



10 INDUSTRIAL AVE,
SUITE 3
MAHWAH NJ 07430

PHONE: 201.684.0055
FAX: 201.684.0066

October 7, 2022

Members of the Siting Council
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: Notice of Exempt Modification
173.5 West Rocks Road, Norwalk, CT 06851
Latitude: 41.143506
Longitude: -73.418967
T-Mobile Site#: CT11076B – Hardening

Dear Ms. Bachman:

T-Mobile has plans to collocate on the newly constructed 130-foot monopole located at 173.5 West Rocks Road in Norwalk, CT. This tower and facility were approved by the Connecticut Siting Council in Docket No. 489 on November 19, 2021. The tower and property are owned by the City of Norwalk First Taxing District. T-Mobile also intends to install a 48kw diesel generator on the new concrete pad. Please note, T-Mobile filed a separate exempt modification application for the same site on September 28, 2022. The enclosed application and documents are only in connection to the proposed generator install at this site.

Planned Modifications:

Ground:

Install New:

- (1) Generac 48kw diesel generator (on existing concrete pad)
- (1) 200A automatic transfer switch

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 16- SOj-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-SOj-73, a copy of this letter is being sent to Mayor -Harry Rilling, Elected Official, and Steven Kleppin, Director of Planning and Zoning for the City of Norwalk, as well as the owner.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S;A. § 16-50j-72(b)(2).

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require the extension of the site boundary.

3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, T-Mobile respectfully submits that the proposed modifications to the above referenced telecommunications facility constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

Kyle Richers

Transcend Wireless

Cell: 908-447-4716

Email: krichers@transcendwireless.com

Attachments

cc: Harry Rilling – Mayor – City of Norwalk

Steven Kleppin– Director – Planning and Zoning – City of Norwalk

City of Norwalk First Taxing District (Water Department) – Owner

Kyle Richers

From: UPS <pkginfo@ups.com>
Sent: Tuesday, October 11, 2022 12:49 PM
To: KRICHERS@TRANSCENDWIRELESS.COM
Subject: UPS Delivery Notification, Tracking Number 1ZV257424295309543



Hello, your package has been delivered.

Delivery Date: Tuesday, 10/11/2022

Delivery Time: 12:47 PM

Left At: RECEIVER

Signed by: VIXON

TRANSCEND WIRELESS

Tracking Number: [1ZV257424295309543](#)

Ship To: CITY OF NORWALK
125 EAST AVENUE
NORWALK, CT 06851
US

Number of Packages: 1

UPS Service: UPS Ground

Package Weight: 1.0 LBS

Reference Number: CT11076B CSC EO II

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Kyle Richers

From: UPS <pkginfo@ups.com>
Sent: Tuesday, October 11, 2022 12:44 PM
To: KRICHERS@TRANSCENDWIRELESS.COM
Subject: UPS Delivery Notification, Tracking Number 1ZV257424299419551



Hello, your package has been delivered.

Delivery Date: Tuesday, 10/11/2022

Delivery Time: 12:41 PM

Left At: RECEIVER

Signed by: HALL

TRANSCEND WIRELESS

Tracking Number: [1ZV257424299419551](#)

Ship To: CITY OF NORWALK
125 EAST AVENUE
ROOM 129
NORWALK, CT 06851
US

Number of Packages: 1

UPS Service: UPS Ground

Package Weight: 1.0 LBS

Reference Number: CT11076B CSC ZO II

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UPS Exception Notification, Tracking Number 1ZV257424296219531

From: UPS (auto-notify@ups.com)

To: krrichers@yahoo.com

Date: Tuesday, October 11, 2022 at 08:22 PM EDT



The status of your package has changed.

Exception Reason:

The receiver is not listed in the building directory. We are attempting to update this information.

At the request of TRANSCEND WIRELESS, this notice alerts you that the status of the shipment listed below has changed.

Signature Required:

A signature is required for package delivery

Shipment Details

Tracking Number:	<u>1ZV257424296219531</u>
Ship To:	Norwalk First Taxing District 3 Belden Avenue Norwalk, CT 06850 US
UPS Service:	UPS GROUND
Package Weight:	1.0 LBS
Reference Number 1:	CT11076B CSC Owner II

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View/Print Label

1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialogue box that appears. Note: If your browser does not support this function, select Print from the File menu to print the label.

2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3. GETTING YOUR SHIPMENT TO UPS

Customers with a scheduled Pickup

- o Your driver will pickup your shipment(s) as usual.

Customers without a scheduled Pickup

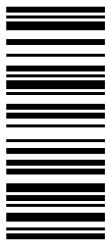
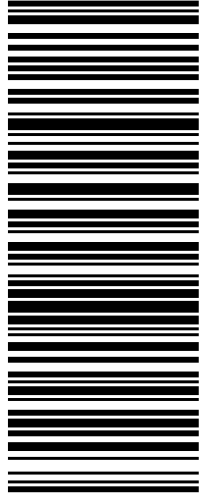

- o Schedule a Pickup on ups.com to have a UPS driver pickup all of your packages.
- o Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. To find the location nearest you, please visit the 'Locations' Quick link at ups.com.

UPS Access Point™
 THE UPS STORE
 338 PALISADE AVE
 JERSEY CITY NJ 07307-1753

UPS Access Point™
 THE UPS STORE
 330 WASHINGTON ST
 HOBOKEN NJ 07030-4883

UPS Access Point™
 HEALTH AID DRUGS
 212 PALISADE AVE
 JERSEY CITY NJ 07306-1116

FOLD HERE

<p style="text-align: right;">1 LBS</p> <p style="text-align: right;">1 OF 1</p> <p>SHIP TO: NORWALK FIRST TAXING DISTRICT 3 BELDEN AVENUE NORWALK CT 06850</p> <p><small>KYLE RICHERS 9084474716 TRANSCEND WIRELESS 508 1ST STREET HOBOKEN NJ 07030</small></p>	<p style="font-size: 2em;">CT 069 9-04</p> 	<p style="font-size: 1.5em;">UPS GROUND</p> <p>TRACKING #: 1Z V25 742 42 9621 9531</p> 	<p style="text-align: center;">BILLING: P/P SIGNATURE REQUIRED</p> <p>Reference #1: CT11076B CSC Owner II</p> <p style="font-size: 0.8em;"><small>XCL 22.10.0B NV45 42.0A 10/2022*</small></p> 
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173 1/2 WEST ROCKS RD

Location 173 1/2 WEST ROCKS RD

Mblu 5/ 22A/ 18/ 0/

Acct# 13222

Owner FIRST TAXING DISTRICT

Assessment \$1,503,080

Appraisal \$2,147,260

PID 13222

Building Count 1

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2018	\$1,451,940	\$695,320	\$2,147,260

Assessment			
Valuation Year	Improvements	Land	Total
2018	\$1,016,360	\$486,720	\$1,503,080

Owner of Record

Owner FIRST TAXING DISTRICT
Co-Owner (WATER DEPT - WATER TANK)
Address 3 BELDEN AVE
 NORWALK, CT 06850-3303

Sale Price \$0
Certificate
Book & Page 365/140
Sale Date 12/31/1940

Ownership History

Ownership History				
Owner	Sale Price	Certificate	Book & Page	Sale Date
FIRST TAXING DISTRICT	\$0		365/140	12/31/1940

Building Information

Building 1 : Section 1

Year Built:
Living Area: 0
Replacement Cost: \$0
Building Percent Good:
Replacement Cost
Less Depreciation: \$0

Building Attributes

Field	Description
Style	Outbuildings
Model:	
Grade	
Stories	
Occupancy	
Exterior Wall 1	
Exterior Wall 2	
Roof Structure:	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Floor 1	
Interior Floor 2	
Heat Fuel	
Heat Type	
AC Type	
Bedrooms	
Full Baths	
Half Baths	
Extra Fixtures	
Total Rooms	
Bath Style	
Kitchen Style	
Extra Kitchens	
Frame	
Insulation	
Bsmt Garage	
Foundation	
FBM Area	
FBM Quality	
Fireplaces	
# of Heat Systems	
Central Vac	
Solar HW	
Electrical	
Heat Percent	

Building Photo



(<https://images.vgsi.com/photos/NorwalkCTPhotos//00\00\37\60.jpg>)

Building Layout

 Building Layout (ParcelSketch.ashx?pid=13222&bid=13222)

Building Sub-Areas (sq ft)	Legend
No Data for Building Sub-Areas	

Extra Features

Extra Features	Legend

No Data for Extra Features

Land

Land Use

Use Code 920V
Description Mun Land Comm
Zone A1
Neighborhood C201

Land Line Valuation

Size (Acres) 1.85
Frontage
Depth
Assessed Value \$486,720
Appraised Value \$695,320

Outbuildings

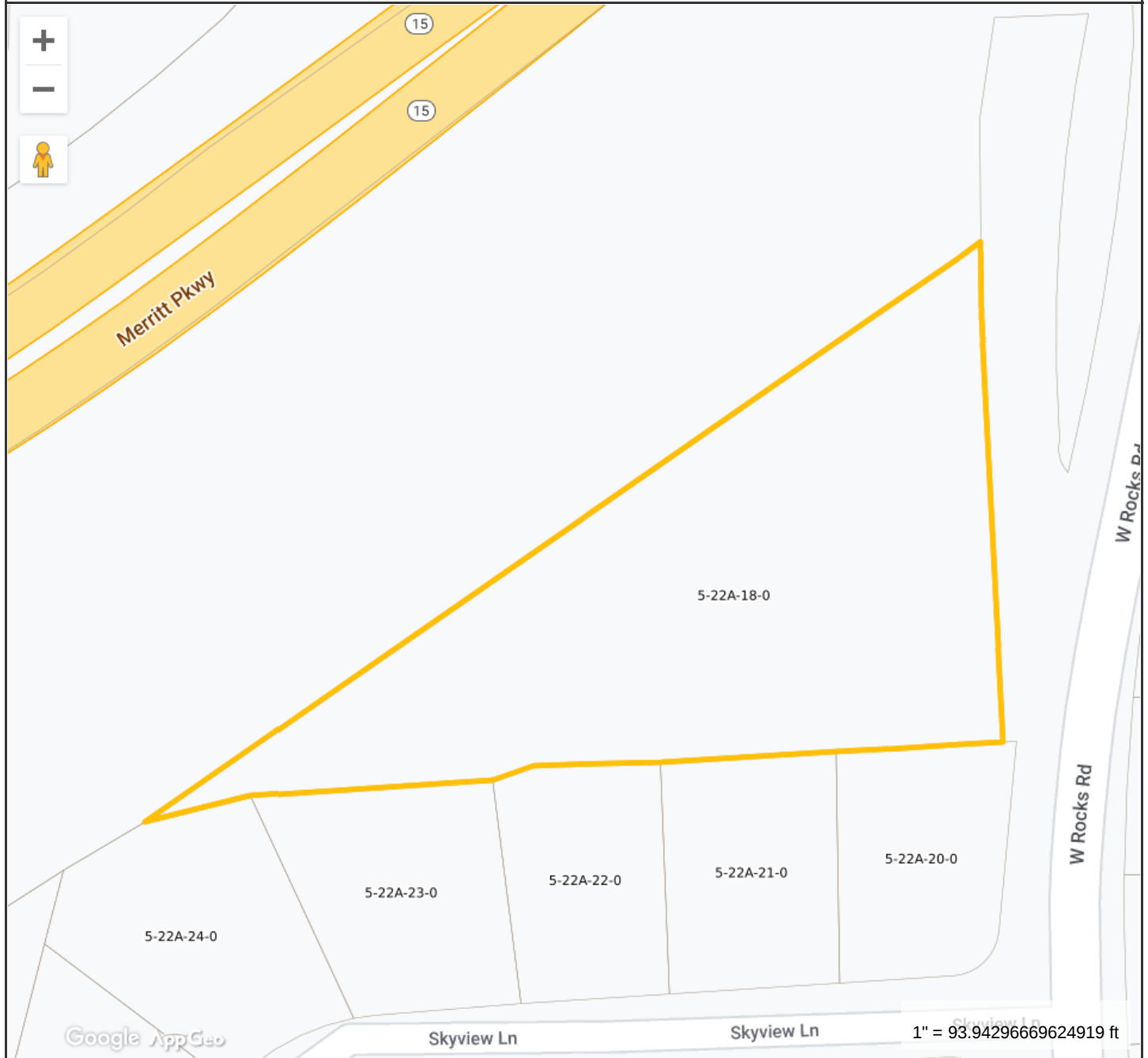
Outbuildings						<u>Legend</u>
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
TWR	Water Tower			250000.00 GAL	\$1,125,000	1
FN6	Fence 6'			290.00 L.F.	\$2,640	1
SHD4	Cell Equip	FR	Frame	220.00 S.F.	\$33,000	1
SHD4	Cell Equip	FR	Frame	574.00 S.F.	\$86,100	1
SHD4	Cell Equip	FR	Frame	168.00 S.F.	\$25,200	1
SHD4	Cell Equip	FR	Frame	200.00 S.F.	\$30,000	1
CEL2	Cell Rooftop			4.00 UNITS	\$150,000	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2021	\$1,451,940	\$695,320	\$2,147,260
2020	\$1,451,940	\$695,320	\$2,147,260
2019	\$1,451,940	\$695,320	\$2,147,260

Assessment			
Valuation Year	Improvements	Land	Total
2021	\$1,016,360	\$486,720	\$1,503,080
2020	\$1,016,360	\$486,720	\$1,503,080
2019	\$1,016,360	\$486,720	\$1,503,080

CT11076 GIS MAP



Norwalk Information

ID 103-5-22A-18-0
Site Address 173 1/2 WEST ROCKS RD
Owner FIRST TAXING DISTRICT
Co-Owner (WATER DEPT - WATER TANK)
Owner Address 3 BELDEN AVE



**MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT**

Regional Map Viewer makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

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STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

VIA ELECTRONIC MAIL

November 19, 2021

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597
kbaldwin@rc.com

RE: **DOCKET NO. 489** – The First Taxing District Water Department of Norwalk Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of a telecommunications facility located at 173 ½ West Rocks Road, Norwalk, Connecticut.

Dear Attorney Baldwin:

At a public meeting of the Connecticut Siting Council (Council) held on November 18, 2021, the Council considered and approved the Development and Management (D&M) Plan submitted for this project on October 1, 2021.

This approval applies only to the D&M Plan submitted on October 1, 2021, and additional information received on October 20, 2021 and October 28, 2021. Requests for any changes to the D&M Plan shall be approved by Council staff in accordance with Regulations of Connecticut State Agencies Section (RCSA) §16-50j-77(b).

The Certificate Holder is responsible for compliance with the reporting requirements under RCSA 16-50j-77, including:

1. Contact information for the personnel of the contractor assigned to the project;
2. Notification of commencement of construction;
3. Quarterly construction progress reports;
4. Notification of completion of construction and commencement of operation; and
5. Final report.

Please be advised that deviations from the approved D&M Plan and non-compliance with the D&M Plan reporting requirements are enforceable under Connecticut General Statutes § 16-50u.

Enclosed is a copy of the staff report for this D&M Plan, dated November 18, 2021.

Thank you for your attention and cooperation.

Sincerely,

Melanie A. Bachman
Executive Director

MAB/MP/lm

Enclosure: Staff Report, dated November 18, 2021



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

Docket No. 489

The First Taxing District Water Department of Norwalk

173 ½ West Rocks Road, Norwalk

Development and Management Plan

Staff Report

November 18, 2021

On November 23, 2020, the Connecticut Siting Council (Council) issued a Certificate of Environmental Compatibility and Public Need (Certificate) to The First Taxing District Water Department of Norwalk (FTD) for the construction, maintenance, and operation of a 130-foot wireless telecommunications facility located at 173 ½ West Rocks Road, Norwalk, Connecticut. As required in the Council's Decision and Order (D&O), FTD submitted a Development and Management (D&M) Plan to the Council, the City of Norwalk and parties and intervenors on October 1, 2021.

On October 7, 2021, the Council issued interrogatories to FTD. On October 20, 2021, FTD submitted responses to the Council's interrogatories. On October 28, 2021, FTD submitted its revised landscaping plan.

The site is located on a 1.90-acre parcel owned by FTD and used for water company purposes. Land uses south and east of the subject property are residential. An Eversource transmission line corridor is located directly to the north and west of the subject property, and the Merritt Parkway (Route 15) is located farther to the north and west on the opposite side of the Eversource transmission corridor.

FTD currently maintains an existing 115-foot tall 100,000-gallon water tank in the northeast portion of the subject property that supports the antennas of New Cingular Wireless PCS, LLC (AT&T), Cellco Partnership d/b/a Verizon Wireless (Cellco), T-Mobile Northeast, LLC (T-Mobile), and Sprint Spectrum (Sprint) (collectively, the "Wireless Carriers"). FTD received Norwalk Zoning Commission approval to install a new 116-foot tall 500,000-gallon replacement water tank in the central portion of the subject property, and FTD will remove the existing water tank.

Consistent with the Council's D&O, FTD will construct a 130-foot monopole to accommodate the Wireless Carriers, and it will be designed in accordance with the EIA/TIA standard "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures- Revision H". The tower will be located approximately 100 feet west-southwest of the planned replacement water tank. The tower can support four levels of antennas and the potential for a 20-foot extension to accommodate additional future tower sharing. AT&T will install six panel antennas, 12 remote radio heads (RRHs) and three surge arresters on T-arm mounts at a centerline height of 126 feet above ground level. Cellco will install nine panel antennas and six RRHs on T-arm mounts at a centerline height of 116 feet agl. T-Mobile and Sprint will share one level on the tower and install nine panel antennas and six RRHs on T-arm mounts at a centerline height of 106 feet agl¹.

The nearest property boundary is approximately 49 feet to the northwest. In accordance with D&O Condition 2(b), the tower is designed with a yield point or hinge point at approximately 110 feet above ground level to ensure that the tower setback radius remains within the boundaries of the subject property.

FTD will construct a 3,518 square foot irregularly shaped equipment compound at the site. The compound will be enclosed by a 6-foot high black vinyl-coated chain link fence with a 12-foot wide double-swing gate on the northeastern side of the compound. Black vinyl privacy slats will be installed along the southern

¹ The 96-foot level of tower was originally proposed to be occupied by Sprint; this location on the tower will now be available for a future carrier co-location.

side of the compound fence for screening for the residential properties to the south. Cellco will install two equipment cabinets on a 20-foot by 10-foot concrete pad within the compound. AT&T will install one approximately 6-foot 8-inch square by 9-foot 5-inch high walk-in equipment cabinet on a 20-foot by 10-foot concrete pad within the compound. T-Mobile/Sprint will install two equipment cabinets on a 20-foot by 10-foot concrete pad within the compound. The equipment pads for Cellco and T-Mobile/Sprint will have 10-foot high canopies on top. AT&T's equipment pad will have a 12-foot high canopy to accommodate its taller walk-in equipment cabinet.

Access to the site from West Rocks Road will be provided over a portion of an access drive serving the new FTD water tank and will continue over a new approximately 350-foot long gravel driveway extension to reach the tower compound.

Utilities will be installed underground from Pole #9701 on West Rocks Road and will run generally parallel to and directly north of the access drive route to reach the compound area.

Emergency power will be provided to Cellco's equipment by both a battery cabinet and a 30-kW propane-fueled backup generator on its 20-foot by 10-foot concrete pad within the compound. AT&T will install a 20-kW propane-fueled generator on its 20-foot by 10-foot concrete pad within the compound. T-Mobile/Sprint will utilize battery backup only. Two 500-gallon propane fuel tanks (one for Cellco and one for AT&T) will be installed on a 17-foot 4-inch by 12-foot concrete pad within the compound, and it will have a 10-foot high canopy on top.

Fourteen trees will be removed to develop the tower site. There are no wetlands or watercourses within the construction limits of the new access drive or compound.

In accordance Condition 2(e) of the Council's D&O, FTD will implement an Aquifer Protection Plan (APP) to be protective of the DEEP-designated Kellogg-Deering Aquifer Protection Area. The APP will include, but not be limited to, the following: protective measures/precautions; monitoring and notification plans in accordance with DEEP recommendations; proper installation and monitoring of erosion and sedimentation controls; a petroleum/hazardous materials storage and spill prevention plan; herbicide/pesticide best management practices; proper treatment of stormwater runoff; and notification and reporting to FTD and the Council.

The tower and all tower-mounted equipment will be painted Sherwin Williams SW 4069 Emerald Ice color. This will match the top portion of the new water tank and comply with a recommendation of the State Historic Preservation Office. Twelve Norway spruce trees approximately seven to eight feet in height will be planted along the southern and eastern side of the compound.

Construction activities will comply with the *2002 Connecticut Guidelines for Soil Erosion and Sedimentation Control*.

Construction hours will be 7 AM to 8 PM on Monday through Friday and 8 AM to 8 PM on Saturday.

Consistent with the Council's D&O, the cumulative worst-case radio frequency power density level at the base of the tower will be 26.6 percent of the FCC's General Public/Uncontrolled Maximum Permissible Exposure limit taking into account a 10 dB off-beam pattern loss to account for the relative gain below the antennas.

The D&M Plan is consistent with the Council's D&O for Docket No. 489.

Protector™ Series

Diesel Generator Set

INCLUDES:

- Two Line LCD Multilingual Digital Evolution™ Controller (English/Spanish/French/Portuguese) with external viewing window for easy indication of generator status and breaker position.
- Isochronous Electronic Governor
- Sound Attenuated Aluminum Enclosure
- Smart Battery Charger
- UV/Ozone Resistant Hoses
- ±1% Voltage Regulation
- Integrated Base Tank Provides Up to 40 Hours of Run Time
- 5 Year Limited Warranty*
- UL 2200 / UL142 / ULC S601 Listed
- Meets code requirements for External Vent and Fill

Standby Power Rating

- Model RD015 - 15 kW 60 Hz
- Model RD020 - 20 kW 60 Hz
- Model RD030 - 30 kW 60 Hz
- Model RD048 - 48 kW 60 Hz (single phase only)
- Model RD050 - 50 kW 60 Hz (three phase only)



QUIET-TEST™



*Built in the USA using domestic and foreign parts

Meets EPA Emission Regulations
CA/MA Emissions Compliant

* 5 year warranty applicable to U.S. and Territories/Canada. International warranty is 3 year limited.

FEATURES

- **INNOVATIVE DESIGN & PROTOTYPE TESTING** are key components of GENERAC'S success in "IMPROVING POWER BY DESIGN." But it doesn't stop there. Total commitment to component testing, reliability testing, environmental testing, destruction and life testing, plus testing to applicable CSA, NEMA, EGSA, and other standards, allows you to choose GENERAC POWER SYSTEMS with the confidence that these systems will provide superior performance.
- **SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION.** This state-of-the-art power maximizing regulation system is standard on all Generac models. It provides optimized FAST RESPONSE to changing load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine. Digital voltage regulation at ±1%.
- **TEST CRITERIA:**
 - ✓ PROTOTYPE TESTED
 - ✓ SYSTEM TORSIONAL TESTED
 - ✓ NEMA MG1-22 EVALUATION
 - ✓ MOTOR STARTING ABILITY
- **SINGLE SOURCE SERVICE RESPONSE** from Generac's extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.
- **GENERAC TRANSFER SWITCHES.** Long life and reliability are synonymous with GENERAC POWER SYSTEMS. One reason for this confidence is that the GENERAC product line includes its own transfer systems and controls for total system compatibility.

15 • 20 • 30 • 48 • 50 kW**application & engineering data****GENERATOR SPECIFICATIONS**

Type	Synchronous
Rotor Insulation Class	H (15 & 20 kW) or F (30, 48 & 50 kW)
Stator Insulation Class	H
Telephone Interference Factor (TIF)	<50
Alternator Output Leads 1-Phase	3 wire
Alternator Output Leads 3-Phase	6 wire
Bearings	Single Sealed Cartridge
Coupling	Direct, Flexible Disc
Excitation System	Direct

VOLTAGE REGULATION

Type	Electronic
Sensing	Single Phase
Regulation	± 1%
Features	Adjustable Voltage & Gain

GOVERNOR SPECIFICATIONS

Type	Electronic Isochronous
Steady State Regulation	± 0.25%

ELECTRICAL SYSTEM

Battery Charge Alternator	50 Amp (15 & 20 kW) or 70 Amp (30, 48 & 50 kW)
Smart Battery Charger	2 Amp
Recommended Battery (battery not included)	Group 27F, 700 CCA
System Voltage	12 Volts

GENERATOR FEATURES

<p>Revolving field heavy duty generator Directly connected to the engine Operating temperature rise 120°C above a 40°C ambient Class H insulation is NEMA rated Class F insulation is NEMA rated All models fully prototype tested</p>

ENCLOSURE FEATURES

Aluminum weather protective enclosure	Ensures protection against mother nature. Electrostatically applied textured epoxy paint for added durability.
Enclosed critical grade muffler	Quiet, critical grade muffler is mounted inside the unit to prevent injuries and maximize sound dampening.
Small, compact, attractive	Makes for an easy, eye appealing installation.
SAE	Sound attenuated enclosure ensures quiet operation.

(All ratings in accordance with BS5514, ISO3046, ISO8528, SAE J1349 and DIN6271)

15 • 20 • 30 • 48 • 50 kW

application & engineering data

ENGINE SPECIFICATIONS: 15 & 20 kW

Make	Generac
Model	In-line
Cylinders	4
Displacement (Liters)	2.28
Bore (in./mm)	3.46/88
Stroke (in./mm)	3.70/94
Compression Ratio	21.3:1
Intake Air System	Naturally Aspirated
Cylinder Head Type	Cast Iron OHV
Piston Type	Aluminum
EPA Emissions Compliance	Emergency Stationary

ENGINE SPECIFICATIONS: 30 kW

Make	Generac
Model	In-line
Cylinders	4
Displacement (Liters)	2.4
Bore (in./mm)	3.54/90
Stroke (in./mm)	3.70/94
Compression Ratio	21.3:1
Intake Air System	Turbocharged
Cylinder Head Type	Cast Iron OHV
Piston Type	Aluminum
EPA Emissions Compliance	Emergency Stationary

ENGINE SPECIFICATIONS: 48/50 kW

Make	Generac
Model	In-Line
Cylinders	4
Displacement (Liters)	3.4
Bore in/mm	3.86/98
Stroke in/mm	4.45/113
Compression Ratio	18.5:1
Intake Air System	Turbocharged/Aftercooled
Cylinder Head Type	Cast Iron OHV
Piston Type	Aluminum
EPA Emissions Compliance	Emergency Stationary

WEIGHTS AND DIMENSIONS

	15 kW	20 kW	30 kW	48 kW	50 kW
Weight (lb/kg)	1380/626		1927/874	2197/997	
Dimensions (LxWxH) (in/cm)	81 x 31 x 50/205 x 78 x 128		95 x 35 x 57/242 x 89 x 145		

ENGINE LUBRICATION SYSTEM

Oil Pump Type	Gear
Oil Filter Type	Full flow spin-on canister
Crankcase Capacity (quarts/liters)	6.87/6.5 - 15 & 20 kW
	6.8/6.4 - 30 kW
	7.4/7 - 48 & 50 kW

ENGINE COOLING SYSTEM

Type	Pressurized radiator - 15 & 20 kW Closed recovery - 30, 48 & 50 kW
Water Pump	Pre-lubed, self-sealing
Fan Speed (rpm)	1800 - 15 & 20 kW
	2061 - 30 kW
	2029 - 48 & 50 kW
Fan Diameter (in./mm)	18.11/460 (15 & 20 kW) 22/559 (30, 48 & 50 kW)
Fan Mode	Pusher

FUEL SYSTEM

Fuel Type	Ultra Low Sulfur Diesel Fuel
Fuel Pump Type	Mechanical Engine Driven Gear
Injector Type	Mechanical
Fuel Supply Line (mm/in)	7.94/0.31 (ID)
Fuel Return Line (mm/in)	7.94/0.31 (ID)
Fuel Specification	ASTM
Fuel Filtering (microns)	5 - 15, 20 & 30 kW
	10 - 48 & 50 kW

TANK SPECIFICATIONS

Total Size (gallons/liters)	34/128.7 - 15 & 20 kW
	62/234.7 - 30, 48 & 50 kW
Usable Size (gallons/liters)	32/121.1 - 15 & 20 kW
	57/215.8 - 30, 48 & 50 kW
Run Time @ 1/2 Load (hrs)	41 - 15 kW
	31 - 20 kW
	38 - 30 kW
	25 - 48 & 50 kW
Listings	UL142
	ULC-S601

15 • 20 • 30 • 48 • 50 kW

operating data

GENERATOR OUTPUT VOLTAGE/kW - 60 Hz

		kW (Standby)	Amp (Standby)	CB Size
RD015	120/240 V, 1Ø, 1.0 pf	15	62	70
	120/208 V, 3Ø, 0.8 pf	15	52	60
	120/240 V, 3Ø, 0.8 pf	15	45	50
RD020	120/240 V, 1Ø, 1.0 pf	20	83	100
	120/208 V, 3Ø, 0.8 pf	20	69	80
	120/240 V, 3Ø, 0.8 pf	20	60	70
RD030	120/240 V, 1Ø, 1.0 pf	30	125	150
	120/208 V, 3Ø, 0.8 pf	30	104	125
	120/240 V, 3Ø, 0.8 pf	30	90	100
	277/480 V, 3Ø, 0.8 pf	30	45	50
RD048/ RD050	120/240 V, 1Ø, 1.0 pf	48	200	200
	120/208 V, 3Ø, 0.8 pf	50	173	200
	120/240 V, 3Ø, 0.8 pf	50	150	175
	277/480 V, 3Ø, 0.8 pf	50	75	90

SURGE CAPACITY IN AMPS

		Voltage Dip @ < .4 pf	
		15%	30%
RD015	120/240 V, 1Ø	53	129
	120/208 V, 3Ø	37	90
	120/240 V, 3Ø	32	78
RD020	120/240 V, 1Ø	87	211
	120/208 V, 3Ø	59	143
	120/240 V, 3Ø	51	124
RD030	120/240 V, 1Ø	66	168
	120/208 V, 3Ø	59	144
	120/240 V, 3Ø	51	125
	277/480 V, 3Ø	26	64
RD048/ RD050	120/240 V, 1Ø	69	189
	120/208 V, 3Ø	90	218
	120/240 V, 3Ø	78	189
	277/480 V, 3Ø	36	87

ENGINE FUEL CONSUMPTION

		gal/hr	L/hr
RD015	25% of rated load	0.51	1.93
	50% of rated load	0.79	2.99
	75% of rated load	1.14	4.31
	100% of rated load	1.48	5.58
RD020	25% of rated load	0.67	2.6
	50% of rated load	1.05	3.97
	75% of rated load	1.52	5.32
	100% of rated load	1.98	7.48
RD030	25% of rated load	0.92	3.5
	50% of rated load	1.45	5.5
	75% of rated load	1.96	7.4
	100% of rated load	2.74	10.4
RD048/ RD050	25% of rated load	1.35	5.11
	50% of rated load	2.15	8.14
	75% of rated load	3.06	11.58
	100% of rated load	3.98	15.07

STANDBY RATING: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046-1. Design and specifications are subject to change without notice.

15 • 20 • 30 • 48 • 50 kW

operating data

ENGINE COOLING

	15 kW	20 kW	30 kW	48/50 kW
Air flow (inlet air including alternator and combustion air in cfm/cmm)	2824/80	2824/80	3038/86	2824/80
System coolant capacity (gal/liters)	2.8/10.6	2.8/10.6	2.8/10.6	2.8/10.6
Heat rejection to coolant (BTU per hr/MJ per hr)	63,535/67	63,535/67	111,000/117.1	135,900/143.4
Maximum operation air temperature on radiator (°C/°F)	50/122			
Maximum ambient temperature (°C/°F)	50/122			

COMBUSTION REQUIREMENTS

Flow at rated power (cfm/cmm)	84.76/2.4	84.76/2.4	90/2.55	190/5.38
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SOUND EMISSIONS

Sound output in dB(A) at 23 ft (7 m) with generator in exercise mode*	65
Sound output in dB(A) at 23 ft (7 m) with generator operating at normal load*	70

*Sound levels are taken from the front of the generator. Sound levels taken from other sides of the generator may be higher depending on installation parameters.

EXHAUST

Exhaust flow at rated output (cfm/cmm)	98.88/2.8	98.88/2.8	230/6.51	448/12.7
Exhaust temperature at rated output (°C/°F)	604.4/1120	604.4/1120	454.4/850	604.4/1120

ENGINE PARAMETERS

Rated Synchronous RPM	1800			
HP at rated kW	26.4	33.5	49	85

POWER ADJUSTMENT FOR AMBIENT CONDITIONS

Temperature Deration	3% for every 5 °C above 25 °C or 1.7% for every 5 °F above 77 °F
Altitude Deration (15, 30, 48 & 50 kW)	1% for every 100 m above 915 m or 3% for every 1000 ft above 3000 ft
Altitude Deration (20 kW)	1% for every 100 m above 305 m or 3% for every 1000 ft above 1000 ft

CONTROLLER FEATURES

2-Line Plain Text Multilingual LCD Display	Simple user interface for ease of operation.
Mode Buttons: Auto	Automatic Start on Utility failure. Programmable 7 day exerciser.
Manual	Start with starter control, unit stays on. If utility fails, transfer to load takes place.
Off	Stops unit. Power is removed. Control and charger still operate.
Ready to Run/Maintenance Messages	Standard
Engine Run Hours Indication	Standard
Programmable start delay between 2-1500 seconds	Standard (programmable by dealer only)
Utility Voltage Loss/Return to Utility Adjustable	From 140-171 V/190-216 V
Future Set Capable Exerciser/Exercise Set Error Warning	Standard
Run/Alarm/Maintenance Logs	50 Events Each
Engine Start Sequence	Cyclic cranking: 16 sec on, 7 rest (90 sec maximum duration).
Starter Lock-out	Starter cannot re-engage until 5 sec after engine has stopped.
Smart Battery Charger	Standard
Charger Fault/Missing AC Warning	Standard
Low Battery/Battery Problem Protection and Battery Condition Indication	Standard
Automatic Voltage Regulation with Over and Under Voltage Protection	Standard
Under-Frequency/Overload/Stepper Overcurrent Protection	Standard
Safety Fused/Fuse Problem Protection	Standard
Automatic Low Oil Pressure/High Oil Temperature Shutdown	Standard
Overcrank/Overspeed (@ 72 Hz)/RPM Sense Loss Shutdown	Standard
High Engine Temperature Shutdown	Standard
Internal Fault/Incorrect Wiring Protection	Standard
Common External Fault Capability	Standard
Field Upgradable Firmware	Standard

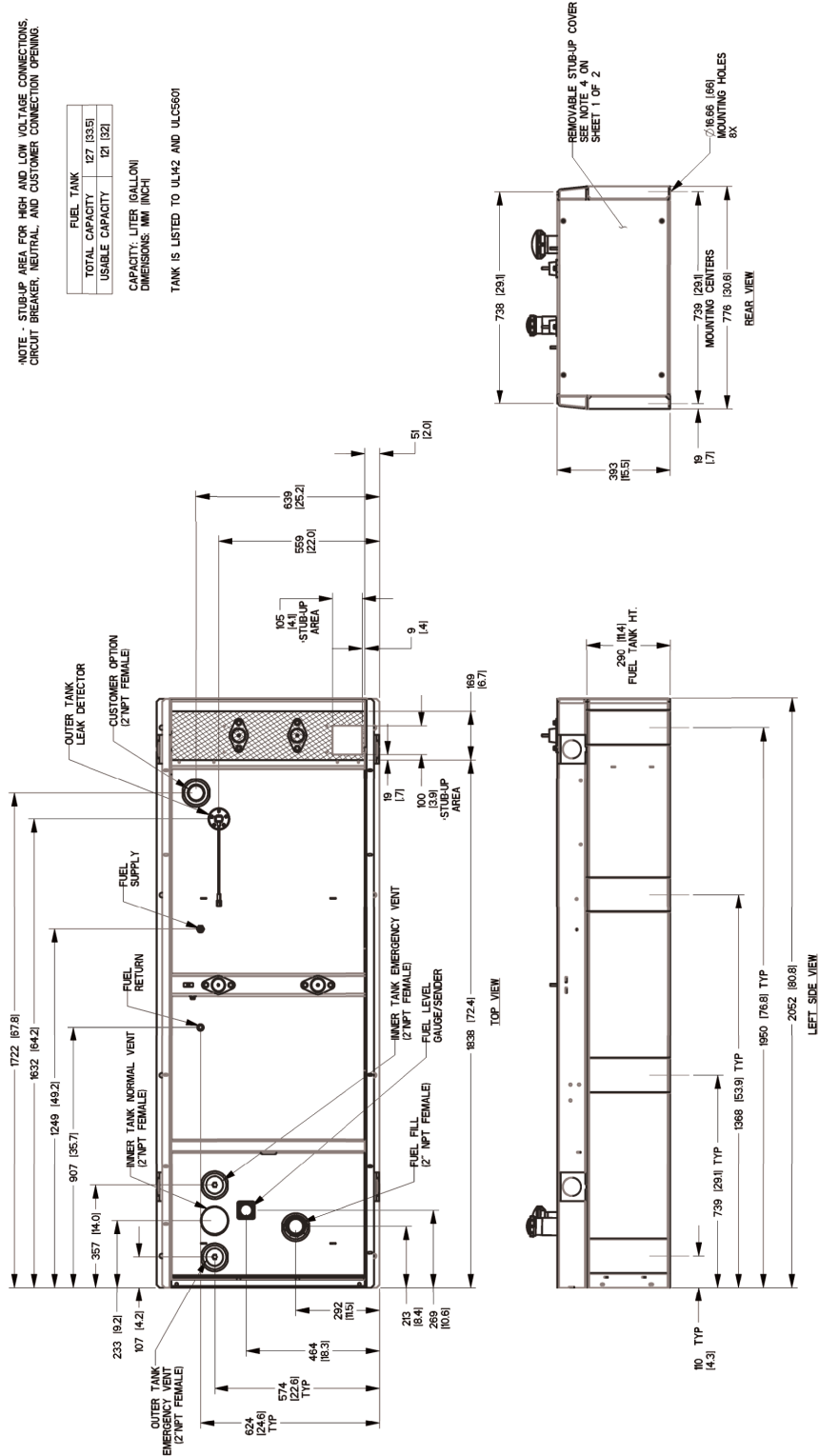
15 & 20 kW

NOTE - STUBUP AREA FOR HIGH AND LOW VOLTAGE CONNECTIONS, CIRCUIT BREAKER, NEUTRAL, AND CUSTOMER CONNECTION OPENING.

FUEL TANK	
TOTAL CAPACITY	127 [33.5]
USABLE CAPACITY	121 [32]

CAPACITY: LITER (GALLON)
DIMENSIONS: MM (INCH)

TANK IS LISTED TO UL142 AND ULCS601



15 • 20 • 30 • 48 • 50 kW**available accessories**

Model #	Product	Description
G006463-4	Mobile Link™	Generac's Mobile Link allows you to check the status of your generator from anywhere that you have access to an Internet connection from a PC or with any smart device. You will even be notified when a change in the generator's status occurs via e-mail or text message. Note: Harness Adapter Kit required. Available in the U.S. only.
G006478-0	Harness Adapter Kit	The Harness Adapter Kit is required to make liquid-cooled units compatible with Mobile Link™.
G006502-0	Spill Box	The 5-gallon spill box screws into the existing fuel fill port of the base tank. It captures and contains fuel if over fueling or spilling occurs during the fill process.
G006504-0	90% Fuel Level Alarm	The 90% fuel level alarm alerts the fuel fill operator when the tank reaches a 90% fill level by sounding an audible alarm and triggering an LED warning light.
G006505-0 - 15 & 20 kW G006506-0 - 30, 48 & 50 kW	Tank Risers	Tank risers are required in some municipalities to help avoid potential base tank corrosion caused by mounting on rough surfaces.
G006507-0	Fuel Fill Drop Tube	A powder coat painted, steel fuel fill drop tube is required in some municipalities to prevent sparking due to static electricity buildup, which can be caused by the fuel dropping into the tank from the fill area. Using a drop tube also results in submerged filling, which increases the fuel delivery flow rate and reduces vapors, foam and potential tank evaporation.
G006513-0 - 15 & 20 kW G006517-0 - 30 kW G006516-0 - 48 & 50 kW	Stainless Steel Fuel Lines	Some municipalities require the use of stainless steel fuel lines instead of the standard hoses provided with the diesel generator products. These stainless steel lines are fire resistant for additional safety.
G006510-0	E-Stop	E-stop allows for immediate fuel shutoff and generator shutdown in the event of an emergency.
006511-0	Spill Box Drainback Kit	The spill box drainback kit allows fuel that was captured in the 5-gallon spill box to be drained directly back into the fuel tank to avoid vapors.
G006588-1	Vent Extension Support Kit	The vent extension support kit consists of two aluminum plates with the appropriate pipe cutouts to secure the vent extension pipes coming through the top of the generator enclosure. It helps to minimize stress on the NPT fittings integrated on the tank and also helps protect against pests.
G006512-0	Lockable Fuel Cap	The cast iron, lockable fuel cap provides the ability to lock the fuel system to prevent unwanted fuel tampering or fuel siphoning.
G006572-0 - 15 & 20 kW G006571-0 - 30 kW G006570-0 - 48 & 50 kW	Maintenance Kits	The Protector Maintenance Kits offer all the hardware necessary to perform complete maintenance on Generac Protector generators.
G006560-0 - 15 & 20 kW G006559-0 - 30 kW G006558-0 - 48 & 50 kW	Cold Weather Kits	Recommended for generators installed in regions where the temperature regularly falls below 32 °F (0 °C). The Cold Weather Kits consist of a block heater with all necessary mounting hardware and a battery warmer with a thermostat built into the battery wrap.
G005704-0	Paint Kit	If the generator enclosure is scratched or damaged, it is important to touch-up the paint to protect from future corrosion. The paint kit includes the necessary paint to properly maintain or touch-up a generator enclosure.
G006664-0	Local Wireless Remote	Completely wireless and battery powered, Generac's wireless remote monitor provides you with instant status information without ever leaving the house.
G006665-0	Wireless Remote Extension Harness	Recommended for use with the Wireless Remote on units up to 60 kW, required for use on units 70 kW or greater.
G006873-0	Smart Management Module (50 Amps)	Manage large loads by utilizing up to 8 individual Smart Management modules. These devices are installed directly in line with existing appliance wiring for easy installation.