

managing risk with responsibility

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Jeffrey S. Moquin, Director Risk Management Department

FISH 401, 403 and 412

| May 2, 2008 | 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 | | | |

On April 11, 2008 I conducted an assessment of FISH 401, 403 and 412 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.

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.

| McFatter Technical Center | | | | hnical Center | | Evalua | tion Requested | April 11, 2008 |
|---------------------------|--------|-----------|-------------------|--------------------------------|---------------|-------------------|-------------------------|----------------|
| Time of Day | 2:0 | 00 pm | | | | | Evaluation Date | April 11, 2008 |
| Outdoor Condi | tions | Te | emperature | 80.7 | Relative Hum | idity 60.2 | 2 Ambier | nt CO2 466 |
| Fish 7 | Tempe | rature | Range | Relative Humidity | y Range | CO2 | Rang | ge # Occupants |
| 401 | 79 | 9.2 | 72 - 78 | 54.5 |] 30% - 60% [| 651 | Max 700 > | - Ambient 15 |
| Noticeable Od | or [| No | | Visible water damage / stainin | | microbial wth? | Amount of mate affected | erial |
| Ceiling Type | | 2 x 4 La | ıy In | Yes | Y | es | 4 ce | iling tiles |
| Wall Type | Р | laster/D | rywall | Yes | N | lo | No | rth wall |
| Flooring | | 12 x 12 \ | /inyl | No | N | lo | | None |
| | (| Clean | Minor D / Debr | | g | Corre | ctive Action Rec | quired |
| Ceiling | | No | Yes | Yes | R | Remove and | replace stained | ceiling tiles |
| Walls | | No | Yes | Yes | | V | Vipe down walls | |
| Flooring | | Yes | No | No | | | | |
| HVAC Supply | Grills | No | Yes | Yes | | Clean wi | th Wexcide disir | nfectant |
| HVAC Return (| Grills | Yes | No | No | | Clean wi | th Wexcide disir | nfectant |
| Ceiling at Supp Grills | ply | Yes | No | No | | Cle | an as appropria | te |
| Surfaces in Ro | om | No | Yes | Yes | | Cle | an as appropria | te |
| | | | | | | | | |

IAQ Assessment

1291

April 11, 2008

Location Number Evaluation Requested

Observations

Findings:

- 1 stained ceiling tile on North side of room and 3 stained ceiling tiles on South side of room
- Water stains on North wall
- Dust and debris on HVAC supply and return grills and on ceiling at supply grills
- Dust build up on environmental surface

Recommendations:

Site Based Maintenance:

- Remove and replace stained ceiling tiles, wipe down walls and monitor for return of stain. If stain returns contact Physical Plant Operations to generate a work order to evaluate for cause
- Clean HVAC supply and return grills with Wexcide disinfectant solution and remove and replace ceiling tiles at supply grills
- Thoroughly clean environmental 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

| Time of Day | 2:00 pm | | | | Ev | aluation Date April 11, 2008 | |
|---|--------------------|------------------------|-------------------------------|--------------------|----------------|--|--|
| Outdoor Condit | ions Te | mperature | 80.7 | Relative Humidi | ty 60.2 | Ambient CO2 466 | |
| Fish T 403 | emperature 74.7 | Range Re 72 - 78 | 53.8 | Range 30% - 60% | CO2 705 | Range # Occupants Max 700 > Ambient 1 | |
| Noticeable Odd | or No | da | Visible water mage / staining | Visible mid | - | Amount of material affected | |
| Ceiling Type | 2 x 4 La | | No | No |] [| None | |
| Wall Type | Plaster/Dr | | No | No | | None | |
| Flooring | 12 x 12 V | inyi | No | No | <u> </u> | None | |
| | Clean | Minor Dust / Debris | Needs Cleaning | | Correcti | ve Action Required | |
| Ceiling | Yes | No | No | | | | |
| Walls | Yes | No | No | | | | |
| Flooring | Yes | No | No | | | | |
| HVAC Supply C | Grills Yes | No | No | | | | |
| HVAC Return G | irills Yes | No | No | | | | |
| Ceiling at Supp Grills | ly Yes | No | No | | | | |
| Surfaces in Ro | om No | Yes | Yes | | Clean | as appropriate | |
| Dbservations | | | | | | | |
| Findings: - Dust build up of 2 live plants | | s - tops of books | shelves | | | | |
| Recommendation | | | | | | | |
| Site Based Maintenance: - Thoroughly clean tops of bookshelves and other elevated surfaces throughout the room - Remove live plants - soil is a source 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 | | | | | | | |
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IAQ Assessment

McFatter Technical Center

1291

April 11, 2008

Location Number

Evaluation Requested

| Time of Day | 2:00 pm | | | E | valuation Date Apr | il 11, 2008 | | |
|---|-------------------------|---------------------------------|-------------------|-------------|-----------------------------|--------------------------------|--|--|
| Outdoor Condition | ns Temperature | 80.7 | Relative Humid | lity 60.2 | Ambient CO2 | 466 | | |
| Fish Ten | nperature Range | Relative Humidity | Range | CO2 | Range | # Occupants | | |
| 412 | 72 - 78 | | 30% - 60% | | Max 700 > Ambie | ent | | |
| Noticeable Odor | Yes | Visible water damage / staining | | th? | Amount of material affected | | | |
| Ceiling Type | Plaster | No | No | _ [= [| None | | | |
| Wall Type | Soft Panel | Yes | Yes No | | | 6" up from floor (S & E walls) | | |
| Flooring | Concrete | Yes | Yes | | 5 square fee | et | | |
| | Clean Minor I / Deb | | | Correc | tive Action Required | | | |
| Ceiling | Yes | No | | | | | | |
| Walls | No | Yes | | Repair/re | eplace as appropriate | | | |
| Flooring | No | Yes | | Clean with | n Wexcide disinfectant | t | | |
| HVAC Supply Gri | lls | | | | N/A | | | |
| HVAC Return Gri | ils | | | | N/A | | | |
| Ceiling at Supply N/A Grills | | | | | N/A | | | |
| Surfaces in Roon | n Yes No | No | | | | | | |
| Observations | ainel Danm | | | | | | | |
| Findings: Mechar - Visible water leak - Musty odor in roo | from chilled water retu | rn line - work order | generated by site | e - J306254 | | | | |
| Recommendation | s: | | | | | | | |
| Site Based Maintenance: - Thoroughly clean floor 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 drain pan and coils and clean as appropriate NOTE - Work order J306254 generated by site to address leak from chilled water return line | | | | | | | | |
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