

MEMO

DT: April 12 Commission Meeting

TO: Commission Members

FR: District Director

RE: Agenda Item 5 D – Biostyr Building Stairwell Defects

ISSUE: The Biostyr building stairwell portion of the building is tipping away from the main building/tank structure.

The Biostyr building was constructed in 2006-7 as part of the District major facilities upgrade project. The building treatment system was put in service in 2007. The project "Substantial Completion" date was 9/8/2009, excepting the bio-solids storage tank #2. The complete "Project Acceptance Certificate" was signed 2/14/2012.

The Biostyr stairwell defect was observed by District personnel in summer 2012. On June 12, 2012 I sent an e-mail to Tom Kispert, project engineer at McMahon Associates, indicating the discovery of the building defect. Tom replied the same day, and came to the District to observe the problem. On July 11, A contingent of McMahon engineers visit HOV to view, and discuss, the issue, including Tom Kispert, Tom Kocken, and Paul O'Brien. McMahon indicated they felt the issue was the result of normal settling and that the structure should be monitored for any further movement. They suggested that brackets be installed at the location of the joint movement and measurements taken now and in the future. This was performed by HOV employees, and pictures taken on July 23, 2012.

Annual measurements have been taken by HOV employees to monitor the structure for additional movement at the three locations the brackets were installed.

Location # 1 - Ground Floor Level:

07/23/12 gap measurement	1.010 inches
04/04/16 " "	1.140 "

Location # 2 – First Stairwell Landing:

07/23/12 gap measurement	1.090 inches
04/04/16 " "	1.318 "

Location # 3 – Second Stairwell Landing:

07/23/12 gap measurement	0.383 inches
04/04/16 " "	0.834 "

These measurements represent movement after 07/23/2012. Movement prior to July 2012 can only be estimated based upon the crack and joint openings observed.