August 20, 2020

CASE#: AP_2020-0028
DATE FILED: 7/15/2020
OWNER: CHRISTOPHER C. NELSON
APPLICANT/AGENT: ALICIA MILLER C/O SMARTLINK FOR AT&T
REQUEST: Administrative Permit to install one 30 kilowatt back up diesel generator and a 190 gallon sub-base diesel fuel tank. Ancillary developments include placement of a 4 ft. by 10 ft. concrete pad, connection into existing electrical services and installation of an automatic transfer switch and noise reduction acoustic enclosure.
LOCATION: 6.3± miles south of the City of Ukiah, on the east side of US Highway 101 (US 101), 1± mile north of its intersection with McNab Ranch Road (private), located at 7381 South Highway 101, Ukiah (APN: 186-240-01).
SUPERVISORIAL DISTRICT: 5
STAFF PLANNER: CHEVON HOLMES
RESPONSE DUE DATE: September 3, 2020

PROJECT INFORMATION CAN BE FOUND AT:
https://www.mendocinocounty.org/government/planning-building-services/public-agency-referrals

Mendocino County Planning & Building Services is soliciting your input, which will be used in staff analysis and forwarded to the appropriate public hearing. You are invited to comment on any aspect of the proposed project(s). Please convey any requirements or conditions your agency requires for project compliance to the project coordinator at the above address, or submit your comments by email to pbs@mendocinocounty.org. Please note the case number and name of the project coordinator with all correspondence to this department.

We have reviewed the above application and recommend the following (please check one):

☐ No comment at this time.
☐ Recommend conditional approval (attached).
☐ Applicant to submit additional information (attach items needed, or contact the applicant directly, copying Planning and Building Services in any correspondence you may have with the applicant)
☐ Recommend denial (Attach reasons for recommending denial).
☐ Recommend preparation of an Environmental Impact Report (attach reasons why an EIR should be required).
☐ Other comments (attach as necessary).

__________________________________________________________
__________________________________________________________
__________________________________________________________

REVIEWED BY:

Signature ___________________________    Department ___________________________    Date ___________________________
OWNER: CHRISTOPHER NELSON TTEE

APPLICANT: Alicia Miller c/o Smartlink for AT&T

AGENT: Alicia Miller c/o Smartlink for AT&T

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APN/S: 186-240-01

PARCEL SIZE: Leased area of 1,600 Square Feet on a 53.66± Acre Parcel

GENERAL PLAN: Rangeland, 160 Acre Minimum Parcel Size (RL160)

ZONING: Rangeland, 160 Acre Minimum Parcel Size (RL:160)

EXISTING USES: Telecommunications Facility & Agriculture

SUPERVISORIAL DISTRICT: 5th (Williams)

RELATED CASES:
• Use Permit UM 1-2001 was approved by the Planning Commission on October 4, 2001 permitting Edge Wireless, now AT&T Mobility, to install a 70 foot tall wooden pole to support 3 panel antennas and a 2x2 square foot antenna, to be “flush mounted” to the pole. Although approved for 70 feet, the pole was built to a height of 67 feet.
• Use Permit Modification #UM 1-2001/2009 was approved by the Planning Commission at the November 19, 2009 public hearing allowing the 67 foot wooden pole to be replaced with a new 72 foot faux wood pole as well as permitting T-Mobile to “flush-mount” 3 panel antennas and 1 microwave dish to the pole. AT&T’s antennas were transferred to the new pole.
• Use Permit Modification #UM 1-2001/2011 was approved by The Planning Commission on September 15, 2011 permitting AT&T Wireless to mount six (6) panel antennas to an existing 72 foot tall wooden pole using T-Arms.
• Administrative Permit AP_2016-0022 was approved by the Planning Commission on November 16, 2016 to allow T-Mobile to install a 7.5 Kw generator and a 99.1 gallon propane tank.
• Administrative Permit AP_2019-0069 was approved by the Zoning Administrator October 16, 2019 to allow three (3) antennas and three (3) TMAs to be relocated to the 60 ft. height of the tower and, three (3) new antennas and three (3) RRHs to be added, one per tower sector to the pole. On the ground, one (1) DUS41 was removed and replaced with two (2) BB6630s inside the existing equipment cabinet.

ADJACENT GENERAL PLAN | ADJACENT ZONING | ADJACENT LOT SIZES | ADJACENT USES
--- | --- | --- | ---
NORTH: RL160 | RL:160 | 67.5± Acres | Agriculture
EAST: RL160 | RL:160 | 2.6± Acres | Agriculture
SOUTH: RL160 | RL:160 | 55.5± Acres | Agriculture
WEST: RL160 | RL:160 | 25.6± Acres | Agriculture

REFERRAL AGENCIES

LOCAL
- Air Quality Management District
- Assessor’s Office
- Building Division (Ukiah)
- Environmental Health (Ukiah)
- Ukiah Valley Fire Protection District

STATE
- CALFIRE (Land Use)

TRIBAL
- Cloverdale Rancheria
- Redwood Valley Rancheria
- Sherwood Valley Band of Pomo Indians

ADDITIONAL INFORMATION: The purpose of the Administrative Permit is to install a backup generator for AT&T at an existing Crown Castle (CCATT LLC) wireless facility. There will be no antenna or equipment changes, no frequency changes, no tower work and no expansion of the existing footprint.

STAFF PLANNER: CHEVON HOLMES

DATE: 8/12/2020
<table>
<thead>
<tr>
<th>ENVIRONMENTAL DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. MAC:</strong></td>
</tr>
<tr>
<td>NO</td>
</tr>
<tr>
<td><strong>2. FIRE HAZARD SEVERITY ZONE:</strong></td>
</tr>
<tr>
<td>Moderate</td>
</tr>
<tr>
<td><strong>3. FIRE RESPONSIBILITY AREA:</strong></td>
</tr>
<tr>
<td>Ukiah Valley Fire Protection District &amp; SRA</td>
</tr>
<tr>
<td><strong>4. FARMLAND CLASSIFICATION:</strong></td>
</tr>
<tr>
<td>Grazing Land (G) and Unique Farmland (U)</td>
</tr>
<tr>
<td><strong>5. FLOOD ZONE CLASSIFICATION:</strong></td>
</tr>
<tr>
<td>NO</td>
</tr>
<tr>
<td><strong>6. COASTAL GROUNDWATER RESOURCE AREA:</strong></td>
</tr>
<tr>
<td>N/A</td>
</tr>
<tr>
<td><strong>7. SOIL CLASSIFICATION:</strong></td>
</tr>
<tr>
<td>Eastern Types</td>
</tr>
<tr>
<td><strong>8. PYGMY VEGETATION OR PYGMY CAPABLE SOIL:</strong></td>
</tr>
<tr>
<td>NO</td>
</tr>
<tr>
<td><strong>9. WILLIAMSON ACT CONTRACT:</strong></td>
</tr>
<tr>
<td>NO</td>
</tr>
<tr>
<td><strong>10. TIMBER PRODUCTION ZONE:</strong></td>
</tr>
<tr>
<td>NO</td>
</tr>
<tr>
<td><strong>11. WETLANDS CLASSIFICATION:</strong></td>
</tr>
<tr>
<td>NO</td>
</tr>
<tr>
<td><strong>12. EARTHQUAKE FAULT ZONE:</strong></td>
</tr>
<tr>
<td>NO</td>
</tr>
<tr>
<td><strong>13. AIRPORT LAND USE PLANNING AREA:</strong></td>
</tr>
<tr>
<td>NO</td>
</tr>
<tr>
<td><strong>14. SUPERFUND/BROWNFIELD/HAZMAT SITE:</strong></td>
</tr>
<tr>
<td>NO</td>
</tr>
<tr>
<td><strong>15. NATURAL DIVERSITY DATABASE:</strong></td>
</tr>
<tr>
<td>NO</td>
</tr>
<tr>
<td><strong>16. STATE FOREST/PARK/RECREATION AREA ADJACENT:</strong></td>
</tr>
<tr>
<td>NO</td>
</tr>
<tr>
<td><strong>17. LANDSLIDE HAZARD:</strong></td>
</tr>
<tr>
<td>NO</td>
</tr>
<tr>
<td><strong>18. WATER EFFICIENT LANDSCAPE REQUIRED:</strong></td>
</tr>
<tr>
<td>NO</td>
</tr>
<tr>
<td><strong>19. WILD AND SCENIC RIVER:</strong></td>
</tr>
<tr>
<td>NO</td>
</tr>
<tr>
<td><strong>20. SPECIFIC PLAN/SPECIAL PLAN AREA:</strong></td>
</tr>
<tr>
<td>NO</td>
</tr>
<tr>
<td><strong>21. STATE CLEARINGHOUSE REQUIRED:</strong></td>
</tr>
<tr>
<td>NO</td>
</tr>
<tr>
<td><strong>22. OAK WOODLAND AREA:</strong></td>
</tr>
<tr>
<td>NO</td>
</tr>
<tr>
<td><strong>23. HARBOR DISTRICT:</strong></td>
</tr>
<tr>
<td>NO</td>
</tr>
</tbody>
</table>
APPLICATION FORM

APPLICANT:

Name: Alicia Miller, Smartlink, Agent for AT&T Mobility  Phone: 201-473-3756

Mailing Address: 360 Civic Drive, Suite C

City: Pleasant Hill  State/Zip: CA / 94523  Email: alicia.miller@smartlinkgroup.com

PROPERTY OWNER:

Name: Gregory T. Nelson (Power of Attorney is CCATT, LLC)  Phone: (602) 845-1701

Mailing Address: 2055 S. Stearman Drive

City: Chandler  State/Zip: AZ / 85286  Email: vendor.helpdesk@crowncastle.com

AGENT:

Name: Same as applicant  Phone:

Mailing Address:

City:  State/Zip:  Email:

ASSESSOR’S PARCEL NUMBER/S: 186-240-01

TYPE OF APPLICATION:

☑ Administrative Permit  ☐ Flood Hazard Development Permit  ☐ Reversion to Acreage
☐ Agricultural Preserve: New Contract  ☐ General Plan Amendment  ☐ Rezoning
☐ Agricultural Preserve: Cancellation  ☐ Land Division – Minor  ☐ Use Permit – Cottage
☐ Agricultural Preserve: Rescind & ReEnter  ☐ Land Division – Major  ☐ Use Permit – Minor
☐ Airport Land Use  ☐ Land Division – Parcel  ☐ Use Permit – Major
☐ Development Review  ☐ Land Division – Re-Subdivision  ☐ Variance
☐ Exception  ☐ Modification of Conditions  ☐ Other

I certify that the information submitted with this application is true and accurate.

Alicia Miller  5/27/2020  (See attached Letter of Authorization)

Signature of Applicant/Agent  Date  Signature of Owner  Date
SITE AND PROJECT DESCRIPTION QUESTIONNAIRE

The purpose of this questionnaire is to relate information concerning your application to the Department of Planning and Building Services and other agencies who will be reviewing your project proposal. Please remember that the clearer picture that you give us of your project and the site, the easier it will be to promptly process your application. Please answer all questions. Those questions which do not pertain to your project please indicate “Not applicable” or “N/A”.

THE PROJECT

1. Describe your project. Include secondary improvements such as wells, septic systems, grading, vegetation removal, roads, etc.

Installing a backup generator for AT&T at an existing Crown Castle (CCATT LLC) wireless facility.

There will be no antenna/equipment changes, no frequency changes, no tower work, no expansion of the footprint. All work for the generator installation will be completed within the existing fenced compound. Proposed Generator Model: Generac SD030 30kW, with a 190-gallon sub-base diesel fuel tank. The project includes pouring a 4' x 10' concrete pad, integrating the existing electrical service, installation of an automatic transfer switch, and Manufacturer’s Acoustic Enclosure for noise shrouding. The generator will only be activated during power outages and for periodic maintenance checks.

<table>
<thead>
<tr>
<th>2. Structures/Lot Coverage</th>
<th>NO. OF UNITS</th>
<th>SQUARE FOOTAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Single Family</td>
<td>1</td>
<td>No change</td>
</tr>
<tr>
<td>□ Mobile Home</td>
<td></td>
<td></td>
</tr>
<tr>
<td>□ Duplex</td>
<td></td>
<td></td>
</tr>
<tr>
<td>□ Multifamily</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| ☒ Other: unmanned
telecommunications | No change | 1,444 |
| ☐ Other: facility         |              |                |
| GRAND TOTAL (Equal to gross area of Parcel): |             | 1,444 |

3. If the project is commercial, industrial or institutional, complete the following:

   Estimated No. of Employees per shift: N/A
   Estimated No. of shifts per day: N/A
   Type of loading facilities proposed: N/A
4. Will the project be phased?
   □ YES   X NO   If yes, explain your plans for phasing:

   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________

5. Will vegetation be removed on areas other than the building sites and roads?
   □ YES   X NO   If no, explain:

   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________

6. Will the project involve the use or disposal of potentially hazardous materials such as toxic substances, flammables, or explosives?
   X YES   □ NO   If yes, explain:

   The generator subtank will store 190 gallons of diesel fuel on site.

   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________

7. How much off-street parking will be provided? N/A Number Size

   No. of covered spaces:   _____   _____
   No. of uncovered spaces:   _____   _____
   No. of standard spaces:   _____   _____
   No. of accessible spaces:   _____   _____
   Existing no. of spaces:   _____   _____
   Proposed additional spaces:   _____   _____
   Total:   _____   _____

8. Is any road construction or grading planned? If yes, grading and drainage plans may be required.
   □ YES   X NO   Also, please describe the terrain to be traversed. (e.g., steep, moderate slope, flat, etc.)

   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________

9. For grading or road construction, complete the following: N/A

   Amount of cut:__________ cubic yards
   Amount of fill:__________ cubic yards
   Max. height of fill slope:__________ feet
   Max. height of cut slope:__________ feet
   Amount of import/export:__________ cubic yards
   Location of borrow or disposal site:______________________________
10. Does the project involve sand removal, mining or gravel extraction? If yes, detailed extraction, reclamation and monitoring plans may be required.

☐ YES ☒ NO

11. Will the proposed development convert land currently or previously used for agriculture to another use?

☐ YES ☒ NO

12. Will the development provide public or private recreation opportunities?

☐ YES ☒ NO If yes, explain how:

13. Is the proposed development visible from State Highway 1 or other scenic route?

☐ YES ☒ NO

14. Is the proposed development visible from a park, beach or other recreational area?

☐ YES ☒ NO

15. Does the development involve diking, filling, dredging or placing structures in open coastal water, wetlands, estuaries or lakes?

Diking: ☐ YES ☒ NO
Filling: ☐ YES ☒ NO
Dredging: ☐ YES ☒ NO
Structures: ☐ Open Coastal Waters ☐ Wetlands ☐ Estuaries ☐ Lakes

If so, what is the amount of material to be dredged/filled?: ______________________ cubic yards
Location of dredged material disposal site?: ________________________________

Has a U.S. Army Corps of Engineers permit been applied for? ☐ YES ☒ NO

16. Will there be any exterior lighting?

☐ YES ☒ NO If yes, describe below and identify the location of all exterior lighting on the plot and building plans.

17. Utilities will be supplied to the site as follows:

Electricity: ☒ Utility Company (service exists to parcel) existing to telecommunications facility
☐ Utility Company (requires extension of service to site): ______ feet _______ miles
☐ On Site Generation – Specify:

Gas: ☐ Utility Company/Tank
☐ On Site Generation – Specify:
☒ None

Telephone: ☒ YES ☐ NO existing
18. What will be the method of sewage disposal? N/A
   □ Community Sewage System (specify supplier): ________________________________
   □ Septic Tank
   □ Other (specify): _________________________________________________________

19. What will be the domestic water source? N/A
   □ Community Water System (specify supplier): ________________________________
   □ Well
   □ Spring
   □ Other (specify): _________________________________________________________

20. Are there any associated projects and/or adjacent properties under your ownership?
    □ YES   ☒ NO   If yes, explain: (e.g., Assessor’s Parcel Number, address, etc.)
    _________________________________________________________________
    _________________________________________________________________
    _________________________________________________________________

21. List and describe any other related permits and other public approval required for this project, including those required by other County departments, city, regional, State and Federal agencies:
    Building permit
    _________________________________________________________________
    _________________________________________________________________
    _________________________________________________________________

22. Describe the location of the site in terms of readily identifiable landmarks: (e.g., mailboxes, mile posts, street intersections, etc.)
    Nelson Ranch Road and So Hwy 101
    _________________________________________________________________
    _________________________________________________________________
    _________________________________________________________________

23. Are there existing structures on the property? If yes, describe below and identify the use of each structure on the plot plan or tentative map if the proposal is for a subdivision.
    ☒ YES   □ NO
    Existing unmanned telecommunications facility
    _________________________________________________________________
    _________________________________________________________________
    _________________________________________________________________

24. Will any existing structure be demolished or removed? If yes, describe the type of development to be demolished or removed, including the relocation site, if applicable.
    □ YES   ☒ NO
25. What is the maximum height of all structures?
   Existing: 73' ______ feet
   Proposed: 73' ______ feet

26. What is the gross floor areas of all structures, including covered parking and accessory buildings?
   Existing: 1,444 ______ square feet
   Proposed: 1,444 ______ square feet

27. What is the total lot area within property lines?
   Total Lot Area: ____________ □ acres □ square feet

28. Briefly describe the project site as it exists before the project, including information on existing structures and their uses, slopes, soil stability, plants and animals, and any cultural, historical or scenic aspects. Attach any photographs of the site that you feel would be helpful:
   Existing telecommunications facility with 73' monopole. There will be no changes to the tower height, antennas or tower equipment, and no footprint expansion. The generator will be installed within the existing fenced compound.

29. Briefly describe the surrounding properties, including information on plants, animals and any cultural, historic or scenic aspects. Indicate the type of land use (use chart below) and its general intensity. Attach any photographs of the vicinity that you feel would be helpful.
   Nearby land is agricultural or vacant

30. Indicate the surrounding land uses:

   North:  X  □  □  □  □  □  □  □  □
   East:   X  □  □  □  □  □  □  □  □
   South:  □  □  X  □  □  □  □  □  □
   West:   □  □  X  □  □  □  □  □  □
CASE: AP 2020-0028
OWNER: NELSON, Christopher C, ET AL
APN: 186-240-01
APLCT: AT&T Mobility
AGENT: Alicia Millier
ADDRESS: 7381 S. Highway 101, Ukiah

MENDOCINO COUNTY PLANNING DEPARTMENT - 7/24/2020

Named Rivers
Railroads
Public Roads
Wireless Sites
Driveways/Unnamed Roads

AERIAL IMAGERY
CASE: AP 2020-0028
OWNER: NELSON, Christopher C, ET AL
APN: 186-240-01
APLCT: AT&T Mobility
AGENT: Alicia Millier
ADDRESS: 7381 S. Highway 101, Ukiah

ZONING DISPLAY MAP

- Zoning Districts
- Public Roads
- Assessors Parcels
Standby Power Rating
30 kW, 38 kVA, 60 Hz

Prime Power Rating*
27 kW, 34 kVA, 60 Hz

*EPA Certified Prime ratings are not available in the US or its Territories

Codes and Standards
Not all codes and standards apply to all configurations. Contact factory for details.

UL2200, UL508, UL489, UL142
CSA C22.2
BS5514 and DIN 6271
SAE J1349
NFPA 37, 70, 99, 110
NEC700, 701, 702, 708
ISO 3046, 7637, 8528, 9001
NEMA ICS10, MG1, 250, ICS6, AB1
ANSI C62.41

Powering Ahead
For over 50 years, Generac has provided innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial applications under adverse conditions.

Generac is committed to ensuring our customers’ service support continues after their generator purchase.
**STANDARD FEATURES**

**ENGINE SYSTEM**
- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Radiator Duct Adapter (Open Set Only)
- Critical Silencer (Enclosed Unit Only)
- Engine Coolant Heater

**Fuel System**
- Fuel Lockoff Solenoid
- Primary Fuel Filter

**Cooling System**
- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- Radiator Drain Extension
- 50/50 Ethylene Glycol Antifreeze

**Electrical System**
- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Boot Engine Electrical Connections
- Solenoid Activated Starter Motor

**ALTERNATOR SYSTEM**
- UL2200 GEnaprotect™
- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Brushless Excitation
- Sealed Bearing
- Rotor Dynamically Spin Balanced
- Amortisseur Winding (3-Phase Only)
- Full Load Capacity Alternator
- Protective Thermal Switch

**GENERATOR SET**
- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Separation of Circuits - Multiple Breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)
- Silencer Mounted in the Discharge Hood (Enclosed Unit Only)

**ENCLOSURE (If Selected)**
- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuation Enclosures)
- Gasketed Doors
- Stamped Air-Intake Louvers
- Upward Facing Discharge Hoods (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- RhinoCoat™ - Textured Polyester Powder Coat Paint

**FUEL TANKS (If Selected)**
- UL 142/ULC S601
- Double Wall
- Normal and Emergency Vents
- Sloped Top
- Sloped Bottom
- Factory Pressure Tested
- Rupture Basin Alarm
- Fuel Level
- Check Valve in Supply and Return Lines
- RhinoCoat™ - Textured Polyester Powder Coat Paint
- Stainless Steel Hardware

**CONTROL SYSTEM**

![Digital H Control Panel- Dual 4x20 Display](image)

**Program Functions**
- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable Logic Controller
- RS-232/485 Communications
- All Phase Sensing Digital Voltage Regulator
- 2-Wire Start Capability
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/Sealed Connectors

**Full System Status Display**
- Power Output (kW)
- Power Factor
- kW Hours, Total, and Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents

**Alarms and Warnings**
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency
- Alarms and Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During Alarms and Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)
CONFIGURABLE OPTIONS

ENGINE SYSTEM
- Oil Heater
- Critical Silencer (Open Set Only)
- Radiator Stone Guard
- Level 1 Fan and Belt Guards (Open Set Only)

FUEL SYSTEM
- NPT Flexible Fuel Line

ELECTRICAL SYSTEM
- 10A UL Listed Battery Charger
- Battery Warmer

ALTERNATOR SYSTEM
- Alternator Upsizing
- Anti-Condensation Heater
- Tropical Coating
- Permanent Magnet Excitation

GENERATOR SET
- Extended Factory Testing
- 8 Position Load Center
- Pad Vibration Isolation

CIRCUIT BREAKER OPTIONS
- Main Line Circuit Breaker
- 2nd Main Line Circuit Breaker
- Shunt Trip and Auxiliary Contact
- Electronic Trip Breakers

ENCLOSURE
- Weather Protected Enclosure
- Level 1 Sound Attenuation
- Level 2 Sound Attenuation
- Level 2 Sound Attenuation with Motorized Dampers
- Steel Enclosure
- Aluminum Enclosure
- Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- AC/DC Enclosure Lighting Kit
- Door Alarm Switch
- Enclosure Heater
- Damper Alarm Contacts

CONTROL SYSTEM
- NFPA 110 Compliant 21-Light Remote Annunciator
- Remote Relay Assembly (8 or 16)
- Oil Temperature Indication and Alarm
- Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- 100 dB Alarm Horn
- Ground Fault Annunciation
- 120V GFCI and 240V Outlets
- Remote Communication - Modem
- 10A Engine Run Relay

FUEL TANKS (Size On Last Page)
- 8 in (203.2 mm) Fill Extension
- 13 in (330.2 mm) Fill Extension
- 19 in (482.6 mm) Fill Extension
- Overfill Protection Valve
- 5 Gallon Spill Box Return Hose
- 5 Gallon Spill Box
- Tank Risers
- Fuel Level Switch and Alarm
- 12’ Vent System
- Fire Rated Stainless Steel Fuel Hose

ENGINEERED OPTIONS

ENGINE SYSTEM
- Coolant Heater Isolation Ball Valves
- Fluid Containment Pan

CONTROL SYSTEM
- Spare Inputs (x4) / Outputs (x4)
- Battery Disconnect Switch

ALTERNATOR SYSTEM
- 3rd Breaker System

GENERATOR SET
- Special Testing

FUEL TANKS
- UL2085 Tank
- Stainless Steel Tanks
- Special Fuel Tanks
- Vent Extensions
APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General
Make
Parker
EPA Emissions Compliance
Stationary Emergency
EPA Emissions Reference
See Emission Data Sheet
Cylinder #
4
Type
In-Line
Displacement - in³ (L)
135 (2.22)
Bore - in (mm)
3.3 (84)
Stroke - in (mm)
3.9 (100)
Compression Ratio
23.3:1
Intake Air Method
Turbcharged
Cylinder Head
Cast Iron
Platen Type
Aluminum
Crankshaft Type
Forged Steel

Engine Governing
Governor
Electronic Isochronous
Frequency Regulation (Steady State)
±0.5%

Lubrication System
Oil Pump Type
Gear
Oil Filter Type
Full-Flow
Crankcase Capacity - qt (L)
11.2 (10.8)

Cooling System
Cooling System Type
Closed Recovery
Water Pump Type
Prt-Lubed, Self Sealing
Fan Type
Pusher
Fan Speed - RPM
1,390
Fan Diameter - in (mm)
18 (457)

Fuel System
Fuel Type
Ultra Low Sulfur Diesel Fuel #2
Fuel Specifications
ASTM
Fuel Filtration (Microns)
5
Fuel Injection Pump
Distribution Injection Pump
Fuel Pump Type
Engine Driven Gear
Injector Type
Mechanical
Fuel Supply Line - in (mm)
0.31 (7.9) ID
Fuel Return Line - in (mm)
0.2 (4.8) ID

Engine Electrical System
System Voltage
12 VDC
Battery Charger Alternator
Standard
Battery Size
See Battery Index 0181970SBY
Battery Voltage
12 VDC
Ground Polarity
Negative

ALTERNATOR SPECIFICATIONS

Standard Model
K005124V21
Poles
4
Field Type
Revolving
Insulation Class - Rotor
H
Insulation Class - Stator
H
Total Harmonic Distortion
<5% (3-Phase)
Telephone Interference Factor (TIF)
< 50

Standard Excitation
Brushless
Bearings
Single Sealed
Coupling
Direct via Flexible Disc
Load Capacity - Standby
100%
Prototype Short Circuit Test
Yes
Voltage Regulator Type
Digital
Number of Sensed Phases
All
Regulation Accuracy (Steady State)
±0.25%
SD030  |  2.2L  |  30 kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency

OPERATING DATA

POWER RATINGS

<table>
<thead>
<tr>
<th></th>
<th>Standby</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>30 kW</td>
<td>Amps: 125</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single-Phase 120/240 VAC @1.0pf</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Three-Phase 120/208 VAC @0.8pf</td>
<td>30 kW</td>
<td>Amps: 104</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Three-Phase 120/240 VAC @0.8pf</td>
<td>30 kW</td>
<td>Amps: 90</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Three-Phase 277/480 VAC @0.3pf</td>
<td>30 kW</td>
<td>Amps: 45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Three-Phase 348/600 VAC @0.8pf</td>
<td>30 kW</td>
<td>Amps: 36</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

MOTOR STARTING CAPABILITIES (skVA)

<table>
<thead>
<tr>
<th></th>
<th>skVA vs. Voltage Dip</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>277/480 VAC</td>
<td>30%</td>
<td>208/240 VAC</td>
<td>30%</td>
<td></td>
</tr>
<tr>
<td>K0035124Y21</td>
<td>61</td>
<td>K0035124Y21</td>
<td>46</td>
<td></td>
</tr>
<tr>
<td>K0040124Y21</td>
<td>76</td>
<td>K0040124Y21</td>
<td>58</td>
<td></td>
</tr>
<tr>
<td>K0050124Y21</td>
<td>98</td>
<td>K0050124Y21</td>
<td>75</td>
<td></td>
</tr>
</tbody>
</table>

FUEL CONSUMPTION RATES*

<table>
<thead>
<tr>
<th>Fuel Pump Lift - ft (m)</th>
<th></th>
<th>Diesel - gph (Lph)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Percent Load</td>
</tr>
<tr>
<td>3 (1)</td>
<td></td>
<td>25%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>50%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>75%</td>
</tr>
<tr>
<td>Total Fuel Pump Flow (Combustion + Return) - gph (Lph)</td>
<td>16.6 (63)</td>
<td>100%</td>
</tr>
</tbody>
</table>

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

<table>
<thead>
<tr>
<th></th>
<th>Standby</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Coolant Flow</td>
<td>gpm (Lpm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coolant System Capacity</td>
<td>gal (L)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heat Rejection to Coolant</td>
<td>BTU/hr (kW)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inlet Air</td>
<td>scfm (m^3/hr)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Operating Ambient Temperature</td>
<td>°F (°C)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Operating Ambient Temperature (Before Derate)</td>
<td>See Bulletin No. 0199280SSD</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

COMBUSTION AIR REQUIREMENTS

<table>
<thead>
<tr>
<th></th>
<th>Standby</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow at Rated Power</td>
<td>scfm (m^3/min)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ENGINE

<table>
<thead>
<tr>
<th></th>
<th>Standby</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Engine Speed RPM</td>
<td>1,300</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Horsepower at Rated kW**</td>
<td>hp</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Piston Speed</td>
<td>b/min (m/min)</td>
<td>1,181 (360)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BMEP</td>
<td>psi (kPa)</td>
<td>159 (1,065)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

EXHAUST

<table>
<thead>
<tr>
<th></th>
<th>Standby</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Exhaust Flow (Rated Output)</td>
<td>scfm (m^3/min)</td>
<td>296.6 (3.4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. Allowable Backpressure (Post Turbocharger)</td>
<td>inHg (kPa)</td>
<td>1.5 (3.1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exhaust Temp (Rated Output)</td>
<td>°F (°C)</td>
<td>892 (478)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

Derate - Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards. 
Standby - See Bulletin 0187500SSB
Prime - See Bulletin 0187510SSB
## DIMENSIONS AND WEIGHTS*

### OPEN SET (Includes Exhaust Flex)

<table>
<thead>
<tr>
<th>Run Time</th>
<th>Usable Capacity - Gal (L)</th>
<th>L x W x H - in (mm)</th>
<th>Weight - lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Tank</td>
<td>-</td>
<td>75.0 (1,950) x 37.4 (950) x 44.8 (1,136)</td>
<td>1,641 (745)</td>
</tr>
<tr>
<td>19</td>
<td>54 (204)</td>
<td>75.0 (1,950) x 37.4 (950) x 57.8 (1,468)</td>
<td>2,121 (965)</td>
</tr>
<tr>
<td>47</td>
<td>132 (501)</td>
<td>75.0 (1,950) x 37.4 (950) x 69.8 (1,773)</td>
<td>2,831 (1,087)</td>
</tr>
<tr>
<td>75</td>
<td>211 (799)</td>
<td>75.0 (1,950) x 37.4 (950) x 81.8 (2,073)</td>
<td>2,560 (1,182)</td>
</tr>
<tr>
<td>107</td>
<td>300 (1,136)</td>
<td>92.9 (2,360) x 37.4 (950) x 81.8 (2,073)</td>
<td>2,823 (1,190)</td>
</tr>
</tbody>
</table>

### WEATHER PROTECTED ENCLOSURE

<table>
<thead>
<tr>
<th>Run Time</th>
<th>Usable Capacity - Gal (L)</th>
<th>L x W x H - in (mm)</th>
<th>Weight - lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Tank</td>
<td>-</td>
<td>94.8 (2,409) x 38.0 (965) x 49.5 (1,255)</td>
<td>2,372 (1,107)</td>
</tr>
<tr>
<td>19</td>
<td>54 (204)</td>
<td>94.8 (2,409) x 38.0 (965) x 62.5 (1,588)</td>
<td>2,441 (1,110)</td>
</tr>
<tr>
<td>47</td>
<td>132 (501)</td>
<td>94.8 (2,409) x 38.0 (965) x 74.5 (1,883)</td>
<td>3,020 (1,364)</td>
</tr>
<tr>
<td>75</td>
<td>211 (799)</td>
<td>94.8 (2,409) x 38.0 (965) x 86.5 (2,198)</td>
<td>2,995 (1,360)</td>
</tr>
<tr>
<td>107</td>
<td>300 (1,136)</td>
<td>94.8 (2,409) x 38.0 (965) x 86.5 (2,198)</td>
<td>3,095 (1,390)</td>
</tr>
</tbody>
</table>

### LEVEL 1 ACOUSTIC ENCLOSURE

<table>
<thead>
<tr>
<th>Run Time</th>
<th>Usable Capacity - Gal (L)</th>
<th>L x W x H - in (mm)</th>
<th>Weight - lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Tank</td>
<td>-</td>
<td>112.5 (2,857) x 38.0 (965) x 49.5 (1,255)</td>
<td>505 (230)</td>
</tr>
<tr>
<td>19</td>
<td>54 (204)</td>
<td>112.5 (2,857) x 38.0 (965) x 62.5 (1,582)</td>
<td>533 (245)</td>
</tr>
<tr>
<td>47</td>
<td>132 (501)</td>
<td>112.5 (2,857) x 38.0 (965) x 74.5 (1,893)</td>
<td>637 (295)</td>
</tr>
<tr>
<td>75</td>
<td>211 (799)</td>
<td>112.5 (2,857) x 38.0 (965) x 86.5 (2,198)</td>
<td>637 (295)</td>
</tr>
<tr>
<td>107</td>
<td>300 (1,136)</td>
<td>112.5 (2,857) x 38.0 (965) x 86.5 (2,198)</td>
<td>637 (295)</td>
</tr>
</tbody>
</table>

### LEVEL 2 ACOUSTIC ENCLOSURE

<table>
<thead>
<tr>
<th>Run Time</th>
<th>Usable Capacity - Gal (L)</th>
<th>L x W x H - in (mm)</th>
<th>Weight - lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Tank</td>
<td>-</td>
<td>94.8 (2,407) x 33.0 (965) x 61.1 (1,551)</td>
<td>510 (232)</td>
</tr>
<tr>
<td>19</td>
<td>54 (204)</td>
<td>94.8 (2,407) x 33.0 (965) x 74.1 (1,851)</td>
<td>534 (246)</td>
</tr>
<tr>
<td>47</td>
<td>132 (501)</td>
<td>94.8 (2,407) x 33.0 (965) x 86.1 (2,186)</td>
<td>592 (273)</td>
</tr>
<tr>
<td>75</td>
<td>211 (799)</td>
<td>94.8 (2,407) x 33.0 (965) x 98.1 (2,491)</td>
<td>617 (280)</td>
</tr>
<tr>
<td>107</td>
<td>300 (1,136)</td>
<td>94.8 (2,407) x 33.0 (965) x 98.1 (2,491)</td>
<td>617 (280)</td>
</tr>
</tbody>
</table>

* All measurements are approximate and for estimation purposes only. Specification characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.