

August 8, 2005

TO: John Szerlag, City Manager

FROM: John M. Lamerato, Assistant City Manager Finance/Administration
Jeanette Bennett, Purchasing Director
Gert Paraskevin, IT Director
William S. Nelson, Fire Chief

SUBJECT: **Agenda Item** - Standard Purchasing Resolution 6: Grant Approval
And Authorization To Expend City Funds - Safer Star Software and
Associated Equipment

RECOMMENDATION

City management recommends that the Troy City Council approve the use of funds received from a Homeland Security Critical Infrastructure Grant through the State of Michigan and authorizes the purchase of Safer Star Software from Safer Systems, LLC, of Camarillo, CA, the sole provider of this proprietary software, for an estimated cost of \$300,000.00.

BACKGROUND

The City of Troy has received a Homeland Security Critical Infrastructure Grant from the State of Michigan for \$300,000 to purchase Safer Star Project Software and associated equipment. This software, which will be used by the Special Response Unit, integrates air monitoring sensors, meteorological sensors, and GIS data to provide real-time plume modeling for chemical releases. This software and hardware is in use by every major railroad in the United States and Canada and is also used by many petrochemical facilities.

Safer Systems is the only vendor that has a real-time application capable of integrating the monitoring instrument data, meteorological data, and GIS data to provide multiple modeling modes for chemical releases.

This is a 100% state funded project with no local match. Troy has been selected as the first regional Response Team in the state to implement this capability.

BUDGET

The resolution amends the Fire department budget to receive the grant funding and allows it to be expended on the designated items.

MICHIGAN STAR

Quote: **BG4179R2 (4 Met Stations)**

SAFER Systems, LLC.

5141 Verdugo Way, Suite B
Camarillo, CA 93012, USA

Toll Free (USA): 800-621-7237 Tel: 805-383-9711

Email: sales@safersystem.com Fax: 805-383-6344

Name: William S. Nelson
Company: City of Troy Fire Department
Address: 500 West Big Beaver Rd.
Troy, MI 48084-5254
Tel: 248-524-3419

Question? Please Call

Bob Gerow
1-800-621-7237 ext143

Date: **July 25, 2005**

Quote Expires: **August 30, 2005**

SAFER STAR PRIMARY and CLIENT LICENSE

SAFER REF #	Description	Qty	Unit Cost	Total
STAR-DIS-1	SAFER STAR Dispersion Model Basic Package: STAR-610: Evaporation and Dispersion Model STAR-611: Fire & Explosion Model STAR-621: Tank & Pipe Model STAR-622: Back Calculation Model STAR-623: Multi-component Evaporation Model STAR-631: Hydrogen Fluoride Model STAR-651: Infiltration Model STAR-671: Data Acquisition Server STAR-673: Meteorological Monitor STAR-675: Quick Response STAR-641: Complex Terrain Dispersion Model STAR-643: Generation Windfield in Complex Terrain	1	\$95,000	\$95,000
STAR-DIS-C1	Client License - for running identical copy of software at a remote location for back-up and support purposes. Remote or additional systems require their own met station. PLEASE NOTE: This is also the cost of client copies for deployment to additional Departments and Municipalities in Michigan to collect and share met data and conduct plume dispersion and consequence analysis. The flexibility to share data and use it on-line is available when the client has access to a state government TCP-IP intranet and they purchase a license copy of the software and met tower for their use. Alternately, data can also be obtained from existing air monitoring networks given the implementation of the proper information exchange protocols. Please contact SAFER Systems L.L.C. for additional information and costs related to custom connectivity and communication protocols.	1	\$14,250	\$14,250
			SUB-TOTAL	\$109,250

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ANNUAL SOFTWARE SUPPORT, LICENSING & UPGRADES

NOTE: As requested, SAFER Systems LLC will provide 7 years of software support, licensing and upgrades for the discounted cost of our 5 year program. This includes the 20% discount from the regular 5 yr support program cost and an additional 2 years of support for a total of 7 years of coverage. Support will be invoiced in a single lump sum with the software upon receipt of the purchase order.

SAFER REF #	Description	Qty	Unit Cost	Total
RDS-SPT-1	Annual Software Support for Years 1-5 (5 Years Total) (20% of software list price)	5	\$21,850 Per Year	\$109,250
DISCOUNT-1	20% Discount Per Year for 5 Year Commitment	5	(\$4,370) Per Year	(\$21,850)
DISCOUNT-2	Two (2) additional years of software support and upgrade in recognition for the 5 yr lump sum payment.	2	Incl.	Incl.
Lump sum payment for 7 years of Software Support and Upgrades				\$87,400

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ENGINEERING SERVICES & DATA

SAFER REF #	Description	Qty	Unit Cost	Total
SRV-641	CUSTOM GIS DATA INTEGRATION FOR MICHIGAN – Client will provide ESRI based *.shp files for use in SAFER STAR. Customer to provide all initial map information in ESRI SHP file format. Customer to provide all receptor information (locations of concern like schools, churches, hospitals, day-care centers etc.) SAFER to interpret, integrate and test data in system. Budget 3 days for state map data integration.	3	1,250	\$3,750
STAR-644	PRIMARY AND CLIENT USER LICENSE – TOPOGRAPHICAL TERRAIN DATA FOR THE STATE OF MICHIGAN – Formatted and processed for use in SAFER STAR.	1	\$6,210	\$6,210
SFT-633	SCENARIO DEVELOPMENT- Development of 50 pre-defined, custom scenarios	50	\$110	\$5,500
STAR-TRN-1	SAFER STAR TRAINING Initial 3-day licensee training to be conducted at customer provided location in Michigan (includes travel and hotel expenses). Customer to provide suitable workstations for students for the duration of training session.	1	\$6,500	\$6,500
STAR-SRV-650	Annual Training Support Program		TBD	
STAR-SRV-651	Annual Met Audit Support Program		TBD	
SUB-TOTAL				\$21,960

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METEOROLOGICAL HARDWARE

SAFER REF #	Description	Qty	Unit Cost	Total
SWP-S1517	SAFER WEATHERPAK 2000 - RAE Radio Telemetry	4	\$18,012	\$72,048
S1030	WEATHERPAK®-2000 - ZENO 3200 Data Logger with 32-bit microprocessor, A/D circuitry, signal conditioning, transient protection, heavy-duty mil-spec waterproof housing, 256KB data storage, ZENOSOFT Operating Software, METEXPERT Self-diagnostic programming.			
S1510W	Sensor - Wind Monitor, Ultrasonic "No-Moving-Parts", 0-134 Mph			
S1085W	Sensor - Compass - built-in, electronic fluxgate. Automatically finds true north to determine wind direction. Recommended for portable use.			
S1276W	Sensor - Relative Humidity and Air Temperature - Accuracy - AT +/- 0.4° C, RH +/-2%			
S1114Z	Sensor - Removable Solar Radiation Sensor Shortwave, 5%			
S1010	Custom Mounting Arm - for Solar Radiation Sensor w/mil Spec connector.			
S0511	Additional Junction Box Terminal for Solar sensor.			
S1064W	Radio Transmitter - integrated 900MHz RAE Systems radio modem			
S1521W	Power Supply - Outdoors Rated, 110VAC, 12 VDC			
S1522W	Cable - Custom, Power cable, Includes Mil-Spec connectors and "pig-tail" connector for user supplied battery and "pig-tail" for A/C power supply.			
S1519W	Tower/Tripod - Heavy-duty aluminum, 3 meter, junction box, quick release and 9 D-cell batteries.			
ABSNPN	ABS Carry Case: Hard-Sided Triangular Case With Custom Cut Foam Inserts.			
SUB-TOTAL				\$72,048

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Available Met System Options

SAFER REF #	DESCRIPTION	Unit Cost
S1336	<u>POWER OPTION</u> – Sealed Lead Acid Gel Cell, 12VDC, 38AH with mount	\$265

HARDWARE NOTES:

This is a fully integrated and self contained, portable solution with various power supply options. The client is responsible for radio licensing and any custom communication, power, tower deployment and anchoring configurations.

SYSTEM CPU (Primary & Client Systems)

SAFER REF #	Description	Qty	Unit Cost	Total
STAR-PC	<u>Notebook Computer</u> – Pentium 4 @ 2.8 GHz, 512MB RAM, 80 GB HD, CD / DVD Burner, Extra Battery, MS Win XP Pro, MS Office Pro, Norton Anti Virus, Nylon Carry Case, configured and set up for wireless data monitoring from RAE Systems RAELink and WeatherPak systems.	2	\$3,300	\$6,600
TOTAL				\$6,600

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QUOTATION SUMMARY

Software for Primary and Client / Back Up SAFER STAR License	\$109,250
**7 years of Annual Software Support & Licensing	\$87,400
Engineering Services and data purchase: Customer GIS Data Implementation, Digital Elevation Model Data, Pre-Defined Scenario Development, User Training	\$21,960
Meteorological Hardware (portable wireless met stations)	\$72,048
CPU - Laptops for running Primary and Client / Back Up systems	\$6,600
TOTAL	\$297,258

**PLEASE NOTE:

SAFER Systems LLC will provide 7 years of software support, licensing and upgrades for the discounted cost of our 5 year program with the customers' upfront support program payment. This includes the 20% discount from the regular 5 yr support program cost and an additional 2 years of support for a total of 7 years of coverage. Support will be invoiced in a single lump sum with the software upon receipt of the purchase order.

Purchase of SAFER Software is subject to Terms and Conditions of SAFER Software License and Support Agreement

Notes:

1. Prices quoted are in U. S. Dollars and exclude taxes, VAT, import duties, freight or any other miscellaneous charges.
2. Software support for this proposal is included in for a period of 7 years from the date of installation and training.
3. Software support fee will be adjusted if any optional software modules or clients are purchased.
4. The cost of future purchases will be based on the then retail prices.
5. Payment terms are net 30 on approved accounts for all U.S. orders and L/C for international orders.
6. Payment terms for software support, hardware, training and services are net 30 days.