

Referral Early Consultation

Date: February 15, 2022

То:	Distribution List (See Attachment A)
From:	Teresa McDonald, Associate Planner Planning and Community Development
Subject:	STAFF APPROVAL APPLICATION NO. PLN2022-0007 - AT&T MOBILITY
Respond By:	March 7, 2022

****PLEASE REVIEW REFERRAL PROCESS POLICY****

The Stanislaus County Department of Planning and Community Development is soliciting comments from responsible agencies under the Early Consultation process to determine: a) whether or not the project is subject to CEQA and b) if specific conditions should be placed upon project approval.

Therefore, please contact this office by the response date if you have any comments pertaining to the proposal. Comments made identifying potential impacts should be as specific as possible and should be based on supporting data (e.g., traffic counts, expected pollutant levels, etc.). Your comments should emphasize potential impacts in areas which your agency has expertise and/or jurisdictional responsibilities.

These comments will assist our Department in preparing the conditions for a Staff Approval. Therefore, please list any conditions that you wish to have included as well as any other comments you may have. Please return all comments and/or conditions as soon as possible or no later than the response date referenced above.

Thank you for your cooperation. Please call (209) 525-6330 if you have any questions.

Applicant:	Epic Wireless Group, LLC on behalf of AT&T Mobility
Project Location:	7819 Crane Road, between Highway 108/120 and the Sierra Northern Railroad, in the Oakdale area.
APN:	062-005-020
Williamson Act Contract:	N/A
General Plan:	Agriculture
Current Zoning:	General Agriculture (A-2-10)

Project Description: Request to establish a wireless communications facility on a 10.06± acre parcel in the General Agriculture (A-2-10) zoning district. This proposal includes the installation of a 130-foot-tall monopole near the southern property line, which will include 15 antennas, 18 RRUS, and three (3) surge suppressors at the 126-foot centerline. Proposed ground equipment includes a walk-in equipment cabinet, a 30kw diesel generator and 190-gallon backup fuel tank. The project lease area will be 1,600± square-foot in size and enclosed by a chain-link fence. A 15-foot-wide access and utility easement is proposed to overlay an existing 25-foot-wide all-weather driveway that accesses Crane Road. The facility will be unstaffed. Up to two technicians are anticipated to access the site one day a month for routine maintenance. The site is currently improved with an existing legal nonconforming truck parking facility and single-family dwelling. The project site abuts the LAFCO adopted Sphere of Influence for the City of Oakdale.

Full document with attachments available for viewing at:

http://www.stancounty.com/planning/pl/act-projects.shtm



STAFF APPROVAL APPLICATION NO. PLN2022-0007 - AT&T MOBILITY Attachment A

Distribution List

Х	CROP DUSTERS	Х	STAN CO ALUC
Х	CA DEPT OF TRANSPORTATION DIST 10	Х	STAN CO BUILDING PERMITS DIVISION
Х	CITY OF: OAKDALE	Х	STAN CO ERC
х	FIRE PROTECTION DIST: OAKDALE RURAL	Х	STAN CO HAZARDOUS MATERIALS
Х	IRRIGATION DIST: OAKDALE	Х	STAN CO SUPERVISOR DIST 1: B. CONDIT
Х	MOSQUITO DIST: EASTSIDE	Х	STANISLAUS FIRE PREVENTION BUREAU
Х	RAILROAD: SIERRA NORTHERN	Х	STANISLAUS LAFCO
Х	STAN CO PUBLIC WORKS	Х	SURROUNDING LAND OWNERS

STANISLAUS COUNTY CEQA REFERRAL RESPONSE FORM

TO: Stanislaus County Planning & Community Development 1010 10th Street, Suite 3400 Modesto, CA 95354

FROM:

SUBJECT: STAFF APPROVAL APPLICATION NO. PLN2022-0007 - AT&T MOBILITY

Based on this agency's particular field(s) of expertise, it is our position the above described project:

_____ Will not have a significant effect on the environment.

May have a significant effect on the environment.

No Comments.

Listed below are specific impacts which support our determination (e.g., traffic general, carrying capacity, soil types, air quality, etc.) – (attach additional sheet if necessary)

1.

- 2.
- 3.
- 4.

Listed below are possible mitigation measures for the above-listed impacts: *PLEASE BE SURE TO INCLUDE WHEN THE MITIGATION OR CONDITION NEEDS TO BE IMPLEMENTED* (*PRIOR TO RECORDING A MAP, PRIOR TO ISSUANCE OF A BUILDING PERMIT, ETC.*):

1. 2. 3.

4.

In addition, our agency has the following comments (attach additional sheets if necessary).

Response prepared by:

Name

Title

Date











SAA PLN2022-0007

2021 AERIAL AREA MAP



Sphere of Influence

----- Road

Canal





AT&T MOBILTY

SAA PLN2022-0007

2021 AERIAL SITE MAP

<u>LEGEND</u>

Project Site

----- Road







SITE NUMBER: CVL01729 SITE NAME: 108 & CRANE

7819 CRANE ROAD OAKDALE, CA 95361 JURISDICTION: STANISLAUS COUNTY PACE #MRSFR079343, PTN#3701A0YPFB, FA LOCATION #1541176 SITE TYPE: MONOPOLE & WIC ON PRECAST FOUNDATION

PROJECT INFORMATION	PROJECT TEAM	SHEET IN
Property Information: Property Owner: Site Name: 108 & CRANE ARCOS ROSALIO Site Number: CVL01729 OAKDALE, CA 95361 Search Ring: 108 AND CRANE Power Agency: FA#: 15541176 PG&E Site Address: 7819 CRANE ROAD OAKDALE, CA 95361 A.P.N. Number: 062-005-020-000 Telephone Agency: Jurisdiction: STANISLAUS COUNTY AT&T Latifude: N 37° 45' 02.76" (NAD83) SAN FRANCISCO, CA 94105 Congitude: W 120° 52' 58.23" (NAD83) Ground Elevation: ± 141.6 AMSL	Applicant / Lessee: Architect / Engineer: AT&T Mobility Morthern California Northern California Contact: Toylika Logan Burks email: 1784@diat.com email: codney@meridian.managemu Bite Acquisition: Epic Wireless Group LLC contact: Ashiey Smith@epicwireless.net Ph: (916) 247-1749 Construction Manager: Epic Wireless Group LLC contact: Pete Manas contact: Neil Rohde email: pete.manas@epicwireless.net ph: (530) 383-5957 Civil Vendor: Guattek Wireless 1200 Del Paso, Suite 150 Sacramento, CA 95608 contact: Mathew Stewart email: mstewart@quatkwireless.cop 1200 Del Paso, Suite 150 Sacramento, CA 95608 contact: Mathew Stewart email: mstewart@quatkwireless.cop	ent T-1 TITLE SHEET C-1 SITE SURVEY A-1 OVERALL SITE PLAN A-2 LEASE AREA PLAN, RF SCHEI A-3 ELEVATIONS E-3 SINGLE LINE DIAGRAM, POV U-1 UTILITY LOCATE
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A	Al	QUINTEL QD8612-3D	70°	±126'-00"	(1) 4449 B5/B12, (1) 8843 B2/B66A	2	± 148'	-	-	-
A	A2	ERICSSON AIR6449 B77D, AIR6419 B77G (STACKED)	70°		-	-	± 148'	-	-	-
P	A3	QUINTEL QD8612-2	70°	± 126'-00"	(1) 4478 B14, (1) 8843 B2/B66A	2	± 148'	-	-	-
A	A4	QUINTEL QD868-2	70°	± 126'-00"	(1) 2012 B29, (1) 4415 B30	2	± 148'	-	-	-
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	В3	QUINTEL QD8612-2	310°	± 126'-00"	(1) 4478 B14, (1) 8843 B2/B66A	2	± 148'	-	-	-
A	B4	QUINTEL QD868-2	310°	± 126'-00"	(1) 2012 B29, (1) 4415 B30	2	± 148'	-	-	-
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G	C2	ERICSSON AIR6449 B77D, AIR6419 B77G (STACKED)	190°		-	-	± 148'	-	-	-
A	C3	QUINTEL QD8612-2	190°	± 126'-00"	(1) 4478 B14, (1) 8843 B2/B66A	2	± 148'	-	-	-
M	C4	QUINTEL QD868-2	190°	± 126'-00"	(1) 2012 B29, (1) 4415 B30	2	± 148'	-	-	-
A		SURGE SUPPRESSOR			SQUID #DC9-48-60-24-8C-EV	1				

RF DATA SHEET V1.00 DATED 11/11/21 ANTENNA POSITIONS ARE LEFT TO RIGHT FROM FRONT OF ANTENNA

EQUIPMENT IS PRELIMINARY AND SUBJECT TO CHANGE





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	AT&T Site ID: CVL01729 108 & CRANE 7819 CRANE ROAD OAKDALE, CA 95361 Stanislaus County Vendor:
	EDIC
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RAD_CENTER_OF (P) ANTENNAS ± EL. 126-0*	Folsom, CA 95630 Prepared For:
	AT&T 5001 Executive Parkway San Ramon, California 94583
	Architect:
	Meridian Management LLC 785 Ock Growe Road E2 Suite 251 Concord. CA 94518 170: 97: 297:4 www.meridian.management
	FA#: 15541176
	DRAWN BY: JG
	CHECKED BY: RB
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PREPARED BY	SITE ID	SITE ADDRESS	GENERAL NOTES	LEG
1ST CALL UTILITY LOCATING LLC	CVL01729	7819 CRANE RD OAKDALE, CA	1. THE LOCATION OF UNDERGROUND UTILITIES ARE SHOWN TO THE EXTENT POSSIBLE AND ARE BASED ON OBSERVITE SUFFACE EVIDENCE. AVAILABLE RECORD INFORMATION PROVIDE TRACK HER WITH AND THE PROFENSION WORK SHALL VERFY. THE EXACT LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES WITHIN CONSTRUCTION AREA 3. SPRINKLER HEADS AND IRRIGATION LATERAL LINES ARE NOT SHOWN HEREON 4. ADDITIONAL UNDETECTED UTILITIES MAY EXIST WITHIN THE LIMIT OF THIS SURVEY. 5. CALL UNDERGROUND SERVICE ALERT (USA) 48 HOURS PRIOR TO ANY UNDERGROUND WORK.	ELECTRICAL MAS HIGH VOLTA: SEWER STORM DRA WATER TELEPHONE PRIGATION STREET LIG SIGNAL UNKNOWN ENER APTIC
				TRAFFIC SIG









ATTN: STANISLAUS COUNTY PLANNING DEPARTMENT

1010 10th Street, Suite 3400 Modesto CA 95354

RE: Proposed AT&T Wireless Facility: 7819 Crane Road, Oakdale CA 95361 [APN 062-005-020-000]

Project Description

The proposed project proposes fifteen (15) panel antennas, eighteen (18) RRUS, and three (3) surge suppressors located at a Rad Center of 126' to be collocated on a new site build 130' Monopole. This project will include a 40'x40' fenced in lease area to enclose all associated ground equipment. This equipment includes an AT&T Approved walk in cabinet atop new cell block platform foundation with a 30kw diesel generator and 190 gallon belly tank.

Project Justification

AT&T Wireless is currently improving the existing wireless network in the Oakdale area. The proposed installation of this new site build will improve wireless coverage to the area and will also increase the network capacity. This site will incorporate the FirstNet program. FirstNet is a single, nationwide network strictly dedicated to public safety communications. The FirstNet program allows first responders to get information quickly to help them make decisions in a timely manner. In times of emergency or planned public events when the data capacity is full, FirstNet will throttle the data to provide the needed bandwidth to public safety workers. This network will allow first responders and public safety workers to send and receive voice, data, and text without concerns of network congestion. This network would not only benefit those in larger cities, but those in rural America that don't have the needed coverage for cell use, let alone emergencies.

- Operation of the project will occur 12 months a year, 7 days a week, 24 hours a day consistent with the continuous schedule of normal telephone company operations.
- The facility is "unmanned", meaning that the facility will not have a representative present during all hours of operation, and will only be visited on an "as needed" basis. No more than two technicians will ever attend the facility. Their schedule will be on a 24 hour basis. No more than two service vehicles, being either a van or a four-wheel drive vehicle, will visit the facility once consturcted. The technicians will typically be at site's location either once a month, or once every other month.
- There will be no noise, glare, dust or odors associated with the facility with the exception of an emergency generator which will operate in the event of a commercial power failure, and dust during construciton.

Should you have questions regarding this project, please do not hesitate to contact the undersigned.

Sincerely,

Ashley Smith Epic Wireless Group LLC (916) 247-1749 <u>ashley.smith@epicwireless.net</u>

> 605 Coolidge Drive, Suite 100 Folsom, CA. 95630



🥰 at&t

On Behalf Of

PROJECT SUPPORT STATEMENT ALTERNATIVE SITE ANAYLSIS Summary of Site Evaluations and Technical Evidence Conducted by Epic Wireless Group, LLC

AT&T TELECOMMUNICATIONS FACILITY "108 & CRANE"

AT&T SITE NUMBER: CVL01729

AUTHORIZED AGENT:

EPIC WIRELESS GROUP, LLC

ZONING MANAGER:

Ashley Smith; (916) 936-5430; Ashley.Smith@epicwireless.net

PROPERTY OWNER:

ARCOS FAMILY

APN: 062-005-020-000

7819 CRANE ROAD, OAKDALE CA 95361

- PROJECT'S BACKGROUND AND OBJECTIVES
 - SEARCH RING'S DESCRIPTION
 - EXISTING TOWERS
 - ALTERNATIVE SITE ANALYSIS
 - SUBJECT PARCEL AND SITE DETAILS
 - OPERATIONAL STATEMENT







I. <u>Executive Summary</u>

As wireless technology and customer demand increases and evolves, so does the need for additional wireless facilities to meet that demand. Since this project would be owned and operated by AT&T Mobility, there is no cost to the surrounding residences nor the County. The city of Oakdale and its residences will fully benefit from this tower. The benefits include better cell coverage and increased capacity as well as the FirstNet program. FirstNet is a single, nationwide network strictly dedicated to public safety communications. The FirstNet program allows first responders to get information quickly to help them make decisions in a timely manner. In times of emergency or planned public events when the data capacity is full, FirstNet will throttle the data to provide the needed bandwidth to public safety workers. This network will allow first responders and public safety workers to send and receive voice, data, and text without concerns of network congestion. This network would not only benefit those in larger cities, but those in rural America that don't have the needed coverage for cell use, let alone emergencies.



🥰 at&t

On Behalf Of

II. <u>Coverage Objective</u>

AT&T will a provide improved wireless coverage. The tower will also include the FirstNet program. FirstNet is a single, nationwide network strictly dedicated to public safety communications. The FirstNet program allows first responders to get information quickly to help them make decisions in a timely manner. In times of emergency or planned public events when the data capacity is full, FirstNet will throttle the data to provide the needed bandwidth to public safety workers. This network will allow first responders and public safety workers to send and receive voice, data, and text without concerns of network congestion.

III. <u>Project Description</u>

The proposed site is approximately 2.3 mile west of the center of Oakdale. Our intended goal for this project was to find a commercial location to construct this proposed new site build. The property where the tower is to be proposed is on a Trucking Company property. The subject property is in the Stanislaus County Planning jurisdiction. This parcel is zoned AG 10 acre with a general land use of Agriculture. Telecommunication facilities are an allowed use on Agricultural properties with the approval from County Staff. The proposed telecommunications facility shall be set back from an adjacent property's residence by twice the height of the tower. Additionally, the tower location must meet the AG zones setbacks for front and side. Additionally, per the Stanislaus County code, a monopole design is preferred, with the tallest recommend height not to exceed 130'.

IV. <u>Methodology</u>

In identifying the least intrusive site location and design, AT&T looks to topography, local code, ordinances, and general plans to identify the values significant to the local community for placement of wireless facilities. In addition, each proposed site must meet minimum requirements of fulfilling coverage objectives, a willing landlord, feasible construction, road access, available telephone and electrical utilities, as well as compliance with local zoning requirements.





V. Existing Telecommunication Facilities

Before pursuing a new site build location for AT&T, EPIC Wireless first reviews the area for any feasible existing telecommunications facilities. According to the data found on Tower sites, there was only one facility that was located to the north of AT&T's current proposal. However, this existing tower is located .5 miles away, and thus would not meet AT&T's coverage objective.







VI. <u>ALTERNATIVE SITE ANALYSIS</u>

In total there were two candidates that EPIC Wireless included in the analysis to AT&T for review. This included the current proposal on the Arcos property, as well as the existing Verizon Wireless Tower.





🥰 at&t

On Behalf Of

i. <u>CANDIDATES INVESTIGATED</u>

Verizon Wireless Tower APN: 062-004-023







VII. <u>Chosen Candidate</u>

i. <u>PHOTO SIMULATION OF PROPOSED FACILITY:</u>



APN: 062-005-020-000

Site is approximately 2.3 miles west of the center of Oakdale. The site sits at an elevation of 145'. The proposed site location is to be constructed on an existing commercial lot for a trucking company. This site is the least intrusive means to provide the West Oakdale community with AT&T services. As you can see in the propagation maps enclosed in this application, the proposed tower will provide reliable coverage indoors and outdoors down south of Crane Road, and to the north to Pontiac Street.

Photos of proposed location are included in the next pages.





PROPOSED SITE LOCATION:







ACCESS OFF OF CRANE ROAD:







ii. OVERHEAD VIEW OF LEASE AREA AND DISTANCES TO NEARBY RESIDENCES:

Per Chapter 21.91.030.B.1 and B.2 of the County Code, the height of the tower shall be designed as a monopole and shall not exceed 130 feet above ground level. The proposal of this tower meets both siting standards. Additionally, per Chapter 21.91.030.B.3, the tower shall be located at a distance equal to at least twice the height of the tower from residential structures on adjoining properties. While looking over the map provided below, you will find that no existing structure on an adjoining property is located within the 260' circle radius from the tower location. The nearest neighbor to the proposed site is that of 490 feet away and thus meets the siting standards for new telecommunication facilities.







VIII. OPERATIONAL STATEMENT

This project is an AT&T Mobility unmanned Telecommunications Wireless Facility. It will consist of the following:

RENC 40' (1	OVATED SITE BUILD UNMANNED TELECOMMUNICATIONS FACILITY IN A (P) 40' X 600 SF) AT&T LEASE AREA TO INCLUDE THE FOLLOWING:
1.	INSTALL AT&T APPROVED WALK IN CABINET (WIC) AND ASSOCIATED INTERIOR
	EQUIPMENT ATOP NEW PRECAST FOUNDATION PLATFORM
2.	ADD (1) NEW GPS UNIT
3.	ADD NEW UTILITY H-FRAME AND NEW METER
4.	ADD NEW ANTENNA SECTOR MOUNTS
5.	ADD (15) ANTENNAS, (5) PER SECTOR
6.	ADD (18) RRUS (6) PER SECTOR AND (1) SQUID SURGE PROTECTOR PER
	SECTOR
7.	ADD (3) DC-12 SURGE SUPPRESSION UNITS
8.	ADD (P) 30kw DIESEL GENERATOR ON PRECAST FOUNDATION PLATFORM
9.	ADD ICE BRIDGE
10.	ADD NEW LEASE AREA PERIMETER CHAINLINK FENCING
11.	ADD POWER & FIBER CONDUIT

The facility will operate 24 hours a day 7 days a week. Maintenance workers will visit the site approximately once a month or once a quarter. There will be minimal noise from the standby generator, turning on once a month for 10 minutes for maintenance purposes limited to Monday through Friday between 8am and 5pm and during emergency power outages. The location is surrounded by foliage which will naturally stealth the facility. The tower will be built to provide co-location opportunities for future carriers or public safety entities.

VII. <u>Conclusion</u>

The identified site location and design of the proposed facility represents a thorough and responsible investigation of alternative site locations. AT&T, with the help of Epic Wireless and AT&T Wireless RF Engineers, has determined the proposed site to be the least intrusive means to service the maximum number of living units. This facility is believed to have the least impacts to the community while offering future opportunity for other carriers to collocate.

The area of Oakdale will benefit immensely from this tower in this specified location. From the FirstNet Program all of which is greatly needed in this area, to the coverage and capacity for AT&T Customers. For this reason, Epic Wireless is requesting review and approval on this proposal.



7430 New Technology Way, Suite 150 Frederick, MD 21703 (703) 596-1022 Office (540) 242-3195 Fax www.waterfordconsultants.com

December 4, 2021

Epic Wireless Group 605 Coolidge Drive Suite 100 Folsom CA, 95630

Re: Noise Assessment Letter

AT&T Site CVL01729-108 & Crane 7819 Crane Road, Oakdale, CA 95361

Site CVL01729-108 & Crane is a proposed AT&T macro site located in the Stanislaus County, CA. AT&T is proposing to add telecommunications equipment within pre-manufactured equipment cabinets with door mounted A/C units. They are also proposing to add a 30KW emergency standby generator. Based on our review of the project drawings and technical specifications, the following is a summary of our noise assessment of the proposed equipment.

Per **Stanislaus County Code of Ordinance, Chapter 10.46 Noise Control**; specifically, 10.46.050 Exterior Noise Level Standards, the following excerpt of the code defines noise level performance standards:

Table A EXTERIOR NOISE LEVEL STANDARDS

Designated Naise Zone	Maximum A-Weighted Sound Level as Measured on a Sound Level Meter (LMAX)				
Designated 10036 2016	7:00 a.m.—9:59 p.m.	10:00 p.m.—6:59 a.m.			
Noise Sensitive	45	45			
Residential	50	45			
Commercial	60	55			
Industrial	75	75			

2. Exterior noise levels shall not exceed the following cumulative duration allowance standards:

Table B CUMULATIVE DURATION ALLOWANCE STANDARDS

Cumulative Duration	Allowance Decibels
Equal to or greater than 30 minutes per hour	Table A plus 0 dB
Equal to or greater than 15 minutes per hour	Table A plus 5 dB
Equal to or greater than 5 minutes per hour	Table A plus 10 dB
Equal to or greater than 1 minute per hour	Table A plus 15 dB
Less than 1 minute per hour	Table A plus 20 dB

NOISE ANALYSIS

Of the supporting equipment planned for this project, Table 2 below presents the primary noise sources of concern.



Noise Source	Equipment Type	Make	Model	Size	Manufacturer's Published Noise Data (dBA)	Noise Data Reference Distance (ft)
А	AC Unit	Vertiv		3 KW	63	5
В	Generator	Generac	SD030	30 KW	66 ⁽¹⁾	23

Table C – Supporting Equipment Noise Data

[1] Sound pressure is based on Gen Set with Level 2 sound attenuated enclosure, full-load operating conditions.

Our review of the equipment package did not reveal any other significant noise sources being proposed. This equipment is proposed to be installed on private property.

To properly present this assessment, our noise modeling has assumed following scenarios: 1) the generator is operating in the full-load condition; 2) A/C unit on the pre-manufactured cabinet run continuously; 3) Ambient noise is not considered; 4) other existing (non-carrier) on-site equipment creating noises are ignored; 5) **a solid 6ft high fence around the compound will be required** and 6) despite the long setbacks to the adjacent property lines, our analysis does not include noise reduction factors such as air attenuation, vegetation, and ground effects, which become significant at large distances.

The subject telecommunications site is proposed on private property being used for Trucking storage. Adjacent properties are Agricultural in use with a residence on site. The telecommunications compound will sit within APN 062-005-020. The nearest adjacent residential property is located just South of subject site (APN 062-005-021) approximately 15.00 feet from the lease area.

10.46.050 Exterior Noise Level Standards of Stanislaus County Code of Ordinance, the measurement of sound shall be taken from the nearest residential site's property line, towards the source of the sound, which equates to **35.0 ft** distance from the generator to the property line and **22.5 ft** from shelter A/C unit to property line.

Generator is for emergency backup to be operated during power outages. Generator is exercised once a week for fifteen minutes maximum during daytime hours only. Testing and maintenance shall only take place between 7:00 a.m. and 9:59 p.m. There is one Vertiv cabinet proposed with a cabinet mounted A/C unit. This cabinet mounted unit will run during daytime and night-time hours.

Noise level measurements per Table C, calculated to property line, are as follows:

Noise Source 'A' – Cabinet Mounted A/C unit = 41.3 dBA Noise Source 'B' – Generator = 54.8 dBA



Based on Stanislaus County's code of ordinance, the anticipated noise level of the equipment on the cabinet meets the maximum noise levels of 45 dBA's; and the emergency standby generator meets the maximum noise levels of 55 dBA's (50+5 dBAs for 15 minute duration) requirements for generator testing and maintenance taking place between 7:00 a.m. and 9:59 p.m

Site lease area is located at a large distance from the actual residential structure. As sound pressure levels attenuate with increasing distance from the sound source, noise levels due to the supporting equipment at all remaining surrounding property lines, are anticipated to be less than the County's requirements, meeting the noise standards outlined in this report.

CONCLUSION

Based on the project documentation, our noise assessment indicates that the proposed AT&T Telecommunications Facility complies with requirements mandated by Stanislaus County per stated noise metrics outlined in the requirements above. To avoid any misunderstanding, I hereby state that to the best of my knowledge, belief and professional judgment, this report represents an accurate appraisal of AT&T' equipment, based upon careful evaluation of Manufacturer's data to the extent reasonably possible.

Please reach out if I can be of further assistance.

Respectfully Submitted For the Firm,

V 2021.12.05 00:42:36-05'00' Robert J Lara, AIA Sr. Architect and Technical Lead



Radio Frequency Emissions Compliance Report For AT&T Mobility										
Site Name:	108 & Crane	Site Structure Type:	Monopole							
Address:	7819 Crane Road	Latitude:	37.751694							
	Oakdale, CA 95361	Longitude:	-120.884778							
Report Date:	November 30, 2021	Project:	Modification							

Compliance Statement

Based on information provided by AT&T Mobility and predictive modeling, the CVL01729 installation proposed by AT&T Mobility will be compliant with Radiofrequency Radiation Exposure Limits of 47 C.F.R. §§ 1.1307(b)(3) and 1.1310. RF alerting signage at the base of the Monopole and restricting access to authorized climbers that have completed RF safety training is required for Occupational environment compliance. The proposed operation will not expose members of the General Public to hazardous levels of RF energy and will not contribute to existing cumulative MPE levels on walkable surfaces at ground or in adjacent buildings by 5% of the General Population limits.

Certification

I, David H. Kiser, am the reviewer and approver of this report and 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.

General Summary

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. Based on the criteria for these classifications, the FCC General Population limit is considered to be a level that is safe for continuous exposure time. The FCC General Population limit is 5 times more restrictive than the Occupational limits.

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.

	Limits for General Populat	ion/ Uncontrolled Exposure	Limits for Occupational/ Controlled Exposure					
Frequency (MHz)	Power Density (mW/cm²)	Averaging Time (minutes)	Power Density (mW/cm ²)	Averaging Time (minutes)				
30-300	0.2	30	1	6				
300-1500	f/1500	30	f/300	6				
1500-100,000	1.0	30	5.0	6				

Table 1: FCC Limits

f=Frequency (MHz)

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 location given the spatial orientation and operating parameters of multiple RF sources. The power density in the Far Field of an RF source is specified by OET-65 Equation 5 as follows:

$$S = \frac{EIRP}{4 \cdot \pi \cdot R^2} \; (\mathrm{mW/cm^2})$$

where EIRP is the Effective Radiated Power relative to an isotropic antenna and R is the distance between the antenna and point of study. Additionally, consideration is given to the manufacturers' horizontal and vertical antenna patterns as well as radiation reflection. At any location, the predicted power density in the Far Field is the spatial average of points within a 0 to 6-foot vertical profile that a person would occupy. Near field power density is based on OET-65 Equation 20 stated as

$$S = \left(\frac{180}{\theta_{BW}}\right) \cdot \frac{100 \cdot P_{in}}{\pi \cdot R \cdot h} \text{ (mW/cm}^2)$$

where P_{in} is the power input to the antenna, θ_{BW} is the horizontal pattern beamwidth and h is the aperture length.

Some antennas employ beamforming technology where RF energy allocated to each customer device is dynamically directed toward their location. This analysis includes a statistical factor reducing the actual power of the antenna system to 32% of maximum theoretical power to account for spatial distribution of users, network utilization, time division duplexing, and scheduling time. AT&T recommends the use of this factor based on a combination of guidance from its antenna system manufacturers, supporting international industry standards, industry publications, and its extensive experience.

Analysis

AT&T Mobility proposes the following installation at this location:

- Add (12) Antennas, (4) per sector.
- Add (18) RRUS (6) per sector.

The antennas will be mounted on a 130' Monopole with centerlines 126' above ground level. Proposed antenna operating parameters are listed in Appendix A. Other appurtenances such as GPS antennas, RRUs and hybrid cable below the antennas are not sources of RF emissions. No other antennas are known to be operating 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, serves to reduce the potential to exceed MPE limits at any location other than directly in front of the antennas. For accessible areas at ground level, the maximum predicted power density level resulting from all AT&T Mobility operations is 2.0541% of the FCC General Population limits. Incident at adjacent buildings depicted in Figure 1, the maximum predicted power density level resulting from all AT&T Mobility operations is 3.5902% of the FCC General Population limits. The proposed operation will not expose members of the General Public to hazardous levels of RF energy and will not contribute to existing cumulative MPE levels on walkable surfaces at ground or in adjacent buildings by 5% of the General Population limits.

Waterford Consultants, LLC recommends posting RF alerting signage with contact information (Caution 2B) at the base of the Monopole to inform authorized climbers of potential conditions near the antennas. These recommendations are depicted in Figure 2.





Caution 2B sign required on the base of the monopole at the access location.

Antenna #:	Carrier:	Manufacturer	Pattern:	Band (MHz):	Mech Az (deg):	Mech DT (deg):	H BW (deg):	Length (ft):	TPO (W):	Channels:	Loss (dB):	Gain (dBd):	ERP (W):	EIRP (W):	Rad Center (ft):
1	AT&T	QUINTEL	QD8612-3D V1 02DT	700	70	0	70	8	40	4	0	12.7109	2987	4900	126
1	AT&T	QUINTEL	QD8612-3D V1 02DT	850	70	0	61	8	40	4	0	13.2158	3355	5504	126
1	AT&T	QUINTEL	QD8612-3D V1 02DT	1900	70	0	60	8	40	4	0	15.249	5358	8791	126
1	AT&T	QUINTEL	QD8612-3D V1 02DT	2100	70	0	60	8	40	4	0	15.6024	5812	9536	126
2	AT&T	ERICSSON	SON_AIR6449 NR TB 3700 AT&T	3700	70	0	11	2.8	108.4	1	0	23.55	24549	40274	126
3	AT&T	QUINTEL	QD8612-2 V1 02DT	700	70	0	69	8	40	4	0	13.0532	3232	5302	126
3	AT&T	QUINTEL	QD8612-2 V1 02DT	1900	70	0	61	8	40	4	0	15.3423	5475	8982	126
3	AT&T	QUINTEL	QD8612-2 V1 02DT	2100	70	0	62	8	40	4	0	15.685	5924	9719	126
4	AT&T	QUINTEL	QD868-2 V1 02DT	700	70	0	74	8	40	2	0	12.1945	1326	2175	126
4	AT&T	QUINTEL	QD868-2 V1 02DT	2300	70	0	62	8	25	4	0	15.4039	3470	5694	126
5	AT&T	QUINTEL	QD8612-3D V1 02DT	700	310	0	70	8	40	4	0	12.7109	2987	4900	126
5	AT&T	QUINTEL	QD8612-3D V1 02DT	850	310	0	61	8	40	4	0	13.2158	3355	5504	126
5	AT&T	QUINTEL	QD8612-3D V1 02DT	1900	310	0	60	8	40	4	0	15.249	5358	8791	126
5	AT&T	QUINTEL	QD8612-3D V1 02DT	2100	310	0	60	8	40	4	0	15.6024	5812	9536	126
6	AT&T	ERICSSON	SON_AIR6449 NR TB 3700 AT&T	3700	310	0	11	2.8	108.4	1	0	23.55	24549	40274	126
7	AT&T	QUINTEL	QD8612-2 V1 02DT	700	310	0	69	8	40	4	0	13.0532	3232	5302	126
7	AT&T	QUINTEL	QD8612-2 V1 02DT	1900	310	0	61	8	40	4	0	15.3423	5475	8982	126
7	AT&T	QUINTEL	QD8612-2 V1 02DT	2100	310	0	62	8	40	4	0	15.685	5924	9719	126
8	AT&T	QUINTEL	QD868-2 V1 02DT	700	310	0	74	8	40	2	0	12.1945	1326	2175	126
8	AT&T	QUINTEL	QD868-2 V1 02DT	2300	310	0	62	8	25	4	0	15.4039	3470	5694	126
9	AT&T	QUINTEL	QD8612-3D V1 02DT	700	190	0	70	8	40	4	0	12.7109	2987	4900	126
9	AT&T	QUINTEL	QD8612-3D V1 02DT	850	190	0	61	8	40	4	0	13.2158	3355	5504	126
9	AT&T	QUINTEL	QD8612-3D V1 02DT	1900	190	0	60	8	40	4	0	15.249	5358	8791	126
9	AT&T	QUINTEL	QD8612-3D V1 02DT	2100	190	0	60	8	40	4	0	15.6024	5812	9536	126
10	AT&T	ERICSSON	SON_AIR6449 NR TB 3700 AT&T	3700	190	0	11	2.8	108.4	1	0	23.55	24549	40274	126
11	AT&T	QUINTEL	QD8612-2 V1 02DT	700	190	0	69	8	40	4	0	13.0532	3232	5302	126

Antenna #:	Carrier:	Manufacturer	Pattern:	Band (MHz):	Mech Az (deg):	Mech DT (deg):	H BW (deg):	Length (ft):	TPO (W):	Channels:	Loss (dB):	Gain (dBd):	ERP (W):	EIRP (W):	Rad Center (ft):
11	AT&T	QUINTEL	QD8612-2 V1 02DT	1900	190	0	61	8	40	4	0	15.3423	5475	8982	126
11	AT&T	QUINTEL	QD8612-2 V1 02DT	2100	190	0	62	8	40	4	0	15.685	5924	9719	126
12	AT&T	QUINTEL	QD868-2 V1 02DT	700	190	0	74	8	40	2	0	12.1945	1326	2175	126
12	AT&T	QUINTEL	QD868-2 V1 02DT	2300	190	0	62	8	25	4	0	15.4039	3470	5694	126

Notes: Table depicts recommended operating parameters for AT&T Mobility proposed operations.