

# managing risk with responsibility

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May 2, 2008	Signature on File	
TO:	Mr. Robert Crawford, Principal <b>Atlantic Technical Center</b>	
FROM:	Edward See, Project Manager Risk Management Department	
SUBJECT:	Indoor Air Quality (IAQ) Assessment Portable 17, 29C, 73, 297 and 972/73PD	

 For Custodial Supervisor Use Only

 Custodial Issues Addressed

 Custodial Issues Not Addressed

On March 27, 2008 I conducted an assessment of Portable 17, 29C, 73, 297 and 972/73PD at **Atlantic Technical Center**. This evaluation included observations of the flooring system, ceiling tiles, false ceiling plenum, environmental surfaces, interior and exterior walls, and the accessible ventilation equipment. Additionally, environmental parameter measurements were taken to include temperature, relative humidity, and carbon dioxide. The detailed findings, along with the recommended corrective action can be found on the attached IAQ Assessment Worksheets.

The IAQ assessment did identify one or more existing conditions impacting IAQ and has generated appropriate work orders to correct deficiencies in systems and maintenance that could contribute to decreased indoor air quality. At the time of the assessment, these concerns were not an immediate health or safety concern to building occupants. However, due to individual sensitivities and predisposing health factors, it is possible that some building occupants may elicit a health response to agents and / or conditions identified during the evaluation. Therefore, to further improve IAQ, prevent development of future IAQ-related problems, and to reduce the potential for IAQ-related complaints by building occupants, the IAQ Assessment Team recommends appropriate follow up of each item identified and listed in the attached evaluation.

Please ensure that your Head Facilities Serviceperson receives a copy of this correspondence so that the recommendations requiring their attention can be addressed. Within two weeks a representative from the Custodial/Grounds Department will conduct a follow-up visit to ensure that all issues have been appropriately addressed.

Should any questions arise, or if the current concerns continue after the attached recommendations have been addressed, please feel free to contact me at 754-321-3200.

cc: Dr. Leontine Butler, Area Superintendent Fran Bolden, Area Director Jeffrey S. Moquin, Director, Risk Management Joe DeLillo, Project Manager, Facilities and Construction Management Dane Ramson, Broward Teachers Union Roy Jarrett, Federation of Public Employees Mark Dorsett, Manager 1, Physical Plant Operations Division, Zone 1 Roy Norton, Manager Custodial/Grounds, Physical Plant Operations Division Robert Krickovich, Coordinator, LEA, Facilities and Construction Management

ES/tc Enc.

			IAQ As	sessment	Location Num	nber	2221	
	At	tlantic Technic	al Center		Evaluation Rec	quested	March	26, 2008
Time of Day	2:00 pm				Evaluat	ion Date	March	27, 2008
Outdoor Conditior	ns Tem	perature	78.1	Relative Humidity	52.8	Ambien	t CO2	458
	perature R	Range Rela	ative Humidity	Range	CO2	Rang	je #	Occupants
P-17	72.4 72	2 - 78	45.6	30% - 60%	569	Max 700 >	Ambient	3
Noticeable Odor	No		Visible water nage / staining	Visible micro g? growth?		unt of mate affected	erial	
Ceiling Type	2 x 4 Lay I	n	Yes	No		2 cei	ling tiles	
Wall Type	Tackable	,	Yes	No		Nor	th wall	
Flooring	12 x 12 Ving	yl	No	No		1	None	
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective A	ction Req	quired	
Ceiling	Νο	Yes	Yes	Re	emove and rep	olace ceili	ng tiles	
Walls	Νο	Yes	Yes		Repair/replace	e as appro	priate	
Flooring	Yes	No	No					
HVAC Supply Gri	lls Yes	No	No					
HVAC Return Gril	lls Yes	No	No					
Ceiling at Supply Grills	Yes	No	No					
Surfaces in Room	n Yes	No	No					

### Findings:

2 stained ceiling tiles

- Staining on North wall under whiteboard and A/C shaker unit

- Occupant complained of foul odor. Raccoons were sited around the portable. Openings in wood skirting has potential for critter intrusion.

## Recommendations:

### Site Based Maintenance:

- Remove and replace stained ceiling tiles

- Clean HVAC supply grills with Wexcide disinfectant solution

- Contact Physical Plant Operations to generate a work order to investigate for possible critters underneath portable and to evaluate skirting around portable and repair as appropriate to close openings.

- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

### Physical Plant Operations:

- Evaluate cause of stained wall material on North wall under A/C shaker unit and repair as appropriate. Repair/replace wall material.

			IAQ Ass	essment	Location N	lumber	2221	
	A	tlantic Technica	l Center		Evaluation	Requested	March	26, 2008
Time of Day	2:00 pm				Eval	uation Date	March	27, 2008
Outdoor Condit	ions Tem	perature 78	3.1 I	Relative Humidity	52.8	Ambie	nt CO2	458
Fish T	emperature F	ange Relat	ive Humidity	Range	CO2	Ran	ige #	Occupants
P-29C	73.9 <b>7</b> 2	2 - 78	34.7	30% - 60%	631	Max 700	> Ambien	t 1
Noticeable Ode	or No		sible water age / staining?	Visible micro growth?		mount of ma affected		
Ceiling Type	2 x 4 Lay	n	Yes	No		2 c	eiling tiles	
Wall Type	Tackable	)	No	No			None	
Flooring	12 x 12 Vin	yl	No	No			None	
	Clean	Minor Dust / Debris	Needs Cleaning		Correctiv	e Action Re	equired	
Ceiling	No	Yes	Yes	R	emove and	replace cei	ling tiles	
Walls	Yes	No	No					
Flooring	Yes	Νο	No					
HVAC Supply C	Grills No	Yes	Yes	C	lean with W	/excide disi	infectant	
HVAC Return G	Grills Yes	No	No					
Ceiling at Supp Grills	oly Yes	Νο	No					
Surfaces in Ro	om Yes	No	No					

Findings:

- 2 stained ceiling tiles

- Dust and debris on HVAC supply grills

# Recommendations:

# Site Based Maintenance:

- Remove and replace stained ceiling tiles

- Clean HVAC supply grills with Wexcide disinfectant solution

- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

# Physical Plant Operations:

- Evaluate cause of stained ceiling tiles and repair as appropriate

			IAQ As	sessment	Location	n Number	2221	
	At	lantic Technica	al Center		Evaluatio	on Requested	March	26, 2008
Time of Day	2:00 pm				Ev	valuation Date	March	27, 2008
Outdoor Condition	ns Tem	perature 7	/8.1	Relative Humidit	52.8	Ambie	nt CO2	458
Fish Tem	perature R	ange Rela	tive Humidity	Range	CO2	Ran	ge #	Occupants
P-73	71.9 72	2 - 78	44.6	30% - 60%	480	Max 700	> Ambien	t 3
Noticeable Odor	No		/isible water age / staining	Visible mici growth		Amount of main affected	terial	
Ceiling Type	Wood Pan	əl	No	No			None	
Wall Type	Wood Pan	əl	No	No			None	
Flooring	12 x 12 Viny	/	No	No	Ľ		None	
	Clean	Minor Dust / Debris	Needs Cleaning		Correct	ive Action Re	equired	
Ceiling	Yes	No	No					
Walls	Yes	Νο	No					
Flooring	Yes	No	No					
HVAC Supply Gri	lls No	Yes	Yes		Clean with	Wexcide disi	infectant	
HVAC Return Gril	ls Yes	Νο	No					
Ceiling at Supply Grills	Yes	No	No					
Surfaces in Room	Yes	Νο	No					

Findings:

Dust and debris on HVAC supply grills

# Recommendations:

<u>Site Based Maintenance:</u> - Clean HVAC supply grills with Wexcide disinfectant solution - Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

			IAQ As	sessment	Locat	ion Number	2221	
	A	tlantic Technica	l Center		Evalua	tion Requested	March	26, 2008
Time of Day	2:00 pm					Evaluation Date	March	27, 2008
Outdoor Condition	ns Tem	perature 7	8.1	Relative Hum	idity 52.	8 Ambie	nt CO2	458
Fish Tem	nperature F	Range Relat	ive Humidity	Range	CO2	Ran	ige #	Occupants
P-297	71.4 <b>7</b>	2 - 78	42.9	30% - 60%	797	Max 700	> Ambien	t 3
Noticeable Odor	Yes		isible water age / staining		microbial wth?	Amount of mat affected	terial	
Ceiling Type	2 x 4 Lay	In	Yes	N	lo	1 c	eiling tile	
Wall Type	Tackable	;	No	N	lo		None	
Flooring	12 x 12 Vin	yl	No	Ν	10		None	
	Clean	Minor Dust / Debris	Needs Cleaning		Corre	ective Action Re	equired	
Ceiling	Yes	Νο	No					
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply Gri	lls Yes	Νο	No					
HVAC Return Gri	lls Yes	Νο	No					
Ceiling at Supply Grills	Νο	Yes	Yes		Remove	and replace ce	iling tile	
Surfaces in Room	n Yes	Νο	No					

Findings: - Stained ceiling tile at HVAC supply grill - Odor in room from potpourri

# Recommendations:

# Site Based Maintenance:

Remove and replace ceiling tile at HVAC supply grill

Remove potpourri from room

Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

			IAQ Ass	sessment	Locatio	n Number	2221	
	Α	tlantic Technica	l Center		Evaluati	on Requested	March	26, 2008
Time of Day	2:00 pm				E	valuation Date	March	27, 2008
Outdoor Condi	itions Terr	perature 7	8.1	Relative Humid	ity 52.8	Ambie	nt CO2	458
Fish	Temperature	Range Relat	ive Humidity	Range	CO2	Ran	ge #	Occupants
P-972 -73PD	75.2 <b>7</b>	2 - 78	40.6	30% - 60%	488	Max 700	> Ambien	t 2
Noticeable Od	lor No		isible water age / staining'	Visible mi ? growt		Amount of main affected	terial	
Ceiling Type	2 x 4 Lay	In	Yes	No	] [	2 ce	eiling tiles	
Wall Type	Tackable	e	No	No	] [		None	
Flooring	12 x 12 Vir	yl	No	No	] [		None	
	Clean	Minor Dust / Debris	Needs Cleaning		Correc	tive Action Re	equired	
Ceiling	No	Yes	Yes		Remove a	nd replace cei	ling tiles	
Walls	Yes	No	No					
Flooring	Yes	Νο	No					
HVAC Supply	Grills No	Yes	Yes		Clean with	n Wexcide disi	infectant	
HVAC Return	Grills No	Yes	Yes		Clean with	n Wexcide disi	infectant	
Ceiling at Sup Grills	ply Yes	No	No					
Surfaces in Ro	oom Yes	No	Νο					

Findings:

- Dust and debris on HVAC supply and return grills

- Dust build up on A/C filters

- 2 stained ceiling tiles - (West wall and center of room)

# Recommendations:

# Site Based Maintenance:

- Clean HVAC supply and return grills with Wexcide disinfectant solution

- Remove and replace A/C filters

- Remove and replace stained ceiling tiles and monitor for return of stain. If stain returns contact Physical Plant Operations to generate a work order to evaluate for cause

- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate