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April 5, 2006

Signature on File

TO: Mr. Robert Crawford, Principal
Atlantic Technical Center

FROM: Robert J. Krickovich, Coordinator, LEA
Facilities and Construction Management, Environmental Division

SUBJECT: Indoor Air Quality (IAQ) Assessment
FISH 184 and 184C

On February 16, 2006 I conducted an assessment of FISH 184 and 184C 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.

Should any questions arise, or if the current concerns continue after the attached recommendations have been addressed, please feel free to contact me at 754-321-1638.

cc: Dr. Harry LaCava, Area Superintendent
Dr. Linda Bedell, Area Director
Jeffrey S. Moquin, Director, Risk Management
Philip Kaufold, Project Manager, Facilities and Construction Management
Ruby Fitzgerald, Broward Teachers Union
Mark Dorsett, Manager 1, Physical Plant Operations Division, Zone 1
Roy Norton, Manager Custodial/Grounds, Physical Plant Operations Division

RK/tc
Enc.

IAQ Assessment

Location Number
 Evaluation Requested
 Evaluation Date

Atlantic Technical Center

Time of Day

Outdoor Conditions Temperature Relative Humidity Ambient CO2

Fish	Temperature	Range	Relative Humidity	Range	CO2	Range	# Occupants
<input type="text" value="184"/>	<input type="text" value="66.5"/>	<input type="text" value="72 - 78"/>	<input type="text" value="60.9"/>	<input type="text" value="30% - 60%"/>	<input type="text" value="608"/>	<input type="text" value="Max 700 > Ambient"/>	<input type="text" value="2"/>
Noticeable Odor		Visible water damage / staining?		Visible microbial growth?		Amount of material affected	
<input type="text" value="No"/>		<input type="text" value="Yes"/>		<input type="text" value="No"/>		<input type="text" value="16 ceiling tiles (see below)"/>	
Ceiling Type	<input type="text" value="2 x 4 Lay In"/>		<input type="text" value="Yes"/>	<input type="text" value="No"/>		<input type="text" value="10 Square Feet"/>	
Wall Type	<input type="text" value="Drywall"/>		<input type="text" value="Yes"/>	<input type="text" value="Yes"/>		<input type="text" value="None"/>	
Flooring	<input type="text" value="Carpet"/>		<input type="text" value="No"/>	<input type="text" value="No"/>			

	Clean	Minor Dust / Debris	Needs Cleaning	Corrective Action Required
Ceiling	<input type="text" value="No"/>	<input type="text" value="Yes"/>	<input type="text" value="Yes"/>	<input type="text" value="Replace as appropriate"/>
Walls	<input type="text" value="No"/>	<input type="text" value="Yes"/>	<input type="text" value="Yes"/>	<input type="text" value="Clean with Wexcide disinfectant"/>
Flooring	<input type="text" value="Yes"/>	<input type="text" value="No"/>	<input type="text" value="No"/>	<input type="text" value=""/>
HVAC Supply Grills	<input type="text" value="No"/>	<input type="text" value="Yes"/>	<input type="text" value="Yes"/>	<input type="text" value="Clean with Wexcide disinfectant"/>
HVAC Return Grills	<input type="text" value="Yes"/>	<input type="text" value="No"/>	<input type="text" value="No"/>	<input type="text" value=""/>
Ceiling at Supply Grills	<input type="text" value="Yes"/>	<input type="text" value="No"/>	<input type="text" value="No"/>	<input type="text" value=""/>
Surfaces in Room	<input type="text" value="Yes"/>	<input type="text" value="No"/>	<input type="text" value="No"/>	<input type="text" value=""/>

Observations

Findings:

- Visible microbial growth on wall where water damaged book case was removed and at baseboard by door to ramp
- 15 ceiling tiles were removed due to water damage from Hurricane Wilma
- 1 stained ceiling tile
- Walls were dry at the time of the evaluation
- Dust and debris on HVAC supply grills
- Temperature was low and humidity level was slightly elevated

Recommendations:

Site Based Maintenance:

- Clean wall and baseboard with Wexcide disinfectant solution and monitor location for return of microbial growth
- 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 and repair cause of water damage and replace missing and stained ceiling tiles as appropriate
- Evaluate and repair HVAC to increase temperature and lower humidity level

IAQ Assessment

Location Number 2221
 Evaluation Requested February 14, 2006
 Evaluation Date February 16, 2006

Atlantic Technical Center

Time of Day 1:20 pm

Outdoor Conditions Temperature 76.1 Relative Humidity 53.7 Ambient CO2 421

Fish	Temperature	Range	Relative Humidity	Range	CO2	Range	# Occupants
184C	66.1	72 - 78	62	30% - 60%	625	Max 700 > Ambient	2
Noticeable Odor		Visible water damage / staining?		Visible microbial growth?		Amount of material affected	
No		Yes		No		5 ceiling tiles (see below)	
Ceiling Type	2 x 4 Lay In		Yes	No		8 Square Feet	
Wall Type	Drywall		Yes	Yes		None	
Flooring	Carpet		No	No			

	Clean	Minor Dust / Debris	Needs Cleaning	Corrective Action Required
Ceiling	No	Yes	Yes	Replace as appropriate
Walls	No	Yes	Yes	Clean with Wexcide disinfectant
Flooring	Yes	No	No	
HVAC Supply Grills	Yes	No	No	
HVAC Return Grills				N/A
Ceiling at Supply Grills	Yes	No	No	
Surfaces in Room	Yes	No	No	

Observations

Findings:

- Visible microbial growth on wall at both sides of door and on wall under roof access hatch
- 2 ceiling tiles were removed due to water damage from Hurricane Wilma
- 3 stained ceiling tile
- Walls were dry at the time of the evaluation
- Temperature was low and humidity level was slightly elevated

Recommendations:

Site Based Maintenance:

- Clean walls with Wexcide disinfectant solution and monitor location for return of microbial growth
- 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 and repair cause of water damage and replace missing and stained ceiling tiles as appropriate
- Evaluate and repair HVAC to increase temperature and lower humidity level