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veri	PROJECT : Swansboro ONE EYE CREEK ROAD PLACERVILLE, CA 95667 PROJECT NO : 20141015889 LOCATION NO: 285387 AREA: West REGION: Northern California / Nevada MARKET: Sacramento / Reno (NV) JURISDICTION: El Dorado County				
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WATERFORD

Radio Frequency Emissions Compliance Report For Verizon WirelessSite Name:SwansboroSite Structure Type:MonopineAddress:One Eye Creek RoadLatitude:38.807353Placerville, CA 95667Longitude:-120.731342Report Date:January 6, 2015Project:New Build

General Summary

Verizon Wireless has contracted Waterford Consultants, LLC to conduct a Radio Frequency Electromagnetic Compliance assessment of the Fair Play site located at One Eye Creek Road, Placerville, California. This report contains information about the radio telecommunications equipment to be installed at this site and the surrounding environment with regard to RF Hazard compliance. This assessment is based on installation designs and operational parameters provided by Verizon Wireless.

The compliance framework is derived from the Federal Communications Commission (FCC) Rules and Regulations for preventing human exposure in excess of the applicable Maximum Permissible Exposure ("MPE") limits. At any location at this site, the power density resulting from each transmitter may be expressed as a percentage of the frequency-specific limits and added to determine if 100% of the exposure limit has been exceeded. The FCC Rules define two tiers of permissible exposure differentiated by the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure. General Population / Uncontrolled exposure limits apply to those situations in which persons may not be aware of the presence of electromagnetic energy, where exposure is not employment-related, or where persons cannot exercise control over their exposure. Occupational / Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment, have been made fully aware of the potential for exposure, and can exercise control over their exposure.

	Limits for General Population/ Uncontrolled Exposure		Limits for Occupational/ Controlle Exposure	
Frequency	Power Density	Averaging Time	Power Density	Averaging Time
(MHz)	(mW/cm²)	(minutes)	(mW/cm²)	(minutes)
30-300	0.2	30	1	6
300-1500	f/1500	30	f/300	6
1500-100,000	1	30	5	6

Page 1 Waterford Consultants, LLC • 201 Loudoun Street Southeast Suite 300 • Leesburg, Virginia 20175 • 703.596.1022

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In situations where the predicted MPE exceeds the General Population threshold in an accessible area as a result of emissions from multiple transmitters, FCC licensees that contribute greater than 5% of the aggregate MPE share responsibility for mitigation.

Based on the computational guidelines set forth in FCC OET Bulletin 65, Waterford Consultants, LLC has developed software to predict the overall Maximum Permissible Exposure possible at any particular location given the spatial orientation and operating parameters of multiple RF sources. These theoretical results represent worst-case predictions as emitters are assumed to be operating at 100% duty cycle.

For any area in excess of 100% General Population MPE, access controls with appropriate RF alerting signage must be put in place and maintained to restrict access to authorized personnel. Signage must be posted to be visible upon approach from any direction to provide notification of potential conditions within these areas. Subject to other site security requirements, occupational personnel should be trained in RF safety and equipped with personal protective equipment (e.g. RF personal monitor) designed for safe work in the vicinity of RF emitters. Controls such as physical barriers to entry imposed by locked doors, hatches and ladders or other access control mechanisms may be supplemented by alarms that alert the individual and notify site management of a breach in access control. Waterford Consultants, LLC recommends that any work activity in these designated areas or in front of any transmitting antennas be coordinated with all wireless tenants.

Analysis

Verizon Wireless proposes to install six (6) panel-type antennas oriented toward 0, 120 and 240 degrees at 77 feet above ground level on a stealth monopine. Two (2) microwave dishes oriented toward 0 and 180 degrees at 68 feet above ground level will be installed. From this site, Verizon Wireless will provide voice and data services to surrounding areas in licensed 750, 1900 and 2100 MHz bands. The Effective Radiated Power (ERP) in any direction will not exceed 8,458 Watts. No other antennas are known to be co-located in the vicinity of this site.

Power density decreases significantly with distance from any antenna. The panel-type antennas to be employed at this site are highly directional by design and the orientation in azimuth and mounting elevation, as documented, serve to reduce the potential to exceed MPE limits at any location other than directly in front of the antennas. For accessible areas at the ground level, the maximum predicted power density level resulting from all operations is 0.24% of the FCC General Public limits. Several buildings are located approximately 120 feet south and southwest of the proposed antenna support structure. At these locations, the maximum predicted power density level resulting from all operations is 0.001% of the FCC General Public limits.

Swansboro

Compliance Statement

Based on information provided by Verizon Wireless and predictive modeling, the installation proposed by Verizon Wireless at One Eye Creek Road, Placerville, California will be compliant with Radiofrequency Radiation Exposure Limits of 47 C.F.R. § § 1.1307(b)(3) and 1.1310.

Certification

I, Steven Nast Baier-Anderson, the reviewer and approver of this report, am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation, specifically in accordance with FCC's OET Bulletin 65. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.



EXHIBIT I

PROJECT SUPPORT STATEMENT

DEVEPLOMENT APPLICATION FOR VERIZON SITE "SWANSBORO"

APN 085-010-06-10

ONE EYE CREEK ROAD, PLACERVILLE, CA. 95667

INTRODUCTION

Verizon Wireless is seeking to improve communications service in the El Dorado County area near Mosquito Rd and Rock Creek Rd. Verizon would like to increase coverage and capacity in the area by constructing a new telecommunications facility in to improve service for both current and potential customers. Additionally, this network development will increase public safety within these areas and bring wireless service to areas that currently have poor capacity service.

This tower will help alleviate an area of poor coverage and inadequate capacity within this service area, which causes reoccurring lost calls and ineffective service. This site will relieve inadequate capacity in the area due to high cell phone usage along Fair Play Rd and will also improve service in the town of Fair Play and the surrounding wineries and rural residential areas. The proposed location of the tower is set within an unutilized portion of this parcel and will be designed to comply with all County of El Dorado's wireless design guidelines. The proposed Verizon Communications facility will be located within a 30' x 40' fenced compound including: (1) proposed 16' x 11'5" equipment shelter, placed upon a raised steel platform, a 30kVa Diesel generator and a 85' stealth monopine designed to blend in with the existing trees nearby. This tower will accommodate (3) sectors with (2) antennas per sector, (3) remote radio units (RRU's) per sector. This tower has been designed to accommodate future collocation by other carriers.

The parcel selected for this communication is owned by Nick Jr and Meghan Rumsey and totals 39.75 acres. The location for this project is situated approximately 0.72 miles from Mosquito Rd.

This unmanned facility will provide service to area travelers, residents and businesses 24 hours a day, 7 days a week. This site will also serve as a back up to the existing landline service in the area and will provide improved mobile communications, essential to modern day commerce and recreation.

ALTERNATIVE SITE ANALYSIS

3204 One Eye Creek Rd.: Site rejected due to lack of buildable area for proposed use. 3218 One Eye Creek Rd.: Site rejected due to lack of buildable area for proposed use. 3230 One Eye Creek Rd.: Site rejected due to lack of buildable area for proposed use. 3247 One Eye Creek Rd.: Site rejected due to lack of interest from property owner. 3235 One Eye Creek Rd.: Site rejected due to lack of interest from property owner.

SAFETY BENEFITS OF IMPROVED WIRELESS SERVICE

Mobile phone use has become an extremely important system for public safety. Along roads and highways without public call boxes, mobile phones are often the only means for emergency roadside communication. Motorists with disabled vehicles (or worse) can use their phone to call in and request appropriate assistance. With good cellular coverage along important roadways, emergency response is just a phone call away. Furthermore, as a back up system to traditional landline phone service, mobile phones have proven to be extremely important during natural disasters and other catastrophes.

Verizon has taken the responsibility for back-up service very seriously. As such, Verizon has incurred increased expense to install a standby diesel generator at this facility to insure quality communication for the surrounding community regardless of any disaster or catastrophe.

CONVENIENCE BENEFITS OF IMPROVED WIRELESS SERVICE

Modern day life has become increasingly dependent on instant communications. Whether it is a parent calling their child, spouse calling a spouse, or general contractor ordering materials to the jobsite, wireless phone service is no longer just a convenience. It has become a way of life and a way of business.

COMPLIANCE WITH COUNTY DEVELOPMENT STANDARDS

This project has been carefully designed to comply with all applicable standards.

COMPLIANCE WITH FCC STANDARDS

This project will not interfere with any TV, radio, telephone, satellite, or any other signals. Any interference would be against the Federal Law and would be a violation Verizon Wireless' FCC License. In addition, this project will conform to all FCC standards.

TECHNOLOGY AND CONSUMER SERVICES THE CARRIER WILL PROVIDE ITS CUSTOMERS

Verizon offers its customers multiple services such as, voice calls, text messaging, mobile email, picture/video messaging, mobile web, navigation, broadband access. Wireless service enhances public safety and emergency communications in the community. In rural areas such as the subject location, cellular phone service can cover much larger geographic areas than traditional landline phone service.

FUTURE COLLOCATION OPPORTUNITIES

The proposed site has been designed to allow for future co-location opportunities with other carriers. The land lease provides sufficient space for additional service providers and the tower and its foundation are designed for future equipment. This tower will eliminate the need for multiple towers within the same general vicinity as it has been designed to accommodate up to (1) carrier.

LIGHTING

Unless tower lighting is required by the FAA the only lighting on the facility will be a shielded motion sensor light by the door on the equipment shelter for servicing the equipment.

NOISE

The standby generator will be operated for approximately 15 minutes per week for maintenance purposes, and during power outages and disasters.

HAZARDOUS MATERIAL

A Hazardous Material Business Plan will also be submitted upon project completion, and stored on site after construction

ENVIRONMENTAL SETTING

The site is set within a parcel that is zoned U (unclassified with a General Plan Designation of (NR) Natural Resources) and is consistent with application design standards in the area and environment.

MAINTENANCE AND STANDY GENERATOR TESTING

Verizon installs a standby diesel generator and batteries at many of its cell sites. The generator and batteries serve a vital role in Verizon emergency and disaster preparedness plan. In the event of a power outage, Verizon communications equipment will first transition over to the back-up batteries. The batteries can run the site for a few hours depending upon the demand placed upon the equipment. Should the power outage extend beyond the capacity of the batteries, the back-up generator will automatically start and continue to run the site. This two state back-up plan is an extremely important component of Verizon communications sites. Back-up batteries and generators allow Verizon communications sites to continue providing valuable communications services in the event of a power outage, natural disaster or other emergency.

A standby generator will be installed at the site to ensure quality and consistent coverage in the event of a power outage or disaster. This generator will be run for approximately 15 minutes per week for maintenance purposes, and during power outages and disasters.

A technician will visit the site approximately twice a month to check the facility and perform any necessary maintenance.

CONSTRUCTION SCHEDULE

The construction of the facility will be in compliance with all local rules and regulations. The typical duration is two months. The crew size will range from two to ten individuals.

EXHIBIT J

RECORDING REQUESTED BY: EL DORADO COUNTY PLANNING DEPARTMENT

WHEN RECORDED, RETURN TO:

DEPARTMENT: El Dorado County Planning Dept. MAILING ADDRESS: 2850 Fairlane Court CITY, STATE, ZIP: Placerville, CA 95667

El Dorado, County Recorder William Schultz Co Recorder Office DOC- 2005-0030105-00 Acct 22-EL DORADO CO PLANNING Thursday, APR 14, 2005 08:30:22

Nbr-0000713031 Ttl Pd \$0.00 C/C1/1-3

SPACE ABOVE RESERVED FOR RECORDERS USE

CONDITIONAL CERTIFICATE OF COMPLIANCE

ASSESSOR'S PARCEL NO. 085-010-06 / 39.75 acres **Carmen F. Villarreal** FILE #: COC04-48

The County of El Dorado hereby certifies that the lands described in Exhibit "A", attached hereto and incorporated as if fully set forth herein, have been evaluated pursuant to Ordinance 4632 and California Government Code Section 66499.34 et sea.

Said lands shall be subject to the conditions described in Exhibit "B", attached hereto and incorporated as if fully set forth herein, and shall remain undevelopable pending compliance with said conditions and the recording of a Certificate of Compliance or Parcel Map.

This certificate relates only to issues of compliance or noncompliance with the Subdivision Map Act and local ordinances enacted pursuant thereto. The parcel described herein may be sold, leased, or financed without further compliance with the Subdivision Map Act or any local ordinance enacted pursuant thereto. Development of the parcel may require issuance of a permit or permits, or other grant or grants of approval.

4/1/05 DATE:

COUNTY OF EL DORADO

Zoning Administrator

STATE OF CALIFORNIA

County of El Dorado

)ss.

DOBI FLOD before me, , Notary Public, personally appeared personally known to me or proved to me on the basis of satisfactory evidence to be the person(o) whose name(c) is/are subscribed to the within instrument and acknowledged to me that he/che/they/executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



)

Notary Public in and for s ₽ State

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EXHIBIT "A"

ASSESSOR'S PARCEL NO. 085-010-06 / 39.75 acres Carmen F. Villarreal FILE #: COC04-48

The real property situated in the State of California, County of El Dorado unincorporated area and described as follows:

THE LAND DESCRIBED HEREIN IS SITUATED IN THE STATE OF CALIFORNIA, COUNTY OF EL DORADO, UNINCORPORATED AREA, AND IS DESCRIBED AS FOLLOWS:

THE EAST HALF OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER AND THE WEST HALF OF THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 10, TOWNSHIP 11 NORTH, RANGE 11 EAST, M.D.B.&M.

A.P.N. 085-010-06

<u>NOTE</u>: The information hereon, including but not limited to legal description, is obtained from official records in the Office of the County Recorder. The Planning Department makes no representation as to the accuracy of that information and disclaims all warranties-express or implied with respect to that information.

<u>NOTE</u>: All parcels cited hereinabove constitute only one parcel of land in conformance with the Subdivision Map Act.



ASSESSOR'S PARCEL NO. 085-010-06 / 39.75 acres Carmen F. Villarreal FILE #: COC04-48

CONDITIONS OF APPROVAL

- 1. An irrevocable offer of dedication, 25 feet from the centerline of One Eye Creek Road, for road and public utility purposes, including all slope easements, shall be offered to the County across the frontage of the subject parcel. The offer of dedication shall be made on a form approved by the Department of Transportation.
- 2. A STOP sign per Standard Plan 105A shall be placed at the intersection of One Eye Creek Road and Mosquito Road.
 - 3. A "Not a County Maintained Road" sign, 24" x 30", black on white, shall be placed on One Eye Creek Road at the intersection with Mosquito Road.
 - 4. A street sign in conformance with Standard Plan 105 (B-1) shall be installed at the intersection of One Eye Creek Road and Mosquito Road.
 - 5. The property owner shall have the parcel evaluated by a septic system design consultant and the findings submitted to the El Dorado County Environmental Management Department to determine if the parcel can support an on site septic disposal system prior to application for a building permit.
 - 6. The applicant shall improve that portion of One Eye Creek Road fronting the subject property to Standard Plan 101-C providing for a minimum unrestricted roadway width of eighteen feet (18') with two-foot (2') shoulders. The roadway improvements and surfacing shall be subject to the review and approval of the Department of Transportation and the Mosquito Fire Protection District. Letters evidencing satisfaction with this condition shall be provided to the Planning Department.

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Recorder. The Planning Department makes no representation as to the accuracy of that information and disclaims all warranties-express or implied with respect to that information.

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