

**MOUNTAIN IRON CITY COUNCIL MEETING  
COMMUNITY CENTER  
MOUNTAIN IRON ROOM  
MONDAY, FEBRUARY 2, 2015 - 6:30 P.M.  
A G E N D A**

- I. Roll Call
- II. Consent Agenda
  - A. January 20, 2015, Regular Meeting (#1-15)
  - B. Receipts
  - C. Bills and Payroll
  - D. Communications (#44-48)
- III. Public Forum
- IV. Committee and Staff Reports
  - A. Mayor's Report
  - B. City Administrator's Report
    - 1. GASB 45 Actuarial Report Update (OPEB) (#16-17)
  - C. Director of Public Work's Report
  - D. Library Director/Special Events Coordinator's Report
  - E. Sheriff's Department Report
    - 1. Monthly Statistics (#18)
  - F. City Engineer's Report
  - G. Public Health and Safety Board
    - 1. Squad Car Purchase (#19-20)
    - 2. Fire Department Officer Selection (#21)
    - 3. Advertisement for Firefighters/EMT (#21)
  - H. Building and Grounds Committee
    - 1. Generator Quotes (#22-43)
  - I. Liaison Reports
- V. Unfinished Business
- VI. New Business
  - A. Reschedule Next Meeting due to Presidents Day Holiday
- VII. Communications (#44-48)
- VIII. Announcements
- IX. Adjourn

# Page Number in Packet

MINUTES  
MOUNTAIN IRON CITY COUNCIL  
JANUARY 20, 2015

Mayor Skalko called the City Council meeting to order at 6:32 p.m. with the following members present: Joe Prebeg, Jr., Susan Tuomela, Tony Zupancich, Alan Stanaway, and Mayor Gary Skalko. Also present were: Craig J. Wainio, City Administrator; Jill M. Clark, Municipal Services Secretary; Michael Downs, Director of Public Works; John Backman, Sergeant; Greg Chad, Fire Chief; and Bryan Lindsay, City Attorney.

It was moved by Skalko and seconded by Tuomela that the consent agenda be approved as follows:

1. Approve the minutes of the January 5, 2015, regular meeting as submitted.
2. That the communications be accepted and placed on file and those requiring further action by the City Council be acted upon during their proper sequence on the agenda.
3. To acknowledge the receipts for the period January 1-15, 2015 totaling \$203,515.07, (a list is attached and made a part of these minutes).
4. To authorize the payments of the bills and payroll for the period January 1-15, 2015, totaling \$1,063,872.39, (a list is attached and made a part of these minutes).

The motion carried unanimously on a roll call vote.

No one spoke during the public forum.

The Mayor reported on the following:

- Condolences: To the family of James Dosch and Sister Madeleva Schur.

The Mayor gave his "State of the City" address. The following is a summary:

1. The City is in excellent financial condition.
  - a. Reserves are solid.
  - b. There has been no tax levy increase in the past five years.
2. New Housing Development.
  - a. Unity Second Addition. Three more houses have been constructed there for a total of 17 since 2008. The annual tax base of those 17 homes is \$5 million.
  - b. South Forest Grove, an EDA Development. Two more lots were sold in 2014 and one home was built for total of five homes constructed.
3. Miscellaneous Information:
  - a. New City Projects completed in 2014:
    1. Fairview Lane. Overlay was completed.
    2. Tennis Courts. Courts were resurfaced.
    3. Downtown Mountain Iron. Curbs and sidewalks were replaced by the Library and Post Office.
4. 2015 City Projects:
  - a. County Road 102. Part of the reconstruction work was completed in 2014 and the

- final wear coat would be placed in 2015 and the road would be opened in the Spring or Summer of 2015. The road was paid for by U.S. Steel Corporation and their new entrance would be off of this road.
- b. Streets. There will be a partial reconstruction of Mountain Iron Drive, from the railroad tracks to Highway 53.
5. Economic Development Authority Projects completed in 2014:
    - a. Wal-Mart. The store opened in the summer of 2014, providing over 200 jobs and it increased the City's tax base by \$13 million.
    - b. Any-Time Fitness. The new business began construction in 2014 next to the AmericInn and should be open in the Spring of 2015.
  6. Economic Development Authority Projects in 2015:
    - b. A T & T. They will be constructing a new service center in Rock Ridge Development. Construction should begin in the Spring.
    - c. Town Houses. The EDA purchased land from Calvary Cemetery Association on County Road 7 to construct town homes.
  7. Green Renewable Energy. The City is moving towards long term involvement in green renewable energy with the following projects:
    - a. Construction of the Renewable Energy Park with a \$500,000 grant from the State of Minnesota in 2006.
    - b. Laurentian Energy Authority, the woodyard plant, was constructed in 2006.
    - c. The Wind Farm was constructed in 2008 with partners Minnesota Power and United States Steel.
    - d. The Economic Development Authority worked with the IRRRB to construct Silicon Energy, a solar power plant.
    - e. In 2012 the City installed 30 solar panels at the Community Center through a \$100,000 grant from the IRRRB.
    - f. The City was recognized in 2012 as a Greenstep City, the second City in the State to be recognized.
  8. Conclusion: The Mayor said the City would be celebrating their 125<sup>th</sup> Anniversary on August 3-8, 2015, the same time as the Merritt Celebration, and they are looking for additional Committee Members to assist with the celebration. He also felt that he was speaking for the entire Council saying the City continues to move forward in a positive direction. He said that even though we are a smaller City, in population, but we like to think big, outside of that box and hope to continue to make our City a better place to live and work.

It was moved by Skalko and seconded by Tuomela to appoint Larry Sokoloski to the Cable Commission as the School Board Representative with the term expiring on 12/31/2016. The motion carried.

The Mayor requested that the City Administrator send a letter to Chuck Bainter thanking him for his service on the Cable Commission.

It was moved by Zupancich and seconded by Tuomela to authorize the payoff of the United States Department of Agriculture loan in the amount of \$245,858.34. The motion carried unanimously on a roll call vote.

It was moved by Prebeg and supported by Tuomela to authorize the Municipal Services Secretary to attend the Minnesota Municipal Clerks Association Annual Conference in Red Wing, Minnesota from March 17-20, 2015, at a cost not to exceed \$817.50. The motion carried on a roll call vote.

The City Administrator reported that the Saint Louis County Community Development Grant Advisory Board had recommended approval of the \$50,000 grant application from the City of Mountain Iron for the Downtown Storm Sewer Project and he thanked the CDBG Board for all their hard work.

The Director of Public Works advised the Council that the City had authorized residents to contact the City if they would like to trickle their water because the frost level is down to 61 inches.

It was moved by Prebeg and seconded by Zupancich to contribute \$300 to the Saint Louis County Agricultural Fair Association with the funds expended from the Charitable Gambling Fund. It was moved by Prebeg and seconded by Zupancich to amend the motion and add a request to the neighboring towns to match the funds contributed by the City of Mountain Iron. The amended motion carried unanimously on a roll call vote.

It was moved by Prebeg and seconded by Stanaway to allow City Staff to prepare plans and specifications for the Mud Lake Road Force Main Project. The motion carried.

It was moved by Zupancich and seconded by Prebeg to authorize Staff to prepare the plans and specifications for the Storm Sewer Interceptor between Main Street and Agate Street with funding for the project from IRRRB for \$60,000, CDBG for \$50,000 and the City of Mountain Iron for \$60,000. The motion carried.

It was moved by Prebeg and seconded by Stanaway to accept the letter of retirement received from Don Niska for working over 37 years with the City, with an effective date of January 26, 2015 and forward the appropriate retirement package to Mr. Niska. The motion carried.

It was moved by Zupancich and seconded by Tuomela to authorize the contract with the Arrowhead Regional Development Commission to update the City's Comprehensive Plan, (a copy is attached and made a part of these minutes). The motion carried unanimously on a roll call vote.

It was moved by Zupancich and seconded by Tuomela to adopt Resolution Number 01-15, Bank Authorization, (a copy is attached and made a part of these minutes). The motion carried.

It was moved by Prebeg and seconded by Stanaway to authorize a contribution of \$200 to the Mountain Iron-Buhl Class of 2015 All Night Graduation Party, and if they utilize the Community Center building for their event to contribute an additional \$300, with the funds expended from the Charitable Gambling Fund. The motion carried unanimously on a roll call vote.

At 7:04 p.m., it was moved by Zupancich and seconded by Prebeg to recess the regular meeting and go into a closed session under MN Statute 13.05D, subdivision 3 (a) for performance evaluations concerning the management employees, following a brief recess. The motion carried.

At 7:13 p.m., the Mayor called the closed meeting to order with the following members present: Joe Prebeg, Jr., Susan Tuomela, Tony Zupancich, Alan Stanaway, and Mayor Gary Skalko. Also present was: Bryan Lindsay, City Attorney.

The Mayor stated that the purpose of the closed meeting was to discuss performance evaluations of the City Administrator, the Director of Public Works, and the Librarian/Special Events Coordinator.

At 7:37 p.m., it was moved by Zupancich and seconded by Prebeg that the closed meeting be adjourned and to reconvene the regular meeting. The motion carried.

At 7:39 p.m., Mayor Skalko called the regular City Council meeting to order with the following members present: Joe Prebeg, Jr., Susan Tuomela, Alan Stanaway, Tony Zupancich, and Mayor Gary Skalko.

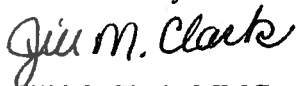
It was moved by Zupancich and seconded by Prebeg based on the performance evaluations of the Management Staff the following wage increases would be effective January 1, 2015:

City Administrator	2.5%
Director of Public Works	2%
Librarian/Special Events Coordinator	2%

The motion carried.

At 7:40 p.m., it was moved by Skalko and seconded by Tuomela that the meeting be adjourned. The motion carried.

Submitted by:



Jill M. Clark, MMC  
Municipal Services Secretary

[www.mtniron.com](http://www.mtniron.com)

## COMMUNICATIONS

1. Saint Louis County, forwarding proposed revisions to the Saint Louis County Zoning Regulations.
2. Mountain Iron-Buhl Class of 2015, requesting a contribution for their All-Night Graduation Party.

## Summary By Category And Distribution

Category	Distribution	Amount
UTILITY	UTILITY	170,911.49
METER DEPOSITS	ELECTRIC	2,450.00
CHARGE FOR SERVICES	WATER-CHARGE FOR SERVICES	183.28
MISCELLANEOUS	BLUE CROSS/BLUE SHIELD PAYABLE	315.82
LICENSES	ANIMAL	55.00
MISCELLANEOUS	REIMBURSEMENTS	15,924.08
SALE OF PROPERTY	SALE OF PROPERTY-GENERAL FUND	4,571.28
BUILDING RENTALS	BUILDING RENTAL DEPOSITS	900.00
BUILDING RENTALS	COMMUNITY CENTER	300.00
LEASES	LEASES	2,857.39
CD INTEREST	CD INTEREST 101	542.85
CD INTEREST	CD INTEREST 378	608.65
CD INTEREST	CD INTEREST 602	230.30
CD INTEREST	CD INTEREST 603	82.25
CD INTEREST	CD INTEREST 604	180.95
MISCELLANEOUS	MISC. - GENERAL	610.00
MISCELLANEOUS	CHARITABLE GAMBLING PROCEEDS	815.01
SPECIAL ASSESSMENTS	SPECIAL ASSESS.-BOND MONEY	1,021.51
SPECIAL ASSESSMENTS	INTEREST-SP.ASSESS.-BONDS ISSU	326.89
MISCELLANEOUS	REIMB PHONE EXPENSE-ELEC	12.39
FINES	CRIMINAL	562.18
COPIES	COPIES	3.75
BUILDING RENTALS	SENIOR CENTER	50.00
Summary Totals:		<u>203,515.07</u>

Per	Date	Check No	Vendor No	Payee	Check GL Acct	Amount
01/15	01/14/2015	146396	130011	UNITED STATES POSTAL SERVICE	602-20200	398.93
01/15	01/21/2015	146397	10056	A T & T MOBILITY	101-20200	1,361.91
01/15	01/21/2015	146398	131	ADAM PROWTY	604-20200	128.08
01/15	01/21/2015	146399	127	AULTMAN DEVELOPMENT	101-20200	200.00
01/15	01/21/2015	146400	20022	BENCHMARK ENGINEERING INC	301-20200	16,910.50
01/15	01/21/2015	146401	20040	BRAUN INTERTEC CORPORATION	301-20200	900.90
01/15	01/21/2015	146402	30084	CARDMEMBER SERVICE	603-20200	5,568.60
01/15	01/21/2015	146403	129	CARLA CLARK	604-20200	206.52
01/15	01/21/2015	146404	170001	CENTURY LINK	101-20200	109.97
01/15	01/21/2015	146405	130	CHAMPAGNE SCHALLERT	604-20200	199.33
01/15	01/21/2015	146406	220003	CITY OF VIRGINIA	101-20200	72.70
01/15	01/21/2015	146407	50049	ESSENTIA HEALTH	101-20200	100.00
01/15	01/21/2015	146408	126	FIRST CHILDREN'S FINANCE	101-20200	200.00
01/15	01/21/2015	146409	70007	GOVERNMENT TRAINING SERVICE	101-20200	220.00
01/15	01/21/2015	146410	80032	HARTIKKA, TERRY	101-20200	14,500.00
01/15	01/21/2015	146411	80022	HAWKINS INC	601-20200	330.70
01/15	01/21/2015	146412	80001	HILLYARD/HUTCHINSON	101-20200	11.73
01/15	01/21/2015	146413	128	HOLY SPIRIT CATHOLIC CHURCH	101-20200	300.00
01/15	01/21/2015	146414	80037	HOMETOWN MEDIA PARTNERS	603-20200	88.50
01/15	01/21/2015	146415	210	JANET SKINNER	101-20200	250.00
01/15	01/21/2015	146416	110013	JERRY D KUJALA	101-20200	994.00
01/15	01/21/2015	146417	100027	JK MECHANICAL CONTRACTORS INC	101-20200	138.00
01/15	01/21/2015	146418		Information Only Check	101-20200	.00 V
01/15	01/21/2015	146419	120006	L & M SUPPLY	101-20200	1,435.21
01/15	01/21/2015	146420	130004	MESABI DAILY NEWS	604-20200	226.25
01/15	01/21/2015	146421	120	MESABI WIRELESS ASSOCIATION	101-20200	100.00
01/15	01/21/2015	146422	130038	MIB ALL NIGHT CHEM FREE PARTY	230-20200	200.00
01/15	01/21/2015	146423	6036	MIB ALL NIGHT GRAD PARTY	230-20200	300.00
01/15	01/21/2015	146424	140026	MINNESOTA ENERGY RESOURCES	602-20200	698.24
01/15	01/21/2015	146425	130082	MINNESOTA MAYORS ASSOCIATION	101-20200	30.00
01/15	01/21/2015	146426	130008	MINNESOTA MUNICIPAL UTILITIES	101-20200	6,040.50
01/15	01/21/2015	146427	130009	MINNESOTA POWER (ALLETE INC)	604-20200	90,722.12
01/15	01/21/2015	146428	130010	MINNESOTA UC FUND	101-20200	824.00
01/15	01/21/2015	146429	130086	MN RURAL WATER ASSOCIATION	601-20200	225.00
01/15	01/21/2015	146430	130179	MOTOROLA SOLUTIONS INC	101-20200	3,910.50
01/15	01/21/2015	146431	130015	MOUNTAIN IRON PUBLIC UTILITIES	101-20200	16,006.16
01/15	01/21/2015	146432	140052	NORTHEAST SERVICE COOPERATIVE	101-20200	51,695.52
01/15	01/21/2015	146433	140055	NORTHERN VISUAL SERVICES LLP	101-20200	146.00
01/15	01/21/2015	146434	140056	NORTHLAND TRUST SERVICES INC	378-20200	317,733.75
01/15	01/21/2015	146435	180004	RANGE COOPERATIVES	604-20200	19.24
01/15	01/21/2015	146436	180009	RANGE RECREATION CIVIC CENTER	101-20200	6,577.20
01/15	01/21/2015	146437	180073	RED ROCK RADIO	101-20200	145.00
01/15	01/21/2015	146438	180017	RELIABLE OFFICE SUPPLIES	101-20200	328.42
01/15	01/21/2015	146439	190045	SERVICE SOLUTIONS	101-20200	23.00
01/15	01/21/2015	146440	190024	ST LOUIS CO SHERIFF LITMAN	101-20200	42,500.00
01/15	01/21/2015	146441	190106	ST LOUIS COUNTY AGRICULTURAL	230-20200	300.00
01/15	01/21/2015	146442	190002	ST LOUIS COUNTY AUDITOR	603-20200	75.00
01/15	01/21/2015	146443	190016	ST LOUIS COUNTY AUDITOR	101-20200	200.00
01/15	01/21/2015	146444	190054	ST LUKES CLINICS	101-20200	100.00
01/15	01/21/2015	146445	190061	SULLIVAN CANDY & SUPPLY	101-20200	130.04
01/15	01/21/2015	146446	200020	THE TRENTI LAW FIRM	101-20200	3,411.18
01/15	01/21/2015	146447	119	TOM ULICJNI	101-20200	200.00
01/15	01/21/2015	146448	210042	U.S. DEPT OF AGRICULTURE	378-20200	245,858.34
01/15	01/21/2015	146449	210001	UNITED ELECTRIC COMPANY	604-20200	920.92
01/15	01/21/2015	146450	220004	VIRGINIA DEPARTMENT OF PUBLIC	604-20200	97,899.06
01/15	01/21/2015	146451	220020	VISA OR AMERICAN BANK CC PMT	101-20200	1,114.37
01/15	01/21/2015	146452	230033	WITMER ASSOCIATES INC	101-20200	431.94

Per	Date	Check No	Vendor No	Payee	Check GL Acct	Amount
01/15	01/21/2015	146453	60038	WRIGHT EXPRESS FINAN SERV CORP	603-20200	6,006.94
01/15	01/21/2015	146454	240001	XEROX CORPORATION	604-20200	596.61
Totals:						<u>940,320.88</u>
Payroll-PP Ending 1/16/2015						104,430.00
Electronic Trans.-Sales Tax						<u>19,121.51</u>
TOTAL EXPENDITURES						<u>\$1,063,872.39</u>



**AGREEMENT FOR PROFESSIONAL SERVICES  
ARROWHEAD REGIONAL DEVELOPMENT COMMISSION  
AND THE CITY OF MOUNTAIN IRON**

Dated: January 7, 2015

THIS AGREEMENT is by and between the CITY OF MOUNTAIN IRON ("City"), and ARROWHEAD REGIONAL DEVELOPMENT COMMISSION, a political subdivision of the State of Minnesota, hereinafter referred to as "ARDC" in response to the following situation:

- A. Professional planning services will from time to time be needed by the City of Mountain Iron.
- B. The City desires that ARDC provide such services to it.

NOW, THEREFORE, ARDC and the City do mutually agree as follows:

1. Services to be performed.

ARDC will provide the services described in the City of Mountain Iron Comprehensive Plan Update proposal attached as Exhibit A.

2. Personnel.

ARDC will secure, at its own expense, all personnel required to perform the services under this contract, and such personnel shall not be the employees of, nor have a contractual relationship with, the City.

3. Assignability.

ARDC shall not assign any interest in this contract and shall not transfer any interest in the same without the prior written approval of the City.

4. Contract Period.

This Agreement shall be effective as of the 1<sup>st</sup> day of February, 2015, and shall continue to project completion or January 31<sup>st</sup>, 2016 whichever is sooner, unless terminated as provided in paragraph 5 hereof.

5. Termination of Contract.

Either ARDC or the City may, by giving written notice specifying the effective date which shall not be less than thirty (30) days from the date such notice is given, terminate this contract in whole or in part. In the event of termination, all property and finished or unfinished documents and other writings prepared by ARDC under this contract shall be

delivered to the City and ARDC shall be entitled to compensation for time expended to the date of termination and expenses incurred.

6. Independent Contractor.

The relationship between the ARDC and the City shall be that of an independent contractor. Nothing herein shall in any way make or create any employer- employee relationship between ARDC and the City.

7. Special Projects.

ARDC and the City may, by separate agreement, identify special projects for which the services of the ARDC are desired and that are outside the scope of this Agreement. Such separate agreement shall specify the work to be performed on such separate projects and the fees to be paid to the ARDC in connection with such special projects.

8. Compensation.

ARDC shall be compensated \$20,000 payable in 2 installments of \$10,000 with the first installment payable on the date hereof, and final payment due on January 31<sup>st</sup>, 2016 or at project completion, whichever is sooner.

9. Notices.

Any notice required to be given under this Agreement shall be deemed sufficient if in writing, sent by mail to the last known office address of the City, or to ARDC at 221 West First Street, Duluth, Minnesota 55802.

10. Miscellaneous.


This Contract contains all negotiations and agreements between ARDC and the City related to the subject matter of this contract. No other understanding related to the subject matter of this contract, whether written or oral, may be used to bind either party.

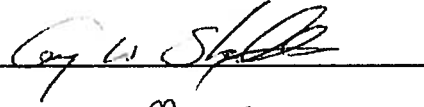
ARDC shall have no authority to enter into any contracts binding upon the City or to create any obligations on the part of the City. The City shall have no authority to enter into any contracts binding upon ARDC or to create any obligations on the part of ARDC. All parties to this contract are subject to the Minnesota Government Data Practices Act, Chapter 13 of the Minnesota Statutes, including Section 13.05, Subd. 11

IN WITNESS WHEREOF, the ARDC and the City of Mountain Iron have executed this contract as of the date first above written.

**ARROWHEAD REGIONAL DEVELOPMENT COMMISSION**

**City of Mountain Iron**


By   
Its Executive Director

By   
Its Mayor

Date: 1/9/2015

Date: 1-21-2015

And

By   
Its Finance Director

Date: 1/8/2015

# CITY OF MOUNTAIN IRON COMPREHENSIVE PLAN UPDATE

The Arrowhead Regional Development Commission (ARDC) will facilitate the completion of a Comprehensive Plan for the City of Mountain Iron, Minnesota. The plan will create a vision for the community's future and guide decisions regarding land use, housing, cultural and natural resources, transportation, economic development, utilities and community facilities, and intergovernmental cooperation. A comprehensive plan will enable the community to identify and prioritize development direction, make strategic long-term development decisions, and be positioned to apply for or access available funding.

The Comprehensive Plan will use input from residents, elected officials, and other stakeholders to describe the community and to develop a statement of overall objectives, policies, goals and programs. The Plan will guide the future development and redevelopment of the community over a 20-year planning period.

## THE PLANNING PROCESS

### Phase 1: Public Visioning Session

To kick-off the project ARDC will meet with the City/Planning Committee to review the comprehensive planning process, learn about concerns, and plan the visioning meeting/input methods.

A Visioning Session is a process that involves elected officials, business owners, residents, and all other stakeholders to give input into identifying a community vision. ARDC will coordinate with City staff to promote the visioning session throughout the community. The Visioning Session will be an event with focus on the process which will begin with ARDC describing the Visioning Session, the Comprehensive Plan process, and identifying goals for the evening.

ARDC will ask attendees to consider what they want Mountain Iron to look and feel like in 20 years. Comments regarding the process will be taken. Meeting attendees will be asked to split into groups and asked to discuss the Vision, existing assets in the community, along with other goals and report back to the overall group. ARDC will summarize and document all of the discussion that took place at the meeting.

## **Phase 2: Plan Development**

### *A. Background Development and Process*

ARDC will review all previous planning processes that involve the City or areas that are near Mountain Iron and summarize the information. The summary will be complemented with an analysis by ARDC that will generally discuss the status of the City's policies and procedures. ARDC will package the information into a background summary document along with the latest demographic statistics for the community. ARDC will share the information with the full Planning Committee at its first meeting.

### *B. Issue Identification*

ARDC will package the ideas listed during the Visioning Session process into a categorized list. The lists will be reviewed by the Planning Committee and a discussion will occur that adds important details to those items.

### *C. Recommendation Development*

ARDC will study the list of ideas to preliminarily determine potential courses of action to address the issues. ARDC will work with the City to ensure that the recommendations address the areas that are required by the Iron Range Resources and Rehabilitation Board (IRRRB) for the agency's community funding programs.

ARDC will review the suggested recommendations with the Planning Committee and make changes based on the feedback of the meeting attendees. ARDC will send a final draft of the recommendations to the Committee and City Council for a final review before holding another public meeting. At the meeting, ARDC will describe the process taken to get to the point of the recommendations and will describe each recommendation in detail. Comments will be documented. Comments from the public meeting will be provided to the Planning Committee whose members will be asked to decide if any changes to the recommendations will be made based on the public input.

### *D. Plan Publication and Implementation Checklist Development*

After the Planning Committee has reviewed and commented on the recommendations, ARDC will assemble the information generated from the process and summarize it in a single Comprehensive Plan document. The entire document will then be made available for public review and input. Comments on the recommendations will be documented by ARDC and brought to the Planning Committee for members to review and make any desired changes to the document. After final City Council review and adoption, the final document will be printed and ten hard copies and an electronic version of the plan will be provided to the City. Following this planning process, ARDC is available to assist the City with plan implementation through a subsequent agreement.

## **DELIVERABLES**

During the process, ARDC will maintain a project website that contains all information about the project. ARDC will develop summaries of all meetings and research requests. At the end of the process ARDC will develop a detailed Plan document that includes recommended action steps. ARDC will print ten color copies of the document and will send them to the City. ARDC will also provide electronic copies of project files, including any GIS/Mapping files that are created for the plan.

## **ARDC – CLIENT RESPONSIBILITIES**

ARDC and the City of Mountain Iron agree to work together to:

- Find meeting locations, dates, and times
- Develop of agendas
- Promote meetings
- Provide ARDC with all pertinent past plans and community development information
- Provide information regarding grants that are secure such as reports, deadlines, deliverables, and any requirements of grants that ARDC needs to meet
- Review documents promptly prior to publication
- Provide ARDC with any data, GIS files, or other information that exists that can assist ARDC with plan development
- ARDC will provide the City and Planning Commission with timely and complete information relevant to the planning process

## **BUDGET**

The total cost for the project is **\$20,000**. This will fund all of ARDC's personnel costs as well as mileage from Duluth for meetings, copying, printing, and other meeting expenses.

## **TIMELINE**

ARDC can commence work after **February 1, 2015**. It is anticipated that the process will take six months to complete.



# CITY OF MOUNTAIN IRON

"TACONITE CAPITAL OF THE WORLD"

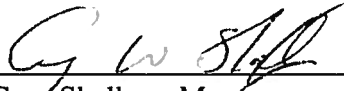
PHONE: 218-748-7570 • FAX: 218-748-7573 • www.mtniron.com  
8586 ENTERPRISE DRIVE SOUTH • MOUNTAIN IRON, MN • 55768-8260

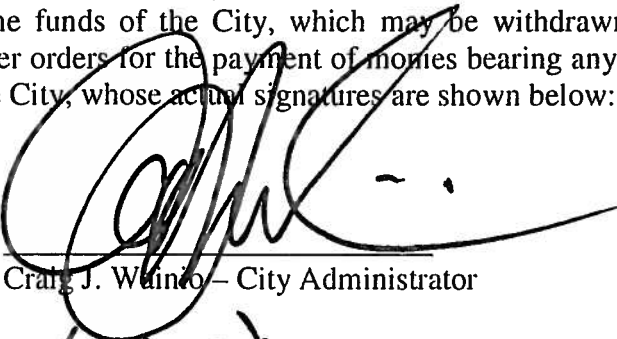
## RESOLUTION NUMBER 01-15

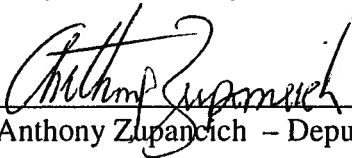
### BANK AUTHORIZATION

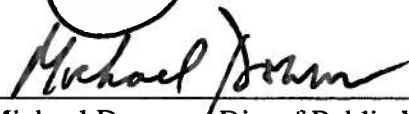
**THIS IS TO CERTIFY:** That at a meeting of the City Council of the City of Mountain Iron, (hereafter referred to as the "City"), operating under the laws of the State of Minnesota, duly held on January 20, 2015, the following resolution was adopted:

**BE IT RESOLVED,** that the American Bank of the North, (hereafter referred to as the "Bank"), is hereby designated as a depository for the funds of the City, which may be withdrawn on checks, drafts, advices of debit, notes or other orders for the payment of monies bearing any two of the following officers or employees of the City, whose actual signatures are shown below:

  
\_\_\_\_\_  
Gary Skalko – Mayor

  
\_\_\_\_\_  
Craig J. Wainio – City Administrator

  
\_\_\_\_\_  
Anthony Zupancich – Deputy Mayor

  
\_\_\_\_\_  
Michael Downs – Dir. of Public Works

and said Bank shall be and authorized to honor and pay whether or not payable to bearer or to the individual order of any agent or agents signing the same.

**BE IT FURTHER RESOLVED,** that the Bank is hereby directed to accept and pay without further inquiry any item drawn against any of the City's accounts with the Bank bearing the signature or signatures of Agents, as authorized above or otherwise, even though drawn or endorsed to the order of any Agent signing or tendered by such Agent for cashing or in payment of the individual obligation of such Agent or for deposit to the Agent's personal account, and the Bank shall not be required or be under any obligation to inquire as to the circumstances of the issue or use of any item signed in accordance with the resolutions contained herein, or the application or disposition of such item or the proceeds of the item,

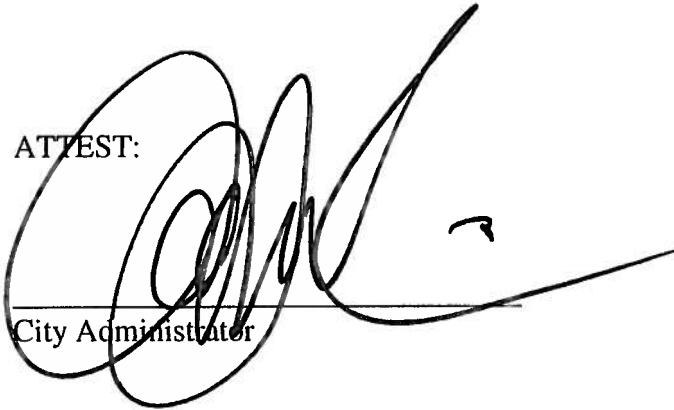
**BE IT FURTHER RESOLVED,** that any one of such Agents is authorized to endorse all checks, drafts, notes and other items payable to or owned by this City for deposit with the Bank, or for collection or discount by the Bank; and to accept drafts and other items payable at the Bank.

**BE IT FURTHER RESOLVED**, that the above named agents are authorized and empowered to execute such other agreements, including, but not limited to, special depository agreements and arrangements regarding the manner, conditions, or purposes for which funds, checks, or items of the City may be deposited, collected, or withdrawn and to perform such other acts as they deem reasonably necessary to carry out the provisions of these resolutions. The other agreements and other acts may not be contrary to the provisions contained in this Resolution,

**BE IT FURTHER RESOLVED** that the City hereby conferred upon the above named agents shall be and remain in full force and effect until written notice of any amendment or revocation thereof shall have been delivered to and received by the Bank at each location where an account is maintained. Bank shall be indemnified and held harmless from any loss suffered or any liability incurred by it in continuing to act in accordance with this resolution. Any such notice shall not affect any items in process at the time notice is given.

**DULY ADOPTED BY THE CITY COUNCIL THIS 20<sup>th</sup> DAY OF JANUARY, 2015.**

ATTEST:



City Administrator



Mayor Gary Skalko



**COUNCIL LETTER 020215-IVB1**

**ADMINISTRATION**

**GASB 45 REPORT**

**DATE:** January 29, 2015  
**FROM:** Craig J. Wainio  
City Administrator

---

According to Government Accounting Standards Board (GASB) the City is required to perform an actuarial report every three years. The report is used to account for and identify "Other Post-Employment Benefits" in our audit. Enclosed is a proposal from Van Iwaarden Associates to update the City's report. It is recommended that the City Council authorize Van Iwaarden Associates to update the City's GASB 45 Actuarial Report.

## Craig J. Wainio

---

**From:** Mark Schulte <marks@vaniwaarden.com>  
**Sent:** Thursday, January 15, 2015 11:09 AM  
**To:** Craig J. Wainio  
**Cc:** Jill M. Clark; Mark Schulte; Sean Todd  
**Subject:** FY2015 GASB 45 Valuation Data Request  
**Attachments:** BCBS 2012 Renewal.pdf; Mt Iron - G45 Data Request.xlsx

Craig and Jill,

It's been three years since your last GASB 45 actuarial report, so we'll need to prepare a new report this year with results for your FYE2015-2017 financial statements. I've attached an Excel workbook where you can enter census and plan information. In addition to the instructions tab, the first tab has instructions for collecting the data while the second tab has explanations for some of the census data fields requested on the third and fourth tabs.

One of the items in the data request is the 1/1/2015 renewal report from your insurer. For reference, I'm attaching a copy of the 2012 Blue Cross Blue Shield renewal you provided last time.

Our estimated fee for the 2015 report is \$5,400; which will include your GASB 45 financial reporting information for the next three years. Any out-of-scope work will be billed at our hourly rates. If you have any questions about the data request, please let me know. Thanks!

- Mark

**Mark W. Schulte, FSA, EA**

Consulting Actuary

**Van Iwaarden Associates**

612.596.5971 direct, 888.596.5960 toll free

[www.vaniwaarden.com](http://www.vaniwaarden.com)

L/D/C/R: 0

Treasury Circular 230 notice: *Tax advice included in this message or attachment is not intended to be used, and cannot be used, to avoid any tax penalties.*

Confidentiality notice: *This e-mail, including any attachments, is for the sole use of the intended recipient. Unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please notify the sender and destroy all copies immediately.*



# Saint Louis County

8586 Enterprise Dr. S., Mountain Iron, MN 55768  
(218) 748-7574

Sheriff Ross Litman

**To:** Mountain Iron Mayor and City Council  
**From:** Sgt. John Backman *[Signature]*  
**Re:** December 2014 Statistics  
**Date:** January 26, 2015

The Mountain Iron Office of the St. Louis County Sheriff reports the below activity for the month of December 2014:

- 26 Disturbances (arguments, threats, unwanted persons, 911 hangup)
  - 7 Public assists (roadside assistance/checks, patrol requests, vehicle unlocks)
  - 9 Suspicious persons/vehicles/circumstances
  - 9 Motor vehicle crashes
  - 4 Welfare checks, suicide threats, neglect/abandoned persons, runaway/lost/missing
  - 5 Fire & medical
  - 3 Drug related calls
  - 5 Alarms
  - 4 Assaults
  - 3 Damage to Property
  - 11 Thefts
  - 2 Burglary (or attempted)
  - 9 Miscellaneous calls (civil/custody/property disputes, animal & traffic complaints, warrant/paper service)
  - 23 Traffic Stops
  - 3 Traffic Citations
  - 1 DUI
- Assists: 5 Sheriffs, 1 Virginia PD, 0 Other PD's, 5 MSP, 5 inside Mt. Iron

This activity resulted in 4 custodial arrests.



# Saint Louis County

---

8586 Enterprise Dr. S., Mountain Iron, MN 55768  
(218) 748-7574

**Sheriff Ross Litman**

January 27, 2015

To: Honorable Mayor and Council  
From: Sgt. John Backman

Subject: 2015 Squad Car Purchase

I am requesting the purchase of a 2015 Ford Police Interceptor Utility(SUV) AWD squad. This was budgeted for in 2015 and will replace the 2009 Ford F150. This vehicle is pursuit rated and purpose built for law enforcement use.

This price does include, for the first time, limited emergency lighting in the rear of the vehicle as rigged by the vehicle manufacturer. The vast majority emergency and communication equipment, as well as the graphics is addressed in a separate budget line.

I am recommending purchase from Lundgren's Ford, in Eveleth, at the quoted price of \$27,144.44. This quote falls within \$236 of the state bid price held by a dealer in Fergus Falls. The difference is more than made up in the cost of pickup from the state bid holder and allows the City to purchase locally.

Thank you for your consideration,

A handwritten signature in blue ink, appearing to read "John M. Backman 15196".

Sgt. John M. Backman

# Lundgren's



Beveloth/Virginia - 1(800)662-5745 - 218-744-4821

January 23, 2015

Sgt. John Bachman  
8586 Enterprise Drive North  
Mt. Iron, Minnesota 55768

Sgt. Bachman:

Lundgrens is pleased to resubmit the following quote on a 2015 Ford Police Interceptor Utility for your review. Ford Motor Company has adjusted their concession on the Interceptor Utility. Please note the change from our quote on January 20, 2015.

#### 2015 Ford Police Interceptor Utility AWD

- 3.7LV6 gas engine with 6 speed automatic transmission
- Cargo dome light, engine block heater, vinyl flooring
- Cruise control/tilt steering, air conditioning
- Privacy glass 2<sup>nd</sup> and 3<sup>rd</sup> row, rear view camera
- Rear door handles and locks inoperable, rear window power delete
- Noise suppression straps, daytime running lamps
- Dark car feature, deflector plate, heated mirrors
- Tail lamp solution, rear lighting solution
- Driver's side spot-lamp (incandescent)
- Arizona Beige Clearcoat, black cloth front bucket with vinyl rear bench

Your cost for this vehicle would be \$27,144.44. This price does not include any applicable taxes, license, or fees. The final order date for the 2015 Utility has not changed and is still February 13, 2015.

Thank you kindly for this business opportunity. Please contact me with any questions that you may have.

Respectfully,

Bruce O. Lundgren

**COUNCIL LETTER 020215-IVG2**  
**PUBLIC HEALTH AND SAFETY**  
**OFFICER SELECTION**

**DATE:** January 29, 2015  
**FROM:** Public Health and Safety Board  
Personnel Committee  
Craig J. Wainio  
City Administrator

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The Public Health and Safety Board and the Personnel Committee recommend that the City Council approve the following officer appointments:

Jerry Knapper	Assistant Fire Chief
Dan Zupancich	Assistant EMS Director

Also Staff is requesting authorization to post for the Captains position which was vacated due to Mr. Knapper moving to Assistance Fire Chief and post for a second Captains position due to the resignation of Matt Mattson.

**COUNCIL LETTER 020215-IVH1**

**BUILDINGS AND GROUNDS**

**GENERATOR**

**DATE:** January 29, 2015  
**FROM:** Buildings and Grounds Committee  
Craig J. Wainio  
City Administrator

---

The Buildings and Grounds Committee has reviewed the enclosed quotes and specifications for a stand by generator for the City Hall and Community Center. A stand by generator is being proposed due to the Community Center being the emergency operations center and would need power in the event of an emergency. Three Quotes were received and it is recommended that the quote from Total Energy Systems LLC for Kohler gas engine generator be accepted in the amount of \$30,500. The purchase and installation of a standby generator for the Community Center is a budgeted item under the 2015 Capital Improvement Budget.

**Date:** January 27, 2015

**To:** Craig Wainio @ CI-Mountain-Iron

**Reference:** Mountain Iron

We are pleased to offer the following quote for the above project:

Quantity 1 - Generac industrial gas engine driven generator, naturally aspirated 6.8L V-10 engine, consisting of the following features and accessories:

- Fuel system - Natural gas
- SG 70
- Stationary Emergency-Standby rated
- 70 kW Rating, synchronous alternator, wired for 277/480 VAC 3 Phase, 60 HZ
- Permanent magnet excitation
- H-100 Control Panel
  - Meets NFPA 99 and 110 requirements
  - Temp Range -40 to 70 degrees C
  - Digital microprocessor:
    - Two 4 line x 20 displays, full system status
    - 3 phase sensing, +/-0.25% digital voltage regulation
    - RS232, RS485 and Canbus remote ports
    - Waterproof connections
    - All engine sensors are 4-20 ma for minimal interference
    - Programmable I/O
    - Built-in PLC for special applications
  - Engine function monitoring and control:
    - Full range standby operation; Programmable auto crank, Emergency Stop, Auto-Off- Manual switch
    - Isochronous governor, +/-0.25% frequency regulation
    - Full system status on all AC output and engine function parameters
    - Service reminders, trending, fault history (alarm log)
    - I2T function for full generator protection
    - Selectable low-speed exercise
  - 2-wire start controls for any 2-wire transfer switch
- Electronic governor Frequency regulation, isochronous Steady state regulation +/-0.25%
- 125A UL mainline circuit breaker
- Sound attenuated, Level 2 Acoustic enclosure
  - Industrial Grey enclosure, powder paint finish
- Critical muffler - installed
- 110AH, GRP 31, 925 CCA battery
  - w/rack installed
- 10A Battery Charger-installed
- Battery heating pad, installed
- Battery charging alternator
- Battery cables
- Battery tray
- Fuel shut-off solenoid valve



- Solenoid activated starter motor
- Air cleaner and oil filter with internal bypass
- Oil and antifreeze
- Oil and radiator drain extensions
- Vibration isolators between engine/alternator and base frame
- Standard flex exhaust
- Block heater 1500W
- Crankcase Oil Heater, 200W
  - Shipped loose
- Alternator strip heater
- Standard set of 3 manuals
- Listed to standard UL2200
- EPA Certified
- STD 2-year limited warranty
- Standard Electronic Governor
- Flex fuel line-nat gas
- Two (2) year standard warranty

Quantity 1 - Description: ASCO 3ATS Series, Automatic Transfer Switch, 800 Amps, 480 V, 4 Pole, Nema 1 Enclosure, Catalog: 3ATSB30800NGXC, 11BE, 31Z

**DESCRIPTION OF ACCESSORIES:**

**11BE (Feature Bundle):**

- A fully programmable engine exerciser with 7 independent routines to exercise the Gen. With or Without Load. Exerciser setting can be displayed & changed from the user interface keypad.
- Event Log Display shows the event number, time & date of events, event type, & event reason. Maximum of 300 events.
- RS-485 communication Port.

Quantity 1 - Freight to jobsite, offloaded by others

Quantity 1 - Start up and training

Quantity 1 - Secondary fuel regulator

**Total investment for the above equipment (Not including any applicable tax): \$28,554.00**

**Notes**

Offloading & Rigging is by others  
 Installation NOT Included  
 Start-up and Testing Service is included. Load Bank testing is not included.  
 Fuel Fill is not included  
 Permits are not included.

**Terms and Conditions**

**PAYMENT :** Shipments in entirety, or partials thereof, due net 30 days after shipment from factory  
 : No retainage without written pre-accepted agreement  
 : Startup will not be completed without 100% payment  
 : A 3% surcharge will be added to all credit card payments  
**PRICES :** Valid for 30 days from date of this proposal  
**TAXES :** Sales Taxes are NOT included, and will be billed without a tax-exempt certificate  
**F.O.B.Shipping :** Ownership of goods passes to buyer at the time the goods cross the shipping point. Pre-paid freight to jobsite is included.  
**CANCELLATION :** Shall be subject to applicable fees but not less than 20% of the purchase price.  
**DELIVERY :** Expected to be 6 - 8 Weeks after receipt of order and approved submittals. Factory will confirm

delivery at the time of order. Storage fees of 4% per month will be assessed to the buyer starting 10 days after the scheduled ship date.

INDEMNIFICATION : Signee is obligated for any and all costs of collection, and associated fees

PROPIETARY : This Quote/Bill of Material is proprietary to Titan Energy Systems. Reproduction or sharing of this Quote/Bill of Material is strictly prohibited.

**Sincerely,**

\_\_\_\_\_

Thomas Carlson  
Senior Account Rep.

Titan Energy Systems  
6321 Bury Drive, Suite 8  
Eden Prairie, MN 55346

Cell# 612-759-2637  
Service# 888-838-4043  
Main# 952-960-2371  
Fax# 952-938-3290  
TCarlson@titanenergy.com

**Acceptance of Quote**

Prior to ordering equipment or services, please sign and return as a confirmation of the above terms and conditions.

Proposal accepted by:\_\_\_\_\_ Date:\_\_\_\_\_

Company Name:\_\_\_\_\_

Purchase Order #\_\_\_\_\_

Release Equipment for Production: Yes or No, Hold for Approval

Engineering Submittal's: PDF or Hard Copies \_\_\_\_\_

Date equipment is needed onsite: \_\_\_\_\_

Is ATS wanted early: Yes or No

Special Payment Discount Terms [2% Net 10 days] Yes or No



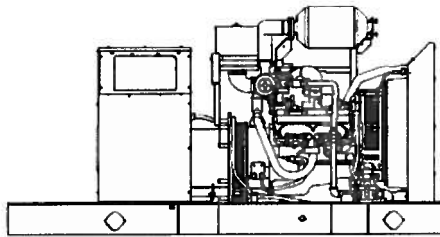
**"Proven Provider of Critical Power"  
Budgetary Proposal**

To: Mountain Iron 70KW  
Craig Wainio  
P: 218-748-7570  
[cwainio@ci.mountain-iron.mn.us](mailto:cwainio@ci.mountain-iron.mn.us)  
  
SAP # 26115589



From: Jim DeGenaro  
Total Energy Systems LLC.  
14950 Martin Dr  
Eden Prairie, Minnesota 55344  
P: 651-925-3183 F:952-767-1681  
[jidegenaro@totalenergysystems.com](mailto:jidegenaro@totalenergysystems.com)

**GENERATOR SET**



**Kohler Model: 80REZGD**

This gas generator set equipped with a 4P10X alternator operating at 277/480 volts is rated for 80 kW/100 kVA.  
Output amperage: 120

**Configuration**

Qty	Description
1	80REZGD Generator Set60Hz,277/480V,3Ph,4W,0.8PF
1	80REZGD, 12V, Single Fuel, Nat. Gas, EPA, 4PX
1	Nameplate Rating, Standby 130 Degree
1	UL2200 Listing (Gas)
1	Alternator, 4P10X
1	Unit Mounted. Radiator Cooling
1	Air Intake, Standard Duty W/ Restriction Indicator
<b>Controller</b>	
1	Controller, DEC3000
1	DEC3000 2Input/5Output
1	Run Relay, 12V
1	Manual Speed Adjust
1	Pre-alarm Sender Package
<b>Breaker</b>	
1	LCB, 125A, HDP, Thermal Magnetic 80%
<b>Enclosure &amp; Accessories</b>	
1	Weather Enclosure, Critical Silencer, Steel
1	Rodent Guards, 4P
1	Battery Charger, Float w/Alarms, 12V-10A
1	Block Heater, 1500W, 120V
1	Additional Gas Solenoid Valve
1	Flexible Fuel Line (Nat/LP) UL
1	Lit Kit, Production, 25REZG
1	Warranty, 2 Year Basic



14950 Martin Drive / Eden Prairie, MN 55344  
Phone: 866-583-1671 Fax: 952-767-1681

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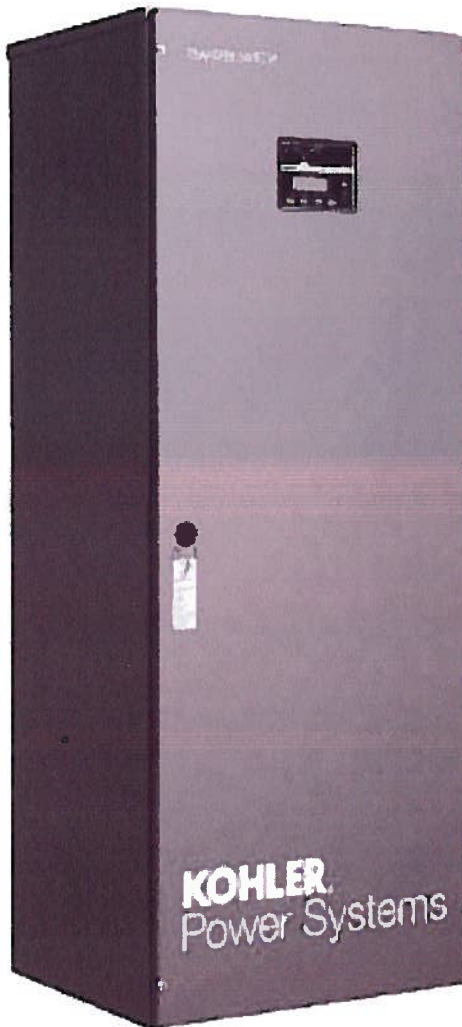
## AUTOMATIC TRANSFER SWITCH

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**Kohler Model: KCS-AMTA-0800S**

3 Pole, 4 Wire, Solid Neutral, 0800 Amps,  
480V, 60 Hz Kohler Standard automatic  
transfer switch, housed in a NEMA Type 1  
enclosure.



**Configuration**

Qty	Description
1	KCS-AMTA-0800S
1	Warranty, 2 Year Basic



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## DISTRIBUTOR START-UP

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### PRODUCT SUPPORT & FIELD TESTS:

1. Start-up, must be scheduled a minimum of 10 - 14 days prior to requested start-up date. Contact the Service Department at 1.888.548.1400 ex 3301 for date and time.

**SERVICE ITEMS INCLUDED WITH THIS QUOTE:**

Lubricating Oil

Antifreeze - 50/50 Mix

Battery

Start Up Service

(1) day reserved, during normal business hours, for inspection, engine prep work and initial engine start up

Load Bank Test at Site

(2) Hours are Included using a portable resistive load bank.

Training session will be provided at the conclusion of the system start up.

2. Contractor shall coordinate and schedule start-up and shall be responsible for ADDITIONAL field service costs if start-up cannot be completed in time allowed as a result of incomplete installation.
3. Total Energy System's proposal is based on meeting the functional intent and system requirements of the job description.
4. No specifications or drawings were provided for the project prior to providing the above equipment.
5. Unless specifically listed in our Bill of Material, equipment not indicated is assumed to be supplied by others. We reserve the right to correct any errors or omissions.
6. Videotaping of training is not provided due to liability reasons. An approved operational DVD is available upon request and at an additional cost.
7. NETA testing by others.

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## CLARIFICATIONS

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The natural gas generator requires 11 inches of water column (WC) pressure and 1185 cubic feet of gas per hour (CFH) of gas volume to operate correctly at 100% rated capacity.

Primary Line Regulator Not Supplied



14950 Martin Drive / Eden Prairie, MN 55344  
Phone: 866-583-1671 Fax: 952-767-1681

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**ADDS/DEDUCTS**

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Adder: Remote Annunciator (NFPA110) is: \$600.00 \_\_\_\_\_ (Please initial if wanted)

Adder: Remote E-Stop (NFPA110) is: \$250.00 \_\_\_\_\_ (Please initial if wanted)

Adder: Modbus to Ethernet Converter is: \$345.00ea \_\_\_\_\_ (Please initial if wanted)  
(Two required if connecting to RS485 & Building Automation System)

Adder: Five Year Comprehensive Warranty is: \$1,406.00 \_\_\_\_\_ (Please initial if wanted)

Adder: Training Video custom to your location provided after start up has been completed is \$1,500.00 \_\_\_\_\_  
(Please initial if wanted)

---

**OFFER TOTAL SELL PRICE: \$30,500.00**

Quotation is firm for 60 days.  
Lead Time: 8 to 10 weeks after approved submittals.  
FOB Job Site (Customer Unload)  
Price does not include any applicable taxes or installation.

---

**OFFER ACCEPTANCE**

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I hereby authorize Total Energy Systems to use this form as a bona fide purchase order of the equipment shown on Offer Number: 0914BM09, which clearly establishes definite price and specifications of material ordered. The person signing is doing so according to the terms and conditions.

**Proposed by:**  
Company: Total Energy Systems LLC.  
  
Print Name: Jim DeGenaro

**Accepted by:**  
Company: \_\_\_\_\_  
  
Print Name: \_\_\_\_\_  
  
Title: \_\_\_\_\_  
  
Signature: \_\_\_\_\_  
  
Date: \_\_\_\_\_  
  
PO Number: \_\_\_\_\_



14950 Martin Drive / Eden Prairie, MN 55344  
Phone: 866-583-1671 Fax: 952-767-1681

**PLEASE NOTE:**

- A. Quotation is firm for 60 days
- B. Off-loading, installation, insulation, etc. of all associated equipment is not included, unless otherwise stated.**
- C. Remote radiator installation and filling of unit **is not included.**
- D. Fuel, fuel piping plans, installation and permitting of tanks or piping, if required, is not included.
- E. Quotation meets functional intent of specifications, either verbal or written, unless otherwise noted.
- F. State and local permits, where applicable, are not included and must be purchased by owner or installing contractor.

**TERMS AND CONDITIONS:**

**TERMS:** Payment is: 30% at submittal drawing approval, 60% when equipment is delivered/received to site and 10% at start-up acceptance of system. **Unless alternative terms are agreed upon prior to acceptance.**

**GENERAL:** Stenographical and clerical errors are subject to correction. Orders resulting from quotations become contracts. Any agreement or other understanding, supplementing or modifying the conditions of the contract resulting from our acceptance of an order will not be mutually binding unless made in writing.

**LIABILITY:** We accept orders under the condition that we are not to be liable for losses or delays caused by strikes, accidents, fires or any other cause beyond our control. Damage resulting from improper storage or handling prior to placing products in service will not be considered our liability. We will not assume any responsibility, expense or liability for repairs made without our written consent. We assume no contingent liability for losses sustained by any purchases through the use of any of the products described.

**RETURNED MATERIAL:** No material may be returned without first obtaining written approval, and no claim will be allowed nor credit given for material returned without such written approval. It is your duty to inspect goods within ten days after receipt.

**SHIPMENT:** Our responsibility ceases with the delivery of merchandise in good order to transportation companies. Claims for shortage or damage in transit must be made by the customer against the carrier. In the absence of definite shipping instructions, we reserve the right to ship all material, upon completion, by any public carrier, which in our opinion is satisfactory.

**TAXES:** State and local sales and use taxes and excise taxes, where applicable, are in addition to quoted prices and will be billed unless the purchaser promptly certifies that the goods are for resale or are otherwise exempt.

**GUARANTEE:** As outlined by appropriate manufacturer.

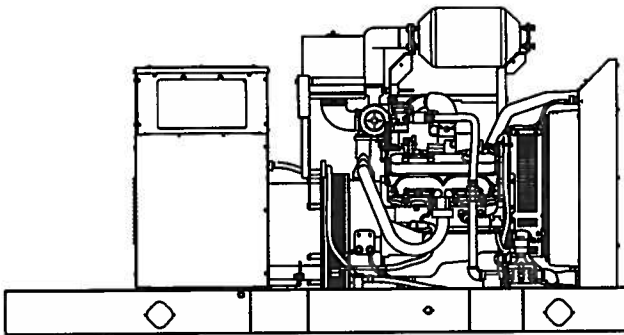
**CANCELLATION:** All orders cancelled after submittal approval are subject to cancellation charges of 25% submitted by factory to Total Energy Systems.



**EPA-Certified for Stationary  
Emergency Applications**

**Ratings Range**

Standby:	kW kVA	60 Hz
		63-80
		63-100



**Standard Features**

- Kohler Co. provides one-source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The 60 Hz generator set offers a UL 2200 listing.
- The generator set accepts rated load in one step.
- The 60 Hz generator set meets NFPA 110, Level 1, when equipped with the necessary accessories and installed per NFPA standards.
- A one-year limited warranty covers all systems and components. Two- and five-year extended warranties are also available.
- Alternator features:
  - The unique Fast-Response™ X excitation system delivers excellent voltage response and short-circuit capability using a rare-earth, permanent magnet (PM)-excited alternator.
  - The brushless, rotating-field alternator has broadrange reconnectability.
- Other features:
  - Kohler designed controllers for guaranteed system integration and remote communication. See Controllers on page 3.
  - The electronic, isochronous governor incorporates an integrated drive-by-wire throttle body actuator delivering precise frequency regulation.

**Generator Set Ratings**

Alternator	Voltage	Ph	Hz	Standby Rating	
				kW/kVA	Amps
4P10X	120/208	3	60	77/96	267
	127/220	3	60	80/100	262
	120/240	3	60	77/96	231
	120/240	1	60	63/63	262
	139/240	3	60	80/100	240
	220/380	3	60	70/87	132
	277/480	3	60	80/100	120
	347/600	3	60	80/100	96
4R9X	120/208	3	60	80/100	277
	127/220	3	60	80/100	262
	120/240	3	60	80/100	240
	120/240	1	60	77/77	320
	139/240	3	60	80/100	240
	220/380	3	60	80/100	151
	277/480	3	60	80/100	120
347/600	3	60	80/100	96	
4T9X	120/240	1	60	80/80	333

Natural Gas  
130°C Rise  
Standby Rating

RATINGS: All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 power factor. Standby Ratings: The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Prime Power Ratings: At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528-1 and ISO-3046-1. For limited running time and continuous ratings, consult the factory. Obtain technical information bulletin (TIB-101) for ratings guidelines, complete ratings definitions, and site condition derates. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.



# Alternator Specifications

Specifications	Alternator
Manufacturer	Kohler
Type	4-Pole, Rotating-Field
Exciter type	Brushless, Rare-Earth Permanent Magnet
Leads: quantity, type	12, Reconnectable
4PX, 4RX	4, 120/240
4TX	Solid State, Volts/Hz
Voltage regulator	NEMA MG1
Insulation:	Class H
Material	130°C, Standby
Temperature rise	1, Sealed
Bearing: quantity, type	Flexible Disc
Coupling	Full
Amortisseur windings	Controller Dependent
Voltage regulation, no-load to full-load	100% of Rating
One-step load acceptance	100% of Rated Standby Current
Unbalanced load capability	(35% dip for voltages below)
Peak motor starting kVA:	
480 V	4P10X (12 lead) 275 (60 Hz)
480 V	4R9X (12 lead) 385 (60 Hz)
240 V	4T9X (4 lead) 237 (60 Hz)

- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting.
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the alternator field.
- Self-ventilated and drip-proof construction.
- Windings are vacuum-impregnated with epoxy varnish for dependability and long life.
- Superior voltage waveform from a two-thirds pitch stator and skewed rotor.

## Application Data

### Engine

Engine Specifications	General Motors
Manufacturer	Industrial Powertrain
Engine: model, type	Vortec 5.7 L, 4-Cycle Turbocharged
Cylinder arrangement	V-8
Displacement, L (cu. in.)	5.7 (350)
Bore and stroke, mm (in.)	101.6 x 88.4 (4.00 x 3.48)
Compression ratio	9.1:1
Piston speed, m/min. (ft./min.)	318 (1044)
Main bearings: quantity, type	5, M400 Copper Lead
Rated rpm	1800
Max. power at rated rpm, kW (HP)	99 (133)
Cylinder head material	Cast Iron
Piston type and material	High Silicon Aluminum
Crankshaft material	Nodular Iron
Valve (exhaust) material	Forged Steel
Governor type	Electronic
Frequency regulation, no-load to full-load	Isochronous
Frequency regulation, steady state	±0.5%
Frequency	Fixed
Air cleaner type, all models	Dry

### Exhaust

Exhaust System	
Exhaust manifold type	Dry
Exhaust flow at rated kW, m <sup>3</sup> /min. (cfm)	18.9 (670)
Exhaust temperature at rated kW, dry exhaust, °C (°F)	649 (1200)
Maximum allowable back pressure, kPa (in. Hg)	10.2 (3.0)
Exhaust outlet size at engine hookup, mm (in.)	Flanged Outlet at Catalyst see ADV drawing

### Engine Electrical

Engine Electrical System	
Ignition system	Individual Coil Near Plug Ignition
Battery charging alternator:	
Ground (negative/positive)	Negative
Volts (DC)	12
Ampere rating	70
Starter motor rated voltage (DC)	12
Battery, recommended cold cranking amps (CCA):	
Qty., rating for -18°C (0°F)	1, 630
Battery voltage (DC)	12

### Fuel

Fuel System	
Fuel type	Natural Gas
Fuel supply line inlet	1 1/4 NPTF
Gas fuel supply pressure, measured at the generator set fuel inlet downstream of any fuel system equipment accessories, kPa (in. H <sub>2</sub> O)	1.74-2.74 (1-11)

Fuel Composition Limits *	Nat. Gas
Methane, % by volume	90 min.
Ethane, % by volume	4.0 max.
Propane, % by volume	1.0 max.
Propene, % by volume	0.1 max.
C <sub>4</sub> and higher, % by volume	0.3 max.
Sulfur, ppm mass	25 max.
Lower heating value, MJ/m <sup>3</sup> (Btu/ft <sup>3</sup> ), min.	33.2 (890)

\* Fuels with other compositions may be acceptable. If your fuel is outside the listed specifications, contact your local distributor for further analysis and advice.

11" Required @ 100% Rated Capacity

# Application Data

## Lubrication

### Lubricating System

Type	Full Pressure
Oil pan capacity, L (qt.)	4.7 (5.0)
Oil pan capacity with filter, L (qt.)	6.2 (6.5)
Oil filter: quantity, type	1, Cartridge

## Cooling

### Radiator System

Ambient temperature, °C (°F) *	50 (122)
Engine jacket water capacity, L (gal.)	6.8 (1.8)
Radiator system capacity, including engine, L (gal.)	22.5 (6.0)
Engine jacket water flow, Lpm (gpm)	144 (38)
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	62 (3540)
Water pump type	Centrifugal
Fan diameter, including blades, mm (in.)	599 (23.6)
Fan, kWm (HP)	6.7 (9.0)
Max. restriction of cooling air, intake and discharge side of radiator, kPa (in. H <sub>2</sub> O)	0.125 (0.5)

\* Enclosure with enclosed silencer reduces ambient temperature capability by 10°C (18°F).

## Operation Requirements

### Air Requirements

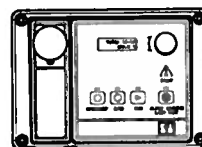
Radiator-cooled cooling air, m <sup>3</sup> /min. (scfm)‡	156 (5500)
Combustion air, m <sup>3</sup> /min. (cfm)	6.8 (237)
Heat rejected to ambient air:	
Engine, kW (Btu/min.)	47 (2700)
Alternator, kW (Btu/min.)	14.5 (825)
† Air density = 1.20 kg/m <sup>3</sup> (0.075 lbm/ft <sup>3</sup> )	

### Fuel Consumption ‡

Natural Gas, m <sup>3</sup> /hr. (cfh) at % load	Standby Ratings
100%	33.6 (1185)
75%	27.8 (981)
50%	22.0 (777)
25%	16.2 (573)
0%	10.4 (369)

‡ Nominal fuel rating: Natural gas, 37 MJ/m<sup>3</sup> (1000 Btu/ft.<sup>3</sup>)

## Controllers

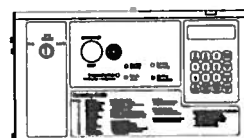


### Decision-Maker® 3000 Controller

Provides advanced control, system monitoring, and system diagnostics for optimum performance and compatibility.

- Digital display and menu control provide easy local data access
- Measurements are selectable in metric or English units
- Remote communication thru a PC via network or serial configuration
- Controller supports Modbus® protocol
- Integrated hybrid voltage regulator with ±0.5% regulation
- Built-in alternator thermal overload protection
- NFPA 110 Level 1 capability

Refer to G6-100 for additional controller features and accessories.



### Decision-Maker® 550 Controller

Provides advanced control, system monitoring, and system diagnostics with remote monitoring capabilities.

- Digital display and keypad provide easy local data access
- Measurements are selectable in metric or English units
- Remote communication thru a PC via network or modem configuration
- Controller supports Modbus® protocol
- Integrated voltage regulator with ±0.25% regulation
- Built-in alternator thermal overload protection
- NFPA 110 Level 1 capability

Refer to G6-46 for additional controller features and accessories.

## Standard Features

- Alternator Protection
- Battery Rack and Cables
- Electronic, Isochronous Governor
- Gas Fuel System (includes fuel mixer, electronic secondary gas regulator, gas solenoid valve, and flexible fuel line between the engine and the skid-mounted fuel system components)
- Integral Vibration Isolation
- Local Emergency Stop Switch
- Oil Drain Extension
- Operation and Installation Literature
- Three-Way Exhaust Catalyst

## Available Options

### Approvals and Listings

- CSA Approval
- IBC Seismic Certification
- UL 2200 Listing

### Enclosed Unit

- Sound Enclosure (with enclosed critical silencer)
- Weather Enclosure (with enclosed critical silencer)

### Open Unit

- Exhaust Silencer, Critical (kit: PA-324470)
- Flexible Exhaust Connector, Stainless Steel

### Fuel System

- Flexible Fuel Line (required when the generator set skid is spring mounted)
- Gas Filter
- Secondary Gas Solenoid Valve

### Controller

- Common Fault Relay
- Communication Products and PC Software
- Customer Connection (Decision-Maker® 550 controller only)
- Dry Contact (isolated alarm) (Decision-Maker® 550 controller only)
- Input/Output Module (Decision-Maker® 3000 controller only)
- Remote Annunciator Panel
- Remote Audiovisual Alarm Panel (Decision-Maker® 550 controller only)
- Remote Emergency Stop
- Run Relay

### Cooling System

- Block Heater, 1500 W, 110-120 V
- Block Heater, 1500 W, 190-240 V  
Recommended for ambient temperatures below 10°C (50°F)

### Electrical System

- Alternator Strip Heater
- Battery
- Battery Charger, Equalize/Float Type
- Battery Heater
- Line Circuit Breaker (NEMA1 enclosure)
- Line Circuit Breaker with Shunt Trip (NEMA1 enclosure)

### Miscellaneous

- Air Cleaner Restrictor Indicator
- Engine Fluids Added
- Rated Power Factor Testing
- Rodent Guards

### Literature

- General Maintenance
- NFPA 110
- Overhaul
- Production

### Warranty

- 2-Year Basic
- 5-Year Basic
- 5-Year Comprehensive

### Other Options

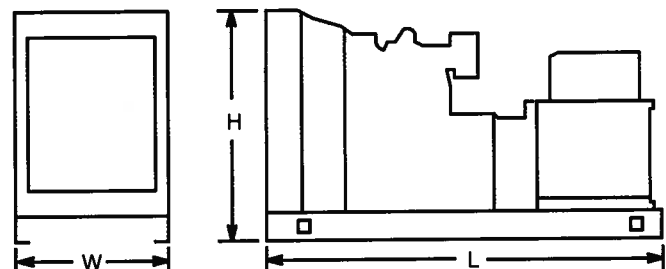
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## Dimensions and Weights

Overall Size, L x W x H, mm (in.) :

Wide Skid 2800 x 1120 x 1456 (110.2 x 44.1 x 57.3)  
 Narrow Skid 2800 x 864 x 1456 (110.2 x 34.0 x 57.3)

Weight (radiator model), wet, kg (lb.): 1300 (2865)



NOTE: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.

**DISTRIBUTED BY:**

Proposal by



Proposal No. EPG197673

Date: January 28, 2015

ZIEGLER POWER SYSTEMS

8050 State Highway 101  
Shakopee, MN 55379  
952-887-4535

To: City of Mountain Iron

Re: Standby Generator

Attn: Craig Wainio

WE PROPOSE TO FURNISH IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS, TERMS AND CONDITIONS

- QUANTITY: One (1) New CATERPILLAR Olympian Standby Generator in Outdoor Insulated Level 2 Sound Attenuated Enclosure
- MODEL: G70LG
- RATING: 70 KW Stand-by
- VOLTAGE: 277/480 Volts, 3 phase, 60 HZ, 1800 RPM
- CIRCUIT BREAKER: One (1) 125 amp, 3 pole
- WARRANTY Two (2) year, 1000 hour,
- SWITCHGEAR One (1) Asco 300 Series open transition automatic transfer switch 800 amp, 3 pole, 480 volt, Nema 1 indoor enclosure, Non service entrance rated
- INSTALLATION: By others

**TOTAL EQUIPMENT PRICE      \$ 40,930 .00\***

\*Please refer to the attached Bill of Material.

**\*Price does not include state or local sales and/or use taxes.**

**F.O.B.**      Jobsite, on Truck  
**TERMS**      Net 20 days

Ship date: 8-10 weeks from factory

*THIS PROPOSAL SUBJECT TO ALL PROVISIONS OF THE CONTRACT AND WARRANTY ON REVERSE SIDE*

**ACCEPTED:**

*Respectfully submitted,*  
**ZIEGLER INC.**

By

Doug Eckerman, Sales Engineer

By

Subject to approval by

**APPROVED:**

**ZIEGLER INC.**

Its

By

# ***BILL OF MATERIAL***

## ***EPG197673***

**- 1 -**

### **One (1) Emergency Standby Generator Set, Rated 70KW Standby, 480 Volts, 3 ph, 60 Hz, 1800 RPM**

#### **ENGINE SPECIFICATIONS**

Meets EPA Regulations  
Electronic governor  
Oil filter, spin-on type  
Radiator cooling system, blower fan  
Water pump  
12V. DC starting system  
Jacket water heater, 120 volt, 1500 watt  
Alternator, 95 ampere, 12 VDC  
Fuel system: Natural gas

#### **STANDARD ENGINE SAFETY FEATURES**

Shutdowns with individual warning lamps  
Fail to start / overcrank  
High coolant temperature  
Low lube oil pressure  
Over-speed  
Over-voltage

#### **GENERATOR SPECIFICATIONS**

Class H insulation, rotor and stator, single bearing design  
Flexible coupling  
Brushless PMG excitation  
Solid-state regulator, +/- .5% regulation  
One (1) 125 amp UL mainline circuit breaker with Shunt trip and Aux position contact

#### **SYSTEM CONTROLS**

H100 - TWO FOUR LINE LCD DISPLAYS READ:

- Voltage (all phases) • Current (all phases)
  - Power factor • kW
  - kVAR
  - Transfer switch status
  - Engine speed
  - Low fuel pressure
  - Run hours
  - Service reminders
  - Fault history
  - Oil pressure
  - Coolant temperature
  - Time and date
  - Low oil pressure shutdown
  - High coolant temperature shutdown
  - Overvoltage
  - Overspeed
  - Low coolant level
  - Low coolant level
  - Not in auto position (flashing light)
  - Exercise speed
- Protection
- Fail to start shutdown
  - Low oil pressure shutdown
  - Low/High battery voltage
  - Battery charger failure
  - Underspeed/Overspeed
  - Loss of engine speed detection
- I<sup>2</sup>T function for alternator protection from line to neutral and line to line short circuits
  - Emergency stop

# ***BILL OF MATERIAL***

***EPG197673***

***-2 -***

- Programmable auto crank function
- 2 wire start for any transfer switch
- Adjustable engine speed at exerciser
- RS232 port for GenLink® control
- RS485 port remote communication
- Canbus addressable
- Governor controller and voltage regulator are built into the master control board
- Temperature range -40 °C to 70 °C

## **ENCLOSURE**

Level 2 Sound Attenuated Insulated  
Color - white  
Lockable access doors all keyed the same  
Silencer mounted inside of enclosure

## **SWITCHGEAR**

One (1) ASCO 300 Series open transition automatic transfer switch  
Non service entrance rated  
800 amp, 3 pole, Nema 1, 480 volt  
Exerciser  
In phase monitor

## **ANCILLARY EQUIPMENT**

Battery charger, 10 ampere, float type, generator mounted  
90 Amp Hr Battery, with battery rack and cables  
Exhaust silencer,  
3X8 Alarm Relay Panel – Surface Mounted  
Generator Running Relay  
Two (2) year, 1000 hour, warranty

## **PROJECT MANAGEMENT SERVICES**

Submittal drawings  
Dimensional drawings  
Electrical schematics  
Product specifications  
Prototype testing  
Production testing  
Technical assistance - coordinated through Ziegler project manager  
Jobsite testing  
Operation and maintenance manual  
Engine, generator  
Training of owner's personnel - at the time of jobsite testing and start-up

## **COMMENTS AND CLARIFICATIONS**

Concrete pad not included  
Crane generator from delivery truck not included  
Electrical & mechanical installation not included

## **NOTES**

Ziegler limits the scope of supply for this quotation to the equipment and services listed. Equipment not listed is assumed to be provided by others.  
Orders are subject to re-stocking charges if cancelled after release for production.  
State and local permits for fire, air, fuel tanks or building permits are not included and provided by others.

## ***BILL OF MATERIAL***

***EPG197673***

**- 3 -**

### **TERMS:**

Extension of contract beyond term must be at the mutual agreement of the parties.  
Ziegler Inc. shall not be liable for consequential damages or damages beyond our control.  
This quotation is subject to availability at time of order  
Customer is responsible for adequate site conditions and security.  
Customer is responsible for scheduled maintenance and fuel costs.  
Customer must provide adequate insurance to cover equipment damage or loss.  
Price(s) do not include state or local sales and/or use taxes.  
Quotation is valid for 90 days.

### **PROVISIONS OF THE CONTRACT AND WARRANTY**

The prices quoted are current and are subject to change to those in effect at the time of shipment. Caterpillar products are sold subject to the terms of the applicable Caterpillar warranty. Copies of the warranties applicable to this purchase are attached hereto, and the purchaser by signing this order acknowledges receipt of the Caterpillar warranties on Forms.

The Purchaser agrees to pay any and all taxes, assessments, licenses, and government charges of every kind and nature whatsoever upon said equipment which may be imposed or assessed against or resulting to the Seller on account of the possession or use of said equipment by Purchaser. All provisions hereof are contingent upon government restrictions, strikes, accidents, delays of carrier and other delays unavoidable and beyond Seller's control.

It is intended and understood that title and ownership of said equipment is and shall remain vested in the Seller, notwithstanding delivery or possession, until the entire price is paid in full.

# OLYMPIAN™

G70LG 70kW

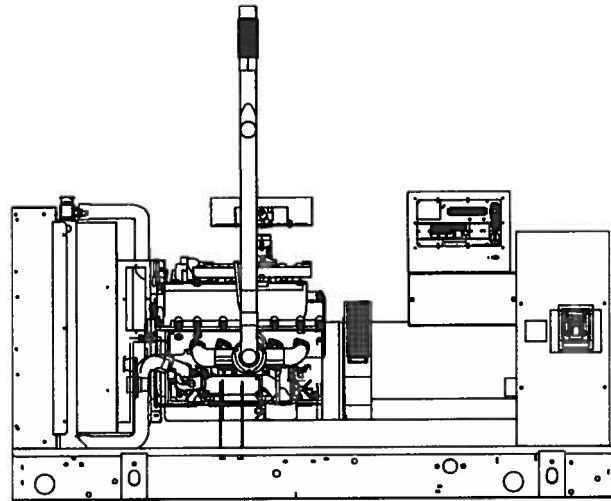
## G70LG

### Industrial Gaseous Generator Set

EPA Certified Stationary Emergency

1 of 1

Standby Power Rating  
88kVA 70kW 60 Hz



Generator image used for illustration purposes only

## features

## benefits

### Generator Set

- PROTOTYPE & TORSIONALLY TESTED
- UL2200 TESTED
- RHINOCOAT PAINT SYSTEM
- WIDE RANGE OF ENCLOSURES
- ▶ PROVIDES A PROVEN UNIT
- ▶ ENSURES A QUALITY PRODUCT
- ▶ IMPROVES RESISTANCE TO ELEMENTS
- ▶ PROVIDES A SINGLE SOURCE SOLUTION

### Engine

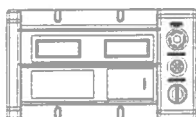
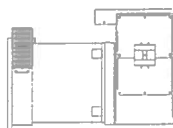
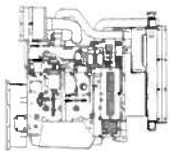
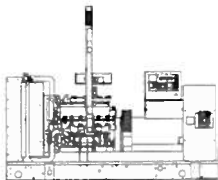
- EPA COMPLIANT
- INDUSTRIAL TESTED
- POWER-MATCHED OUTPUT
- INDUSTRIAL GRADE
- ▶ ENVIRONMENTALLY FRIENDLY
- ▶ ENSURES INDUSTRIAL STANDARDS
- ▶ ENGINEERED FOR PERFORMANCE
- ▶ IMPROVES LONGEVITY AND RELIABILITY

### Alternator

- TWO-THIRDS PITCH
- LAYER WOUND ROTOR & STATOR
- CLASS H MATERIALS
- DIGITAL 3-PHASE VOLTAGE CONTROL
- ▶ ELIMINATES HARMFUL 3RD HARMONIC
- ▶ IMPROVES COOLING
- ▶ HEAT TOLERANT DESIGN
- ▶ FAST AND ACCURATE RESPONSE

### Controls

- ENCAPSULATED BOARD W/ SEALED HARNESS
- 4-20mA VOLTAGE-TO-CURRENT SENSORS
- SURFACE-MOUNT TECHNOLOGY
- ADVANCED DIAGNOSTICS & COMMUNICATIONS
- ▶ EASY, AFFORDABLE REPLACEMENT
- ▶ NOISE RESISTANT 24/7 MONITORING
- ▶ PROVIDES VIBRATION RESISTANCE
- ▶ HARDENED RELIABILITY



primary codes and standards





### ENGINE SPECIFICATIONS

#### General

EPA Emissions Compliance	Stationary Emergency
EPA Emissions Engine Reference	See Emissions Data Sheet
Cylinder #	10
Type	V
Displacement - L (Cu. In.)	6.8 (414.96)
Bore - mm (in.)	90.17 (3.55)
Stroke - mm (in.)	105.92 (4.17)
Compression Ratio	9:1
Intake Air Method	Naturally Aspirated
Number of Main Bearings	7
Connecting Rods	Forged
Cylinder Head	Aluminum
Cylinder Liners	No
Ignition	High Energy
Pistons	Aluminum Alloy
Crankshaft	Steel
Lifter Type	Overhead Cam
Intake Valve Material	Steel Alloy
Exhaust Valve Material	Steel Alloy
Hardened Valve Seats	Yes

#### Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full-flow spin-on cartridge
Crankcase Capacity - L (qts)	5.7 (6)

#### Cooling System

Cooling System Type	Pressurized Closed
Water Pump Flow	38 gal/min
Fan Type	Pusher
Fan Speed (rpm)	2300
Fan Diameter mm (in.)	558 (22)
Coolant Heater Wattage	1500
Coolant Heater Standard Voltage	120V

#### Fuel System

Fuel Type	Natural Gas, Propane
Carburetor	Down Draft
Secondary Fuel Regulator	Standard
Fuel Shut Off Solenoid	Standard
Operating Fuel Pressure	11" - 14" H2O

#### Engine Electrical System

System Voltage	12VDC
Battery Charging Alternator (Amps)	30
Battery Size	925CCA
Battery Group	31
Battery Voltage	12VDC
Ground Polarity	Negative

### ALTERNATOR SPECIFICATIONS

Standard Model	390mm
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5%
Telephone Interference Factor (TIF)	<50
Standard Excitation	Brushless
Bearings	Sealed Ball
Coupling	Flexible Disc
Load Capacity - Standby	100%
Prototype Short Circuit Test	Yes

Voltage Regulator Type	Full Digital
Number of Sensed Phases	3
Regulation Accuracy (Steady State)	+/- 0.25%

#### Engine Governing

Governor	Electronic
Frequency Regulation (Steady State)	+/- 0.25%

### CODES AND STANDARDS COMPLIANCE (WHERE APPLICABLE)

NFPA 99	BS5514
NFPA 110	SAE J1349
ISO 8528-5	DIN6271
ISO 1708A.5	IEEE C62.41 TESTING
ISO 3046	NEMA ICS 1

#### Rating Definitions:

Standby – Applicable for a varying emergency load for the duration of a utility power outage with no overload capability. (Max. load factor = 70%)

## G70LG

## operating data (60Hz)

### POWER RATINGS (kW)

	Natural Gas		Propane Vapor	
	Rating	Amps	Rating	Amps
Single-Phase 120/240VAC @1.0pf	64	267	67	279
Three-Phase 120/208VAC @0.8pf	67	232	70	243
Three-Phase 120/240VAC @0.8pf	67	201	70	210
Three-Phase 277/480VAC @0.8pf	67	101	70	105
Three-Phase 346/600VAC @0.8pf	67	81	70	84

### STARTING CAPABILITIES (sKVA)

		sKVA vs. Voltage Dip											
		480VAC						208/240VAC					
Alternator	kW	10%	15%	20%	25%	30%	35%	10%	15%	20%	25%	30%	35%
Standard	70	59	88	117	147	176	205	44	66	88	110	132	154
Upsize 1	100	79	118	157	197	236	275	59	89	118	148	177	206

### FUEL

#### Fuel Consumption Rates\*\*

Natural Gas			Propane Vapor			
Percent Load	ft <sup>3</sup> /hr	m <sup>3</sup> /hr	Percent Load	ft <sup>3</sup> /hr	gal/hr	m <sup>3</sup> /hr
25%	335	9.5	25%	139	3.8	3.9
50%	550	15.6	50%	228	6.3	6.5
75%	730	20.7	75%	302	8.3	8.5
100%	985	27.9	100%	408	11.2	11.6

\*\* Refer to "Emissions Data Sheet" for maximum fuel flow for EPA and SCAQMD permitting purposes.

### COOLING

		STANDBY
Air Flow (inlet air combustion and radiator)	ft <sup>3</sup> /min (m <sup>3</sup> /min)	5813 (164.6)
System Coolant Capacity	Gal (Liters)	6.3 (23.9)
Heat Rejection to Coolant	BTU/hr	275,800
Max. Operating Air Temp on Radiator	°F (°C)	122 (50)
Max. Ambient Temperature	°F (°C)	104 (40)
Maximum Radiator Backpressure	in H <sub>2</sub> O	1.50

### COMBUSTION AIR REQUIREMENTS

		STANDBY
Flow at Rated Power	cfm	213

### ENGINE

		STANDBY
Rated Engine Speed	rpm	1800
Horsepower at Rated kW***	hp	107
Piston Speed	ft/min	1251
BMEP	psi	118.7

\*\*\* Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

### EXHAUST

		STANDBY
Exhaust Flow (Rated Output)	cfm (m <sup>3</sup> /min)	679.5 (19.2)
Maximum Recommended Back Pressure	inHg	1.5
Exhaust Temp (Rated Output)	°F (°C)	1250 (676.7)

G70LG

standard features and options

GENERATOR SET

- Genset Vibration Isolation Std
- IBC Seismic Certified/Seismic Rated Vibration Isolators Opt
- Steel Enclosure Opt
- Aluminum Enclosure Opt
- Enclosure Lighting Kits Opt

ENGINE SYSTEM

General

- Oil Drain Extension Std
- Oil Heater Opt
- Critical Exhaust Silencer (Enclosed Sets) Opt
- Stainless steel flexible exhaust connection Std
- Air cleaner Std
- Fan guard Std
- Radiator duct adapter Std

Fuel System

- Fuel lockoff solenoid Std
- Secondary Fuel Regulator Std
- Flexible fuel lines Opt
- Automatic Gaseous Dual Fuel Opt

Cooling System

- 120VAC Coolant Heater Std
- 208VAC Coolant Heater Opt
- 240VAC Coolant Heater Opt
- Other Coolant Heater Opt
- Closed Coolant Recovery System Std
- UV/Ozone resistant hoses Std
- Factory-Installed Radiator Std
- Radiator Drain Extension Std

Engine Electrical System

- Battery charging alternator Std
- Battery cables Std
- Battery tray Std
- Battery heater Opt
- Solenoid activated starter motor Std
- 2.5A UL battery charger Opt
- 10A UL float/equalize battery charger Opt
- Rubber-booted engine electrical connections Std

ALTERNATOR SYSTEM

- UL2200 GENprotect™ Std
- Main Line Circuit Breaker Opt
- 2nd Circuit Breaker Opt
- 3rd Circuit Breaker Opt
- Alternator Upsizing Opt
- Anti-Condensation Heater Opt
- Tropical coating Opt
- Permanent Magnet Generator Opt

CONTROL SYSTEM

Control Panel

- Digital H-Panel Controller Std
- Programmable Crank Limiter Std
- Programmable Crank Limiter Std
- 21-Light Remote Annunciator Opt
- Remote Relay Panel (8 or 16) Opt
- 7-Day Programmable Exerciser Std
- Special Applications Programmable PLC Std
- RS-485 Communications Std
- All-Phase Sensing DVR Std
- Full System Status Std
- 2-Wire Start Compatible Std
- Power Output (kW) Std
- Power Factor Std
- Reactive Power Std
- All phase AC Voltage Std
- All phase Currents Std
- Oil Pressure Std
- Coolant Temperature Std
- Coolant Level Std
- Oil Temperature Opt
- Low Fuel Pressure Std
- Engine Speed Std
- Battery Voltage Std
- Frequency Std
- Date/Time Fault History (Event Log) Std
- Low-Speed Exercise Opt
- Isochronous Governor Control Std
- -40deg C - 70deg C Operation Std
- Waterproof Plug-In Connectors Std
- Audible Alarms and Shutdowns Std
- Not in Auto (Flashing Light) Std
- Auto/Off/Manual Switch Std
- E-Stop (Red Mushroom-Type) Std
- Remote E-Stop (Break Glass-Type, Surface Mount) Opt
- Remote E-Stop (Red Mushroom-Type, Surface Mount) Opt
- Remote E-Stop (Red Mushroom-Type, Flush Mount) Opt
- NFPA 110 Level I and II (Programmable) Std
- Remote Communication - RS232 Std
- Remote Communication - Modem Opt
- Remote Communication - Ethernet Opt
- 10A Run Relay Opt

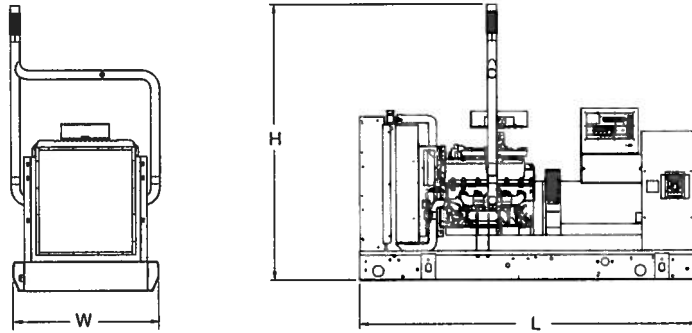
Alarms (Programmable Tolerances, Pre-Alarms and Shutdowns)

- Oil Pressure (Pre-programmed Low Pressure Shutdown) Std
- Coolant Temperature (Pre-programmed High Temp Shutdown) Std
- Coolant Level (Pre-programmed Low Level Shutdown) Std
- Oil Temperature Opt
- Engine Speed (Pre-programmed Overspeed Shutdown) Std
- Voltage (Pre-programmed Overvoltage Shutdown) Std
- Battery Voltage Std

01/15/17 10:11 AM

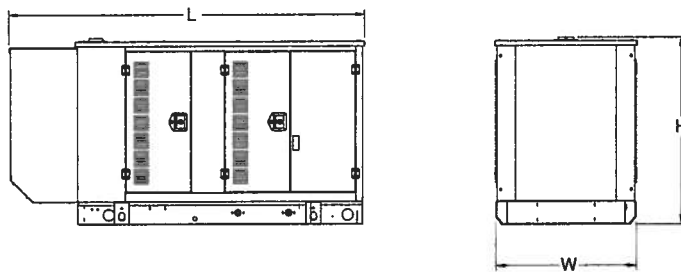
## G70LG

## dimensions, weights and sound levels



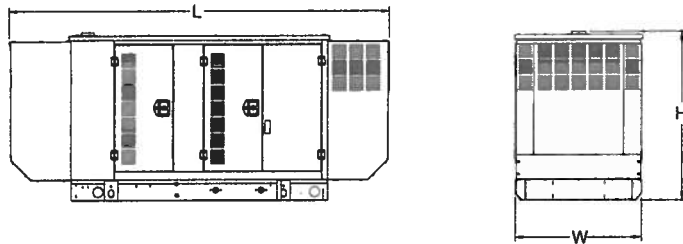
### OPEN SET (Includes Exhaust Flex)

L	W	H	WT	dBA*
93	40	75	1930	85



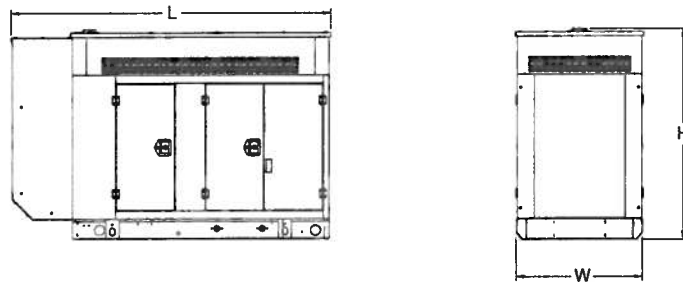
### STANDARD ENCLOSURE

L	W	H	WT	dBA*
112	41	55	2371	78



### LEVEL 1 ACOUSTIC ENCLOSURE

L	W	H	WT	dBA*
129	41	55	2591	74



### LEVEL 2 ACOUSTIC ENCLOSURE

L	W	H	WT	dBA*
112	41	68	2812	71

\* All measurements are approximate and for estimation purposes only. Sound levels measured at 23ft (7m) and does not account for ambient site conditions.

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Cat® Dealer for detailed installation drawings.

Information contained in this publication may be considered confidential. Discretion is recommended when distributing. Materials and specifications are subject to change without notice. CAT, CATERPILLAR, their respective logos, OLYMPIAN, "Caterpillar Yellow", the "Power Edge" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

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COMMUNICATIONS  
FEBRUARY 2, 2015

1. Mountain Iron Senior Citizens, a thank you for the contribution to their Christmas Party.
2. Saint Louis County, a letter seeking input in the Development of an Aquatic Invasive Species Plan.

"Thank You" for the  
generous donation to  
our Christmas Party.

Mt. Iron Senior  
Citizens Club.



# Saint Louis County

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[www.stlouiscountymn.gov](http://www.stlouiscountymn.gov)

**Barbara Hayden**  
Director

**TO:** Cities, Towns and Other Interested Parties

**FROM:** Barbara Hayden, Director *BHH*

**DATE:** January 16, 2015

**RE:** St. Louis County Seeks Input in Developing Aquatic Invasive Species (AIS) Plan

Beginning in 2015, St. Louis County will directly participate in efforts to prevent the introduction or limit the spread of aquatic invasive species (AIS) at water access sites throughout the county. MN Statute 477A.19 has established the Aquatic Invasive Species Prevention Aid Program, through which funding is provided to Minnesota counties to participate in AIS control and prevention activities.

Counties are allocated AIS funds based on a formula that factors each county's share of watercraft trailer launches and watercraft trailer parking spaces. Of Minnesota's 87 counties, St. Louis County has the 2<sup>nd</sup> highest number of watercraft trailer launches (166) and the highest number of watercraft trailer parking spaces (1,173). St. Louis County's share of funding totaled \$305,356 for 2014 and \$680,790 for 2015.

Aquatic invasive species (AIS) disrupt the health of water bodies, and pose a myriad of threats to natural, cultural, and recreational resources of the region. Key AIS species of concern to St. Louis County include zebra and quagga mussels, New Zealand mudsnail, viral hemorrhagic septicemia (VHS), round and tubenose gobies, Eurasian ruffe, faucet snail, mystery snail, spiny water flea, Eurasian watermilfoil, purple loosestrife, and rusty crayfish.

St. Louis County, with assistance from Minnesota Sea Grant, will develop a 2015 AIS Plan to determine objectives and goals, and to develop a process for allocating funds to organizations that will participate in AIS research, control, prevention, and education activities. Eligible organizations include joint powers boards, political subdivisions, soil and water conservation districts, watershed districts, or lake associations. Funded organizations must meet minimum county contract requirements including financial controls, record keeping, insurance, and any required workers compensation.

Two informational meetings have been scheduled. The public is invited to learn about the county's AIS program and to participate in the process of developing the county's AIS plan. Following are meeting dates and a tentative agenda:

**Meeting Option #1**

**Tuesday, February 3, 2015**

**12:30-4:30 p.m.**

**Public Safety Building Training Room**

**2030 N. Arlington Avenue, Duluth**

**Meeting Option #2**

**Wednesday, February 4, 2015**

**12:30-4:30 p.m.**

**Mountain Iron Community Center**

**8586 Enterprise Dr. S., Mountain Iron**

**Please RSVP by Thursday, January 29, to Marte Kitson ([mkitson@d.umn.edu](mailto:mkitson@d.umn.edu), 218-726-8305) so we can have enough seats and materials for everyone. *Remember to indicate which meeting you plan to attend.***



## **Agenda**

**Overall Goal:** Develop a comprehensive AIS plan intended to meet the needs for St. Louis County.

**Meeting Objectives:**

- Introduce stakeholders to one another and to the process for the meetings.
- Discuss and prioritize AIS threats and issues specific to St. Louis County.

12:30-12:50 Welcome and introductions

12:50-1:00 Background on County Prevention Aid (who, what, where, when, why)

1:00-1:15 Overview of AIS in St. Louis County (what, how, where, who, impacts/threats)

1:15-1:30 County Prevention Aid and Goals for St. Louis County AIS Plan

- Plan Goals:
  - Prevent the spread of AIS
  - Desire to coordinate plan activities with nearby counties
  - Implement state plan objectives

1:30-1:45 Break

1:45-2:15 Introduction to plan framework and model plans

2:15-3:00 Plan development for St. Louis County (working groups)

- Task: Discuss and prioritize AIS threats and issues specific to St. Louis County as relevant to sections of the model plans

3:00-3:45 Reconvene to review work group drafts

3:45-4:00 Discuss further needs and gaps

4:00-4:30 Recap, tasks, and next steps

4:30 Adjourn

For more information, contact Marte Kitson ([mkitson@d.umn.edu](mailto:mkitson@d.umn.edu), 218-726-8305) or visit St. Louis County's AIS web page at <https://www.stlouiscountymn.gov/ais>