**PROJECT DESCRIPTION**

The proposed project includes installing a WIC (Walled In Cabinet) and a generator on proposed concrete pads inside a 20’ x 10’ ground space within the existing compound, and installing new equipment and mounts on the existing tower.

**PROJECT NOTES**

1. The facility is unmanned.
2. A technician will visit the site approximately once per year for inspection and maintenance.
3. The project will not result in any significant land disturbance or effect of storm water drainage.
4. No sanitary sewer, potable water or trash disposal is required.
5. Handicap access is not required.
6. The project depicted in these plans qualifies as an eligible facilities request entitled to an expedited review under 47 U.S.C. 1455(A) as a modification of an existing wireless tower that involves the collocation removal and/or replacement of transmission equipment that is not a substantial change under CFR 1.61000 (B)(7).
7. No intentional modifications to support structure and antennas.
8. No intentional disturbance or effect of storm water drainage.
9. No existing proposed project is a substantial change under CFR 1.61000 (B)(7).

**PROJECT LOCATION DIRECTIONS**

HEAD EAST ON I-195 E. TAKE EXIT 22A TO MERGE ONTO MA-25 S. TOWARD CARE COOP. CONTINUE ONTO BLUE STAR MEMORIAL HAV. CONTINUE ONTO MA-19 S AT THE TRAFFIC CIRCLE. TAKE THE 3RD EXIT TO MA-25 S. MA-25 S IS A 3 LANE SLIGHTLY CURVED ROAD. CONTINUE ONTO WOODS HOLE ROAD. TAKE FERRY OVER THE VINEYARD HAVEN. GET OFF FERRY AND TAKE LEFT ON WATER ST. THEN RIGHT ONTO BEACH ST. BEACH ST WILL TURN INTO STATE RD. THEN TAKE LEFT ON OLD COUNTY RD. FOLLOW TO END THEN TAKE LEFT ONTO EGGS TIBURY W. THEN TAKE RIGHT ONTO NEW LANE AND TURN RIGHT INTO LOT AND THEN TAKE LEFT AND FOLLOW TOWER.

**PROJECT SUMMARY**

AT&T MOBILITY 13626852 COLOCATION PLAN
5G NR RADIO/5G NR 1DR-1 CONFIGURATION
GENERAL CONSTRUCTION NOTES:

1. CONSTRUCTION MATERIALS. ETAE MOBILITY THE CONTRACTOR WILL PROVIDE AND THE CONSTRUCTION CONTRACTOR WILL INSTALL.

2. REMOVE OR SUBMIT TIMBERS, HOISTING GRIPS, HANGERS.

3. ALL ITEMS PROVIDED.

4. CONSTRUCTION MATERIALS. ETAE MOBILITY THE CONTRACTOR WILL PROVIDE AND THE CONSTRUCTION CONTRACTOR WILL INSTALL.

5. MINIMUM CONCRETE COVER FOR REINFORCEMENT STEEL SHALL BE NO LESS THAN 1 1/2 INCHES (1.5")

6. IF ANY CHANGES ARE MADE TO THE PLAN AND/or DRAWING, CONTRACTOR SHALL SUBMIT THESE CHANGES TO AT&T MOBILITY FOR APPROVAL PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T MOBILITY PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO AT&T MOBILITY FOR CONSTRUCTION.
NOTES:
1. BOUNDARY LINES OBTAINED FROM TOWN OF WEST TISBURY, MA ONLINE PROPERTY VIEWER.

NOTES:
At&t Mobility was not contracted to perform any boundary and topographic survey on this site.

LEGEND
-Existing Property Line
-Existing Adjacent Property Line
-Existing Lease Area
-Existing Easement
-Existing Road Fence
-Existing Rear Fences
-Existing Metal Fence
-Existing Chain Link Fence
-Existing Road (Center)
-Existing Road (Shoulder)

OVERALL SITE PLAN

GRAPHIC SCALE
300 0 300
300 0 300
1 UNIT = 500 FEET

NOTE
Dewberry was not contracted to perform any boundary and topographic survey on this site.
PROPOSED CABLE LENGTH:

1. ESTIMATED LENGTH OF PROPOSED CABLE:
   - ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.

2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF SUFFICIENT SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, OR INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-RIS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.

SITE PLAN NOTES:

1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.

2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN PRIOR TO UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT. CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.

3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE AT&T MOBILITY REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONSULTS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.

LEGEND

- GROUNDING TEST WELL
- ATS AUTOMATIC TRANSFER SWITCH
- B BOLLARD
- CSC DELL SITE CABINET
- D DISCONNECT
- E ELECTRICAL
- F FIBER
- GEN GENERATOR
- H AND V HAND HOLE, VAULT
- IB ICE BRIDGE
- K HENNOX BOX
- LC LIGHTING CONTROL
- M METER
- PB PULL BOX
- PP POWER POLE
- T TELECO
- TRF TRANSFORMER
- CHAINLINK FENCE
- AUTO STRUCTURAL WALL
- PERM WALL
- WOOD FENCE

PROPOSED UNDERGROUND POWER AND TELCO CONDUITS Routed in joint Trench (Length = 65 1/2)

PROPOSED (4) DC AND (2) FIBER CABLES (Routed per cable length notes 1 & 2)
1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.

2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN PRIOR TO CONSTRUCTION. BEFORE UTILIZING EXISTING CABLE SUPPORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.

3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE AT&T MOBILITY REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.

4. COORDINATE REMOVAL OF EXISTING ABANDONED EQUIPMENT SHELTER WITH ATC CM.
ATC HAS NOT ANALYZED THE PROPOSED ANTENNA MOUNT(S) TO DETERMINE ADEQUATE STRUCTURAL CAPACITY FOR PROPOSED CARRIER LOADING AS SHOWN. CONSTRUCTION IS NOT TO PROCEED WITHOUT A PASSING MOUNT ANALYSIS REPORT.

TOWER NOTE:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.

2. WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLES, ETC. SHALL BE PAINTED/SOURED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.

3. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.

4. TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)

5. DEWBERRY HAS NOT BEEN CONTRACTED TO PERFORM A MOUNT ANALYSIS AT THIS SITE. CONSTRUCTION IS NOT TO PROCEED WITHOUT A PASSING MOUNT ANALYSIS REPORT FOR THE PROPOSED CARRIER LOADING.
ATC has not analyzed the proposed antenna mount(s) to determine adequate structural capacity for proposed carrier loading as shown. Construction is not to proceed without a passing mount analysis report.

1. Confirm with AT&T Mobility REP for applicable 3G, 4G, and 5G carrier RFDS and NSN configuration (CONFIG).
2. Confirm spacing of proposed equipment does not cause tower conflicts nor impede tower climbing pegs.

ANTENNA SCHEDULE

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>SECTOR</th>
<th>RAD</th>
<th>AZ</th>
<th>POG</th>
<th>ANTE...#</th>
<th>BAND</th>
<th>MOUNTED</th>
<th>MECH/ELEC</th>
<th>D-TILT</th>
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<td>ADD</td>
<td>IRUS 4478 B14</td>
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<td></td>
<td></td>
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<td>5G 3.5GHZ</td>
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<td>ADD</td>
<td>IRUS 8843 B5/B12</td>
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<tr>
<td>BETA</td>
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<td>RRUS 4449 B5/B12</td>
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<td>GAMMA</td>
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1. CONFIRM WITH AT&T MOBILITY REP FOR APPLICABLE 3G, 4G, AND 5G RFDS AND NSN CONFIGURATION (CONFIG). 2. CONFIRM PLACEMENT OF PROPOSED EQUIPMENT DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDES TOWER CLIMBING PEGS.

CABLE LENGTHS FOR JUMPERS
FIBER DISTRIBUTION/BOX TO RRU: 15 FT TO ANTENNA: 10 FT

FINAL ANTENNA PLAN

FINAL ANTENNA SCHEDULE

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1. CONFIRM WITH AT&T MOBILITY REP FOR APPLICABLE 3G, 4G, AND 5G RFDS AND NSN CONFIGURATION (CONFIG). 2. CONFIRM PLACEMENT OF PROPOSED EQUIPMENT DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDES TOWER CLIMBING PEGS.
PROPOSED RRU/SQUID MOUNTING DETAIL
(SITE PRO SCX7-U DETAIL)

PROPOSED SWIVEL MOUNT DETAIL

SITE PRO SCX7-U DETAIL
1. WALK-IN CABINET (WIC) TO BE INSTALLED ACCORDING TO MANUFACTURER RECOMMENDATIONS & SPECIFICATIONS.
2. CONTRACTOR TO CONFIRM PARTS & HARDWARE PRIOR TO CONSTRUCTION & COORDINATE WITH AT&T CM.
3. FOUNDATION TO BE FLUSH WITH EXISTING GRADE. CONTRACTOR SHALL MAINTAIN A MINIMUM 10" CLEARANCE FROM GRADE TO BOTTOM OF WIC TO ACCOMMODATE STAIRS. VERIFY IN FIELD PRIOR TO POST INSTALLATION.
4. COORDINATE POWER & TELCO CONDUIT STUBUP PLACEMENT WITH ELECTRICAL TRADES. SEE E-1 FOR ADDITIONAL INFORMATION.
5. PROVIDE WORKING HVAC AND ELECTRICAL WORKING SPACE CLEARANCES PER MANUFACTURER RECOMMENDATIONS & CODE REQUIREMENTS.
6. WIC DIMENSIONS: 6'-8" W X 6'-8" L X 9'-6" TALL (NO BASE)
7. CONTRACTOR TO PROVIDE AND INSTALL SPECIFIED CONCRETE ANCHORS.
IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT.

METHODS & EQUIPMENT VIA X-RAY OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING AND/OR STEEL TENDONS.

LOCATION OF TENDONS AND/OR REINFORCING STEEL ARE NOT DEFINITELY KNOWN, THEREFORE, MUST BE SEARCHED FOR BY APPROPRIATE.

DAMAGED UNDER ANY CIRCUMSTANCES.

RUNS, M PIPE RUNS, ETC., IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND/OR REINFORCING STEEL WILL NOT BE DRILLED INTO, CUT OR

POWER WIRE & CABLE CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM UNLESS SPECIFIED OTHERWISE ON DRAWINGS. CONDUCTORS

GROUNDS SHALL BE INSTALLED IN PROPERLY ANCHORED 3/4"Ø (MIN.) PVC CONDUIT.

ALL EXPOSED GROUND WIRES ROUTED ALONG THE SIDE OF EQUIPMENT SHELTERS OR ROUTED OVER CONCRETE FOUNDATIONS OR OTHER EXISTING

THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY NEC & ALL APPPLICABLE CODES.

A COMPLETE & PROPERLY OPERATIVE SYSTEM, ENERGIZED THROUGHOUT & AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS

ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY & LOCAL CODES, O.S.H.A., NEC, NFPA #70, AT&T

ALL EXTERIOR GROUNDING CONDUCTORS SHALL BE #2 AWG SOLID TINNED BARE COPPER WIRE UNLESS NOTED OTHERWISE.

MAINTAINED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS & ALL APPLICABLE CODES.

ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.

THE ENTIRE ELECTRICAL INSTALLATION SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, IEEE, & NFPA.

EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, PULLBOX, J-BOX, SWITCH BOX, ETC., IN COMPLIANCE

GROUNDS SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE OWNER FOR FURTHER MALFUNCTIONS, FAULTY EQUIPMENT, & DISCREPANCIES.

CONTRACTOR SHALL PATCH, REPAIR, & PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.

THE WHOLE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, & CIRCUITS.

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR

CONTRACTOR SHALL COORDINATE THE ELECTRICAL SERVICE WITH AT&T MOBILITY & LOCAL UTILITY.

CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE PROJECT MANAGER LISTING ALL

CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS & ASSEMBLY INFORMATION PRIOR TO INSTALLATION.

CONTRACTOR SHALL NOT DISTURB EXISTING GROUNDING SYSTEM. ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY AT NO ADDITIONAL COST.

CONTRACTOR SHALL PROVIDE AT&T MOBILITY MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF

ALL CONDUCTORS LESS THAN #24 AWG SHALL BE STAPLED TOGETHER WITHIN 6" OF EACH OTHER AS THEY ARE TRACED, THEN 6" INTERVALS THEREAFTER, UNTIL THE LAST TOTAL CONDUIT LENGTH.

ALL CONDUIT INSTALLATION MAY BE SURFACE MOUNTED UNLESS OTHERWISE NOTED.

ALL EXTERIOR GROUNDING CONDUCTORS SHALL BE MADE OF COPPER OR COPPER EQUIVALENT MATERIAL.

THE WHOLE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, & CIRCUITS.

ALL "CONDUIT ONLY" (C.O.) INSTALLATIONS SHALL HAVE A 3/8" PULL WIRE OR ROPE.

ALL "CONDUITS" (#3 & #5) INSTALLATIONS SHALL HAVE A #4210 SOLID COPPER GROUND WIRE.

ALL ELECTRICAL WIRING MUST BE DONE IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY & LOCAL CODES, O.S.H.A., NEC, NFPA #70, AT&T

POWER COMPANY: EVERSOURCE (POWER COMPANY) PHONE NUMBER: (888) 783-6617

TABLE OF CONTENTS

CONTRACTOR SHALL PROVIDE THE LOCAL ELECTRICAL INSPECTOR A WRITTEN NOTICE OF ALL FINDINGS & CONCLUSIONS PRIOR TO ACCEPTANCE.

CONTACT WITH EARTH SHALL BE 1/2 LAPPED RAPPED WITH HUNTS WRAP PROCESS NO. 3.

ALL EXTERIOR GROUNDING CONDUCTORS SHALL BE #2 AWG COPPER TWISTED PAIRS CABLE, EXCEPT IN ACCESS BOXES WHERE #2 AWG COPPER WIRING MAY BE USED.

METER STACK

ELECTRICAL & TELEPHONE CONTACTS

POWER COMPANY: EVERSOURCES PHONE NUMBER: (888) 763-6167

TELEPHONE COMPANY: PENDING AT&T ASSIGNMENT PHONE NUMBER: TBD

NOTE: ALL EQUIPMENTS SHORT-CIRCUIT CURRENT RATING SHALL EXCEED AVAILABLE FAULT CURRENT PER UTILTY
ANTENNA SPECIFICATIONS
FOR ILLUSTRATIVE PURPOSES ONLY - NOT TO SCALE

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<tr>
<th>ANTENNA MODEL</th>
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<th>C</th>
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RRU SPECIFICATIONS
FOR ILLUSTRATIVE PURPOSES ONLY - NOT TO SCALE

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Polar Power, Inc.

8220-603 series
Reliability through Simplicity

Back-up Diesel DC Generator Set

Founded in 1970, Polar Power specialized in solar photovoltaic systems, solar air conditioning and refrigeration. We developed and provided photovoltaic charging controls for telecommunications in the 1980s along with DC generators for the military. In 1994 we were first to provide DC generators with remote control and monitoring to the telecommunications industry.

Polar's success is based on engineering generators to meet the very specific needs of each application. Telecom site optimization is best met with the DC generator technology as the loads and batteries are DC. It makes no sense to install an AC generator and convert the output to DC. The AC generators are designed for a wide range of applications and are not specifically produced for telecom applications so there are issues with reliability, space, and fuel efficiency. Polar can save you considerable time and cost in permitting, installing, purchasing, and maintaining a backup generator. We reduce CAPEX and OPEX costs while improving backup reliability.

Contact:
Intertek 4003706
Conforms to UL Std 2200
Certified to CSA Std C22.2 No. 100
Fuel tank is UL 142 Listed
Meets EPA Emission Regulations
CA/MA Emissions Compliant

2 year standard warranty, extended 5-10 year warranty available

The Concepts and Features Behind Polar's Backup Generator for Telecommunications Include:

- Small Footprint: Polar’s DC generator is considerably smaller in size than an AC generator. You can now backup sites that could not accommodate an AC generator. Smaller also means less cost for space leasing.
- Long Reserve: 48 to 72 hour reserve. Polar’s DC generator can provide long reserve times because of very low fuel consumption. This generator should be the first choice for sites exposed to natural disasters requiring backup for weeks or months at a time (fuel consumption 1.02 gallon per hour).
- Low Acoustic Noise: 46 dB(A) @ 7 meters, and low vibration so as not to disturb the local residents or building foundations. Quieter than other generators with lower noise ratings.
- Lightweight: Up to 1/3 the weight of a comparable AC generator. Facilitates roof top installations.
- Corrosion Resistant: All-aluminum enclosure with stainless hardware for low maintenance, and long service life.
- Rodent Resistant: Small animals can quickly destroy a generator set by gnawing on wires, fuel lines, control boxes, etc. Cooling air inlets and outlets have perforated aluminum screens to keep small rodents and large insects out. Stainless steel wire braid is placed over fuel and radiator lines for increased reliability and safety.
- Super Capacitor Starter: Failure to start is the number one problem plaguing generator reliability. Polar's unique design has replaced the starting battery with a Super Capacitor. Capacitors are more reliable and last longer (10-15 year life).
- Long Life: Controls and wire harnesses are designed to extend a 20 year life. Higher grade, longer-life electrical wire (UL 3173), weather tight connectors, gold plated connector pins on signal circuits. Controls and wire harnesses are easily replaceable.
- Advanced Monitoring: Remote diagnostics, control, and monitoring. Ethernet and RS232 standard, with optional SNMP.
- Simplicity: Transfer switch, rectifier, and starting battery are not required.

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