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May 7, 2012

Mr. Wes Weaver, President
Weaver Construction Management, Inc.
3679 South Huron Street, Suite 404
Englewood, CO 80110

Via Email to: wes@weavercm.com
No Hard Copy to Follow

Re: Harold D. Thompson Regional Water Reclamation Facility (HDTRWRF)
Lower Fountain Metropolitan Sewage Disposal District (LFMSDD)

Dear Wes:

Reference is made to your shop submittal identified as follows:

Submittal No.:	11210-001A
Date of Submittal:	April 27, 2012
Title:	Ultraviolet Radiation Disinfection System
Specification Section:	11210
Manufacturer:	Ozonias North America, LLC

The referenced submittal has been stamped "**Revise and Resubmit**". Our comments are as follows:

1. The items below are in reference to the resubmittal comments provided in the Ozonia response letter dated April 12, 2012 included in the resubmittal.
 - a. Response No. 1. Acknowledged
 - b. Response No. 2 regarding the wireway, Ozonia has removed it from the resubmittal package. Ozonia also recommended that the power and data cables for the UV modules be installed completely in rigid conduit if the wireway is deleted. WCMI shall coordinate properly with its electrical subcontractor to ensure the installation is in accordance with the Ozonia recommendations in order to preserve all warranties. It is acknowledged that a cost reduction of \$1,000 will be provided to the project for the deletion of the wireway.

In following the approach of rigid conduit installation in lieu of a wireway, Ozonia has not changed the size or quantity of conduits on the submitted drawings. Should Ozonia see the need to change conduit sizing for the data and power cables, Ozonia shall be responsible for advising WCMI and its subcontractors as to the conduit sizing Ozonia would recommend for the proper operation of their disinfection system on this project. In complying with Ozonia's recommendations on this issue, we trust that the above described rigid conduit approach will not void or affect in any way the Ozonia warranty provided for this system.

- c. Response No. 3 regarding the revision to the level control weir, we have had correspondence with WCMI and Ozonia on this matter. We will continue to work with John Jacob at WCMI to resolve this issue. In the meantime, we are providing the comments on

the remainder of the resubmittal package in order to expedite the fabrication and delivery of other components of the UV disinfection equipment.

- d. Response No. 4: We acknowledge revision of the submittal documents for deletion of the wireway, refer to previous Comment 1.b. above for additional information.
- e. Response No. 5 regarding revision to the level control weir, refer to previous Comment No. 1.c.
- f. Response No. 6.a., level control weir, refer to previous Comment No. 1.c.
- g. Response No. 6.b. Revisions for the wireway deletion acknowledge, refer to previous Comment No. 1.b.
- h. Response No. 6.c. The low level switch shall be installed upstream of the channel isolation gate as indicated on the submittal drawings. WCMI shall coordinate with their electrical subcontractor to provide the proper conductor routing to accommodate this installation. Refer to Comment 2.m. for additional requirements.
- i. Response No. 6.d. We acknowledge the requirement of tag numbers 1 and 2 for the UV modules.

Response No. 6.e. Regarding the Ozonia response suggesting the adjustment of the location of the utility chase portals, that is not possible. As was explained in the original design coordination with Ozonia, the utility chase and portals are cast in the channel concrete construction which was completed with the building foundation.

Regarding the position of the UV module within the UV channel, the Ozonia response indicated an optimum position of UV module 1 to be 5 feet from the channel isolation slide gate. The original review comment, as well as the original submittal drawings, indicated the position of UV module 1 relative to the end of the channel wall, rather than the isolation slide gate indicated in the response. Please verify the correct reference point for the required 5-foot dimensional placement of UV module 1.

- j. Response No. 6.f. Acknowledged
- k. Response No. 6.g. Acknowledged
- l. Response No. 7.a. Acknowledged, see previous Comment 1.b. regarding the wireway.
- m. Response No. 7.b. Acknowledged, see previous Comment 1.h. regarding the low level switch.
- n. Response No. 7.c. Acknowledged
- o. Response No. 7.d. Refer to previous Comment 1.i. regarding the 5'-0" dimensional placement of UV module 1.

- p. Response No. 7.e. Acknowledged, UV module tags to remain as the number 1 and the number 2.
 - q. Response No. 8.a. Acknowledged
 - r. Response No. 8.b. Refer to previous Comment No. 1.c. regarding the level control weir.
 - s. Response No. 8.c. Acknowledged
 - t. Response No. 9.a. Acknowledged
2. The items below are in reference to the resubmittal comments provided in the Ozonia response letter dated April 25, 2012 included in the resubmittal.
- a. Response No. 1. Acknowledged
 - b. Response No. 2. Refer to previous comments regarding the level control weir.
 - c. Response No. 3.a. Acknowledged, see previous comments regarding level control weir.
 - d. Response No. 3.b. As requested in the previous review letter, WCMI shall verify the data cable length submitted is sufficient for the proposed installation. In addition, refer to previous comments regarding the wireway.
 - e. Response No. 3.c. As requested in the previous review letter, WCMI shall verify the power cable length submitted is sufficient for the proposed installation. In addition, refer to previous comments regarding the wireway.
 - f. Response No. 4.a. Acknowledged, as stated in the response, we will anticipate a complete database form of available disinfection system information for communication to the facility's SCADA system in subsequent submittals following approved shop drawings.

Please note, it appears a new Subsection 7 under Section C has been added to this resubmittal package. Please verify whether or not this is intended to be the previously mentioned communication database, and whether or not this is in its final complete form.

- g. Response No. 4.b. We acknowledge the nameplate revisions described.
- h. Response No. 4.c. Acknowledged
- i. Response No. 5.a. Acknowledged, refer to previous comments regarding wireway.
- j. Response No. 5.b. Acknowledged, refer to previous comments regarding level control weir.
- k. Response No. 5.c. Acknowledged, refer to previous comments regarding wireway.
- l. Response No. 5.d. Acknowledged, refer to previous comments regarding level control weir.

Mr. Wes Weaver
May 7, 2012
Page 4

- m. Response No. 5.e. As requested in the previous review comments, WCMI shall verify the length of low level switch cable required to satisfy the installation. Note that the location of the switch is upstream of the channel isolation gate as described in previous comments.
 - n. Response No. 5.f. Acknowledged
3. The previous submittal package included Ozonia responses to WCMI review comments. Those responses included two attachments, the first being a customer price list for replacement parts and the second being a recent ballast harmonic analysis report. Those two attachments do not appear in this resubmittal package. Please include them in the submittal response to the comments contained in this letter.

Please call if you should have any questions.

Sincerely,



Mark A. Morton, P.E.

MAM/kmw

ec (letter only):

Mr. Jim Heckman, Manager, LFMSDD, lfmanager@lfmsdd.org
Ms. Cindy Murray, Office Manager, Fountain Sanitation District, fsdistrict@fsd901.org
Mr. Jeff Burst, Project Supt., Weaver Construction Management, Inc., jeff@weavercm.com
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Mr. Tyler Ammerman, Weaver Construction Management, Inc., tammerman@weavercm.com
Ms. Leslie Brown, Weaver Construction Management, Inc., leslie@weavercm.com

cc (letter only):

Mr. Jerry Miller, Resident Project Representative, GMS, Inc.