ROBINSON & COLE LLP

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June 9, 2003

Via Hand Delivery

EM-VER-141-030609

S. Derek Phelps
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: Notice of Exempt Modification
61 Lowell Davis Road
Thompson, Connecticut

Dear Mr. Phelps:

On March 26, 2003, Cellco Partnership d/b/a Verizon Wireless' ("Cellco") received Siting Council approval (EM-VER-141-030317) to modify its existing antenna configuration on the Charter Cable tower at 61 Lowell Davis Road in Thompson, Connecticut. Cellco now intends to install a permanent pad-mounted back-up generator at this site. A temporary generator currently at the site will be removed. The new generator will be located within Cellco's fenced enclosure. The fence line will be extended to accommodate the generator. Attached is a copy of a site plan and the specifications for the proposed generator.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j 72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to the Thompson First Selectman, Douglas J. Williams.

The planned generator installation at the Lowell Davis Road facility falls squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed installation will not increase the overall height of the existing tower.

2. The installation of Cellco's generator will require an extension of the compound fence but not the overall (26+ acre) facility boundaries.

3. The proposed generator installation will not increase the noise levels at the facility by six decibels or more.

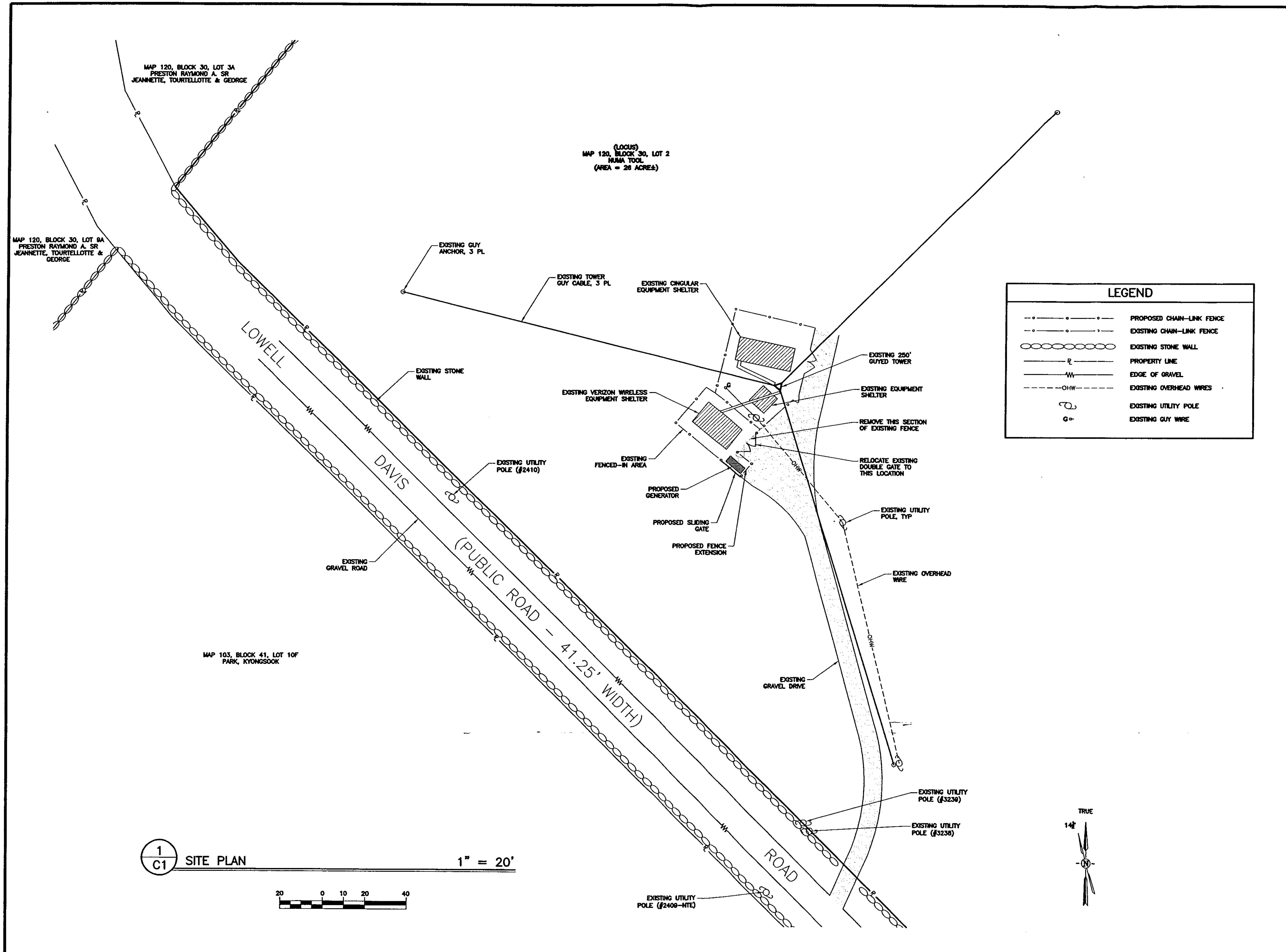
4. The installation of the generator will not increase radio frequency (RF) power density levels at the facility to a level at or above the Federal Communications Commission (FCC) adopted safety standard. The worst-case power density calculation for Cellco's antennas will not change. Therefore, power density calculations are not included as part of this submittal.

For the foregoing reasons, Cellco respectfully submits that the proposed installation of its generator at the Thompson facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

Kenneth C. Baldwin

KCB:cag
Attachments
cc: Douglas J. Williams, Thompson First Selectman
Sandy M. Carter



PREPARED FOR:
verizon wireless
99 EAST RIVER DRIVE
EAST HARTFORD, CT 06108

PREPARED BY:
Bergman & Associates, Inc.
20 WASHINGTON STREET
HAVERHILL, MA 01832-5524
(978) 372-1125 TEL
(978) 372-1130 FAX

SITE PLAN

REV	DATE	DESCRIPTION
1	9 JUN 2003	FINAL DRAWINGS

STATE OF CONNECTICUT · PAUL A. BERGMAN · LICENSED PROFESSIONAL ENGINEER

REGISTERED ENGINEER

DRAWN BY: H. NGUYEN

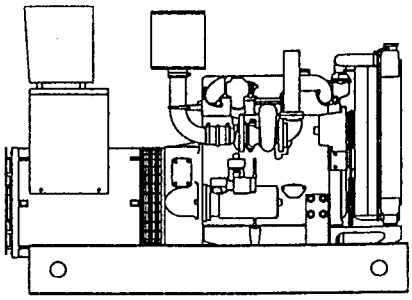
CHECKED BY: P. BERGMAN

BRANDY HILL
THOMPSON, CT

C1

#1094 SHEET 1 OF 1

KATOLIGHT® *Diesel* 60 KW
Engine Generator Sets
60 Hz
50 KW
50 Hz
Water Cooled



Model Selection / Rating Chart

*RATINGS & CHARACTERISTICS				STANDBY		PRIME	
Model No.	Hz.	Phase	Volts	kVA	kW	kVA	kW
	1800 RPM			60 Hz.		60 Hz.	
D60FRP4	60	3	277/480	75	60	67.5	54
D60FPP4	60	3	120/208	75	60	67.5	54
D60FJP4	60	3	120/240	75	60	67.5	54
D60FNP4	60	3	347/600	75	60	67.5	54
D60FGP4	60	1 (12W)	120/240	60	60	54	54
D60FDP4	60	1 (4W)	120/240	60	60	54	54
	1500 RPM			50 Hz.		50 Hz.	
D50FRP5	50	3	220/380	62.5	50	56.25	45
D50FPP5	50	3	110/190	62.5	50	56.25	45
D50FJP5	50	3	110/220	62.5	50	56.25	45
D50FGP5	50	1 (12W)	110/220	50	50	45	45
D50FDP5	50	1 (4W)	110/220	50	50	45	45

** 3-Phase is 0.8 Power Factor Rated, 1-Phase is 1.0 Power Factor Rated.*

Deration

ALTITUDE:
Derate 2.5% per 1,000 ft (305 m) above 1,000 ft (305 m)

TEMPERATURE:
Derate 2.5% per 18°F (2.5% per 10°C) above 100°F (38°C)

General Specifications

ENGINE:
TYPE: Inline Multicylinder, Turbocharged, 16:1 Compression Ratio
CYCLE: 4
CYLINDER: 4

BORE:	in.	(cm)	3.88	(9.8)
STROKE:	in.	(cm)	5.0	(12.7)
DISPLACEMENT:	in³	(lit)	236	(3.86)
BMEP:	psi	(kPa)	174	(1,200)

	1800 RPM	1500 RPM
Hp:	93	78
kW:	70	58
ASPIRATING: cfm (m³/min)	170 (4.81)	142 (4.02)
FUEL CONSUMPTION: gal/hr (lit/hr)	4.5 (17)	3.8 (14.4)

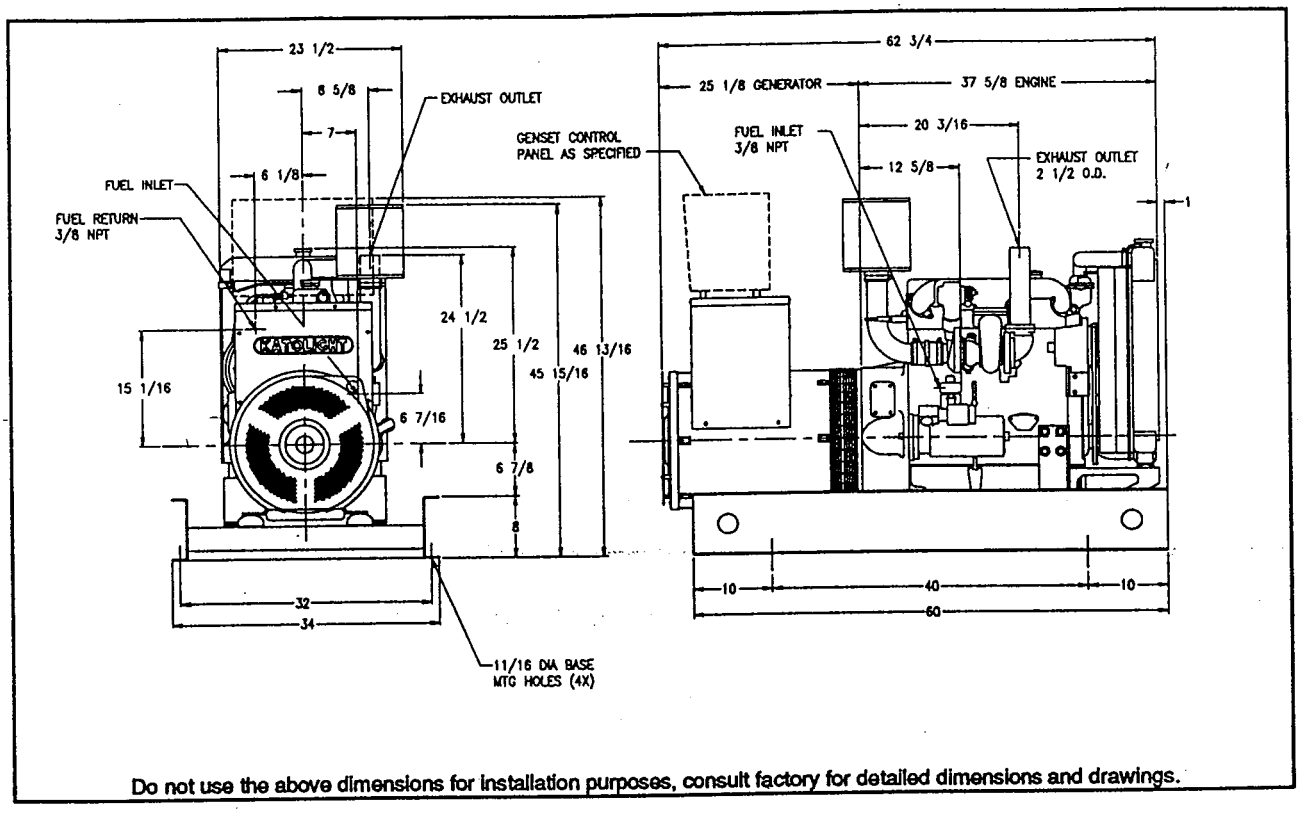
GENERATOR:
TYPE: Revolving Field-Brushless-Direct Connected - 4 or 12 wire
CONSTRUCTION: Single Bearing-Close Coupled
REGULATION: Static Regulator Maintains 1% of Rated Voltage
INSULATION: Class H (dipped and baked)
CONNECTION: WYE, DELTA, or Single Phase
AMBIENT TEMPERATURE: 104°F (40°C)

Installation Facts *

				60 Hz Standby		50 Hz Standby	
DIMENSION & WEIGHT							
•Length	in. (cm)	64	(163)				
•Width	in. (cm)	34	(86)				
•Height	in. (cm)	47	(119)				
•Dry Weight*	lb. (kg)	1,380	(626)				
LIQUID CAPACITY							
•Oil Sump	gal (lit)	2.1	(8.1)				
•Engine Jacket Water Capacity	gal (lit)	2.0	(7.6)				
•System Coolant Capacity	gal (lit)	5.0	(19.0)				
ELECTRICAL SYSTEM							
•Electric Volt DC		12					
•Cold Cranking Amps 10 °F (-12 °C)		800					
EXHAUST SYSTEM							
•Gas Temperature (Stack)	°F (°C)			1,040	(560)	1,085	(585)
•Gas Volume at Stack Temp.	CFM (m³/min)			459	(13)	396	(11.2)
•Maximum Allowable Back Pressure	in. H_2O (mmHg)			40.8	(76.2)	40.8	(76.2)
COOLING SYSTEM							
•Ambient capability of radiator	°F (°C)			122	(50)	122	(50)
•Maximum allowable static pressure on radiator exhaust	in. H_2O (mmHg)			0.5	(.93)	0.5	(.93)
•Heat rejection to coolant	BTUM (kW)			2,644	(46.5)	2,246	(39.5)
•Water Pump Capacity	gpm (lit/min)			29.3	(111)	24.4	(92.3)
•Heat radiated to ambient	BTUM (kW)			1,544	(27)	1,450	(25.4)
AIR REQUIREMENTS							
•Air flow required for radiator cooled unit	cfm (m³/min)			6,955	(197)	5,935	(168)
•Air flow required for heat exchanger/remote radiator based on 20 °F rise	cfm (m³/min)			4,289	(122)	4,028	(114)

*Installation data based on 480 volt application and open power unit

60 kW, Diesel, Water Cooled



Do not use the above dimensions for installation purposes, consult factory for detailed dimensions and drawings.

Design & Performance

- Katolight Generator manufactured to meet NEMA-MG-1-22.40 and CSA standards.
- Engine and generator controls are designed and manufactured by Katolight.
- Telephone influence factor is well within NEMA standards.
- Wave form deviation factor is no more than 5%, well within NEMA standards.
- Voltage Regulation - Standard static regulators will keep voltage within 1% of rated voltage.
- Harmonic Content is 3% maximum.
- Permanently lubricated, ball type bearings are used.

Standard Equipment

- A.C. Generator - brushless single bearing
- ENGINE - T4.236 equipped with: fuel pump - fuel filter - lube oil pump - full flow lube oil filter - lube oil cooler - jacket water pump - thermostat - air filter - exhaust manifold - 12 volt electric starting motor and 12 volt charging alternator with ammeter - Mechanical Governor 3-5%
- Control Panel - unit mounted: AC voltmeter - AC ammeter- 4 position VM-AM selector switch - frequency meter - KASSEC auto engine control with cyclic cranking, 4 engine shutdowns (high temperature, low oil pressure, engine overspeed, engine overcrank) with separate failure lights - engine gauges (4) - 3 position mode switch.
- Steel sub-base
- Vibration isolators - pad type
- Battery box and cables
- Flexible fuel and exhaust connectors
- Complete factory test

Optional Accessories

- Special Voltages up to 600 volts AC.
- Frequency: 50, 60, 400 Hz.
- Special array of temperature rise (80°, 105° and 130 °C) generators available; meeting NEMA-MG-1-22.84 standards.
- Custom designed control systems -- Special metering -- Bussing -- Switch gear.
- Cooling -- Remote radiator/hotwell tank -- Heat exchangers
- Fuel systems -- Valves -- Tanks -- Controls
- Batteries -- Lead acid -- Lead calcium -- Nickel cadmium
- Enclosures -- Weather resistant -- Thermal insulated -- Sound attenuated
- Custom designed trailer mounting
- Precision governing with electronic systems.
- Vibration isolators -- spring type
- Voltage selector switches

Material and Specifications May Change Without Notice.

KATOLIGHT CORPORATION
3201 Third Avenue
P. O. Box 3229
Mankato, Minnesota 56002-3229
Phone: (507) 625-7973 FAX: (507) 625-2968

For more information contact your nearest Representative, Distributor, or Dealer below: