

managing risk with responsibility

Telephone: 754-321-3200 Facsimile: 754-321-3290

February 2, 2	2009 Signature on File	For Custodial Supervisor Use Only				
TO:	Mr. Mark Thomas, Principal McFatter Technical Center	Custodial Issues Addressed Custodial Issues Not Addressed				
FROM:	Edward See, Project Manager Risk Management Department					
SUBJECT:	Indoor Air Quality (IAQ) Assessment FISH 605, 605B and 605C					

On January 30, 2009 I conducted an assessment of FISH 605, 605B and 605C at McFatter 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.

Dr. Leontine Butler, Area Superintendent
 Dr. Desmond Blackburn, Area Director
 Jeffrey S. Moquin, Executive Director, Support Operations
 Greg Boardman, 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.

		М	cFatter Tec	hnical Cente	<u>r</u>			Evaluatio	n Req	uested	Janua	ary 16, 2	2009
Time of Day]		_			Ev	⁄aluati	on Date	Janua	ary 30, 2	2009
Outdoor Condi	tions	Ter	nperature	73.8	Re	elative Hun	nidity	69.7		Ambier	nt CO2 [408	
Fish	Temperat	ture	Range	Relative Hun	nidity	Range		CO2		Ran	ge	# Occi	upants
605	70.6	3	72 - 78	61.5	3	0% - 60%		460		Max 700 :	> Ambie	ent	4
Noticeable Od	lor	No]	Visible w damage / sta		Visible gro	microl	bial .		nt of mate	erial		
Ceiling Type		2 x 4		No]		No				None		
Wall Type	Ce	eramic ⁻	Tile	No]	ı	No			l	None		
Flooring	Co	ncrete	Tile	No]		No				None		
	Cle	ean	Minor D / Debri		eds aning			Correct	ive A	ction Re	quired		
Ceiling		Yes	No	N	lo								
Walls		Yes	No	l N	lo								
Flooring		Yes	No	N	lo								
HVAC Supply	Grills 🛚	Yes	No	l N	lo								
HVAC Return (Grills 🛚	Yes	No	N	lo								
Ceiling at Sup Grills	ply 🛚	Yes	No	N	lo								
Surfaces in Ro	oom [Yes	No	N	lo								

IAQ Assessment

1291

January 16, 2009

Location Number Evaluation Requested

Observations

Findings:

- Receiving door was propped open for outdoor mat washing
- Air curtain for receiving door was shut off
- Receiving door seals were worn
- Positive pressure resulting in outside air intruding into area
- Temperature was low and humidity level was slightly elevated at the time of the assessment. However, exterior door was open at the time of the assessment.

Recommendations:

Site Based Maintenance:

- Ensure that all doors and windows to the exterior remain closed. Open doors or windows allow humid untreated air into occupied environment.
- Ensure that air curtain for receiving door remains on
- 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 seals around receiving door and repair/replace as appropriate
- Evaluate HVAC system for proper operation and repair as appropriate
- Install data loggers to monitor environmental parameters

	Mc	Fatter Technic	al Center		Evaluation	n Requested	January 16, 2009	
Time of Day					Ev	aluation Date	January 30, 2009	
Outdoor Condit	tions Tem	perature	73.8	Relative Humidity	69.7	Ambier	nt CO2 408	
Fish T		Range Rela	62.7	Range 30% - 60%	CO2 494	Rang Max 700	ge # Occupants > Ambient 2	
Noticeable Ode			 Visible water nage / staining	Visible micro	obial Amount of material			
Ceiling Type	2 x 4		No	No			None	
Wall Type	Ceramic Ti	le	No No			None		
Flooring	Concrete Ti	le	No	No			None	
	Clean	Minor Dust / Debris	Needs Cleaning		Correcti	ive Action Re	quired	
Ceiling	Yes	No	No					
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply (Grills Yes	No	No					
HVAC Return C	Grills Yes	No	No					
Ceiling at Supp Grills	oly Yes	No	No					
Surfaces in Ro	om Yes	No	No					
bservations								
Findings: (Sto		10. 1	P 1 41 1 .					

IAQ Assessment

1291

Location Number

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- Temperature was low and humidity level was slightly elevated at the time of the assessment
- Minor microbial growth (@ 1 square foot) on storage shelves appears sporadically
- No floor drain in room

Recommendations:

Site Based Maintenance:

- Wipe down storage shelves 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 HVAC system for proper operation and repair as appropriate to increase temperature and lower humidity
- Install data loggers to monitor environmental parameters

	M	lcFatter Tech	nical Center		Evaluation	n Requested	January 16, 2009	
Time of Day			_		Ev	aluation Date	January 30, 2009	
Outdoor Condi	tions Te	mperature	73.8	Relative Humidity	69.7	Ambier	nt CO2 408	
Fish 1	Temperature	Range R	elative Humidity	Range	CO2	Ran	ge # Occupants	
605C	67.1	72 - 78	62.4	30% - 60%	503	Max 700 :	> Ambient 2	
Noticeable Od	or No	,	Visible water lamage / staining	Visible micro growth?	bial /	Amount of mat affected	erial	
Ceiling Type	2 x 4		No	No		None		
Wall Type	Drywall/Pl	aster	No	No		None		
Flooring	6" x 6" T	ïle	No	No			None	
	Clean	Minor Dus / Debris			Correcti	ve Action Re	quired	
Ceiling	Yes	No	No					
Walls	Yes	No	No					
Flooring	No	Yes	Yes		Clea	n and sanitiz	e	
HVAC Supply	Grills Yes	No	No					
HVAC Return (Grills					N/A		
Ceiling at Supp Grills	oly Yes	No	No					
Surfaces in Ro	oom No	Yes	Yes		Clean	as appropria	ite	
bservations								
Findings: - Temperature w - Minor microbia				ed at the time of the	assessme	nt		

IAQ Assessment

1291

Location Number

- No floor drain in room
- Dust build up on environmental surfaces

Recommendations:

Site Based Maintenance:

- Wipe down storage shelves with Wexcide disinfectant solution
- Thoroughly clean surfaces throughout the room
- 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 HVAC system for proper operation and repair as appropriate to increase temperature and lower humidity
- Install data loggers to monitor environmental parameters