CITY OF ROCKWALL

ORDINANCE NO. 08-61

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF ROCKWALL, TEXAS, AMENDING THE UNIFIED DEVELOPMENT CODE OF THE CITY OF ROCKWALL, TEXAS, AS PREVIOUSLY AMENDED, SO AS TO GRANT A SPECIFIC USE PERMIT (SUP) TO ALLOW FOR A "UTILITY INSTALLATION, OTHER THAN LISTED," SPECIFICALLY A WIND TURBINE, WITHIN THE (AG) AGRICULTURAL DISTRICT, ON A 7.403-ACRE TRACT OF LAND LOCATED AT 960 SIDS ROAD AND DESCRIBED AS TRACT 3-6, ABSTRACT 26, W. H. BARNES SURVEY, AND MORE SPECIFICALLY DESCRIBED IN EXHIBIT "A' ATTACHED HEREIN; PROVIDING FOR SPECIAL CONDITIONS; PROVIDING FOR A PENALTY OF FINE NOT TO EXCEED THE SUM OF TWO THOUSAND DOLLARS (\$2,000.00) FOR EACH OFFENSE; PROVIDING FOR A SEVERABILITY CLAUSE; PROVIDING FOR A REPEALER CLAUSE; PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, a Specific Use Permit (SUP) has been requested by Rayburn Country Electric Cooperative to allow for a "Utility Installation, Other Than Listed," specifically a wind turbine on a 7.403-acre tract zoned (Ag) Agricultural District and located at 960 Sids Road, and known as Tract 3-6, Abstract 26, W. H. Barnes Survey, City and County of Rockwall, Texas; and

WHEREAS, the Planning and Zoning Commission of the City of Rockwall and the governing body of the City of Rockwall, in compliance with the laws of the State of Texas and the ordinances of the City of Rockwall, have given the requisite notices by publication and otherwise, and have held public hearings and afforded a full and fair hearing to all property owners generally, and to all persons interested in and situated in the affected area and in the vicinity thereof, the governing body in the exercise of its legislative discretion has concluded that the Unified Development Code of the City of Rockwall should be amended as follows:

NOW, THEREFORE, BE IT ORDAINED by the City Council of the City of Rockwall, Texas:

Section 1. That the Unified Development Code of the City of Rockwall, as heretofore amended, be and the same is hereby amended by the approval of a Specific Use Permit to allow for a "Utility Installation, Other Than Listed," specifically a wind turbine on a 7.403-acre tract zoned (Ag) Agricultural District and located at 960 Sids Road, and known as Tract 3-6, Abstract 26, W. H. Barnes Survey, City and County of Rockwall, Texas; and

Section 2. That the Specific Use Permit shall be subject to the conditions set forth in **Article V, Section 2, (AG) Agricultural District** of the City of Rockwall Unified Development Code (Ord. No. 04-38) as heretofore amended and as may be amended in the future, and shall be subject to the additional following additions:

- 1. The wind turbine shall be located on the property as indicated on the site plan attached as Exhibit "A".
- 2. The wind turbine shall have a maximum overall height of 130-feet (including tower and blade), as indicated on Exhibit "B".
- 3. The wind turbine shall be an **Entegrity EW50** model with the physical specifications listed in "Exhibit C" as submitted by the applicant.
- 4. Any mechanical equipment and/or batteries associated with the turbine shall be screened from adjacent right-of-ways and properties.

- 5. The wind turbine shall comply with all City noise regulations, including maximum sound levels at residential property lines. Any violation may result in the termination of the SUP.
- If at any time the wind turbine ceases to operate or is no longer used by the
 property owner for a continuous period of twelve (12) months, the SUP shall be
 subject to review by City Council and, if voided, shall be removed from the
 property.
- 7. The owner shall provide the City copies of any reports that analyze the effectiveness, efficiency or concerns relating to the wind turbine prepared for or by Rayburn Country Electric Cooperative.

Section 3. That the official zoning map of the City be corrected to reflect the changes in zoning described herein.

Section 4. That all ordinances of the City of Rockwall in conflict with the provisions of this ordinance be, and the same are hereby repealed to the extent of that conflict.

Section 5. Any person, firm, or corporation violating any of the provisions of this ordinance shall be deemed guilty of a misdemeanor and upon conviction shall be punished by a penalty of fine not to exceed the sum of TWO THOUSAND DOLLARS (\$2,000.00) for each offence and each and every day such offense shall continue shall be deemed to constitute a separate offense.

Section 6. If any section, paragraph, or provision of this ordinance or the application of that section, paragraph, or provision to any person, firm, corporation or situation is for any reason judged invalid, the adjudication shall not affect any other section, paragraph, or provision of this ordinance or the application of any other section, paragraph or provision to any other person, firm, corporation or situation, nor shall adjudication affect any other section, paragraph, or provision of the Unified Development Code No. 04-38 of the City of Rockwall, Texas, and the City Council declares that it would have adopted the valid portions and applications of the ordinance without the invalid parts and to this end the provisions for this ordinance are declared to be severable.

Section 7. That this ordinance shall take effect immediately from and after its passage and the publication of the caption of said ordinance as the law in such cases provides.

PASSED AND APPROVED BY THE CITY COUNCIL OF THE CITY OF ROCKWATERAS, this 3rd day of November, 2008.	ALL
William R. Cecil, Mayor	

ALLEST:

Kristy Ashberry, City Secretary

APPROVED AS TO FORM:

Pete Eckert, City Attorney

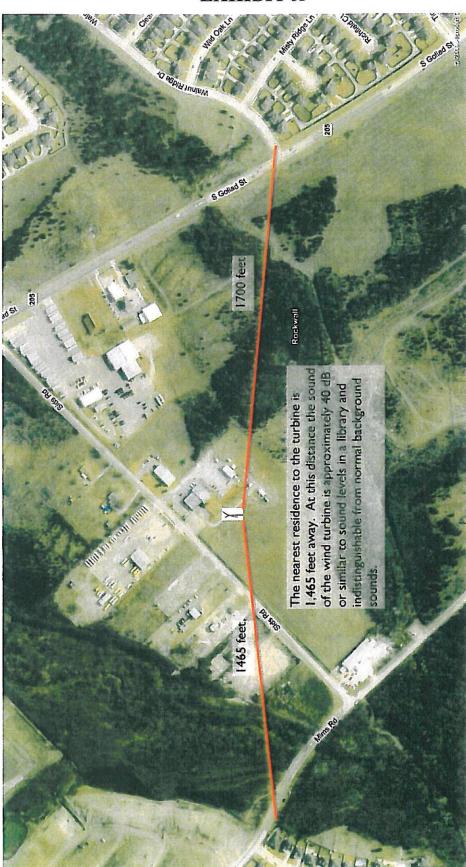
1st Reading: 10-20-08

2nd Reading: 11-03-08

O Da

EXHIBIT A





4855 Riverbend-Road - suite 100 Boulder, Colorado 80301

Entegrity Wind Systems Inc. www.entegritywind.com

phone 303.440.8799 fax 303.577.9775



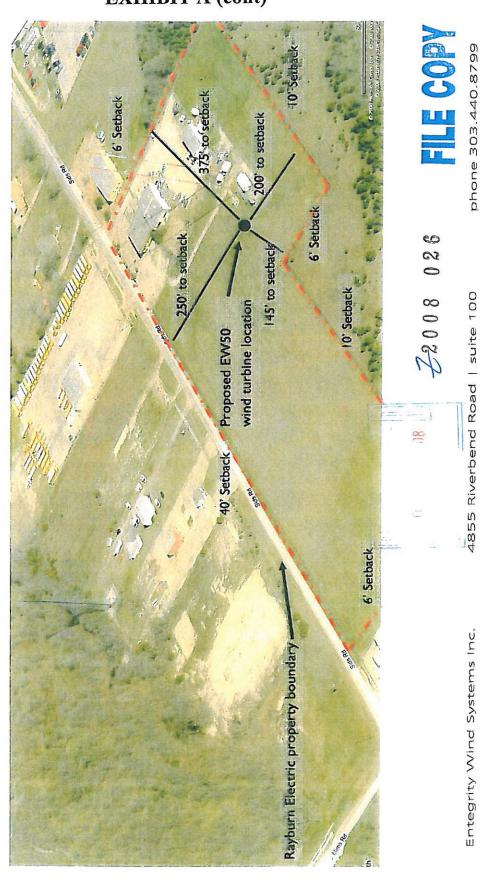
EXHIBIT A (cont)

SITE PLAN - Proposed EW50 Wind Turbine Site

Rayburn Electric 50kW Wind Turbine 980 Sids Road Rockwall, TX 75302 Project:

Address:

Agricultural Zoning:



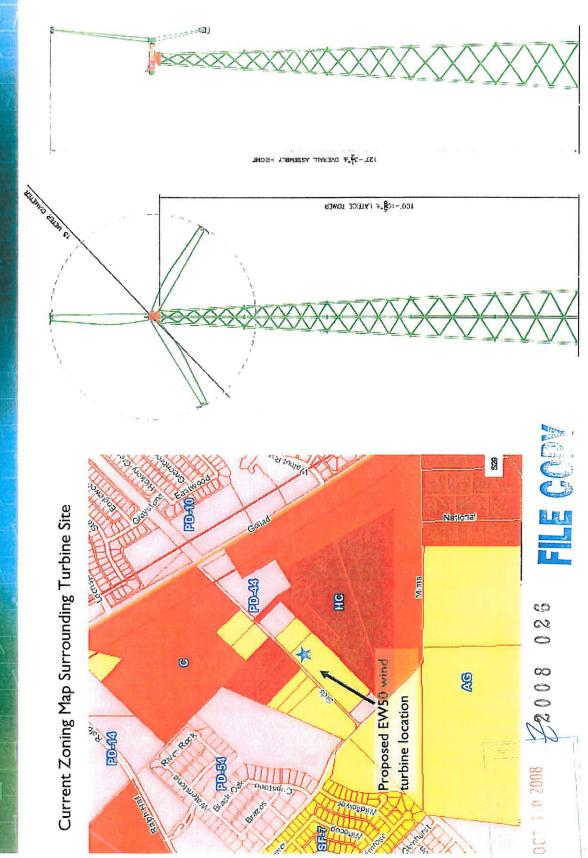
fax 303.577.9775

Boulder, Colorado 80301

www.entegritywind.com

EXHIBIT B

Entegrifty wind systems inc.



phone 303.440.8799 fax 303.577.9775

4855 Riverbend Road | suite 100 Boulder, Colorado 80301

Entegrity Wind Systems Inc. www.entegritywind.com

EXHIBIT C



EW50 Specifications

I. SYSTEM

Type 3 ¢ Grid Connected Configuration Horizontal Axis Rotor Diameter 15 m (49.2 ft) Centerline Hub Ht. 31.1 m (102 ft)

2. PERFORMANCE PARAMETERS

Rated Electrical Power 50 kW @11.3 m/s (25.3 mph)

Wind Speed Ratings

Cut-in 4.0 m/s (8.9 mph) Shut-down (high wind) 22.4 m/s (50 mph) Design Speed 59.5 m/s (133 mph)

Average Annual Output

at Sea Level Class 2 115,000kWh Class 3 149,000kWh

Class 4 177,000kWh

3. ROTOR

Type of Hub Fixed Pitch Rotor Diameter 15 m (49.2 ft) Swept Area 177 m2 (1902 ft2)

Number of Blades

Rotor Solidity 0.077 Rotor Speed @ Nameplate Capacity 65 rpm Location Relative to Tower Downwind

Cone Angle 6° 0 0 Tilt Angle

Rotor Tip Speed 51 m/s (114 mph) @ 60 Hz

Design Tip Speed Ratio

4. BLADE

Length 7.2 m (23.7 ft) Material Epoxy /glass fiber

Blade Weight 150 kg (330 lbs) approximate

5. GENERATOR

Type 3 phase/4 pole asynchronous

Frequency

Voltage 3 phase @ 50/60 Hz, 415-600 VAC

kW @ Rated Wind Speed 50 kW kW @ Peak Continuous 66 kW Insulation Class F

Enclosure Totally Enclosed Air Over

Options Arctic low temp shafting - 40C

6. TRANSMISSION

Type Planetary Housing Ductile Iron Ratio (rotor to generator sp) 1 to 28.25 (60 Hz)

Rating, output horse power

Lubrication Synthetic gear oil/non-toxic Heater (option) Arctic version, electric

7. YAW SYSTEM

Normal Free, Passive Electrical Twist Cable

8. TOWER

Free standing monopole or galvanized lattice Туре Lattice Tower Heights

80', 100', 120' Monopole Tower Heights 72', 100', 120'

Monopole Options Noise Reducing Fairing, Ladder, Finish

9. FOUNDATION

Type Monolithic Slab or Custom

10. CONTROL SYSTEM

Microprocessor based Type

Communications Cellular or Internet/Ethernet connection to

central computer for energy monitor and

maintenance dispatch Enclosures NEMA 1, NEMA 4 (optional)

Soft Start Optional

11. ROTOR SPEED CONTROL

Running Passive stall regulation Start-up Aerodynamic

Shut-down Aerodynamic tip brake

Parking brake for servicing

12. BRAKE SYSTEM CONTROL

Fail-safe aerodynamic and parking brakes

13. APPROXIMATE SYSTEM DESIGN WEIGHTS

100' Lattice Tower 3,210 kg (7,080 lb) 100' Monopole Tower 7,281 kg (16,051 lb)

Rotor & Drive Train 2,420 kg (5,340 lb)

14. DESIGN LIFE 30 Years

15. DESIGN STANDARDS IEEE 1547 compliant, CE certified, UL listed

16. DOCUMENTATION Installation Guide and Operation &

Maintenance Manual

17. MAINTENANCE Semi-annual SCHEDULE

Entegrity Wind Systems Inc www.entegritywind.com

4855 Riverbend Road | suite 100

phone 303,440 8799 Boulder, Colorado 80301 lax 303 577 9775