

**SUBJECT: RESOLUTION NO. 50, SERIES 2025 – A RESOLUTION
AUTHORIZING THE PURCHASE OF SODIUM HYPOCHLORITE
GENERATOR EMERGENCY REPAIR PARTS**

DATE: JULY 22, 2025

PREPARED BY: GREG VENETTE, UTILITIES SUPERINTENDENT

PRESENTED BY: KURT KOWAR, DIRECTOR OF PUBLIC WORKS

SUMMARY:

Staff recommends approval of Resolution No. 50, Series 2025 for the sole source purchase of emergency repair parts from De Nora Water Technologies LLC (DeNora) in the amount of \$124,545 plus a 10% contingency in the amount of \$12,455 for a total authorized amount of \$137,000.

BACKGROUND / PRIOR DISCUSSIONS:

This purchase will supply four reaction cells and assorted parts needed to bring the Sid Copeland (SCWTP) and Howard Berry (HBWTP) Water Treatment Plants DeNora sodium hypochlorite generators up to full capacity and is vital to preserving the safety, reliability, and regulatory compliance of the drinking water system.

The generators combine water, salt, and electricity to produce sodium hypochlorite for the disinfection of treated water. This chemical is a critical component in ensuring safe, clean water throughout the distribution system, and is essential to maintaining compliance with Colorado Department of Public Health and Environment (CDPHE) regulations.

To sustain reliable sodium hypochlorite production and disinfection, staff have performed routine maintenance and timely replacement of components as detailed in the operation and maintenance manuals. The reaction cell of the HBWTP unit (installed in 2017) has premature signs of corrosion and leakage and is no longer functioning. This unit is two years short of the projected 10-year service life and now requires replacement. Shortly after this discovery, two reaction cells installed in 2020 at SCWTP are showing similar signs of advance corrosion.

To maintain treatment chemical availability and produce safe drinking water reliably, two reaction cells have already been ordered. Approval of this request will fund these two replacements and secure the remaining two units to allow for an eventual full change out of all units. The last two units are being held in reserve to maximize the use of the existing units to full failure. Switch out of these units can be accomplished by staff with minimal interruption of the treatment process.

Each unit has surpassed their 5-year limited warranty and are not covered. However, given the shortened unit performance, staff successfully negotiated a \$35,000 discount on the replacement cells.

DeNora is the sole manufacturer and supplier of these proprietary components.

ANALYSIS:

Staff have been working with DeNora, their partners and other resources to find the root cause of these premature failures. This includes an emergency site visit by a DeNora technician on May 15, 2025. Investigations are still underway, and no specific root cause has been identified.

Additionally, staff have prepared and implemented several contingency plans to provide disinfection of the treatment process and ensure a safe drinking water supply for the City.

Staff will adjust the replacement schedule from 10 years to 7 years as part of the asset management system. These units will continue to be evaluated closely for any signs of early cell degradation.

2025 COUNCIL WORK PLAN:

The recommended purchase supports the City's goal of providing reliable core services through well maintained water infrastructure.

FISCAL IMPACT:

Budgeted?: **No**

Projected Funding

Description	Account	Budget Amount
Operating Fund – Parts/Repair	501461-550020	\$400,000

Projected Expenses

Description	Amount
Two Generation Cells (awaiting delivery)	(\$56,812)
Two Generation Cells (to be ordered)	(\$56,812)
Related and Assorted Replacement Parts	(\$10,921)
Contingency (10%)	(\$12,455)

Budget Amendment

Funding needs for these repairs exceed the current operating budget and will be included in a future budget amendment that has been coordinated with finance. Water fund reserves are sufficient to support this expense.

ALTERNATIVE(S):

Staff have explored several alternatives with the focus of switching to bulk sodium hypochlorite deliveries or replacing the entire generator from a different vendor. Bulk deliveries are more labor intensive and lower the reliability with dependency on an outside vendor for this critical chemical. A replacement generator is projected to be between 8 and 10 times the cost of the reaction cell and will take significant time to secure and install.

RECOMMENDATION:

Staff recommends City Council approve the resolution to purchase emergency replacements parts from DeNora for \$124,545 plus a 10% contingency in the amount of \$12,455 for a total amount of \$137,000, authorize staff to execute change orders for project contingency, and authorize the Mayor, City Manager, Public Works Director, and City Clerk to sign and execute purchase documents on behalf of the City.

ATTACHMENT(S):

1. Resolution No. 50, Series 2025
2. Parts and equipment quotes

**RESOLUTION NO. 50
SERIES 2025**

**A RESOLUTION AUTHORIZING THE PURCHASE OF SODIUM HYPOCHLORITE
GENERATOR EMERGENCY REPAIR PARTS**

WHEREAS, the City finds it necessary to purchase emergency repair parts for the sodium hypochlorite generators at the City's water treatment plants (the "Project"); and

WHEREAS, the City received quotations from De Nora Technologies for the Project; and

WHEREAS, by this Resolution the City Council desires to approve the quotations and to authorize additional contingency for the Project.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF LOUISVILLE, COLORADO:

Section 1. The City Council hereby approves the quotations from De Nora Technologies, LLC for the Project in substantially the same form as the copies of such quotations accompanying this Resolution.

Section 2. The City Council hereby approves an additional ten percent (10%) contingency in the amount of \$12,455 for the Project for a total not-to-exceed amount of \$137,000. The City Manager and/or Public Works Director are authorized to execute change orders in a total amount not to exceed \$12,455 if deemed necessary for the Project.

Section 3. The Mayor, City Manager, Public Works Director, and/or the City Clerk are hereby authorized to execute purchase orders and other documents on behalf of the City for the Project, and the Mayor is hereby further authorized to negotiate and approve such revisions to the quotations as the Mayor determines are necessary or desirable for the protection of the City, so long as the essential terms and conditions of the proposal are not altered.

PASSED AND ADOPTED this 22nd day of July 2025.

Christopher M. Leh, Mayor

ATTEST:

Genny Kline, Interim City Clerk

QUOTATION	NUMBER 20045490	DATE 05/22/2025	Page 1 of 1
CUSTOMER REFERENCE			CURRENCY USD



SHIPPING METHOD		END OF VALIDITY 06/22/2025	
PAYMENT TERMS Credit card		SHIPPING POINT ADDRESS DE NORA WATER TECHNOLOGIES, LLC. 3000 Advance Lane COLMAR, PA 18915 USA	PACKAGING Included
INCOTERMS EXW - Ex Works			
DE NORA CONTACT Mildred Orduno ph: mail: Mildred.Orduno@denora.com		SOLD TO PARTY 30006141 LOUISVILLE, CITY OF 749 MAIN STREET LOUISVILLE, CO 80027 USA	
SHIP TO PARTY 30006141			

ITEM / CODE / DESCRIPTION	U.M	QTY	PRICE	CURRENCY	AMOUNT
10 47000658 Cell Assy, H100SC Legacy Part Number: 201-01314-01	PC	2	28,246.00	USD	56,492.00
20 40000533 Crate, AE Series Legacy Part Number: 5700-788	PC	2	160.00	USD	320.00
De Nora and Customer agree that the General Terms and Conditions of Sale set forth at https://www.denora.com/info/Sales-Terms---Conditions.html (the "Terms") shall exclusively govern the transactions described or contemplated in this Purchase Order or Proposal, as applicable, and any other sales or related transaction between the parties herein, and such Terms are expressly incorporated by reference herein and to any related agreements between the parties. Any additional or different terms or conditions which may appear in any communication from Customer, including, without limitation, in any printed form provided, are hereby expressly objected to and rejected in full and shall not be effective or binding in any capacity unless expressly accepted in an authorized writing by De Nora, regardless of, and fully notwithstanding, De Nora's supply of any goods and services or the execution of any document or acceptance by any person other than an officer or authorized agent of De Nora.					

TAX BASE	SALES TAX AMOUNT	TOTAL PRODUCT	TOTAL SALES TAX	TOTAL
56,812.00 USD	0.00 USD	56,812.00 USD	0.00 USD	56,812.00 USD

QUOTATION	NUMBER 20045427	DATE 05/19/2025	Page 1 of 1
CUSTOMER REFERENCE			CURRENCY USD



SHIPPING METHOD		END OF VALIDITY 06/19/2025	
PAYMENT TERMS Net 30 days		SHIPPING POINT ADDRESS DE NORA WATER TECHNOLOGIES, LLC. 3000 Advance Lane COLMAR, PA 18915 USA	PACKAGING
INCOTERMS EXW - Ex Works			
DE NORA CONTACT Mildred Orduno ph: mail: Mildred.Orduno@denora.com		SOLD TO PARTY CITY OF LOUISVILLE PO BOX 527 LOUISVILLE, GA 30434-0527 USA	
SHIP TO PARTY <			

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QUOTATION	NUMBER 20045096	DATE 04/24/2025	Page 1 of 2
CUSTOMER REFERENCE		CURRENCY USD	



SHIPPING METHOD		END OF VALIDITY 05/24/2025	
PAYMENT TERMS Net 30 days		SHIPPING POINT ADDRESS DE NORA WATER TECHNOLOGIES, LLC. 3000 Advance Lane COLMAR, PA 18915 USA	PACKAGING
INCOTERMS EXW - Ex Works			
DE NORA CONTACT Mildred Orduno ph: mail: Mildred.Orduno@denora.com		SOLD TO PARTY CITY OF LOUISVILLE PO BOX 527 LOUISVILLE, GA 30434-0527 USA	
SHIP TO PARTY <			

ITEM / CODE / DESCRIPTION	U.M	QTY	PRICE	CURRENCY	AMOUNT
10 45026975 DISK, 1"OD x .001 THICK, PFA Legacy Part Number: 300-01645-A	PC	10	1.23	USD	12.30
20 47000500 HIGH FLOW SENSOR KIT Legacy Part Number: 500-00507-A	PC	1	1,530.77	USD	1,530.77
30 47000496 BRINE SOLENOID KIT Legacy Part Number: 500-00508-A	PC	1	2,500.00	USD	2,500.00
50 45025327 Fuse, 0.5A, 5x20MM, FA IEC (20 recommend Legacy Part Number: 400-01197	PC	20	4.46	USD	89.20
60 45025328 Fuse 1A 5x20MM Legacy Part Number: 400-01198	PC	10	1.33	USD	13.30
70 45033055 FUSE, 5A, 5X20MM, FA, IEC Legacy Part Number: 400-00915	PC	5	4.21	USD	21.05

TAX BASE	SALES TAX AMOUNT	TOTAL PRODUCT	TOTAL SALES TAX	TOTAL
10,920.79 USD	0.00 USD	10,920.79 USD	0.00 USD	10,920.79 USD

QUOTATION	NUMBER 20045096	DATE 04/24/2025	Page 2 of 2
CUSTOMER REFERENCE			CURRENCY USD



80	45025425	PC	2	915.38	USD	1,830.76
KIT, H2O TEMP SENSOR Legacy Part Number: 500-00503-A						
90	45026417	PC	2	932.30	USD	1,864.60
Sensor Flow Hi Viton Legacy Part Number: 300-02548						
100	45029889	PC	5	1.71	USD	8.55
GASKET, MANIFOLD, 1-PORT Legacy Part Number: 200-01557-03						
110	45025912	PC	1	904.11	USD	904.11
VALVE CONTROL FLOW BRASS/FKM Legacy Part Number: 300-02798						
120	47000501	PC	1	2,146.15	USD	2,146.15
KIT, WATER SOLENOID VAULT SERIES Legacy Part Number: 500-00509-A						
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