



AGENDA ITEM EXECUTIVE SUMMARY

Agenda Item:	Purchase of Bobcat tow behind air compressor and Declaration of Ingersoll-Rand Compressor as Surplus		
Presenter & Title:	Aaron Holton – Superintendent of Electric Services		
Date:	January 21, 2025		
Please Check Appropriate Box:			
<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 -
Associated Strategic Plan Goal/Objective: EMS-II			
Estimated Cost: \$ 70,923.07	Budgeted?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Other Funding? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<i>If "Other Funding," please explain how the item will be funded:</i>			
Executive Summary:			
<p>The Electric Division has identified a need for a back-up source of compressed air for the Geneva Generation Plant. Purchase of a new tow-behind air compressor with the capability to supply the needed PSI for plant operations was identified as the preferred method to accomplish a redundant source of compressed air. The new compressor will replace the Division's existing tow-behind compressor that has been in service since 1999.</p> <p>The Bobcat model PA450 has been quoted through Sourcewell purchasing cooperative and as such has already been competitively bid.</p>			
Attachments: <i>(please list)</i>			
<ul style="list-style-type: none"> • Memo from Superintendent Holton • Resolution • Sourcewell Quote #PCK 76534 			
Voting Requirements:			
<p><i>This motion requires a simple majority of affirmative votes for passage. (City Council Only)</i></p> <p><i>The Mayor may vote on three occasions: (a) when the vote of the alderpersons has resulted in a tie; (b) when one half of the alderpersons 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>			
Recommendation / Suggested Action: <i>(how the item should be listed on agenda)</i>			
<p>Recommend Approval of Resolution Authorizing Purchase of Bobcat Model PA450 air compressor from O'Leary's Equipment in an amount of \$70,923.07 and Declaration of Unit #1024 Ingersoll-Rand Model P185 as Surplus.</p>			



PUBLIC WORKS DEPARTMENT
MEMORANDUM

January 6, 2025

Memo To: Mayor Burns and City Council

From: Aaron Holton, Superintendent of Electrical Services

Re: Recommendation for purchase of new tow-behind air compressor.

The Generator Prime Movers at the Geneva Generation Facility utilize a large volume of compressed air to power the pneumatic motors that spin the engines during the start-up sequence. This volume of air is supplied by a large 8000 gallon air tank that is pressurized to approximately 425 PSI (Pounds per Square Inch). The facility uses two stationary reciprocating compressors to maintain and recover the air pressure used during start-up and normal operations. Completing the start-up sequence on all 5 engines will deplete the storage tank to a pressure of 160-170 PSI. Staff has run trials and determined that 200 PSI storage pressure is sufficient to provide the volume needed to start the engines, provided the pressure can be recovered quickly once it reaches the 160 PSI range.

Supplied compressed air is provided via two reciprocating high pressure compressors. Under normal operations, both compressors run to supply needed pressurized air into a very large, two-story tall storage tank. Two compressors are needed to provide redundancy in the case that one is not able to run. In the past several years, staff has experienced times when one compressor is down for an extended period of time waiting on parts or service. With one compressor online, the recovery time from 160 to 200 PSI is very lengthy, often measured in hours.

The long recovery time while running only one compressor can become an issue if all of the engines do not start on the first attempt. In that case the facility could be put in a position of not having all the engines online during a Coincidental Peak hour. Based on the upcoming planning year in the PJM capacity market, the potential impact to the utility could be as high as \$96,000.00 per engine if a Coincidental Peak hour is missed.

In light of the critical nature of the Generation performance to the City, staff has explored options to add another layer of redundancy to the compressed air system. Several options have been considered including adding a third stationary compressor, replacing the existing compressors with more robust equipment that also includes an increase in output volume and, finally, adding the capability to use a portable air compressor for the needed supply of air.

The first two options of adding a third standby compressor or replacing the existing compressors was evaluated and rejected due to several factors. First, the building footprint is not sufficient to house either a third compressor or the larger replacement compressors. Second, the supply voltage to power these compressors would likely need to be upgraded due to the larger load. Simply put, there just is not sufficient room to add to, or replace, the existing air compressors.

The third option of a portable air compressor was decided as the best fit after studying the problem of adding additional compressed air capability. The Division's existing tow behind compressor only supplies 100 PSI of compressed air, which isn't sufficient to start the engines. We then looked at purchasing a new compressor that can supply compressed air up to 200 PSI was evaluated and the Bobcat PA450 will meet our requirements. The portable compressor also has the advantage being powered by an independent source and not rely on the power supply from the building to operate. This new compressor can also operate at lower pressures, allowing its use for more routine compressor needs for maintenance and construction activities of the Electric Utility. The existing compressor was also purchased in 1999, and is 25 years old and due for replacement.

Under normal operations, plumbing will be provided at Geneva Generation Facility and the compressor will be staged at GGF during the critical summer run season. This will allow the portable compressor to quickly be put into service in case of the failure of one of the stationary air compressors. "Shop air", or a supply of compressed air for normal operation of the plant, can easily be provided by the existing stationary compressor, so the portable compressor would only be operated long enough to start the engines and then be shut off until another start should be required.

Bobcat equipment has been awarded a contract through Sourcewell for provided compressors and other construction equipment. The Sourcewell contract is provided to member units of Government as a pre-evaluated bidding process. This allows the City to utilize Sourcewell pricing in lieu of performing a sealed bid. This contract meets all of the requirements for purchases of items costing more than \$25,000 as outlined in the Geneva City Code.

Staff Recommendations:

Based on the above analysis, the recommendation is to purchase from O'leary's Equipment a new Bobcat PA450 portable air compressor on Sourcewell Contract 020923-CEC.

Cc: Rich Babica, Director of Public Works
Jose Ruize, Manager of Electric Operations
Jennifer Shelley, Purchasing & Inventory Coordinator

RESOLUTION 2025-05

**A RESOLUTION AUTHORIZING THE PURCHASE OF
BOBCAT MODEL PA450 AND DECLARATION OF
UNIT #1024 INGERSOLL-RAND MODEL P185 AS SURPLUS**

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, the purchase of a Bobcat Model PA450 Air Compressor through Sourcewell Contract 020923-CEC from O’Leary’s Equipment in the amount of \$70,923.07 as quoted in Exhibit “A”.

SECTION 2: That Unit #1024 Ingersoll-Rand Model P185 (S/N 304559UIJ221) is hereby declared surplus upon delivery of the Bobcat Model PA 450 as it will no longer be needed and obsolete and may be sold or otherwise disposed.

SECTION 3: 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 21st day of January, 2025.

AYES: NAYS: ABSENT: ABSTAINING: HOLDING OFFICE:

APPROVED by me as Mayor of the City of Geneva, Kane County, Illinois, this 21st day of January, 2025.

Mayor

ATTEST:

City Clerk

QUOTE # **PCK 76534**

QUOTED BY: KALEB RAINES

SALESMAN: SWARTZ

DISTRICT MGR: COLTEN PONDER 704-883-3868



ORIGINAL QUOTE 12/19/2024

EXPIRATION DATE 1/19/2025

CUSTOMER: SOURCEWELL - CITY OF GENEVA, IL
DISTRIBUTOR: O'LEARY'S EQUIPMENT

QUANTITY: 1

QUOTED MODEL:

PA450VPWCU-T4F

QUOTE NOTES:

CUMMINS T4 FINAL ENGINE INCLUDED
 STANDARD MACHINE QUOTED
 SOURCEWELL CONTRACT NUMBER: 020923-CEC
 MEMBER NUMBER: 32286
 SOURCEWELL CUSTOMER PRICING:
 \$69,953.07 + FREIGHT + PDI
 LEAD TIME BASED ON FACTORY BUILD SLOTS

Sign: _____
 Date: _____

CUSTOMER

CUSTOMER UNIT COST	\$69,953.07
SURCHARGE	\$0.00
FREIGHT EA	\$970.00
DEALER PDI (DEALER TO SET PDI PRICE)	
TOTAL PER UNIT	\$70,923.07
GRAND TOTAL (W/ QTY)	\$70,923.07

LEAD TIME: DELIVERY 15 WEEKS
 ESTIMATED SHIPMENT AFTER RECEIPT OF ORDER AND
 SUBJECT TO CURRENT SCHEDULE(S). CONTACT STATESVILLE AT TIME OF ORDER.

ALL CURRENCY VALUES ARE IN USD

PRICES GOOD FOR 30 DAYS FROM DATE OF QUOTE

DEALER RESPONSIBILITIES:

1. Compliance with all STATE and LOCAL codes, laws, and regulations regarding traffic statues (brakes, lighting, etc. for trailers), noise, and anti-pollution requirements.
2. Acceptance of SPECIAL PAINT. All quoted paints must be Dupont lead-free. Other suppliers are more cost and longer delivery. Neither DUPONT nor DOOSAN BOBCAT assumes any responsibility for matching customer color.
3. FAILURE TO ACKNOWLEDGE OR A FACTORY ORDER BASED ON THIS QUOTATION IS ACCEPTANCE OF ALL STANDARD MODEL(S), TERMS, OPTIONS, COMMENTS, EXCEPTIONS, DEFINITIONS, DEALER RESPONSIBILITIES, DOOSAN REQUIREMENTS, AND OTHER STATEMENTS CONTAINED HEREIN.
4. CUSTOMER SPECIFICATION SPECIFIC ITEMS AS INDICATED BELOW AND/OR ON PAGE 2 OF THIS QUOTE.
5. SPECIFIC MISC. ITEMS: ANTIFREEZE MIX ADJUSTMENT, ELECTRICAL CONNECTORS, COUPLINGS, AND FITTINGS.