EM-NEXTEL-119-060920

September 19, 2006

ORIGINAL

Daniel Caruso
Chairperson
Connecticut Siting Council
10 Franklin square
New Britain Connecticut 06051

Re: Notice of Exempt Modification
Address: 47 Inwood Road, Rocky Hill, CT 06067

Dear Mr. Caruso:

Please be advised that Nextel Communication of Mid-Atlantic, Inc. proposes to modify an existing site at 47 Inwood Road, Rocky Hill. Nextel is planning to replace eight existing antennas and install a generator on the existing concrete foundation.

Discussion:
The 47 Inwood Road site consists of a 180 ft monopole within a site compound surrounded by a chain link fence. The coordinates at the site are latitude: 41-38-18.9 longitude: 73-12-08.

Eight (8) existing antennas (DB844H9DE-XY) will be replaced with B4465VTZASK, sector 1 or 844G90VTA-SX, sector 3. Nextel plans to install a 60 kw diesel generator on the existing concrete foundation 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 generator will be anchored to foundation as per manufacturer's specifications.

The planned modification to the 47 Inwood Road 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.

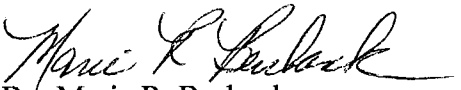
2. The installation of Nextel equipment, as reflected on the attached site plan, will not require an extension of the site boundaries. The equipment will be located entirely within the existing compound.

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 Inwood Road 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.



By: Marie R. Burbank
Consultant

Attachments
Cc: Anthony LaRosa, Mayor

Rocky Hill, CT1014 (47 Inwood Rd, Rocky Hill) - CT Siting Council Power Density Calculations

Sprint Nextel Directional Antennas ESMR - 851 MHz - CDMA 1962 MHz

Note: Power densities are in mW/ cm²

Transmitters:		Frequency in MHz	CT Standard mW/ cm²	Number of Channels	ERP (W) per channel	Centerline of Tx antennas AGL (ft.)	Power density calculated at base of tower	% of CT Standard
Sprint Nextel								
	iDEN	851	0.5673	12	100	173	0.0144101	2.5400%
	CDMA	1962	1.0000	11	411	143	0.0794585	7.9459%

** lowest Sprint Nextel antenna centerline is 179' and 149' adjusted to 173' and 143' per OET 65 Bulliten for 6' average head height.

Total % of CT Standard **10.4858%**

SpectraSite

CT-1014
9/7/2005

Level 1 Structural Evaluation [1]			
Site Number & Name	**CT-1014 Middletown** **App. ID: 109061**	**Applicant ID: CT1014 Rocky Hill**	
Site Address	47 Inwood Road Rocky Hill, CT 06067		
Tower Description	**185 ft Valmont Monopole**		
Standards & Codes [2]	ANSI/TIA/EIA-222-F (1996) **80 mph (Hartford County) w/ 0" radial ice**	1996 BOCA National Building Code **80 mph w/ 0" radial ice** **31 mph w/ ¾" radial ice**	

Table 1: Existing and Proposed Antenna Configuration

HEIGHT (ft)	ANTENNA MODEL & MOUNT TYPE	CARRIER	COAX SIZE	[I]/[O] [a]	STATUS
180	**(12) DECIBEL DB844H90E-XY** **on Platform w/Handrails**	**Nextel**	**(12) 1-5/8"**	**I**	**Remove Existing**
180	**(4) DECIBEL 844G65VTZASX** **(4) DECIBEL 844G90VTA-SX** **(4) DECIBEL DB844H90E-XY** **on Platform w/Handrails**	**Nextel [b]**	**(4) 1-5/8"** **(4) 1-5/8"** **(4) 1-5/8"**	**I** **I** **I**	**Proposed Replacement**
168.5	(9) ALLGON 7184.14 (3) ALLGON 7184.14 on T-Arm Mounts	AT&T	(9) 1-5/8" (3) 1-5/8"	O O	Existing Reserved
140	(6) ALLGON 7184 on Platform w/Handrails	Sprint	(6) 1-5/8"	O	Existing
100	(1) GPS on Side Arm Mounts	Sprint	(1) 1/2"	O	Existing

[a] *[I]/[O] denotes coax installed inside or outside the monopole, respectively.*

[b] *Nextel Tier I equipment configuration not to exceed [NTE] (9) 48" x 12" panels and (3) 72" x 12" panels with (12) 1-5/8" coax.*

The subject tower and foundation ***are adequate*** to support the above stated loads in conformance with specified requirements. [3]

Analysis prepared by:
John T. Powell, Jr.
CADD Operator

STATE OF CONNECTICUT
JASON M. SEAVERSON
No. 21092
REGISTERED PROFESSIONAL ENGINEER
9/7/05

Jason M. Seaverson, P.E.
Senior Design Engineer

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Connecticut.

[1] The existing and proposed loads of *Table 1* are compared to the original tower design loads or previous analysis.

[2] The design wind criteria are compared to the current code requirements.

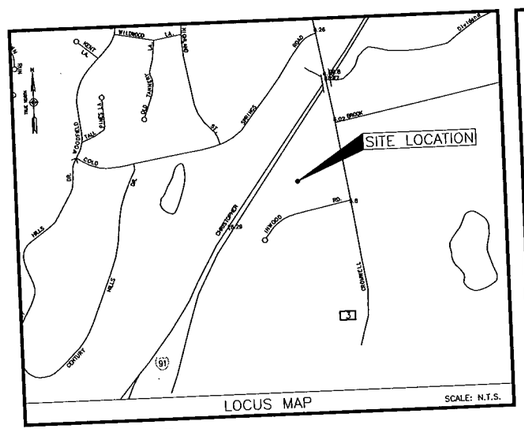
[3] The tower should be re-evaluated as future loads are added or if actual loads are found different from those mentioned in *Table 1*.

NEXTEL

NEXTEL COMMUNICATIONS, INC.

ROCKY HILL CT-1014

47 INWOOD ROAD
ROCKY HILL, CT 06067



LOCUS MAP SCALE: N.T.S.

DIRECTIONS FROM ROCKY HILL, CT:

TAKE CORPORATE PL SOUTH TO WEST ST. TURN RIGHT ONTO WEST ST. TURN LEFT ONTO CROMWELL AVE/CT-3. TURN RIGHT ONTO INWOOD RD.

SITE NUMBER:
CT-1014

SITE NAME:
ROCKY HILL

SITE ADDRESS:
47 INWOOD ROAD
ROCKY HILL, CT 06067

APPLICANT:
NEXTEL COMMUNICATIONS, INC.
9 CROSBY DRIVE
BEDFORD, MA 01730

CONTACTS:
NEXTEL: 781-276-3900
DEWBERRY: CHRIS DADDI 203-776-2277

APPROXIMATE COORDINATES:
LATITUDE: 41°38'18.9"N (NAD83)
LONGITUDE: 72°40'45.4"W (NAD83)
(COORDINATES OBTAINED USING INFORMATION FROM DRAWING TITLED "COMPREHENSIVE SITE PLAN", DRAWING NUMBER YHA070C2, REV. 0 DATED 1-29-97, DONE BY CLOUGH, HARBOUR & ASSOCIATES, LLP, ROCKY HILL, CT FOR SPRINT PCS, WALLINGFORD, CT)

PROJECT SUMMARY

THIS DOCUMENT WAS DEVELOPED TO REFLECT A SPECIFIC SITE AND ITS SITE CONDITIONS AND IS NOT TO BE USED FOR ANOTHER SITE OR WHEN OTHER CONDITIONS PERTAIN. REUSE OF THIS DOCUMENT IS AT THE SOLE RISK OF THE USER.
A.D.A. COMPLIANCE:
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.

STRUCTURAL NOTES:

1. STRUCTURAL ANALYSIS DONE BY OTHERS.
2. GRIDCOM SHALL PROVIDE A STRUCTURAL ANALYSIS OF THE TOWER PREPARED BY A LICENSED CONNECTICUT STRUCTURAL ENGINEER CERTIFYING THAT, THE EXISTING TOWER AND ANY REQUIRED IMPROVEMENTS AND REINFORCEMENTS HAVE SUFFICIENT CAPACITY TO SUPPORT ALL EXISTING AND PROPOSED ANTENNAS, SUPPORTS AND APPURTENANCES AND COMPLIES WITH THE CURRENT CONNECTICUT STATE BUILDING CODE AND EIA/TIA CRITERIA. THE CONTRACTOR IS RESPONSIBLE TO CONFIRM THAT ANY AND ALL IMPROVEMENTS AND REINFORCEMENTS REQUIRED BY THE STRUCTURAL ANALYSIS CERTIFICATION ARE PROPERLY INSTALLED PRIOR TO THE ADDITION OF ANTENNAS, SUPPORT AND APPURTENANCES PROPOSED ON THESE DRAWINGS OR OTHERWISE NOTED IN THE STRUCTURAL ANALYSIS.

	DATE
OWNER	
NEXTEL R.F. ENGINEER	
NEXTEL CONSTRUCTION	
NEXTEL SITE ACQUISITION	
NEXTEL FIELD OPERATIONS	
GRIDCOM	
SITE ACQUISITION AGENT	
CONSTRUCTION FIELD SUPERVISOR	

THE ABOVE PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES OR MODIFICATIONS THEY MAY IMPOSE.

APPROVALS

THE PROJECT CONSISTS OF THE REPLACEMENT OF 8 EXISTING ANTENNAS AND THE INSTALLATION OF A GENERATOR AT GRADE.

PROJECT DESCRIPTION

SHT. NO.	DESCRIPTION
T-1	TITLE SHEET
C-1	SITE PLAN & ELEVATION
C-2	CONSTRUCTION DETAILS
E-1	ONE LINE DIAGRAMS & NOTES
E-2	ALARM AND WIRING & GENERATOR

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nationalgrid Wireless
80 CENTRAL STREET
BOXBOROUGH, MA 01719

ROCKY HILL
SITE NO.: CT-1014

0	09/05/06	FINAL CONST.
A	06/09/06	PRELIM. CONST.

Dewberry
Dewberry-Goodkind, Inc.
59 ELM STREET
SUITE 101
NEW HAVEN, CT 06510
PHONE: 203.776.2277
FAX: 203.776.2288

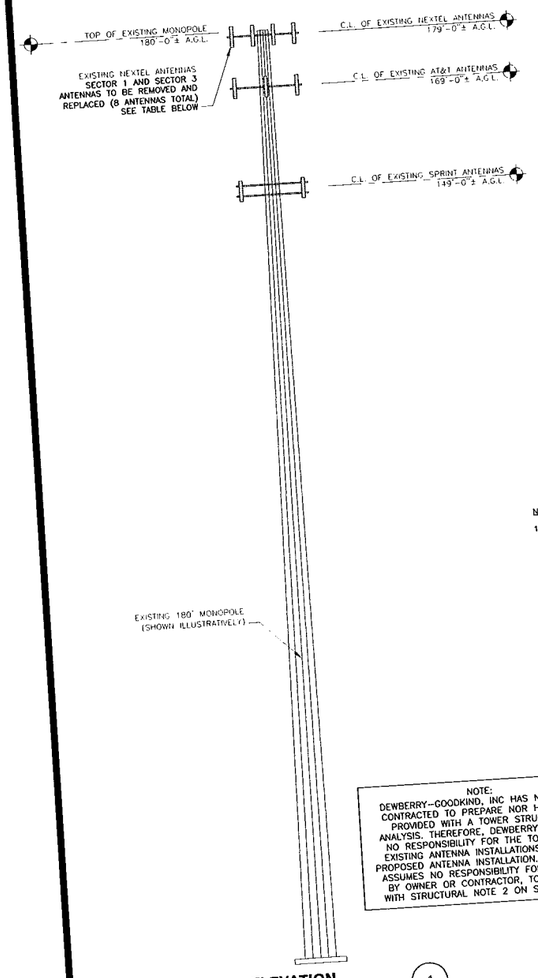
DRAWN BY:	CMS
REVIEWED BY:	CKD
CHECKED BY:	CKD
DGI NUMBER:	4206-18

SITE NUMBER
CT-1014

SITE ADDRESS
47 INWOOD ROAD
ROCKY HILL, CT
06067

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

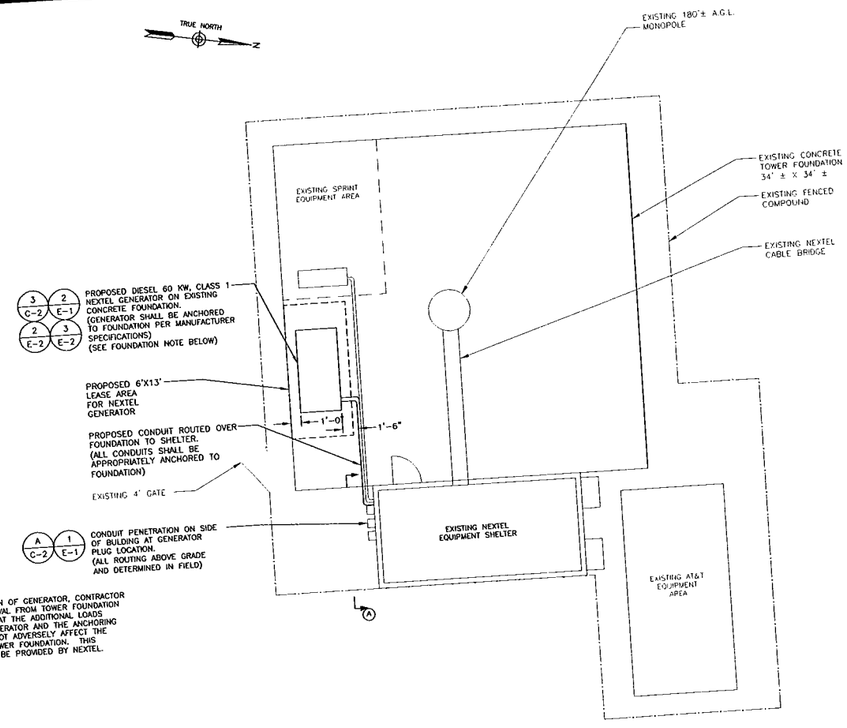


ELEVATION
SCALE: 3/32"=1'-0"

1

NOTE:
1. ALL EXISTING ANTENNAS SHOWN ILLUSTRATIVELY ONLY.
2. ELEVATION OF NEXTEL ANTENNAS PROVIDED BY CLIENT. OTHER ELEVATIONS ARE ESTIMATES.

NOTE:
DEWBERRY-GOODKIND, INC HAS NOT BEEN CONTRACTED TO PREPARE NOR HAS BEEN PROVIDED WITH A TOWER STRUCTURAL ANALYSIS. THEREFORE, DEWBERRY ASSUMES NO RESPONSIBILITY FOR THE TOWER, ITS EXISTING ANTENNA INSTALLATIONS OR THE PROPOSED ANTENNA INSTALLATION. DEWBERRY ASSUMES NO RESPONSIBILITY FOR FAILURE, BY OWNER OR CONTRACTOR, TO COMPLY WITH STRUCTURAL NOTE 2 ON SHEET T-1.



NOTES:
1. PRIOR TO INSTALLATION OF GENERATOR, CONTRACTOR MUST RECIEVE APPROVAL FROM TOWER FOUNDATION DESIGNER STATING THAT THE ADDITIONAL LOADS IMPOSED BY THE GENERATOR AND THE ANCHORING SYSTEM USED WILL NOT ADVERSELY AFFECT THE INTEGRITY OF THE TOWER FOUNDATION. THIS CERTIFICATION SHALL BE PROVIDED BY NEXTEL.

COMPOUND LAYOUT 2
SCALE: 3/16"=1'-0"

NOTES:
1. COMPOUND LAYOUT BASED ON DRAWINGS PROVIDED BY CLIENT ENTITLED SITE PLAN AND SHELTER LAYOUT DATED 4-25-05.
2. ALL INFORMATION SHOWN IS AS PROVIDED BY NATIONAL GRID WIRELESS.
3. GENERATOR SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE ELECTRICAL AND MECHANICAL CODES, AND IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

CURRENT CONFIGURATION

	ANTENNA MODEL	ORIENT.	# ANTS.	RC (APPROX.)	MDT	EDT	COAX MANF.	MODEL	SIZE
SECTOR 1	DB844H90E-XY	0	4	179	8	0	ANDREW	LDF6-50A	1 1/4"
SECTOR 2	"	"	"	"	"	"	"	"	"
SECTOR 3	DB844H105-SX	240	4	179	8	0	ANDREW	LDF6-50A	1 1/4"

PROPOSED CONFIGURATION

	ANTENNA MODEL	ORIENT.	# ANTS.	RC (APPROX.)	MDT	EDT	COAX MANF.	MODEL	SIZE
SECTOR 1	844G65VIZASX	0	4	179	0	8	ANDREW	LDF6-50A	1 1/4"
SECTOR 2	-	-	-	-	-	-	-	-	-
SECTOR 3	844G90VTA-SX	240	4	179	0	8	ANDREW	LDF6-50A	1 1/4"

EXISTING INFORMATION FOR SECTOR 2 TO BE DETERMINED IN FIELD

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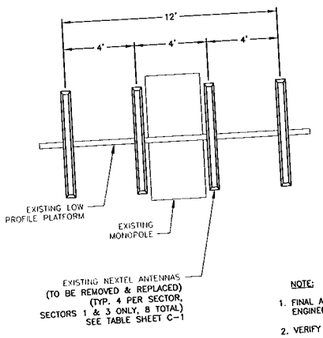
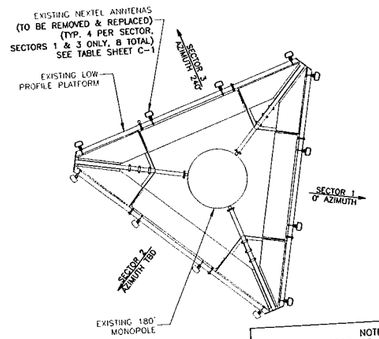




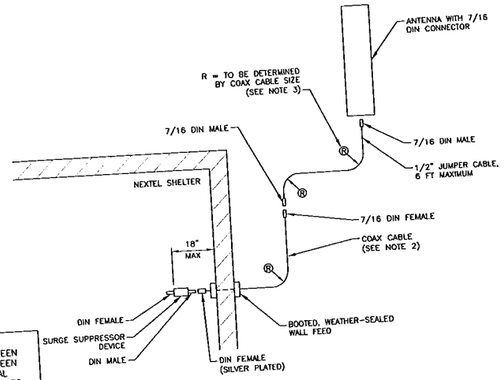
NOTE:

1. FINAL ANTENNA TYPES AND ORIENTATIONS TO BE VERIFIED WITH RF ENGINEERING PRIOR TO CONSTUCTION.
2. VERIFY PLATFORM ORIENTATION WITH C.M. PRIOR TO CONSTUCTION.
3. SEE RF CONFIGURATION TABLE SHEET C-1 FOR ANTENNAS TO BE CHANGED.

ANTENNA MOUNTING CONFIGURATION (1)

SCALE: N.T.S.

NOTE:
DEWBERRY-GOODKIND, INC HAS NOT BEEN CONTRACTED TO PREPARE NOR HAS BEEN PROVIDED WITH A TOWER STRUCTURAL ANALYSIS. THEREFORE, DEWBERRY ASSUMES NO RESPONSIBILITY FOR THE TOWER, ITS EXISTING ANTENNA INSTALLATIONS OR THE PROPOSED ANTENNA INSTALLATION. DEWBERRY ASSUMES NO RESPONSIBILITY FOR FAILURE, BY OWNER OR CONTRACTOR, TO COMPLY WITH STRUCTURAL NOTE 2 ON SHEET T-1.

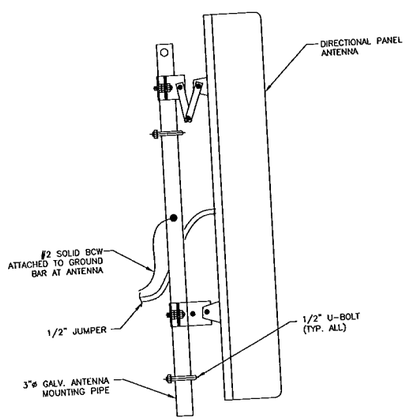


NOTES:

1. COAX CABLE SIZE WILL BE DETERMINED BY RF ENGINEER. REFER TO RF SCHEDULE FOR CABLE SIZE, MANUFACTURER, AND COLOR-CODING.
2. COLOR-CODE COAXIAL CABLE:
   - AT TOP, JUST ABOVE GROUND KIT, 2" WIDE TO BE VISIBLE FROM THE GROUND.
   - AT BOTTOM, JUST OUTSIDE COAX PORT.
   - INSIDE NEXTEL EQUIPMENT ROOM/ENCLOSURE.
   - AT ALL WALL/FLOOR PENETRATIONS.
3. RADIUS 'R' SHALL BE EQUAL TO OR GREATER THAN MANUFACTURER'S RECOMMENDATION.

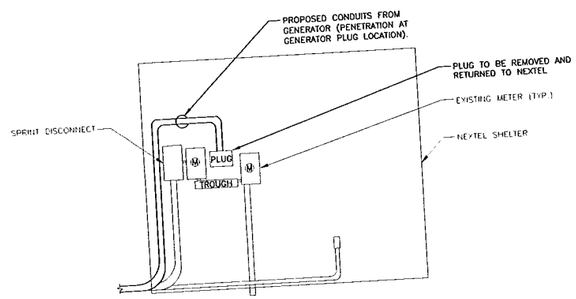
TYPICAL ANTENNA SCHEMATIC (2)

SCALE: N.T.S.



TYPICAL ANTENNA CONNECTION (3)

SCALE: N.T.S.



CONDUIT PENETRATION (A)

SCALE: N.T.S.

GENERAL NOTES

1. CONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY, LOCAL CODES AND O.S.H.A.
2. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
3. DO NOT CHANGE SIZE NOR SPACING OF STRUCTURAL ELEMENTS.
4. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
5. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
6. BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
7. DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
8. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING.
9. EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
10. REPAIR ANY DAMAGE DURING CONSTRUCTION TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE CONSTRUCTION MANAGER.
11. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
12. PAINT ALL NEWLY INSTALLED EQUIPMENT TO MATCH EXISTING PER LAND LORD SPECIFICATIONS.

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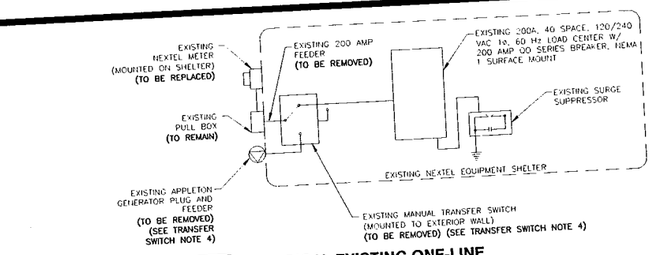
SHEET NUMBER
C-2



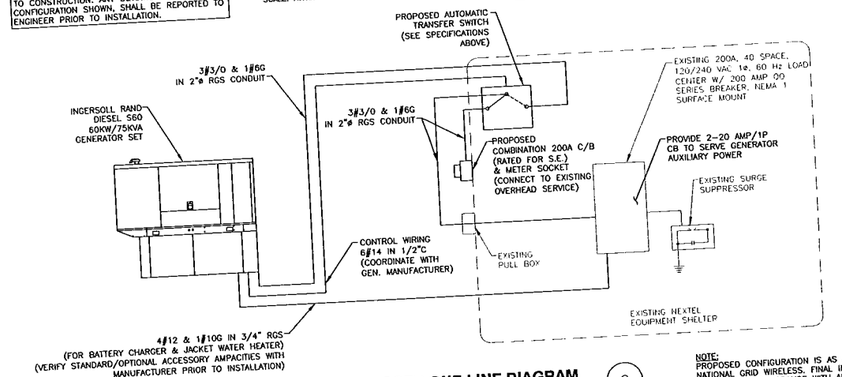
NOTE:
THIS ONE-LINE DIAGRAM IS TYPICAL. ACTUAL CONDITIONS MUST BE VERIFIED IN FIELD PRIOR TO CONSTRUCTION. ANY DEVIATION FROM TYPICAL CONFIGURATION SHOWN, SHALL BE REPORTED TO ENGINEER PRIOR TO INSTALLATION.

TYPICAL EXISTING ONE-LINE DIAGRAM (1)

SCALE: N.T.S.

TRANSFER SWITCH NOTES:

1. PROVIDE 200AMP, 120/140V, SINGLE PHASE, 2 POLE AUTOMATIC TRANSFER (A.T.S.) SWITCH WITH NEMA TYPE 3R ENCLOSURE, FULL MICROPROCESSOR CONTROL, FULL CURRENT-RATED NEUTRAL BAR, AND TWO (2) SETS OF AUXILIARY CONTACTS FOR CUSTOMER (NEXTEL) USE.
2. CONTRACTOR SHALL VERIFY A.T.S. MAKE, MODEL, AND ALL SPECIFICATIONS WITH NEXTEL CM AND INGERSOLL RAND PRIOR TO COMMENCEMENT OF THE WORK.
3. COORDINATE THE LOCATION OF THE A.T.S. OUTSIDE THE NEXTEL SHELTER WITH NEXTEL CM. MEET ALL NEC CODES.
4. EXISTING MANUAL TRANSFER SWITCH & APPLETON PLUG SHALL BE SALVAGED AND TURNED OVER TO THE NEXTEL CM UPON REMOVAL.
5. SEAL ALL UN-USED WALL PENETRATIONS.



PROPOSED ONE-LINE DIAGRAM (2)

SCALE: N.T.S.

NOTE:
PROPOSED CONFIGURATION IS AS PROVIDED BY NATIONAL GRID WIRELESS. FINAL INSTALLATION MUST BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND BE APPROVED BY GENERATOR MANUFACTURER.

GENERAL ELECTRIC NOTES:

1. ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH LATEST CONNECTICUT ELECTRICAL CODES, OSHA REQUIREMENTS & LOCAL CODES, LAWS & ORDINANCES. PROVIDE ALL COMPONENTS & WIRING SIZES AS REQUIRED BY CODES.
2. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
3. SUBCONTRACTOR SHALL PERFORM ALL VERIFICATION, OBSERVATIONS, TEST, AND EXAMINATION OF WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE PROJECT MANAGER LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
4. THE PLANS ARE DIAGRAMMATIC ONLY. FOLLOW AS CLOSELY AS POSSIBLE.
5. SUBCONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, INSTALLATION, PERMITS AND LICENSES. SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS AND SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
6. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIAL SHALL MEET WITH THE APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, NFPA AND UL.
7. SUBCONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY, AND LOCAL CODES AND OHSA.
8. SUBCONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS AND PAY ALL REQUIRED FEES.
9. COMPLETED JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER DATE OF JOB ACCEPTANCE BY OWNER. ANY WORK, MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
10. PROVIDE CONSTRUCTION MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
11. ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC., SHALL BE TURNED OVER TO THE OWNER AT JOB COMPLETION.
12. ALL MATERIALS SHALL BE UL LISTED.
13. POWER WIRE AND CABLE CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON DRAWINGS. CONDUCTORS #10 & SMALLER SHALL BE SOLID COPPER, CONDUCTORS #8 AND LARGER SHALL BE STRANDED.
14. ALL CONDUCTORS SHALL BE THWN.
15. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANEL BOARD, PULL BOX, JUNCTION BOX, SWITCH BOX, ETC.
16. GROUNDING CONDUCTORS SHALL BE STRANDED COPPER, ANNEALED, AND SIZED AS SHOWN ON DRAWINGS.
17. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES AND CONNECTICUT ELECTRICAL CODE.
18. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE ENGINEER FOR FURTHER INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE. SUBMIT TEST REPORTS AND FURNISH TO DISPATCH COMMUNICATIONS ONE COMPLETE SET OF PRINTS SHOWING "INSTALLED WORK".
19. CONDUIT
    A. RIGID CONDUIT SHALL BE THREADED UL LABELED GALVANIZED ZINC COATED INTERIOR AND EXTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. UL LABELED ZINC COATED EMT W/ COMPRESSION COUPLINGS CAN BE USED ONLY WHEN INSTALLED IN PROTECTED, DRY AREAS.
    B. FLEXIBLE LIQUID TIGHT CONDUIT SHALL HAVE UL LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. ALL CONDUIT SHALL HAVE FULL SIZE EQUIPMENT GROUND WIRE.
    C. CONDUIT RUNS SHALL BE SURFACE MOUNTED IN CEILINGS OR WALLS UNLESS INDICATED OTHERWISE. CONDUIT INDICATED SHALL RUN PARALLEL OR AT RIGHT ANGLES TO THE CEILING, FLOOR, OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH THE OWNER PRIOR TO INSTALLATION. NO HORIZONTAL CONDUITS SHALL BE BELOW 7'-6" A.F.F. NO BX, MC, OR ROMEX CABLE IS PERMITTED.
20. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
21. ALL CONDUIT INSTALLED MAY BE SURFACE MOUNTED UNLESS OTHERWISE NOTED.
22. ALL CONDUIT ONLY (C.O.) INSTALLATIONS SHALL HAVE A 1/4" PULL WIRE OR ROPE.
23. MOUNTING HEIGHTS SHALL BE VERIFIED WITH OWNER PRIOR TO INSTALLATION.
24. PATCH, REPAIR, AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK TO MATCH EXISTING SURROUNDINGS.
25. PENETRATIONS IN FIRE RATED WALLS SHALL BE SEALED IN ACCORDANCE WITH APPLICABLE CODES.
26. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT SCREWED ON ENGRAVED LAMINATED LABELS WITH WHITE LETTERING AND BLACK FIELD, NO ADHESIVES ALLOWED.
27. COORDINATE THE INSTALLATION OF THE NEXTEL ELECTRICAL SERVICE WITH BUILDING OWNER.
28. UPON COMPLETION OF WORK, CONDUCT CONTINUITY, INSULATION RESISTANCE, AND FALL POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.

PDF PRINT
SCALE MAY VARY DUE TO INDIVIDUAL PRINTER SETTINGS

NEXTEL
NEXTEL COMMUNICATIONS OF THE MID ATLANTIC, INC.
9 CROSBY DRIVE
BEDFORD, MA 01730
PHONE: (781) 276-3900
FAX: (781) 276-3915

nationalgrid
Wireless
80 CENTRAL STREET
BOXBOROUGH, MA 01719

ROCKY HILL
SITE NO.: CT-1014

0	09/05/06	FINAL CONST.
A	06/09/06	PRELIM. CONST.

Dewberry
Dewberry-Goodkind, Inc.
59 ELM STREET
SUITE 101
NEW HAVEN, CT 06510
PHONE: 203.776.2277
FAX: 203.776.2288

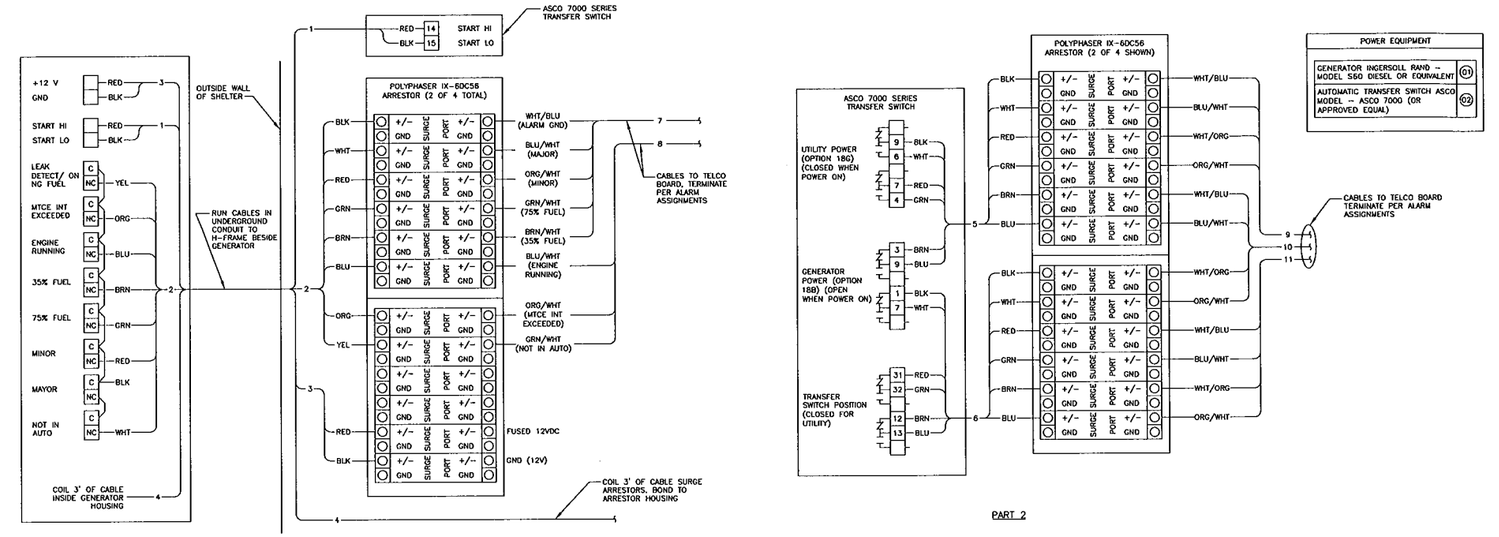
DRAWN BY: RPC
REVIEWED BY: FDK
CHECKED BY: CKO
DGI NUMBER: 4206-18

SITE NUMBER
CT-1014

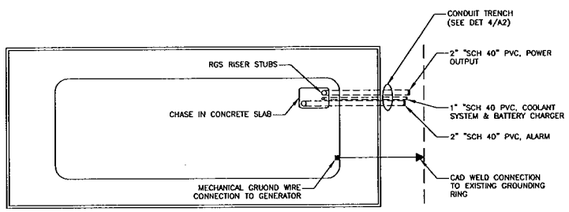
SITE ADDRESS
47 INWOOD ROAD
ROCKY HILL, CT
06067

SHEET TITLE
ONE LINE DIAGRAMS & NOTES

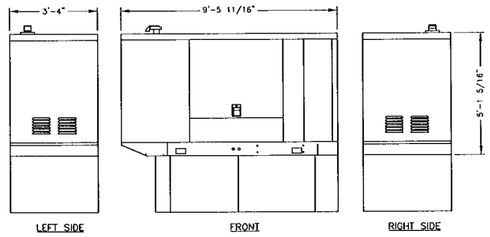
SHEET NUMBER
E-1



ALARM AND CONTROL WIRING (1 / E-2)
SCALE: N.T.S.



GENERATOR ELECTRICAL CONNECTIONS (2 / E-2)
SCALE: N.T.S.



NOTE:
MAINTAIN 3' CLEAR AROUND ALL SERVICEABLE SIDES.

TYPICAL DIESEL S60 GENERATOR DETAIL (3)
SCALE: N.T.S.

PDF PRINT
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ROCKY HILL
SITE NO.: CT-1014

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Dewberry
Dewberry-Goodkind, Inc.
59 ELM STREET
SUITE 101
NEW HAVEN, CT 06510
PHONE: 203.776.2277
FAX: 203.776.2288

DRAWN BY:	RPG
REVIEWED BY:	CKD
CHECKED BY:	CKD
DGI NUMBER:	4206-18

SITE NUMBER
CT-1014

SITE ADDRESS
47 INWOOD ROAD
ROCKY HILL, CT
06067

SHEET TITLE
ALARM AND WIRING & GENERATOR

SHEET NUMBER
E-2

844G90VTA-SX

Directed Dipole Antenna

DECIBEL
Base Station Antennas

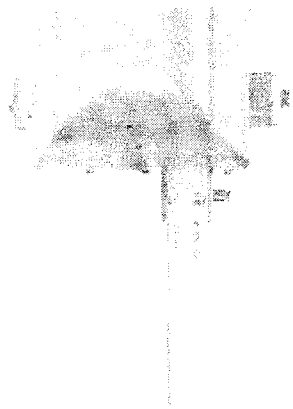
- Field adjustable electrical downtilt, featuring linear phase shifter, no wheels or gears
- Excellent azimuth pattern shaping, 15-20% reduction in cell-to-cell overlap
- Outstanding first upper side lobe suppression
- Air dielectric feed system, no screws, rivets, welds or solder in RF element feed path

ELECTRICAL

Frequency (MHz) :	806 - 896	897 - 940
Polarization :	Vertical	Vertical
Gain (dBd/dBi) :	11.8/13.9	11.8/13.9
Azimuth BW (Deg.):	90	90
Elevation BW (Deg.):	16	16
Beam Tilt (Deg.):	0-16	0-16
USLS* (dB) :	>15	>15
Front-To-Back Ratio* (dB) :	35	35
VSWR :	<1.4:1	<1.5:1
PIM3 @ 2 x 20w (dBc) :	-145	-145
Max. Input Power (Watts) :	500	500
Impedance (Ohms) :	50	50
Lightning Protection :	DC Ground	DC Ground

MECHANICAL

Weight :	5.2 kg (11.5 lb)
Dimensions (LxWxD) :	1,219 x 165 x 203 mm (48 x 6.5 x 8 in)
Max. Wind Area :	0.10 m² (1.1 ft²)
Max. Wind Load (@ 100 mph) :	262.4 N (59 lbf)
Max. Wind Speed :	241 km/h (150 mph)
Hardware Material :	Galvanized Steel
Connector Type :	7-16 DIN - Female (1, Back)
Color :	Light Gray
Standard Mounting Hardware :	DB380
Standard Downtilt Mounting Hardware :	DB5083



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2601 Telecom Parkway
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Fax: 1.800.229.4706
www.andrew.com

* - Indicates Typical

6/29/2005

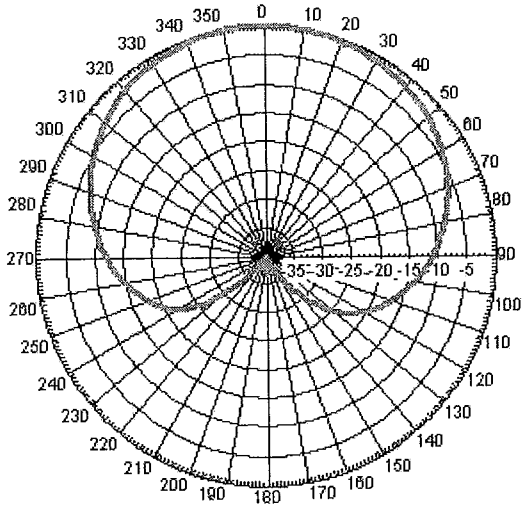
dbtech@andrew.com

844G90VTA-SX

Directed Dipole Antenna

DECIBEL®
Base Station Antennas

AZIMUTH PATTERN



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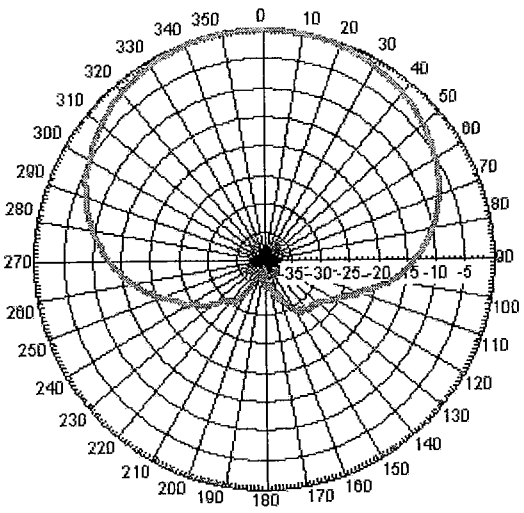
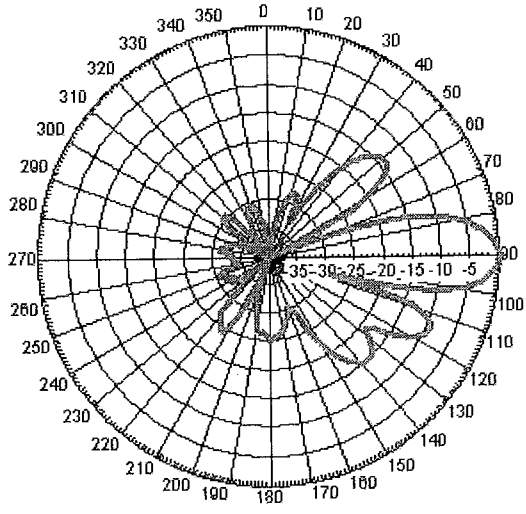


Freq: 920 MHz, Tilt: 0

ELEVATION PATTERN



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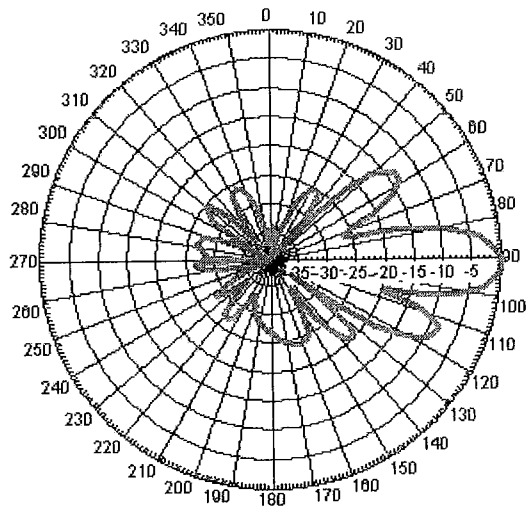

Freq: 920 MHz, Tilt: 0

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dbtech@andrew.com

844G65VTZASX

Directed Dipole, No Screen Antenna

DECIBEL®
Base Station Antennas

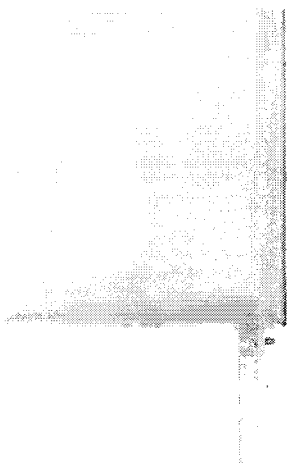
- Field adjustable electrical downtilt, featuring linear phase shifter, no wheels or gears
- Excellent azimuth pattern shaping, 15-20% reduction in cell-to-cell overlap
- Outstanding first upper side lobe suppression
- Air dielectric feed system, no screws, rivets, welds or solder in RF element feed path

ELECTRICAL

Frequency (MHz) :	806 - 896	897 - 940
Polarization :	Vertical	Vertical
Gain (dBd/dBi) :	13/15.1	13/15.1
Azimuth BW (Deg.):	65	65
Elevation BW (Deg.):	16	16
Beam Tilt (Deg.):	0-16	0-16
USLS* (dB) :	>15	>15
Front-To-Back Ratio* (dB) :	40	40
VSWR :	<1.4:1	<1.5:1
PIM3 @ 2 x 20w (dBc) :	-150	-150
Max. Input Power (Watts) :	500	500
Impedance (Ohms) :	50	50
Lightning Protection :	DC Ground	DC Ground

MECHANICAL

Weight :	7.2 kg (16 lb)
Dimensions (LxWxD) :	1,232 x 318 x 216 mm (48.5 x 12.5 x 8.5 in)
Max. Wind Area :	0.13 m² (1.4 ft²)
Max. Wind Load (@ 100 mph) :	631.6 N (142 lbf)
Max. Wind Speed :	241 km/h (150 mph)
Hardware Material :	Galvanized Steel
Connector Type :	7-16 DIN - Female (1, Back)
Color :	Light Gray
Standard Mounting Hardware :	DB380
Standard Downtilt Mounting Hardware :	DB5083



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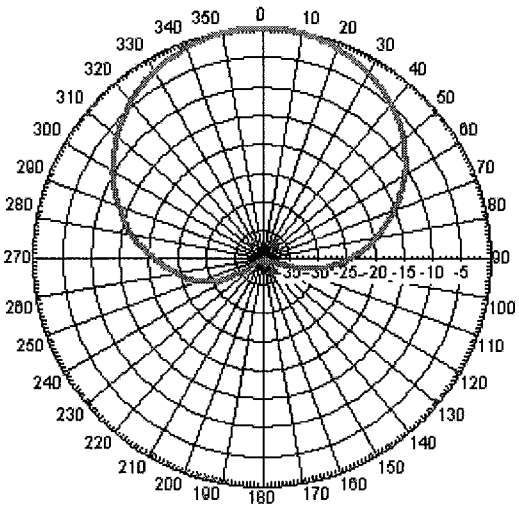
Directed Dipole, No Screen Antenna

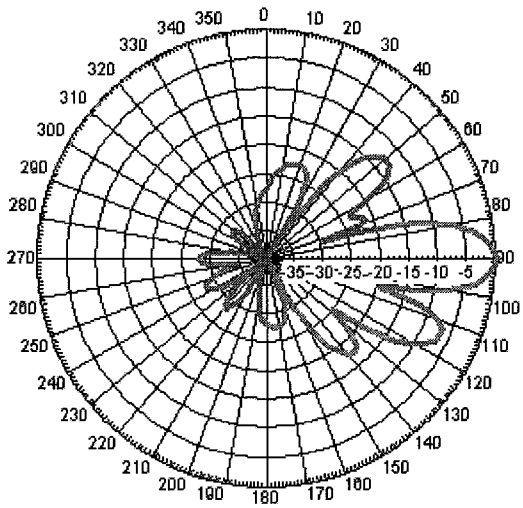
DECIBEL®
Base Station Antennas

AZIMUTH PATTERN



Freq: 850 MHz, Tilt: 0

ELEVATION PATTERN



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5/4/2005

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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

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

Form 31-0005. Printed in USA 12-03

September 20, 2006

Michael Perrone
Connecticut Siting Council
10 Franklin Square
New Britain Connecticut 06051

Re: Revision of exhibit for Nextel modification
Address: 47 Inwood Road, Rocky Hill Ct 06067

Dear Mr. Perrone:

Attached find a revision of the site plan, sheet C-1, which correctly shows the elevation of the Sprint antennas at 140' A.G.L.

Please replace or incorporate this change into our application,

Thank you for your assistance

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

Marie R. Burbank
Consultant

Cc: Robert Lee, Town Manager

208 Gilead Road
Andover, CT 06232