



## AGENDA ITEM EXECUTIVE SUMMARY

Agenda Item:	Wastewater Digester Cover Repair		
Presenter & Title:	Bob Van Gyseghem, Superintendent of Water & Wastewater		
Date:	April 18, 2022		
<b>Please Check Appropriate Box:</b>			
<input checked="" type="checkbox"/>	Committee of the Whole Meeting	<input type="checkbox"/>	Special Committee of the Whole Meeting
<input checked="" type="checkbox"/>	City Council Meeting	<input type="checkbox"/>	Special City Council Meeting
<input type="checkbox"/>	Public Hearing	<input type="checkbox"/>	Other -
Estimated Cost: \$39,475	Budgeted?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Other Funding? <input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Executive Summary:</b>			
<p>The Wastewater plant digester cover has come out of alignment possibly caused by an equipment failure inside the digester. The cover floats up and down based on the amount of methane gas inside. Walker Process design engineers have warned Staff not to return the cover to the zero position without realignment to avoid possibly damaging the internal structure of the cover. As long as staff is able to operate the digester at a level above 1.5 to 6 feet, the digester is operable but cannot be cleaned and inspected. The repair to the cover is unique and difficult. Because of this, staff reached out to Dahme Mechanical. Dahme Mechanical has a proven record of accomplishment providing excellent service at the Wastewater Plant and lift stations. Dahme Mechanical has submitted a plan to fabricate brackets to anchor clips to the existing roller guides and use threaded rod to move the cover back into alignment. Once aligned, the cover should be restrained from twisting out of position and safely be lowered to zero position supported by the digester corbels. Staff is recommending that a 10% contingency be included in the overall not-to-exceed amount to account for any unforeseen field changes that may occur. Any field changes (Change Orders) must be approved by the City Administrator to be applied to the contingency. The cost to repair will be paid for within the existing budget and be reflected in a future budget amendment if necessary.</p>			
<b>Attachments:</b> <i>(please list)</i>			
<ul style="list-style-type: none"> <li>• Resolution</li> <li>• Dahme Mechanical Quote</li> </ul>			
<b>Voting Requirements:</b>			
<p><i>This motion requires 7 affirmative votes for passage.</i></p> <p><i>The Mayor may vote on three occasions: (a) when the vote of the aldermen or trustees has resulted in a tie; (b) when one half of the aldermen or trustees elected have voted in favor of an ordinance, resolution, or motion even though there is no tie vote; or (c) when a vote greater than a majority of the corporate authorities is required by state statute or local ordinance to adopt an ordinance, resolution, or motion.</i></p>			
<b>Recommendation / Suggested Action:</b> <i>(how the item should be listed on agenda)</i>			
<p>Recommend Approval of Resolution Waiving Competitive Bidding and Authorizing the City Administrator to Execute an Agreement with Dahme Mechanical for a total not-to-exceed amount of \$43,422.50.</p>			

**RESOLUTION NO. 2022-59**  
**RESOLUTION AUTHORIZING EXECUTION OF**  
**AGREEMENT to**  
**Repair to Wastewater Plant Digester Cover**

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**BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GENEVA, KANE COUNTY, ILLINOIS**, as follows:

**SECTION 1:** That the City Administrator is hereby authorized to execute, on behalf of the City of Geneva, an agreement with Dahme Mechanical Industries, Inc., for a repair to the wastewater plant digester cover.

**SECTION 2:** This Resolution shall become effective from and after its passage as in accordance with law.

**PASSED** by the City Council of the City of Geneva, Kane County, Illinois, this \_\_\_\_ day of \_\_\_\_\_, 2022

**AYES: \_\_ NAYS: \_\_ ABSENT: \_\_ ABSTAINING: \_\_ HOLDING OFFICE: \_\_**

Approved by me this \_\_\_\_ day of \_\_\_\_\_, 2022.

\_\_\_\_\_  
 Mayor

ATTEST:

\_\_\_\_\_  
 City Clerk



March 29, 2022

Baxter & Woodman Consulting Engineers  
8678 Ridgefield Road  
Crystal Lake, IL 60012

Attn: Brent Perz, P.E., Wastewater Department Manager

Re: Emergency Digester Cover Realignment  
Geneva, IL

Brent:

Dahme Mechanical Industries is pleased to submit the following narrative as a proposed sequence and method(s) to provide the discussed improvements at the project site referenced above:

- coordinate improvement and remediation activities with B&W and Geneva critical leadership personnel
- DMI includes the following services as an attempt to realign and secure the existing cover on the roller guides:
  - fabricate and install anchor clips at each roller guide plate; clips will be installed over existing anchor studs (typical seven locations)
  - anchor clips will serve to secure (2) 1" threaded rods that extend horizontally towards the digester cover and will become anchor points for a structural steel beam of channel "guide" that will be installed on the back side of each vertical guide beam
  - once all clips and guides are installed, Geneva operations personnel will fill the digester to achieve maximum buoyancy and our mechanics will simultaneously attempt to "turn" the cover using chain pullers (also secured to roller guide plates) and will adjust the new vertical guide beam guides to attempt to correct the bending and twisting on the vertical beams that occurred when the cover tilted initially some weeks ago
  - if our efforts in realignment are successful, we will observe the movement of the cover with Geneva operations personnel to determine the best range of level to operate the digester at for the short term until a long-term solution is set in motion
- use of Owner-furnished dumpsters and sanitary facilities will be required
- one-year parts and labor warranty is included

**EXCLUSIONS:**

1. **Dahme Mechanical Industries, Inc. shall not be held liable for any job site safety or job site maintenance of any type upon completion of our work.**
2. All agreements contingent upon strikes, accidents or delays beyond our control.
3. All work not included or described above.
4. All work not included in our trade agreements or reasonably assumed to be our responsibility

**Total Price as described above: \$39,475.00**

Any clear alteration, deviation, or requested change(s) from the above description involving extra costs will be discussed between all parties concerned and if agreed to be incorporated into the work, will be done so on a cost-plus basis. This proposal may be withdrawn by us if not accepted within 30 days; payment terms are 100% net 30 after invoice is received.

Thank you-

Kris Komorn  
Dahme Mechanical Industries, Inc.  
[kkomorn@dahmemechanical.com](mailto:kkomorn@dahmemechanical.com)