EM-NEXTEL-015-060816

ORIGINAL

August 1, 2006

Colin C. Tait, Esq.
Chairperson
Connecticut Siting Council
10 Franklin square
New Britain Connecticut 06051

Re: Notice of Exempt Modification
Address: Chopsey Hill Road/Trumbull Avenue

Dear Mr. Tait:

Please be advised that Nextel Communication of Mid-Atlantic, Inc. proposes to modify an existing site at Chopsey Hill Road/Trumbull Avenue. Nextel is planning to install a generator on a concrete pad for emergency uses only and a new shelter.

Discussion:
The Chopsey Hill Road/Trumbull Avenue site consists of a 240 ft lattice tower within a site compound surrounded by a chain link fence. The coordinates at the site are latitude: 41-13-10, longitude: 73-12-08.

Nextel plans to install a 60 kw diesel generator on a 9 x 12 concrete pad, within the chain fenced compound. The generator will be used only during power outages and emergencies. It will be tested once a week for one half hour, at a time convenient to the landlord. The new equipment shelter 12' x 20' will replace the existing 10' x 20' equipment shelter.

The planned modification to the Chopsey Hill Road/Trumbull Avenue site is within the activities explicitly provided for in R.C.S.A. 16-50j-72(b)(2).

1. The proposed modification will not increase the height of the tower and will not extend the boundaries of the existing compound area. The enclosed tower drawings (exhibit A) confirm that the planned changes will not increase the overall height of the tower or change the dimensions of the compound.

2. The installation of Nextel equipment, as reflected on the attached site plan, will not require an extension of the site boundaries. The equipment will be located entirely within the existing compound.

208 Gilead Road
Andover, CT 06232

3. The proposed modification to the facility will not increase the noise levels at the existing facility by six decibels or more.

4. There will be no additional antennas to increase the total radio frequency power density, measured at the site boundary, to a level at or above the applicable standard.

For the foregoing reasons, Nextel respectfully submits that the proposed addition modification at the Chopsey Hill Road/Trumbull Avenue facility constitutes an exempt modification under R.C.S.A. 16-50j-72(b)(2).

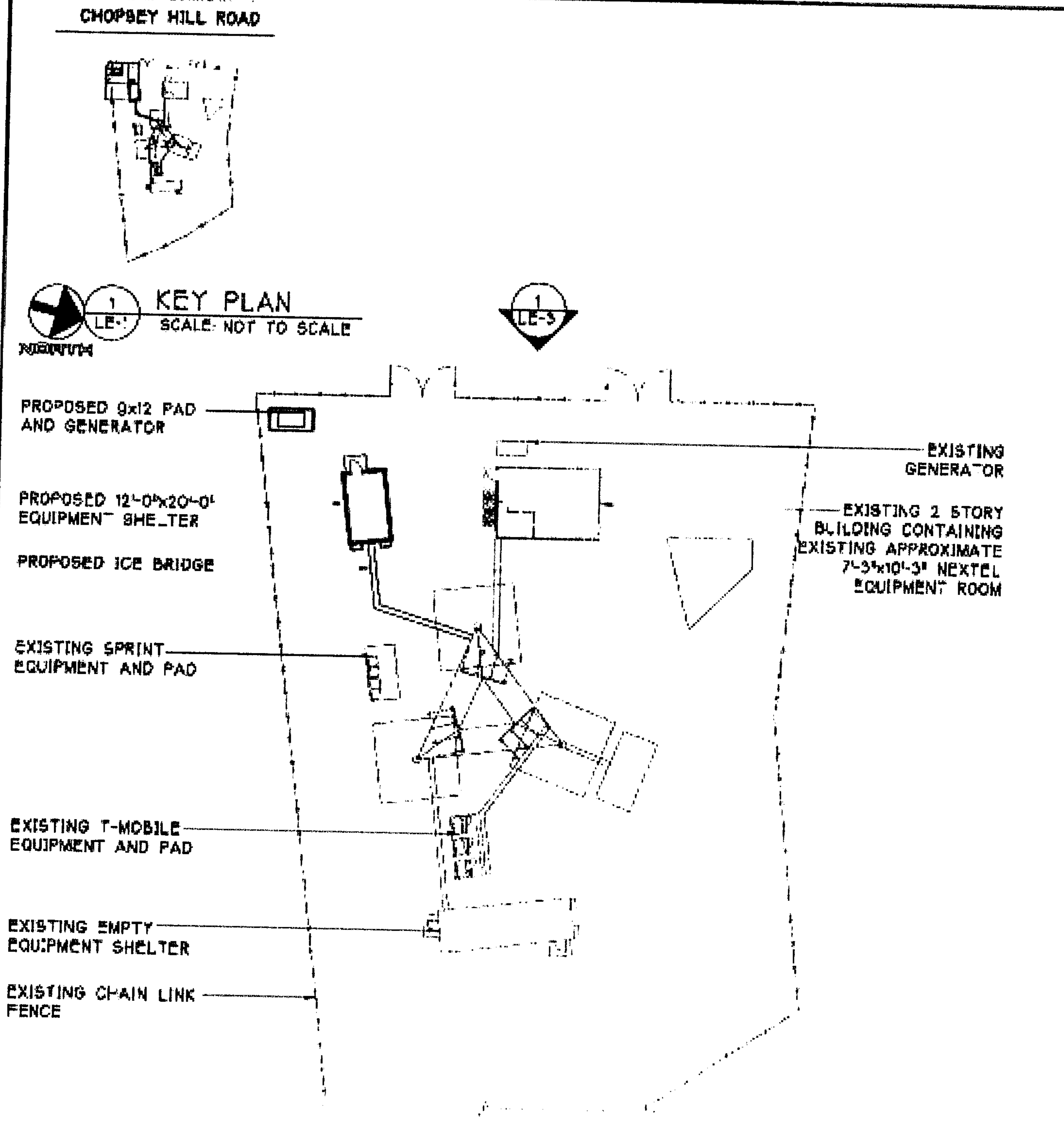
Respectfully submitted for
Nextel Communications of the Mid-Atlantic, Inc.

Marie R. Burbank

By: Marie R. Burbank
Consultant

Attachments
Cc: Mayor John Farbrizi, Mayor of Bridgeport

Exhibit A

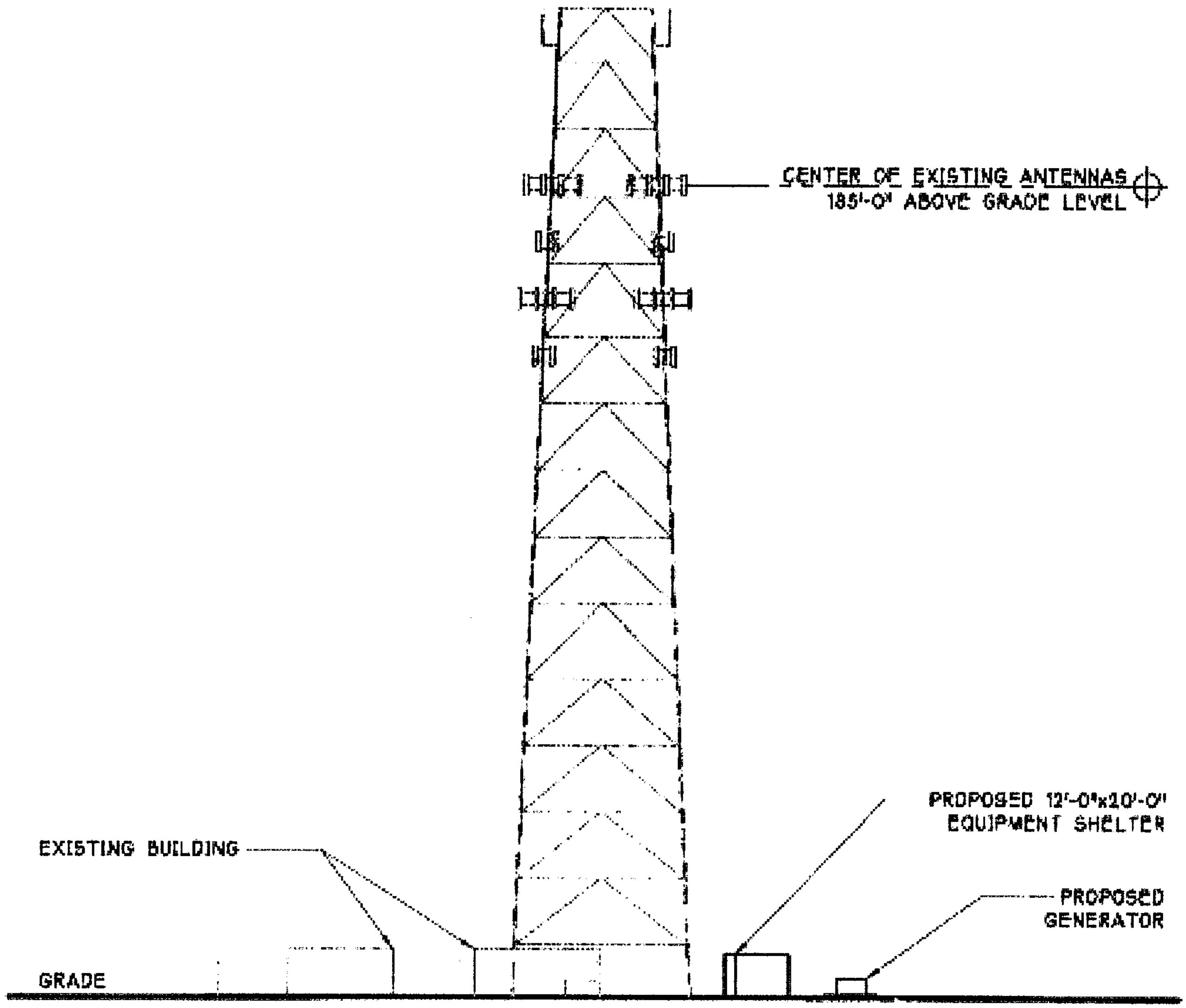


NOTES:
1. LEASE EXHIBITS SUBMITTED ARE A CONCEPTUAL DESIGN OF THE LEASE AGREEMENT ONLY. ACTUAL ARCHITECTURAL/ENGINEERING CONSTRUCTION DOCUMENTS MAY VARY TO COMPLY WITH ALL BUILDING CODES AND ANY UNFORESEEN CONDITIONS.
2. THE INFORMATION SHOWN IS TAKEN FROM A TAPE SURVEY PERFORMED BY ARCNET ARCHITECTS, INC. DURING THE SITE VISIT.
3. LOCATION SHOWN IS APPROXIMATE. FINAL LOCATION SHALL BE DETERMINED IN THE DESIGN PHASE.
4. CONSTRUCTION DRAWING SIGN-OFF BY OWNER SHALL BE SUPERCEDE LEASE EXHIBIT

ARCNET ARCHITECTS, INC.
670 North Beers Street, Building 2, Holmdel, NJ 07733
Tel: 732.739.3200 Fax: 732.739.0440

Drawing Title	KEY PLAN & SITE LAYOUT
Client	Sprint
ARCNET Project No.	12216
Drawn	PMo
Date	9/2/05
Project	BRIDGEPORT 2
Address	CHOPSEY HILL RD/TRUMBELL AVE BRIDGEPORT, CT
Site ID No.	CT1004
Approved by	CLIENT: DATE
REV1 PMo	9/7/05
Drawing No.	LE-1
Principal Review	
P.P.C. Review	MKo
Qual Ctrl Review	

Exhibit A-1



1 / LE-3 ELEVATION
SCALE: 1" = 40'-0"

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ARCNET ARCHITECTS, INC
670 North Beers Street, Building 2, Holmdel, NJ 07733
Tel: 732.739.3200 Fax: 732.739.0440

Drawing Title: ELEVATION

Client: Sprint

Project: BRIDGEPORT 2
Address: CHOPSEY HILL RD/TRUMBELL AVE
BRIDGEPORT, CT

Site ID No.: CT1004

Approved By
CLIENT: DATE:

REV1 PMa	9/7/05
Revision No.	Date

Principal Review | PM Review: MKo | QA/QC Review | ARCNET Project No.: 12256 | Drawn: PMa | Date: 9/2/05

Drawing No.: LE-3

Ingersoll Rand

Diesel Generator

S60

STANDARD FEATURES

- John Deere heavy-duty, EPA-compliant industrial diesel engine
- 12-volt electric starter and engine-driven battery-charging alternator
- Mechanical governor
- Leroy Somer high-performance, AREP-excited brushless alternator
- 40°C ambient temperature unit-mounted radiator with radiator duct adapter flange
- Integral anti-vibration engine-alternator mounts
- Dry-type, single-stage air filter
- UL main line circuit breaker
- Ingersoll-Rand Intellisys™ autostart control panel, NFPA 110 compatible
- Voltage regulation potentiometer +/-5%
- 12-volt lead acid-type cranking battery with rack and cables
- Thermostically controlled external block heater with isolation valves
- Flexible fuel lines
- External drains and valves for oil and coolant
- Flexible exhaust connection
- Owners manual
- Protective guards, shields and labeling per UL2200
- UL2200 listed

- Ingersoll-Rand provides single-source service and supply for the entire generating system and accessories.
- Ingersoll-Rand generator sets are prototype and production tested.
- Ingersoll-Rand diesel generators accept rated load in one step.
- Superior motor starting and short circuit capability achieved via the "AREP" excitation system.
- A 1-year / 1,500-hour limited warranty included.

GENERATOR RATINGS

Diesel Ratings

					Standby Rating 150°C / 40°C Rise		Prime Rating 125°C / 40°C Rise	
Alternator	**Voltage**	**Phase**	**Hertz**	**Power Factor**	**kW / kVA**	**Amps**	**kW / kVA**	**Amps**
LSA 43.2L6	346 / 600	3	60	0.8	65 / 81	79	59 / 74	71
	277 / 480	3	60	0.8	65 / 81	98	59 / 74	89
	254 / 440	3	60	0.8	62 / 78	102	58 / 73	95
	139 / 240	3	60	0.8	65 / 81	196	59 / 74	178
	127 / 220	3	60	0.8	62 / 78	203	58 / 73	190
	120 / 208	3	60	0.8	59 / 74	205	56 / 70	194
	120 / 240	3	60	0.8	59 / 74	177	56 / 70	168
LSA 43.2L8	120 / 240	1	60	1.0	49 / 49	204	44 / 44	184

Standby Rating: Applicable for supplying emergency electrical power in the event of a utility power outage, and to varying load requirement up to nameplate rating for the duration of the power outage. No overload capability is available for this rating. Ratings are in accordance with ISO3046, DIN6271 and BS5514. Prime Rating: Applicable for supplying electrical power in lieu of commercially purchased power. Prime power is the maximum power available at a variable load for an unlimited number of hours. A 10% overload capacity is available for maximum 1 hour duration within a 12-hour period. Prime ratings are in accordance with ISO8528. Overload power criteria is in accordance with ISO3046, DIN6271 and BS5514. For continuous ratings (non varying load), consult the factory. For complete rating definitions, please refer to the rating definitions guideline located in the Operations and Maintenance Manual or contact IR Energy Systems for this document.

S60 APPLICATION DATA

ENGINE DATA

Manufacturer	John Deere
Model	4045TF270
Intake Air	Turbocharged
Cylinder Arrangement	In-Line 4
Displacement, L (cu in)	4.5 (276)
Bore And Stroke, mm (in)	106 x 127 (4.19 x 5)
Compression Ratio	17.0:1
Rated rpm	1,800
Gross Engine Power Output, bhp (kWm)	99 (74)
BMEP At Rated Load, psi (kPa)	158 (1090)
Cylinder Head Material	Grey iron
Piston Type And Material	Cast aluminum
Crankshaft Material	Steel
Valve (Exhaust) Material	Steel
Governor Type	Mechanical
Frequency Regulation, No-Load To Full-Load	3 – 5%
Frequency Regulation, Steady State	+/- 1.5%
Air Cleaner Type	Dry

LUBRICATION SYSTEM

Type Of Oil Pump	Full pressure
Oil Pan Capacity, L (qt)	12.2 (13)
Oil Pan Capacity With Filter, L (qt)	13.2 (14)
Oil Filter: Quantity, Type	1, Cartridge
Oil Cooler	Water cooled
Oil Pressure Normal Operating Range At Rated rpm, kPa (psi)	345 (50)
Low Oil Pressure Pre-Alarm Setting, kPa (psi)	103 (15)
Low Oil Pressure Shutdown Setting, kPa (psi)	48 (7)

EXHAUST SYSTEM

Exhaust Flow At Rated kW, m/min (cfm)	15.8 (558)
Exhaust Temp At Rated kW, Dry Exhaust, °C (°F)	545 (1013)
Max Allowable Back Pressure, kPa (in Hg)	7.5 (2.2)
Exhaust Outlet Size Connection, mm (in)	76.2 (3.0)

FUEL SYSTEM

Recommended Fuel	#2 Diesel
Fuel Supply Line, Min ID, mm (in)	5/16" I.D. Hose – Line Length Under 10', 7/16" I.D. Hose – Line Length Over 10'
Fuel Return Line, Min ID, mm (in)	5/16" I.D. Hose – Line Length Under 10', 7/16" I.D. Hose – Line Length Over 10'
Max Lift, Engine-Driven Fuel Pump, m (ft)	.9 (3)
Max Fuel Flow, L/h (gph)	113 (29.9)
Fuel Injection Pump	Stanadyne
Fuel Prime Pump	Manual
Fuel Filter	8 Micron @ 98% Efficiency, With Integral Water Separator

ENGINE ELECTRICAL SYSTEM

Ignition System	NA
Battery-Charging Alternator	50 amps at 12 volts DC
Ground Polarity	Negative
Starter Motor Voltage (DC)	12-volt
Battery, recommended:	
Quantity, CCA, temp rating	1-12V, 640, -18°C (0°F)

OPERATING REQUIREMENTS

Air Requirements:

Combustion Air, m³/min (cfm)	6 (212)
Radiator-Cooled Cooling Air, m³/min (scfm)*	186 (6563)

Heat Rejected To Ambient Air:

Engine, kW (Btu/min)	11.1 (632)
Generator, kW (Btu/min)	6.7 (381)

* Air density = 1.20 kg/m (0.075 lbm/ft)

Site Derating Factors

Temperature:
Derate .5% per 5.5°C (10°F) temperature above 25°C (77°F)

Elevation:
Derate 5% per 500 m (1,640') elevation above 1000 m (3,281')

FUEL CONSUMPTION

Diesel, L/h (gph) at % load – Standby Rating
100% — 19.5 (5.2), 75% — 14.8 (3.9), 50% — 10.6 (2.8), 25% — 5.7 (1.5)

S60 APPLICATION DATA

COOLING SYSTEM

Type Of System	Pressurized, closed recovery
Ambient Temperature, °C (°F)	40 (104)
Coolant Temperature Normal Operating Range, °C (°F)	82 – 94 (180 – 201)
Coolant Temperature Pre-Alarm Setting, °C (°F)	107 (225)
Coolant Temperature Shutdown Setting, °C (°F)	113 (235)
Radiator System Capacity, Including Engine, L (gal)	18.9 (5)
Coolant Flow Rate, L/min (gpm)	144 (38)
Heat Rejection To Coolant At Rated kW (Btu/min)	46 (2618)
Water Pump Type	Centrifugal
Type Of Fan	Pusher
Number Of Fan Blades	8
Diameter Of Fan, mm (in)	533 (21)
Fan, kWm (hp)	2.0 (2.68)
Max Restriction Of Cooling Air, Intake And Discharge Of Radiator, kPa (in H20)	.2 (.8) Open unit
Coolant Heater	1500W, 120 VAC

CONTROL PANEL

Intellisys

- Powerful and flexible microprocessor-based digital control panel for easy genset operation
- Built-in generator and engine protection parameters with NFPA 110 capability
- Quick access to all generator and engine measurements and status
- Capable of local or remote monitoring and control of genset via dedicated RS232 port
- Large backlit LCD screen for convenient operator access and six LED status displays

ALTERNATOR SPECIFICATIONS

Manufacturer	Leroy Somer
Design	4-pole, rotating field
Exciter Type	Brushless, AREP
Stator	2/3 pitch
Rotor	Direct coupled by flexible disc
Bearing: Quantity, Type	1, sealed
Amortisseur Windings	Full
Leads: Quantity, Type	
LSA 43.2L6	12, reconnectable
LSA 43.2L8	12, reconnectable
Insulation Material	Class H per NEMA MG1
Standard Temperature Rise	150°C standby / 125°C prime
Phase Rotation	A, B, C
Total Harmonic Distortion	< 4%
Telephone Influence Factor (TIF)	< 50%
Telephone Harmonic Factor (THF)	< 2%
Voltage Regulator	R438
Voltage Regulation, No-Load To Full-Load	+/- 1.5%
Recovery Time (20% Voltage Dip) ms	500
Unbalanced Load Capability	25%
One-Step Load Acceptance	100% of rating
Peak Motor Starting kVA At 480 V, (0.6 Starting Power Factor):	
LSA 43.2L6	217 (35% voltage dip)

- Compliance with IEC 34.1/34.2 - UTE: NFC 51.111 - VDE 0530 - BS 4999 and 5000 - NEMA: MG1.22 - ISO 8528.3 - CSA.
- Generator allows as standard sustained short-circuit current of up to 300% of rated current for up to 10 seconds.
- Vacuum-impregnated windings with epoxy varnish for dependability and long life.
- Alternator is self-ventilated and IP23 drip-proof constructed.

S60

OPTIONS

Generator Set
- Oil temperature alarm – required for NFPA Level 1
- Heavy-duty air filter w/ restriction indicator
- Oil temperature shutdown
- Closed crankcase ventilation canister kit

Enclosed Unit
- Weather protective enclosure, internally mounted exhaust system
- Sound attenuated enclosure, internally mounted exhaust system

Exhaust System Open Units
- Residential silencer
- Critical silencer
- Exhaust pipe kit

Fuel System
- Flexible fuel line
- Fuel/water separator filter

Electrical System
- 3.5-amp battery charger, float
- 6-amp battery charger, float-equalize
- 6-amp battery charger, float-equalize with alarms
- 10-amp battery charger, float-equalize
- 10-amp battery charger, float-equalize with alarms
- Battery warmer
- 120-volt alternator anti-condensation heater

Control Panel
- Remote annunciator
- GenConnect monitoring and control communication system

Additional Accessories
- Automatic transfer switch
- Main line circuit breaker options
- Additional owners manuals

Service And Extended Warranty
- Trained service personnel providing IR parts, service and planned maintenance agreements
- Extended warranty

WEIGHT AND MEASUREMENTS

Open Model S60		
Weight (432-L6 model)		1125 kg (2,481 lb)
Weight (432-L8 model)		1145 kg (2,525 lb)
Overall Size – l x w x h	mm (in)	2225 (88) x 997 (39) x 1178 (46)
Weather Protected Model		
Weight (432-L6 model)		1405 kg (3,097 lb)
Weight (432-L8 model)		1425 kg (3,142 lb)
Overall Size – l x w x h	mm (in)	2879 (113) x 997 (39) x 1524 (60)
Sound Attenuated Model		
Weight (432-L6 model)		1425 kg (3,142 lb)
Weight (432-L8 model)		1445 kg (3,186 lb)
Overall Size – l x w x h	mm (in)	2879 (113) x 997 (39) x 1524 (60)

Note: All weights with coolant and oil.

Distributed by:

Ingersoll-Rand (877) IR POWER www.irenergysystems.com

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