



*City Council*  
**COMMITTEE OF THE WHOLE**  
*City of Belvidere, Illinois*

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Alderman Daniel Snow 2<sup>nd</sup> Ward

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Alderman John Sanders, 5<sup>th</sup> Ward

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*Vice Chairman, Public Safety*

Alderman Wendy Frank, 3<sup>rd</sup> Ward

*Vice Chairman, Finance and Personnel*

Alderman Ronald Brooks, 4<sup>th</sup> Ward

*Chairman Public Works*

Alderman Mark Sanderson, 5<sup>th</sup> Ward

*Vice Chairman, Public Works*

**AGENDA**

**April 24, 2017**

**6:00 p.m.**

**City Council Chambers**

**401 Whitney Boulevard**

**Belvidere, Illinois**

Call to Order – Mayor Mike Chamberlain:

Roll Call: Present: Absent:

Public Comment:

Public Forum:

Reports of Officers, Boards, and Special Committees:

Mayor Chamberlain – Mayor Pro Tem

1. Public Safety, Unfinished Business: None.

2. Public Safety, New Business:
  - (A) Fire - Thermo Imaging Camera Purchase Request.
  - (B) Fire - Extrication Equipment Purchase Request.
3. Finance & Personnel, Unfinished Business: None.
4. Finance & Personnel, New Business: None.
5. Other:
  - (A) Fremont Street Lift Station – New Standby Generator.
  - (B) Farmington Ponds 2017 Maintenance Agreement.
  - (C) Business Registration – update.
6. Adjournment:

Belvidere City Meetings are now broadcast live on the internet @ [www.bnnsradio.com](http://www.bnnsradio.com)



**BELVIDERE  
FIRE  
DEPARTMENT**

123 S. State St.  
Belvidere, IL 61008

Fire Chief and Administration  
Offices

(815)544-2242

# Memo...

<b>From:</b>	Chief Hyser	<b>Today's Date:</b>	April 20, 2017
<b>To:</b>	City Clerk Arco	<b>Meeting Date:</b>	April 24, 2017
<b>Subject:</b>	Belvidere City Council: Agenda		

The Belvidere Fire Department is looking to replace and upgrade their existing Thermal Image Cameras (TICs). The Department, headed by Lt. Schadle, has thoroughly researched and tested three (3) manufacturers of TICs and are recommending the purchase of the FLIR K53. The total cost of three (3) TICs is \$17,382.00 being split with 2% fund for a cost to the city of \$8,691.00. This expenditure will come out of line item #01-5-220-8200.

*Chief Al Hyser*



Replace and Upgrade Existing Thermal Imagers

	Base Price	Hi-Definition	DVR	Truck Charger	Unit Cost	Total	Split w/2%
FLIR K53	\$ 5,095.00	Included	Included	\$ 699.00	\$ 5,794.00	\$ 17,382.00	\$ 8,691.00
Bullard LDX	\$ 7,295.00	\$ 999.00	\$ 799.00	Included	\$ 9,093.00	\$ 27,279.00	\$ 13,639.50
MSA 6000 Extreme	\$ 13,500.00	Included	Included	\$ 750.00	\$ 14,250.00	\$ 42,750.00	\$ 21,375.00

FLIR is a registered trademark of FLIR Systems, Inc.

Home / FLIR K53 Thermal Imaging Camera with FSX

# FLIR K53 Thermal Imaging Camera with FSX



FLIR now gives you two new lower-cost, easier-to-use options without sacrificing the reliable clarity and performance that FLIR K-Series TICs are well-known for.

On a budget? See the lower priced K33 Camera here.



\$5,095.00

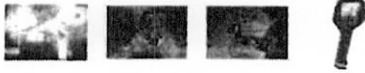
SKU: BN319

Qty: 1



This product qualifies for free shipping.

MORE VIEWS



2

Email to a Friend

Used this Product? Post a review and earn 10% off your next order!

## About This Product

### Announcing two new promotions for K Series Cameras from FLIR!

Promotion 1: K Series Trade in - trade in any current thermal imager towards a new K2 camera or truck charger.

1. Order a FLIR K Series Camera from Darley
2. Download and submit the [redemption form](#) directly to FLIR
3. Receive an RMA from FLIR and return your old camera
4. Receive a credit from FLIR for a new K2 Camera or Truck Charger

### Promotion 2: Gear Bag

1. Order a FLIR K Series Camera
2. Download and submit the [redemption form](#) directly to FLIR
3. Get a free fire gear bag

*Please note promotions cannot be combined. All forms submitted directly and rebates/gifts issued directly from FLIR. Gear bag promotion expires 3/31/17.*

FLIR now gives you a new lower-cost, easier-to-use option without sacrificing the reliable clarity and performance that FLIR K-Series TICs are well-known for. The K53 features FLIR's FSX™ Flexible Scene Enhancement that intensifies structural and textural details in thermal images for better perspective and orientation to help improve situational awareness and give firefighters a greater sense of confidence and safety.

Firepower Simplified

# Dinges Fire Company

243 East Main St.  
Amboy, IL 613.10  
8158572000

# Sales Quote

	Sales Quote#
3/6/2017	29840

Invoice/Bill To:
Belvidere Fire Dept 123 South State Street Belvidere, IL 61008

Ship To
Belvidere Fire Dept 123 S. State St. Belvidere, IL 61008

Customer PO#	Terms	Rep	Tax-Exempt Number
	Net 30	Tracy	E9998-8658-05

Qty	Part #	Description	Sales Price	Total
1	Bullard-ECLLDX...	<p>Bullard Eclipse LDx Bundle</p> <p>*Outstanding Performance with ICE (Image Contrast Enhancement) Technology *Super Bright LCD Display *Simple to Use *Rugged Design *Sleek Ergonomic Design *240 x 180 Resolution *Only 1.9 lbs</p> <p>Includes:</p> <p>*Powerhouse Truck Charger (DC) *AC Adapter *(2) Batteries *Retractable Lanyard *5 Year Warranty *Super Hot Colorization *Temperature Display</p> <p>Ala Carte Options:</p> <p>Electronic Thermal Throttle-\$999 Scene Catcher DVR-\$799 CareFREE 5-Year Battery Warranty-\$499 Ultra High Resolution-\$999</p>	7,295.00	7,295.00

FREE SHIPPING AND HANDLING	<b>Subtotal</b>
	<b>Sales Tax (0.0%)</b>
	<b>Total</b>

Enter keywords:

Go

FIRE EQUIPMENT

- SCENARIOS
- NEW RELEASES
- TECHNICAL MANUALS
- WORKSHOPS
- TRAINING COURSE
- NEWSLETTERS
- FAQS
- CONTACT
- DOWNLOADS
- WE SALES
- FIRST RESP.
- FAA
- TRAINERS
- MONITORS
- APPLICATIONS
- TESTERS
- SEARCH

Home > THERMAL IMAGING > MSA EVOLUTION 6000 XTREME TIC



Larger Photo Alternative Views:



EVOLUTION 6000 SERIES ONLINE SIMULATOR



Qty: 1

Add to Cart

Add to Wish List

Join our mailing list!

Join Now

Our Price: \$13,500.00

Product Code: MSA-TIC6000XTREME

Description Extended Information

MSA EVOLUTION 6000 XTREME TIC - NFPA

MSA introduces the EVOLUTION® 6000 TIC, a new NFPA-compliant platform to make TIC use easier, faster, lighter, and more intuitive. The EVOLUTION 6000 TIC offers many of the same benefits that firefighters have come to expect from MSA, as well as new ones to take user experience to another level. The new EVOLUTION 6000 TIC platform comprises three new models to offer the best mix of features, including NFPA 1801 compliance, to support the thermal imaging needs of all first responders. New and enhanced features include best-in-class image quality, light weight, laser pointer and range finder, compass, integrated video and picture capture and integrated wireless video transmission system. All EVOLUTION 6000 TIC models are built with high resolution 320x240 imaging cores. All cameras employ NFPA Basic startup mode to eliminate confusion when firefighters from different departments share tools.

Features

The Xtreme model provides the same standard and optional features as EVOLUTION 6000 Plus TIC Integrated picture and video capture save action to camera's internal hard drive Download pictures and video to your desktop Use pictures and video for training, after-action review and documentation

Related Products...

MSA EVOLUTION TIC 6000 SERIES TRUCK KIT Our Price: \$750.00



MSA EVOLUTION TIC 6000 SERIES STATION KIT Our Price: \$750.00



MSA EVOLUTION 6000 BASIC TIC Our Price: \$9,250.00



MSA EVOLUTION 6000 PLUS TIC Our Price: \$9,850.00





# Memo...

<b>From:</b>	Chief Hyser	<b>Today's Date:</b>	April 20, 2017
<b>To:</b>	City Clerk Arco	<b>Meeting Date:</b>	April 24, 2017
<b>Subject:</b>	Belvidere City Council: Agenda – Extrication Equipment		

The Belvidere Fire Department is looking to replace their front line extrication equipment. The present equipment is estimated to be over 25 years old.

New car metal technology has by far surpassed our existing extrication tools abilities to cut and spread these metals efficiently. Our concern is whether we can overcome these metals with our existing equipment. Incidents of disentanglement require these tools to work at their maximum capability which could make a difference in saving human lives.

Nic Thornton, our Extrication Coordinator, and Department members have researched and tested three (3) manufacturers of battery powered extrication tools (copies attached). Our recommendation is that we go with Hurst E-Draulics brand purchased through Air One Equipment, Inc. for the following reasons:

1. Overall performance numbers (see attached sheet) meet or exceed competing manufacturer's tools.



2. Consensus of B.F.D. personnel have chosen the Hurst brand during the testing and training of all three manufacturers tools.
3. Free yearly maintenance provided by Air One Equipment.
4. Hurst extrication equipment has been in existence for over 40 years. The E-Draulic line was one of the first battery extrication tools to be introduced; dating back to the mid 90's. E-Draulic is now in their second generation of production.

The total cost of the E-Draulic Tools is \$17,485.00. This expenditure will come out of fiscal year 2017 budgeted line item #01-5-220-8200.

*Chief Al Hyser*



## 2017 Battery Power Extrication Tool Demo



Spreader	Hurst	TNT	Genesis
	SP555E2	ESL-28	S45-SL
Cost	\$8,895.00	\$9,079.00	\$8,974.00
Lenth	39.4 in	36.75 in	36.4 in
Width	10.4 in	13.12 in	9.6 in
Height	11 in	8.5 in	9.5 in
Pressure	11,016 psi	10,500 psi	10,000 psi
Spread Dist.	28.7 in	28.2 in	23.6
Spread Force	76,000 lbs	32,150 lbs	38,250
Pull Force	13,039 lbs	26,800 lbs	**
Weight	44.1 lbs	44.5 lbs	40.4 lbs
NFPA Comp	Yes	Yes	Yes
Power Source	25.2V Hurst	28V Milwaukee	28V Milwaukee

Cutter	Hurst	TNT	Genesis
	S700E2	ESLC-29	C236
Cost	\$8,095.00	\$8,480.00	\$8,974.00
Lenth	36.2 in	35.75 in	38.7 in
Width	11.7 in	11..25 in	10.2 in
Height	10.3 in	8.50 in	9.4 in
Pressure	11,603 psi	10,500 psi	10,000 psi
Blade Opening	7.6 in	8.0 in	7.9 in
Cut Force	*	269,000 lbs	236,000 lbs
Weight	49.4 lbs	49.8 lbs	51.8 lbs
NFPA Comp	Yes	Yes	Yes
Power Source	25.2V Hurst	28V Milwaukee	28V Milwaukee

Accessories	Hurst	TNT	Genesis
110V Adaptor	\$495.00	\$750.00	\$695.00
Battery Cost	\$475.00	\$250	\$175.00
Cutter Insert	N/A	N/A	\$800.00



**AIR ONE  
EQUIPMENT, INC.**

**Air One Equipment, Inc.**  
360 Production Drive, South Elgin IL 60177  
Telephone: (847) 289-9000  
Fax: (847) 289-9001

**Quotation**

**TO: BELVIDERE FIRE DEPARTMENT  
123 SOUTH STATE STREET  
BELVIDERE, IL 61008**

**Date: 4/17/17**

**ATTN:**

**REF: HURST**

We are pleased to submit the following quotation in accordance with your request and subject to the Terms and Conditions listed below.

<b>Qty</b>	<b>Part Number</b>	<b>Description</b>	<b>Each</b>	<b>Extended</b>
1	272085000	HURST S700E2 eDRAULIC 2.0 CUTTER PACKAGE. PACKAGE INCLUDES: (1) S700E2 CUTTER, (2) BATTERIES AND (1) BATTERY CHARGER	\$8,095.00	<b>\$8,095.00</b>
1	271555000	HURST SP555E2 eDRAULIC 2.0 SPREADER PACKAGE. PACKAGE INCLUDES: (1) SP555E2 SPREADER, (2) BATTERIES AND (1) BATTERY CHARGER	\$8,895.00	<b>\$8,895.00</b>
1	272085412	HURST POWER SUPPLY ADAPTER FOR eDRAULIC TOOLS	\$495.00	<b>\$495.00</b>

<b>Total</b>		<b>\$17,485.00</b>
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By: \_\_\_\_\_  
Air One Equipment, Inc.



Dinges Fire Company  
 243 East Main St.  
 Amboy, IL 613.10

www.DingesFire.com

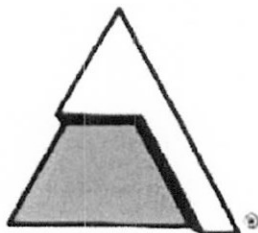
# Sales Quote

Date	Sales Quote #
4/17/2017	30185

Name / Address
Belvidere Fire Dept 123 South State Street Belvidere, IL 61008

FORMERLY KNOWN AS ILLINOIS FIRE STORE		P.O. No.	Terms	Rep	Tax Exempt Number
			Net 30	Tracy	E9998-8658-05
Qty	Item	Description		Sale Price	Total
1	Genesis-Misc	Genesis Battery Tool- ART.107.526.3 S45-SL Spreader eForce 2.0 (24") opening Includes: 5.0 amp hour Lithium Ion battery & 1-Spare 5.0 Lithium Ion Battery & Charger UPGRADE TO THE S53XL 32" SPREADER, ADD: \$875.00		8,278.00	8,278.00
1	Genesis-Misc	Genesis Battery Tool- ART.107.526.4 C236 Cutter eForce 2.0 Includes: 5.0 amp hour Lithium Ion battery & 1- Spare 5.0 Lithium Ion Battery & Charger  Available by Genesis Only, this saves damage to the main cutting blades. Upgrade to: NXTgen Replaceable Blade Inserts ADD: \$500.00		8,123.00	8,123.00
1	Genesis-Misc	New Genesis AC Adapter for the E-Force Tools 110 volt ART.106.042.6		595.00	595.00
1	Genesis-Misc	FS2214 Beluga Glass Cutting Tool (uses Milwaukee M28 Drill) ***FREE***		0.00	0.00
1	Genesis-Misc	Milwaukee M28 HD Sawzall- ***FREE with purchase of Tools***		0.00	0.00
Shipping and handling not included in quoted price. Thank you for the opportunity!				<b>Total</b>	\$16,996.00

**Quote**



ALEXIS FIRE EQUIPMENT CO.  
 109 EAST BROADWAY  
 ALEXIS, IL 61412  
 3094826121

Order Number: 0039147  
 Order Date: 12/27/2016

Salesperson: JREQ  
 Customer Number: BE30

**Sold To:**  
 BELVIDERE FIRE DEPARTMENT  
 123 SOUTH STATE STREET  
 BELVIDERE, IL 61008  
**Confirm To:**

**Ship To:**  
 BELVIDERE FIRE DEPARTMENT  
 123 SOUTH STATE STREET  
 BELVIDERE, IL 61008

Customer P.O.	Ship VIA	F.O.B.	<b>All quotes expire within 90 days. Shipping will be extra.</b>		
Item Code	Unit	Ordered	Price	Amount	
ESLC-29 M28 VOLT 7-3/8IN C-CUTTER	EACH	1.00	8,480.00	8,480.00	Whse: 020
/EQ - NONTAX Non-Taxable Equipment TNT item # ESL-28, M28 Volt 28 Inch Super Light Spreader	EACH	1.00	9,079.00	9,079.00	
/EQ - NONTAX Non-Taxable Equipment TNT item # ESTLS-40, Telescoping Electric Ram	EACH	1.00	6,391.00	6,391.00	
/EQ - NONTAX Non-Taxable Equipment TNT item 110 Converter	EACH	1.00	750.00	750.00	

**THIS QUOTE IS GOOD FOR 90 DAYS  
 SHIPPING COSTS ARE ADDITIONAL**

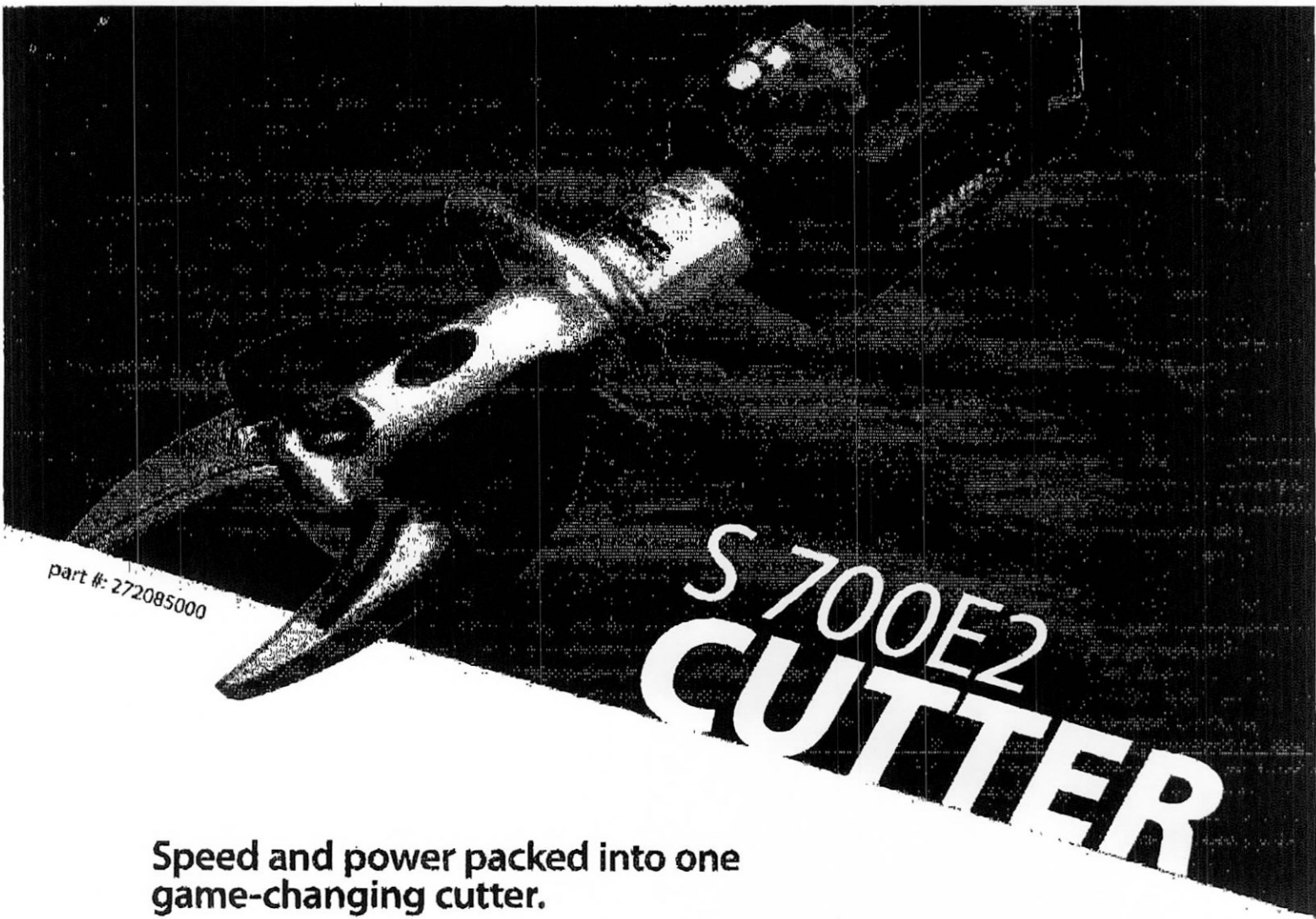
Net Order: 24,700.00

Sales Tax: 0.00

**Order Total: 24,700.00**

 **HURST**  
**JAWS OF LIFE**

**EDraullic**<sup>TM</sup>  
**BY  HURST JAWS OF LIFE**<sup>®</sup>



part #: 272085000

# S 700E2 CUTTER

## Speed and power packed into one game-changing cutter.

Six pounds lighter than its predecessor, and just as powerful, the S 700E2 is light years ahead of anything the competition has to date. This battery-powered cutter performs heroic rescues without hoses or a power unit. It's designed to take on current as well as future vehicle construction. Plus, it has 77% more cutting force where you need it.

### Features and Benefits:

- Highest cutting performance in the relevant work area
- Unique blade geometry with three distinct cutting angles
- Built for the high-strength steel of today and tomorrow's vehicles
- Ergonomically designed star-grip permits tool actuation from almost any gripping position
- Each tool comes with two batteries and one charger
- If needed, you can plug it in for limitless power with the eDRAULIC™ 110v adaptor

### Technical Specifications:

- Length: 36.2 in / 920 mm
- Width: 11.7 in / 296 mm
- Height: 10.3 in / 262 mm
- Weight: 49.4 lbs / 22.4 kg
- Cutter Opening: 7.6 in / 192 mm
- NFPA Cutter Rating: A8/B9/C8/D9/E9
- NFPA 1936 2015 Compliant: Yes
- IP Rating: IP54



# SP 555E2 SPREADER

part #: 271555000

**The spreader that weighs less  
but gives you so much more.**

Our new eDRAULIC® spreader is 16% lighter and still gives you 14% more power than its predecessor. You can get the job done and make the rescue quicker than ever. Its "Shark Tooth" removable tips have four rows of shark-like teeth to bite and hold onto any material. Add that to its LI-Ion never-say-die battery and you know you've got the right power and speed for any job.

#### Features and Benefits:

- Enhanced performance -- 16% lighter and has 14% more power than its predecessor
- Squeezing plates built into the arms
- "Shark Tooth" removable tips offer multifunctional design, with four rows of shark-like teeth for maximum performance and gripping
- Each tool comes with two LI-Ion rechargeable batteries and one charger
- If needed, you can plug it in for unstoppable power with a 110v adaptor



#### Technical Specifications:

- Length: 39.4 in / 1,002 mm
- Width: 10.4 in / 263 mm
- Height: 11 in / 280 mm
- Weight: 44.1 lbs / 20 kg
- Spreading Distance: 26.7 in / 730 mm
- Max Spread Force: 147,924 lbs / 658 kN
- Max Pulling Force: 13,039 lbs / 58 kN
- NFPA HSF: 16,186 lbs / 72 kN
- NFPA LSF: 11,016 lbs / 49 kN
- NFPA HPF: 10,341 lbs / 46 kN
- NFPA LPF: 8,295 lbs / 28 kN
- NFPA 1936 2015 Compliant: Yes
- IP Rating: IP54



# Memo

**To:** Mayor and City Council  
**From:** Brent Anderson, Director of Public Works  
**Date:** 4/17/2017  
**Re:** Fremont Street Lift Station – New Standby Generator

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The current budget includes \$100,000 for the installation of two standby generators at our Sanitary Sewer Lift Stations. The generator at Newburg #1 lift station was completed for less than \$20,000 due to the relocation of the generator from former Well #6.

We have received the following proposals for a 40kW generator, including an automatic transfer switch, for the Fremont Street lift station:

- |  |                    |
|--|--------------------|
| 1. Steiner Power Systems<br>1275 Touhy Avenue<br>Elk Grove Village, IL 60007 | \$17,450.00        |
| 2. Zonatherm Products, Inc<br>251 Holbrook Drive<br>Wheeling, IL 60090       | \$22,968.00        |
| 3. Cummins Sales & Service<br>7145 Santa Fe Drive<br>Hodgkins, IL 60525      | \$23,120.00        |
| 4. Rush Power Systems<br>1981 Belford North Drive<br>Belvidere, IL 61008     | \$23,187.00        |
| 5. Patten Power Systems<br>615 W Lake St<br>Elmhurst, IL 60126               | \$29,658.00 (50kw) |

I would recommend approval of the proposal from Steiner Power Systems for a 40kW generator, in the amount of \$17,450.00, for the 4<sup>th</sup> Street Sanitary Sewer Lift Station. This equipment will be paid for from the Sewer Depreciation Fund.

The concrete pad, electrical connections and gas piping will be completed in-house or by local contractors.

# Memo

**To:** Mayor and City Council  
**From:** Brent Anderson, Director of Public Works  
**Date:** 4/17/2017  
**Re:** Farmington Ponds 2017 Maintenance Agreement

Attached is the proposal from Lakeland Biologists for the 2017 maintenance of the Farmington Ponds.

The following is a comparison of costs from previous agreements:

<b>Item</b>	<b>2014 Cost</b>	<b>2015 Cost</b>	<b>2016 Cost</b>	<b>2017 Cost</b>
1. Inspection, Cleanup & Litter Removal	\$110.00ea	\$110.00ea	\$110.00	\$110.00
2. Chemical Treatment	\$250.00ea	\$260.00ea	\$265.00	\$265.00
3. Chemicals				
Aquathol	\$125.00/gal	\$153.00/gal	\$130.00/gal	\$132.00/gal
Cutrine Ultra	\$58.00/gal	\$58.00/gal	\$60.00/gal	\$60.00/gal
Reward	\$175.00/gal	\$190.00/gal	\$175.00/gal	\$175.00/gal
Navigate	\$4.20/lb	\$4.20/lb	\$4.40/lb	\$4.45/lb
Enzymes	\$80.00/gal	\$80.00/gal	\$80.00/gal	\$80.00/gal
Dye	\$45.00/qt	\$45.00/qt	\$48.00/qt	\$48.00/qt
DMA-4				\$33.00/gal
4. Mileage (per trip)	\$45.00/ea	\$45.00/ea	\$50.00/ea	\$50.00/ea
5. Total Cost	\$9,915.74	\$12,471.97	\$17,226.36	\$15,000.00

I would recommend entering into an agreement with Lakeland Biologists for the 2017 Farmington Ponds Maintenance Program at an estimated cost of \$15,000.00, based on their proposal dated April 7, 2017. This work will be paid for from the Farmington Ponds Special Service Area. The maintenance budget for the Farmington Ponds is \$17,000.00.