placed all pesticides in tamper-resistant bait boxes or locations that are inaccessible to children and non-target species		





7.	PESTICIDE USE AND STORAGE (cont.)			
	runway of the box			N/A
7i.	Applied pesticides when occupants were not present or in areas where they would not be exposed to the chemicals			۵
7j.	upconting positione applications through posited notices and or reserving		О	
7k.	till ordin tottors			
71.	Kept copies of current pesticide labels and information on pesticides easily accessible	2	a	а
	Stored pesticides off site or in areas that are locked and accessible only to designated personnel			۵
7n.	Ensured that storage areas are adequately ventilated and are located away from areas prone to flooding or where spills or leaks may contaminate the environment			
70	Ensured that flammable liquids are stored away from ignition sources	2		α.
7p.	Ensured that pesticides are stored in their original containers and all lids			G
7q.	Ensured that air in the storage space cannot mix with the air in the central ventilation system		ם	
8.	EVALUATING RESULTS AND RECORD KEEPING			
	Ensured that accurate, up-to-date records of IPM practices and a pest management log for each property are kept	2	' a	0
	Ensured that pesticide records necessary to meet all state, local, and school board requirements are maintained		a	Q
8c.	Ensured that each log book contains the following items: Copy of the pest management plan			
	Service schedules for maintenance of buildings and grounds	Ø,		
	Current EPA-registered labels	ď		
	 Current Material Safety Data Sheets (MSDS) for each pesticide project 	er,		
	Pest surveillance data sheets	8		
	• Diagram noting the location of pest activity, traps, and bait stations		प	

NOTES

207 Discuss with IAQ Towns 207

56 - our goal is a zero tolerance policy for pest

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Adult & Continuing Education

Bilingual and ESOL Department

Business Office

Curriculum and Instructional Technology

Equity and Instruction

Facilities

Green Cleaning

Integrated Pest Management COVID-19 Resources

Family-School Liaison

Food and Nutrition Services Personnel and Talent Development Pupil Personnel Programs

Teaching and Innovation

Research and Evaluation

Finance and Operations

Transportation

Integrated Pest Management

program. The law requires that the school system develop a registry of parents and staff that would like notification prior to application of a pesticide on school property. Meriden's Integrated Pest Management program entails some of the compliance with State law, the Meriden Public School system actively practices an Integrated Pest Management The Meriden Public School system places your child's safety above all else in operating its school facilities. In following procedures:

- 1. Buildings are visually inspected on a regular basis to determine if any infestation exists and to eliminate any condition that might be conducive to breeding or attracting of pests.
 - 2. Corrective actions are taken immediately when there is a potential concern.
- 3. Non-toxic solutions are utilized as a first course of action to abate any pest problem.
- 4. When toxic measures (pesticides) must be used, the least toxic available product is utilized.
 - 5. Chemical treatment is only performed by State licensed applicators.
 - Treatments, when necessary, are done during non-school hours.

Parents wishing to be placed on the school notification registry should indicate so by registering in their child's school



- Read the IAQ
 Backgrounder and the Background Information for this checklist.
- 2. Keep the
 Background
 Information and
 make a copy of
 this checklist for
 each ventilation
 unit in your school,
 as well as a
 copy for future
 reference.
- Complete the Checklist.
 - Check the "yes,"
 "no," or
 "not applicable"
 box beside each
 item. (A "no"
 response
 requires further
 attention.)
 - Make comments in the "Notes" section as necessary.
- 4. Return the checklist portion of this document to the IAQ Coordinator.

Ventilation Checklist

School: Casimir Pulaski Elementary School				
Unit Ventilator/AHU No: 1-8 1-3				
	4	-		
Signature: 2-Janv y fort		_		
. OUTDOOR AIR INTAKES				
a. Marked locations of all outdoor air intakes on a small floor plan (for example, a fire escape floor plan)	No	N/A		
	<u> </u>	_		
c. Ensured that outdoor air intakes are clear of obstructions, debris, clogs, or covers	Di	П		
	_ _			
CTIVITY 2: POLLUTANT SOURCES				
c. Checked ground-level intakes for pollutant sources (dumpsters, loading docks, and bus-idling areas)	,	П		
Checked rooftop intakes for pollutant sources (plumbing vents; kitchen,	_	_		
air-conditioning cooling towers)	۵	Q		
intakes (e.g., relocated dumpster or extended exhaust pipe)	ū	O		
comminded that outdoor are is entering the intake appropriately	ш	u		
SYSTEM CLEANLINESS				
	_	_		
. Shut off ventilation system fans while replacing filters (prevents dirt from	u			
blowing downstream)	0			
. Confirmed proper fit of filters to prevent air from bypassing (flowing	, (] [
Confirmed proper installation of filters (correct direction for airflow)				
	OUTDOOR AIR INTAKES a. Marked locations of all outdoor air intakes on a small floor plan (for example, a fire escape floor plan) b. Ensured that the ventilation system was on and operating in "occupied" mode CTIVITY 1: OBSTRUCTIONS c. Ensured that outdoor air intakes are clear of obstructions, debris, clogs, or covers d. Installed corrective devices as necessary (e.g., if snowdrifts or leaves frequently block an intake) CTIVITY 2: POLLUTANT SOURCES c. Checked ground-level intakes for pollutant sources (dumpsters, loading docks, and bus-idling areas) Checked rooftop intakes for pollutant sources (plumbing vents; kitchen, toilet, or laboratory exhaust fans; puddles; and mist from air-conditioning cooling towers) c. Resolved any problems with pollutant sources located near outdoor air intakes (e.g., relocated dumpster or extended exhaust pipe) CTIVITY 3: AIRFLOW Obtained chemical smoke (or a small piece of tissue paper or light plastic) COnfirmed that outdoor air is entering the intake appropriately SYSTEM CLEANLINESS CTIVITY 4: AIR FILTERS Replaced filters per maintenance schedule Shut off ventilation system fans while replacing filters (prevents dirt from blowing downstream) Vacuumed filter areas before installing new filters Confirmed proper fit of filters to prevent air from bypassing (flowing around) the air filter	Room or Area: Date Completed: 3/11/2014 Signature: Date Completed: 3/11/2014 Date Completed: 3/11/20		

2. SYSTEM CLEANLINESS (continued) **ACTIVITY 5: DRAIN PANS** 2f. Ensured that drain pans slant toward the drain (to prevent water from Yes, No N/A accumulating) 2g. Cleaned drain pans 2h. Checked drain pans for mold and mildew **ACTIVITY 6: COILS** 2i. Ensured that heating and cooling coils are clean **ACTIVITY 7: AIR-HANDLING UNITS, UNIT VENTILATORS** 2j. Ensured that the interior of air-handling unit(s) or unit ventilator (air-mixing chamber and fan blades) is clean 2k. Ensured that ducts are clean **ACTIVITY 8: MECHANICAL ROOMS** 21. Checked mechanical room for unsanitary conditions, leaks, and spills 2m. Ensured that mechanical rooms and air-mixing chambers are free of trash, chemical products, and supplies 3. CONTROLS FOR OUTDOOR AIR SUPPLY 3a. Ensured that air dampers are at least partially open (minimum position) 3b. Ensured that minimum position provides adequate outdoor air for occupants **ACTIVITY 9: CONTROLS INFORMATION** 3c. Obtained and reviewed all design inside/outside temperature and humidity requirements, controls specifications, as-built mechanical drawings, and controls operations manuals (often uniquely designed) ACTIVITY 10: CLOCKS, TIMERS, SWITCHES 3d. Turned summer-winter switches to the correct position 3e. Set time clocks appropriately 3f. Ensured that settings fit the actual schedule of building use (including night/weekend use) **ACTIVITY 11: CONTROL COMPONENTS** 3g. Ensured appropriate system pressure by testing line pressure at both the 3i. Replaced control system filters at the compressor inlet based on the compressor manufacturer's recommendation (for example, when you Set the line pressure at each thermostat and damper actuator at the proper level (no leakage or obstructions) **ACTIVITY 12: OUTDOOR AIR DAMPERS** 3k. Ensured that the outdoor air damper is visible for inspection...... 31. Ensured that the recirculating relief and/or exhaust dampers are visible for inspection 3m. Ensured that air temperature in the indoor area(s) served by each outdoor air damper is within the normal operating range





3. CONTROLS FOR OUTDOOR AIR SUPPLY (continued)		
3n. Checked that the outdoor air damper fully closes within a few minutes of shutting off appropriate air handler	lo	N/A
when the an nandre is turned on	ב	
3p. If in heating mode, checked that the outdoor air damper goes to its minimum position (without completely closing) when the room thermostat is set to 85°F	_	٥
position (without completely closing) when the room thermostat is set to 60°F and mixed air thermostat is set to 45°F	<u>_</u>	۵
 Moving parts are free of impediments (e.g., rust, corrosion) Electrical wire or pneumatic tubing connects to the damper actuator The outside air thermostat(s) is functioning properly (e.g., in the right 		
Proceed to Activities 13–16 if the damper seems to be operating properly.		
ACTIVITY 13: FREEZE STATS 3s. Disconnected power to controls (for automatic reset only) to test continuity across terminals OR	B	0
3t. Confirmed (if applicable) that depressing the manual reset button (usually red) trips the freeze stat (clicking sound indicates freeze stat was		
NOTE: HVAC systems with water coils need protection from the cold. The freeze-stat m close the outdoor air damper and disconnect the supply air when tripped. The typical trange is 35°F to 42°F.	ay rip	
ACTIVITY 14: MIXED AIR THERMOSTATS		
3v. Ensured that the mixed air stat for heating mode is set no higher than 65°F	_	ū
3w. Ensured that the mixed air stat for cooling mode is set no lower than the room thermostat setting		۵
ACTIVITY 15: ECONOMIZERS 3x. Confirmed proper economizer settings based on design specifications or local practices	1	
NOTE: The dry-bulb is typically set at 65°F or lower.		
3y. Checked that sensor on the economizer is shielded from direct sunlight	_	
exhaust/relief air, and recirculated air), per the design specifications]	
NOTE: Economizers use varying amounts of cool outdoor air to assist with the cooling load of the room or rooms. There are two types of economizers, dry-bulb and enthalpy. Dry-bulb economizers vary the amount of outdoor air based on outdoor temperature, and enthalpy economizers vary the amount of outdoor air based on outdoor temperature and humidity level.		

3. CONTROLS FOR OUTDOOR AIR SUPPLY (continued) **ACTIVITY 16: FANS** 3aa. Ensured that all fans (supply fans and associated return or relief fans) Yes, No N/A that move outside air indoors continuously operate during occupied NOTE: If fan shuts off when the thermostat is satisfied, adjust control cycle as necessary to ensure sufficient outdoor air supply. 4. AIR DISTRIBUTION **ACTIVITY 17: AIR DISTRIBUTION** 4a. Ensured that supply and return air pathways in the existing ventilation system perform as required 4b. Ensured that passive gravity relief ventilation systems and transfer grilles between rooms and corridors are functioning NOTE: If ventilation system is closed or blocked to meet current fire codes, consult with a professional engineer for remedies. 4c. Made sure every occupied space has supply of outdoor air (mechanical system or operable windows) 4d. Ensured that supply and return vents are open and unblocked NOTE: If outlets have been blocked intentionally to correct drafts or discomfort, investigate and correct the cause of the discomfort and reopen the vents. 4e. Modified the HVAC system to supply outside air to areas without an outdoor air supply 4f. Modified existing HVAC systems to incorporate any room or zone layout and population changes 4g. Moved all barriers (for example, room dividers, large free-standing blackboards or displays, bookshelves) that could block movement of air in the room, especially those blocking air vents 4h. Ensured that unit ventilators are quiet enough to accommodate classroom 4i. Ensured that classrooms are free of uncomfortable drafts produced by air from supply terminals **ACTIVITY 18: PRESSURIZATION IN BUILDINGS** NOTE: To prevent infiltration of outdoor pollutants, the ventilation system is designed to maintain positive pressurization in the building. Therefore, ensure that the system, including any exhaust fans, is operating on the "occupied" cycle when doing this activity. 4j. Ensured that air flows out of the building (using chemical smoke) through windows, doors, or other cracks and holes in exterior wall (for example, floor joints, pipe openings) 5. EXHAUST SYSTEMS **ACTIVITY 19: EXHAUST FAN OPERATION** 5a. Checked (using chemical smoke) that air flows into exhaust fan grille(s) 🖤 If fans are running but air is not flowing toward the exhaust intake, check for the following: Inoperable dampers · Obstructed, leaky, or disconnected ductwork · Undersized or improperly installed fan

· Broken fan belt





5. EXHAUST SYSTEMS (continued)

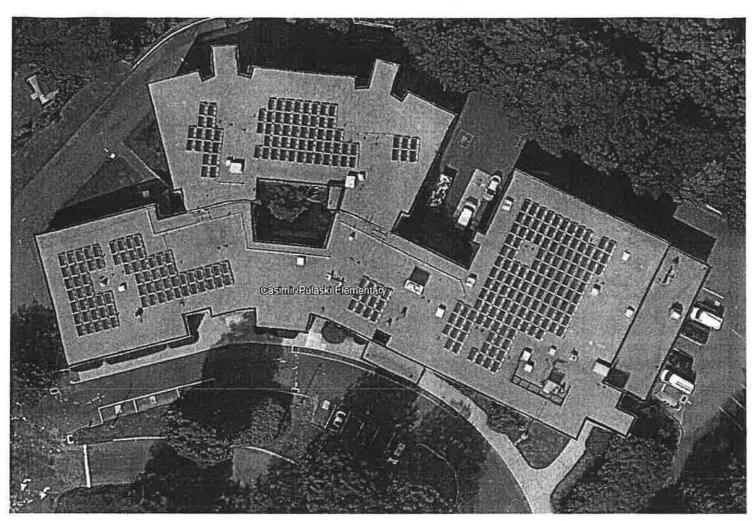
ACTIVITY 20: EXHAUST AIRFLOW

NOTE: Prevent migration of indoor contaminants from areas such as bathroo and labs by keeping them under negative pressure (as compared to surrounding)	ms, kito ng spac	chens ces).	Γ,
5b. Checked (using chemical smoke) that air is drawn into the room from adjacent spaces	Yes	No	N/A
Stand outside the room with the door slightly open while checking airflow hig the door opening (see "How to Measure Airflow").		low in	n
5c. Ensured that air is flowing toward the exhaust intake	b	u	
ACTIVITY 21: EXHAUST DUCTWORK 5d. Checked that the exhaust ductwork downstream of the exhaust fan (which under positive pressure) is sealed and in good condition	h is 122	<u> </u>	<u> </u>
6. QUANTITY OF OUTDOOR AIR			
ACTIVITY 22: OUTDOOR AIR MEASUREMENTS AND CALCULAT	IONS		
NOTE: Refer to "How to Measure Airflow" for techniques.			
6a. Measured the quantity of outdoor air supplied (22a) to each ventilation unit	也	0	۵
6b. Calculated the number of occupants served (22b) by the ventilation unit under consideration	0	O'	
 Divided outdoor air supply (22a) by the number of occupants (22b) to determine the existing quantity of outdoor air supply per person (22c) 	0	Ø	_
ACTIVITY 23: ACCEPTABLE LEVELS OF OUTDOOR AIR QUANTI			
6d. Compared the existing outdoor air per person (22c) to the recommended levels in Table 1	0	ď	
6e. Corrected problems with ventilation units that supplied inadequate quantities of outdoor air to ensure that outdoor air quantities (22c) meet the recommended levels in Table 1	🖢	- -	0

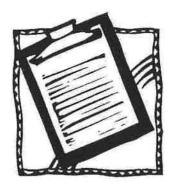
NOTES

3c multiple upgrades to the HUAC system since original building construction of 1971

39,h,I,J IVA, all controls are digital
4jo No smoke was used, tissue was used to identify
5b 3 air flow



E new unit ventilators were installed in 3rd floor classioonis 201-208



- 1. Read the IAQ

 Backgrounder and the Background Information for this checklist.
- 2. Keep the
 Background
 Information and
 make a copy of
 the checklist for
 future reference.
- 3. Complete the Checklist.
 - Check the "yes," "no," or "not applicable" box beside each item. (A "no" response requires further attention.)
 - Make comments in the "Notes" section as necessary.
- 4. Return the checklist portion of this document to the IAQ Coordinator.

Walkthrough Inspection Checklist

Name: Daniel Paul		
School: Casimir Pulaski Element	ary School	
Room or Area: All	Date Completed:	2/26/2024
Signature: Den J. J. Parl	X	

1.	GROUND LEVEL	es l	VIO.	N/A
1a.	Ensured that ventilation units operate properly			
	Ensured there are no obstructions blocking air intakes			
	Checked for nests and droppings near outdoor air intakes			
	Determined that dumpsters are located away from doors, windows, and outdoor air intakes		۵	
	Checked potential sources of air contaminants near the building (chimneys, stacks, industrial plants, exhaust from nearby buildings)	₫,	a	
1f.	Ensured that vehicles avoid idling near outdoor air intakes	ø,		
1g.	Minimized pesticide application	3		
	Ensured that there is proper drainage away from the building (including roof downspouts)			
li.	Ensured that sprinklers spray away from the building and outdoor			
	air intakes			
1j.	Ensured that walk-off mats are used at exterior entrances and that they are cleaned regularly	4	۵	۵
2.	ROOF			
Wh	ile on the roof, consider inspecting the HVAC units (use the Ventilation Check	list).		
	Ensured that the roof is in good condition			
	Checked that ventilation units operate properly (air flows in)			
	Ensured that exhaust fans operate properly (air flows out)			
	Ensured that air intakes remain open, even at minimum setting			
2f.	Checked for nests and droppings near outdoor air intakes	8		
	Ensured that air from plumbing stacks and exhaust outlets flows away from outdoor air intakes			<u> </u>
3.	ATTIC			
3a.	Checked for evidence of roof and plumbing leaks			02
	Checked for birds and animal nests			1
4.	GENERAL CONSIDERATIONS			
4a.	Ensured that temperature and humidity are maintained within acceptable ranges	8		
4b.	Ensured that no obstructions exist in supply and exhaust vents	Q,		
	Checked for odors		口	
4d.	Checked for signs of mold and mildew growth	D		

4. (GENERAL CONSIDERATIONS (continued)	No	N/A		
4 e	Checked for signs of water damage				A
4f	Checked for evidence of pests and obvious food sources		ā		MA.
	Noted and reviewed all concerns from school occupants				
. 6.	Those and Total or an action of the second o				A R
5.	BATHROOMS AND GENERAL PLUMBING				
-	Francisco de la constanta de l			3	
	Ensured that bathrooms and restrooms have operating exhaust fans		_		
30.	Ensured proper drain trap maintenance: Water is poured down floor drains once per week (approx. 1 quart of water)	П			
	Water is poured into sinks at least once per week (about 2 cups of water)	, n			
	Toilets are flushed at least once per week (about 2 cups of water)	/ n	_		
	Tonots are rushed at least once per week	_	_		
6.	MAINTENANCE SUPPLIES				
oa.	Ensured that chemicals are used only with adequate ventilation and when building is unoccupied	0			
6b.	Ensured that vents in chemical and trash storage areas are operating	î	de		
	properly		54A		
6c.	Ensured that portable fuel containers are properly closed		` □		
6d.	Ensured that power equipment, like snowblowers and lawn mowers, have	/	_		
	been serviced and maintained according to manufacturers' guidelines				
-	COMBUSTION APPLIANCES				
		,			
7a.	Checked for combustion gas and fuel odors	, \square			
7b.	Ensured that combustion appliances have flues or exhaust hoods	$_{\sim}$ u			
7c.	Checked for leaks, disconnections, and deterioration				
7d.	Ensured there is no soot on inside or outside of flue components	Ц	Q		
0	OTUED				
				:	
8a.	Checked for peeling and flaking paint (if the building was built before	/ _			
	1980, this could be a lead hazard)	/ <u> </u>			
8b.	Determined date of last radon test	u	Ч		
_		_			-
NO	OTES				
140	7123				
_		,	,	71	ے آ
6	a. Majority of Cleaning and	CA	nen	neces use	, 7
	a. Majority of cleaning and				
	when building is unoccup	100	A.		
	when building is unoccup	10	1 *		
	/				

8b. All schools are due for mandatury radon testing in 2024.

2 of 2



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 Background
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Waste Management Checklist

Name: Device Power

School: Casimir Pulaski Elementary School

Room or Area: Date Completed: 2/26/2024

Signature: Date Completed: 2/26/2024

1.	WASTE MANAGEMENT		NI.	BIZA
1a.	Ensured that waste containers are appropriate for use (for example,	BS	IAO	N/A
	food waste containers should have lids)	1		
1b.	Ensured that waste containers are lined	1		
	Ensured that waste from art, science, vocational classes, etc., are			
	handled separately	ב ב		V
1d.	Labeled recycling bins clearly	1		
le.	Ensured number of bins and dumpsters is adequate.	1		
1 f .				_
lg.	Ensured waste containers are emptied regularly	1		
1h.	Ensured appropriate waste removal schedule	/		
1i.	Ensured waste is stored in a well-ventilated room	1		
1j.	Ensured any exhaust fans in the room are operating properly			· E
	Checked waste storage areas for odors, contaminants, or signs of vermin			ū

NOTES

1j - No waste is stored misnole