IV.

PLANNING COMMISSION
STAFF REPORT

REPORT DATE: January 28, 2016
AGENDA DATE: February 4, 2016
PROJECT ADDRESS: 1 North Calle Cesar Chavez (MST2015-00570)

TO: Planning Commission
FROM: Planning Division, (805) 564-5470, extension 4539
Beatriz Gularte, Senior Planner
Tony Boughman, Assistant Planner

I. PROJECT DESCRIPTION

The project consists of the installation of an FM radio antenna on the roof of the existing Vercal Building over the Calvary Chapel leasehold space. The purpose of the antenna is for the church to receive a signal from another location and transmit it locally in the Santa Barbara area. The radio station will be ancillary to the use of the property as a church and used to broadcast services, etc.

The height of the antenna will be approximately 20 feet above the roof line. The overall height of the antenna from grade will be approximately 50 feet. The proposed translator antenna operation does not involve any onsite personnel.

II. REQUIRED APPLICATION

The discretionary application required for this project is a Conditional Use Permit (CUP) to allow the installation of a radio antenna (SBMC §28.94.030.DD).

APPLICATION DEEMED COMPLETE: December 11, 2015
DATE ACTION REQUIRED: February 9, 2016

III. RECOMMENDATION

If approved as proposed, the project would conform to the City’s Zoning and Building Ordinances and policies of the General Plan. In addition, the size of the project is inconsequential in the context of the site and surrounding industrial neighborhood. Therefore, Staff recommends that the Planning Commission approve the project, making the findings outlined in Section IX of this report, and subject to the conditions of approval in Exhibit A.
IV. BACKGROUND

The 7.44 acre site is currently developed with the 208,000 square foot Vercal Industrial Building. The building includes a mix of uses including retail, office, industrial and warehouse uses as well as the long established Calvary Chapel.

The project is located within the Appealable Jurisdiction of the Coastal Zone; however, it qualifies for a Coastal Exemption for “other construction” because it involves no risk of adverse environmental effect; does not adversely affect public access; or result in any change in use contrary to any policy of the Coastal Act (SBMC §28.44.070.E).

The City’s “Design Review Guidelines for Wireless Communication Facilities/Antennas” state that these facilities should be appropriately sited, and screened or hidden from the public view. This application proposes a small antenna and support pole on the roof of the very large Vercal Building. Any visual screening added to the antenna would add more visible mass and be more likely to draw one’s attention to it. The project was reviewed by the Architectural Board of Review (ABR) on December 7, 2015 and found to be acceptable as submitted.
Calvary Chapel has been issued a Construction Permit by the Federal Communication Commission (FCC) for this project. A previous CUP was approved in 1995 for a similar project but was never constructed.

V. SITE INFORMATION

<table>
<thead>
<tr>
<th>Applicant:</th>
<th>John Cuykendall, Dudek</th>
</tr>
</thead>
<tbody>
<tr>
<td>Property Owner:</td>
<td>Jacques Investments</td>
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<td>Parcel Number: 017-113-012</td>
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<td>General Plan: Ocean Oriented Industrial</td>
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<td>Existing Use: Various non-residential</td>
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<table>
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<th>Adjacent Land Uses</th>
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VI. ZONING AND POLICY CONSISTENCY ANALYSIS

A. ZONING ORDINANCE CONSISTENCY

The City’s Zoning Ordinance requires a Conditional Use Permit for any radio or television antenna in all zones subject to certain findings. The project can be found consistent with the Zoning Ordinance upon approval of the Conditional Use Permit. The general CUP findings found in SBMC §28.94.020 and specific findings for radio antennas are provided in SBMC §28.94.030.DD.2 are discussed in Section IX of this report.

B. GENERAL PLAN CONSISTENCY

One of the main findings for a CUP is that the use is deemed essential or desirable to the public convenience or welfare and is in harmony with the various elements or objectives the Comprehensive General Plan. As explained previously, the church use is an existing use on this site. The proposed antenna is an ancillary use that would allow broadcasting of services in the Santa Barbara area.

The site is a large industrial property surrounded by industrial uses. The General Plan policies relevant to this project address issues of Visual Resources. A central goal of the Environmental Resources Element is to protect, maintain, and enhance the scenic character of the City. Relevant General Plan Aesthetics and Visual Resources Policies include:

*ER29. Visual Resources Protection. New development or redevelopment shall preserve or enhance important public views and viewpoints for public enjoyment, where such protection would not preclude reasonable development of property.*

Policy ER29 addresses important public views and viewpoints for public enjoyment; however, these are not present at the project site. The nearest public viewpoint is Chase Palm Park on East Cabrillo Boulevard, and the proposed antenna would not be visible from there due to intervening trees and structures, and the distance.
ER30. Enhance Visual Quality. Not only retain, but improve visual quality of the city wherever practicable.

Policy ER30 calls for improving the visual quality of the City when practicable. Given this application’s scope of work and lack of visual impacts, it would not be practicable to require visual enhancements.

The antenna’s placement well over 100 feet from the sides of the roof results in sight lines such that a viewer on the ground has to be so far away from the antenna that it’s appearance is miniscule. The slender ½ inch diameter antenna material and the four inch diameter round steel column support do not pose visual concerns. The applicant has provided visual simulations (see Exhibit B).

VII. ENVIRONMENTAL REVIEW

Staff has determined that the proposed antenna is Categorically Exempt from the California Environmental Quality Act (CEQA) per Guidelines Section 15303 for New Construction or Conversion of Small Structures. The project is mounted on an existing rooftop mechanical platform and, once installed, would not produce significant noise or create a significant hazard. The firm of Preiser Consulting evaluated the proposal for compliance with Federal Communications Commission guidelines for human exposure to radiofrequency electromagnetic fields (see Exhibit C). Their calculations found that the project’s emissions would not exceed 2.85% of the applicable public exposure limit, or 18.25% of the applicable occupational limit, and, therefore, well within the guidelines. However, Preiser Consulting did recommend a warning signage below the antenna on the antenna mounting because radio frequency exposure within 3 feet of the antenna, such as may be encountered by maintenance personnel working at elevated positions at the antenna, may exceed the applicable occupational Maximum Permissible exposure. This is included as a condition of approval. The proposal poses no significant environmental effects, including visual impacts.

VIII. DESIGN REVIEW

This project was reviewed by the ABR on December 7, 2015 (see Exhibit D). The ABR found the application acceptable as submitted, and stated that the project has a very minor impact and complies with the Compatibility Criteria. They directed the project to return to the ABR Consent Agenda for design review approval following Planning Commission approval.

IX. FINDINGS

The Planning Commission finds the following:

General Findings for the Conditional Use Permit (SBMC §28.94.020)

1. Any such use is deemed essential or desirable to the public convenience or welfare and is in harmony with the various elements or objectives of the Comprehensive General Plan.

The antenna installation is essential and desirable to the public convenience or welfare and, as discussed in Section VI.B, is consistent with applicable policies of the Santa Barbara General Plan.
2. Such uses will not be materially detrimental to the public peace, health, safety, comfort and general welfare and will not materially affect property values in the particular neighborhood involved.

As discussed in Section VI.B, and Section VII above, the project will not be materially detrimental or effect property values; the equipment will be located inside the building and will not emit significant noise. The antenna will not emit radio frequency radiation above levels established by the Federal Communications Commission.

3. The total area of the site and the setbacks of all facilities from property and street lines are of sufficient magnitude in view of the character of the land and of the proposed development that significant detrimental impact on surrounding properties is avoided.

The project is buffered adequately to avoid significant detrimental impacts on surrounding properties by the location of the small antenna on the building’s high roof. The location of the antenna on the 7.44 acre site is nearly 200 feet from the nearest property line.

4. Adequate access and off-street parking including parking for guests is provided in a manner and amount so that the demands of the development for such facilities are adequately met without altering the character of the public streets in the area at any time.

The antenna is an FM “translator” antenna which receives a signal from another location and transmits it locally. It does not involve any on site personnel, therefore does not generate any on-site parking demand.

5. The appearance of the developed site in terms of the arrangement, height, scale and architectural style of the buildings, location of parking areas, landscaping and other features is compatible with the character of the area. The Planning Commission shall have the authority to approve the design of open space. Design shall mean size, shape, location and usability for proposed private, public, or quasi-public purposes and development. Approval of such open spaces may be expressly conditioned upon an offer of conveyance by the owner to the City of Santa Barbara of the development rights, the right to prohibit the construction of additional buildings, or other property rights, necessary to achieve the purposes set forth in this title.

The project has no significant effect on the appearance of the developed site. The size of the proposed antenna mounted on the roof of the Vercal Building is insignificant in proportion to the existing building. The project is compatible with the industrial character of the area, and has no effect on open space.

6. Compliance with any additional specific requirements for a conditional use permit. The Planning Commission may impose such other conditions and restrictions upon the proposed use consistent with the Comprehensive General Plan and may require security to assure satisfactory performance of all conditions and restrictions.

Staff has no recommended additional specific requirements.

Additional Specific Findings for Antennas (SBMC §28.94.030.DD.2):

a. Shared Use of Support Structure. The applicant had made a good faith effort to demonstrate that no existing or planned support structure, including an antenna tower, is available to accommodate the proposed antenna.
The proposal is using an existing rooftop mechanical platform to attach the four inch pole for the support structure.

b. Site Size. The site is of a size and shape sufficient to provide an adequate setback from the base of the antenna support structure to any property line abutting a residential use.

The subject property has no property line abutting a residential use, and there is no residential use in proximity to the project.

c. Visual Impact. The project has been reviewed by the Architectural Board of Review. The Board may take action on the location of the antenna(s) on the site, color and size so as to minimize any adverse visual impacts by requiring that the antenna and its supporting structure be designed and placed so as to be as visually unobtrusive as feasible, taking into consideration technical engineering and other pertinent factors.

As discussed in Section VIII, the ABR found that the antenna and supporting structure is approvable as submitted.

d. Non-ionizing Electromagnetic Radiation (NIER) Emissions. Any new transmitters and/or antennas, when combined with existing sources of NIER emissions on or adjacent to the site and when operating as designed and licensed, shall not expose the general public to ambient radiation emissions which exceed American National Standards Institute (ANSI) C95.1-1992 standard (if the Federal Communications Commission (FCC) rulemaking committee adopts a revised standard, said standard shall apply).

As discussed in Section VII of this report and as evaluated in the Study by Preiser Consulting dated November 30, 2015, the antenna will not expose the general public to ambient radiation emissions in excess of applicable FCC standards. Appropriate signage will be included to warn maintenance personnel working at an elevated position of the antenna.

Exhibits:

A. Conditions of Approval
B. Applicant’s photographic simulations
C. Radio Frequency Compliance Study
D. ABR Minutes December 7, 2015
E. Letter from Applicant
F. Plans
PLANNING COMMISSION CONDITIONS OF APPROVAL

1 NORTH CALLE CESAR CHAVEZ
CONDITIONAL USE PERMIT
FEBRUARY 4, 2016

In consideration of the project approval granted by the Planning Commission and for the benefit of the owner(s) and occupant(s) of the Real Property, the owners and occupants of adjacent real property and the public generally, the following terms and conditions are imposed on the use, possession, and enjoyment of the Real Property:

A. Order of Development. In order to accomplish the proposed development, the following steps shall occur in the order identified:

1. Obtain all required design review approvals.
2. Pay Land Development Team Recovery Fee (30% of all planning fees, as calculated by staff) at time of building permit application.
3. Record any required documents (see Recorded Conditions Agreement section).
4. Obtain a Building Permit.

Details on implementation of these steps are provided throughout the conditions of approval.

B. Recorded Conditions Agreement. The Owner shall execute a written instrument, which shall be prepared by Planning staff, reviewed as to form and content by the City Attorney, and Community Development Director, recorded in the Office of the County Recorder, and shall include the following:

1. Approved Development. The development of the Real Property approved by the Planning Commission on February 4, 2016 is limited to the radio antenna and related improvements shown on the plans signed by the chairperson of the Planning Commission on said date and on file at the City of Santa Barbara.

2. Per the recommendation of the Radio Frequency Compliance Study prepared by Preiser Consulting, dated November 30, 2015, warning signage below the antenna on the antenna mounting structure shall be installed to prevent exposure within 3 feet of the antenna as may be encountered by maintenance personnel working at elevated positions.

C. Requirements Prior to Permit Issuance. The Owner shall submit the following, or evidence of completion of the following, for review and approval by the Department listed below prior to the issuance of any permit for the project. Please note that these conditions are in addition to the standard submittal requirements for each department.

1. Community Development Department.
   a. Recordation of Agreements. The Owner shall provide evidence of recordation of the written instrument that includes all of the Recorded Conditions identified in condition B “Recorded Conditions Agreement” to the Community Development Department prior to issuance of any building permits.

EXHIBIT A
b. **Conditions on Plans/Signatures.** The final Resolution shall be provided on a full size drawing sheet as part of the drawing sets. Each condition shall have a sheet and/or note reference to verify condition compliance. A statement shall also be placed on the sheet as follows: The undersigned have read and understand the required conditions, and agree to abide by any and all conditions which are their usual and customary responsibility to perform, and which are within their authority to perform.

Signed:

<table>
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<tr>
<th>Property Owner</th>
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<tr>
<td>Contractor</td>
<td>Date</td>
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<tr>
<td>Architect</td>
<td>Date</td>
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<tr>
<td>Engineer</td>
<td>Date</td>
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2. **Approval Limitations.**

a. The conditions of this approval supersede all conflicting notations, specifications, dimensions, and the like which may be shown on submitted plans.

b. The antenna and supports shall be located substantially as shown on the plans approved by the Planning Commission.

c. Any deviations from the project description, approved plans or conditions must be reviewed and approved by the City, in accordance with the Planning Commission Guidelines. Deviations may require changes to the permit and/or further environmental review. Deviations without the above-described approval will constitute a violation of permit approval.

3. **Litigation Indemnification Agreement.** In the event the Planning Commission approval of the Project is appealed to the City Council, Applicant/Owner hereby agrees to defend the City, its officers, employees, agents, consultants and independent contractors ("City’s Agents") from any third party legal challenge to the City Council’s denial of the appeal and approval of the Project, including, but not limited to, challenges filed pursuant to the California Environmental Quality Act (collectively "Claims"). Applicant/Owner further agrees to indemnify and hold harmless the City and the City’s Agents from any award of attorney fees or court costs made in connection with any Claim.

Applicant/Owner shall execute a written agreement, in a form approved by the City Attorney, evidencing the foregoing commitments of defense and indemnification within thirty (30) days of being notified of a lawsuit regarding the Project. These
commitments of defense and indemnification are material conditions of the approval of the Project. If Applicant/Owner fails to execute the required defense and indemnification agreement within the time allotted, the Project approval shall become null and void absent subsequent acceptance of the agreement by the City, which acceptance shall be within the City’s sole and absolute discretion. Nothing contained in this condition shall prevent the City or the City’s Agents from independently defending any Claim. If the City or the City’s Agents decide to independently defend a Claim, the City and the City’s Agents shall bear their own attorney fees, expenses, and costs of that independent defense.

NOTICE OF CONDITIONAL USE PERMIT APPROVAL TIME LIMITS:
The Planning Commission action approving the Conditional Use Permit shall terminate two (2) years from the date of the approval, per Santa Barbara Municipal Code §28.87.360, unless:

1. An extension is granted by the Community Development Director prior to the expiration of the approval; or

2. A Building permit for the use authorized by the approval is issued and the construction authorized by the permit is being diligently pursued to completion and issuance of a Certificate of Occupancy.
Visual Simulation No.3: Looking west at proposed radio antenna from Calle Cesar Chavez.
Visual Simulation No.4: Looking north at proposed radio antenna from Cabrillo Blvd.
Radio Frequency Compliance Study

Calvary Chapel Low Power FM Broadcast Station
Santa Barbara, CA

11/30/2015

Preiser Consulting
23836 La Posta Court, Corona, CA 92883
Tel 951.489.1793 · Fax 951.638.4150

EXHIBIT C
RF Compliance Study  
Calvary Chapel Low Power FM Broadcast Station  
Santa Barbara, CA

Introduction
Preiser Consulting has been engaged by Dudek to conduct an Radio Frequency (RF) compliance study relating to an application request on behalf of Calvary Chapel Santa Barbara for a Conditional Use Permit/Coastal Development Permit and Architectural Board of Review for a proposed radio antenna to be located at 1 N. Calle Cesar Chavez in Santa Barbara, CA.

System Description
The proposed project involves the installation of a Low Power FM transmitter antenna on top of the roof of an existing industrial building. The antenna is a single bay circular polarized antenna, approximately 24 inches wide and 36 inches long, comprised of ¼ inch diameter anodized aluminum. The supporting mounting structure will be a 4-inch diameter pipe extending approximately 20 feet above the roof line. The top of the mounting pipe is at 50 feet above ground, while the center of the antenna is at 47 feet above ground.

Attachment 1 contains a photo of the antenna that is to be installed, while Attachment 2 shows the typical horizontal and vertical patterns of the antenna.

Calvary Chapel Santa Barbara was issued a Construction Permit by the Federal Communications Commission (FCC) to construct and operate a Lower Power FM Station on the frequency of 99.5 MHz with an effective radiated power (ERP) of 100 watts. Attachment 3 contains the FCC Construction Permit.
Methodology

In conducting the RF Compliance Study, relevant site application documents provided by Dudek were reviewed and analyzed against current FCC regulations and guidelines, industry standards and best practices. This includes a review of the project construction drawings by DMHA, dated October 27, 2015, and other documents provided by Dudek relative to the RF safety aspects to determine compliance with Federal Communications Commission guidelines. RF exposure levels were calculated using methods detailed in their Office of Engineering & Technology Bulletin No. 65, “Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields,” August 1997 (“OET Bulletin 65”). Based on the OET Bulletin 65, the Maximum Permissible Exposure (“MPE”) for the general population/uncontrolled exposure is 0.2 mW/cm² in the FM broadcast spectrum. Permissible levels for exposure under occupational conditions, such as may be encountered by maintenance personnel, are five times higher.

Findings Relating to Radio Frequency Emissions Safety

Based on calculations of potential RF emission levels consistent with FCC guidelines, the maximum calculated exposure at ground level would not exceed 2.85% of the applicable public exposure limit. These results are based on very conservative modeling assumptions; actual levels are expected to be significantly lower.

Exposure at roof level from any walkable surface would not exceed 18.25% of the applicable occupational exposure limit. This is the calculated exposure on some points on the maintenance platform. Again, these results are based on very conservative modeling assumptions; actual levels are expected to be significantly lower.

Exposure levels when spatially averaged may exceed the public MPE limits within a 3-foot zone from the antenna. However, this zone would only be accessible by maintenance personnel working at an elevated position at the antenna. This can be mitigated by RF safety awareness and training of personnel that may work within this defined zone, as well as a warning sign.
mounted approximately 3 feet below the antenna on the antenna mounting structure. See Attachment for the recommended signage.

It is my opinion that the wireless facility as proposed will comply with FCC guidelines for levels of radio frequency exposure.

**Summary and Conclusions**

Preiser Consulting is of the opinion that:

- The proposed project will meet Federal Communications Commission guidelines pertaining to radio frequency emissions exposure to the general public at ground level and on any walkable surface on the roof.
- RF exposure within 3 feet of the antenna, such as may be encountered by maintenance personnel working at elevated positions, may exceed the applicable occupational MPE. This may be mitigated by installation of warning signage below the antenna on the antenna mounting structure as recommended herein.
Certification

1. I have read and fully understand the FCC regulations concerning RF safety and the control of human exposure to RF fields (47 CFR 1.1301 et seq).

2. To the best of my knowledge, the statements and information disclosed in this report are true, complete and accurate.

3. The analysis of site RF compliance provided herein is consistent with the applicable FCC regulations, additional guidelines issued by the FCC, and industry practice.

Date: November 30, 2015

Dieter J. Preiser, PMP
Attachment 2
Typical Pattern for Single Bay Antenna

Typical mid-band radiation pattern
< Horizontal
Vertical >
{each bay}
United States of America
FEDERAL COMMUNICATIONS COMMISSION
LOW POWER FM BROADCAST STATION
CONSTRUCTION PERMIT

Official Mailing Address:
CALVARY CHAPEL OF SANTA BARBARA
2512 NORTH CALLE CHAYAC CHAVEZ
SANTA BARBARA, CA 93103

Facility ID: 196042
Call Sign: KMLH
Permit File Number: FNPL-20131111AIR

Authorizing official:
James O. Bradshaw
Deputy Chief
Audio Division
Media Bureau

Grant Date: August 29, 2014
This permit expires 3:00 a.m.
local time, 18 months after the
grant date specified above.

Subject to the provisions of the Communications Act of 1934, as amended,
subsequent acts and treaties, and all regulations hereinafore or hereafter
made by this Commission, and further subject to the conditions set forth
in this permit, the permittee is hereby authorized to construct the radio
transmitting apparatus herein described. Installation and adjustment of
equipment not specifically set forth herein shall be made only in
accordance with representations contained in the permittee’s application
for construction permit except for such modifications as are presently
permitted, without application, by the Commission’s Rules. See Section
73.875.

Equipment and program tests shall be conducted only pursuant to Sections
73.1610 and 73.1620 of the Commission’s Rules.

Name of Permittee: CALVARY CHAPEL OF SANTA BARBARA
Station Location: CA-SANTA BARBARA
Frequency (MHz): 99.5
Channel: 25B
Class: LP100
Hours of Operation: Unlimited

FCC Form 351A October 21, 1995
Call Sign: N5W

Transmitter Type Certified. See Sections 73.1660, 73.1665 and 73.1670 of the Commission’s Rules.

Transmitter output power: As required to operate within authorized range of effective radiated power.

Antenna type: Non-Directional

Antenna Coordinates:
North Latitude: 34 deg 25 min 09 sec
West Longitude: 119 deg 46 min 59 sec

Maximum Effective radiated power in the horizontal plane (watts): 100
Minimum Effective radiated power in the horizontal plane (watts): 20

Height of radiation center above ground (Meters): 15
Height of radiation center above mean sea level (Meters): 21
Height of radiation center above average terrain (Meters): -183

Antenna structure registration number: Not Required

Overall height of antenna structure above ground: 15 Meters

Obstruction marking and lighting specifications for antenna structure:

It is to be expressly understood that the issuance of these specifications is in no way to be considered as precluding additional or modified marking or lighting as may hereafter be required under the provisions of Section 303(g) of the Communications Act of 1934, as amended.

None Required

Special operating conditions or restrictions:

1. The permittee/licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

*** END OF AUTHORIZATION ***

FCC Form 351A October 21, 1995

Page 2 of 2

Attachment 3
Attachment 4
Recommended Signage on Antenna Mounting Structure

![Warning Sign]

Beyond this Point you are entering a controlled area where radio frequency emissions exceed the FCC Controlled Exposure Limits. Failure to obey all posted signs and site guidelines could result in serious injury.
The Federal Communications Commission (FCC) has established limits for maximum continuous human exposure to RF fields as directed by the Telecommunications Act of 1996.

The FCC maximum permissible exposure (MPE) limits represent the consensus of federal agencies and independent experts responsible for RF safety matters. Those agencies include the National Council on Radiation Protection and Measurements (NCRP), the Occupational Safety and Health Administration (OSHA), the National Institute for Occupational Safety and Health (NIOSH), the American National Standards Institute (ANSI), the Environmental Protection Agency (EPA), and the Food and Drug Administration (FDA). In developing its guidelines, the FCC also considered input from the public and technical community – notably the Institute of Electrical and Electronics Engineers (IEEE). The FCC's RF exposure guidelines are incorporated in Section 1.301 et seq of its Rules and Regulations (47 CFR 1.1301-1.1310). Those guidelines specify MPE limits for two types of exposures to RF energy:

1. Occupational / Controlled Exposure – persons who are exposed as a consequence of their employment and are fully aware of the potential for exposure and have the ability to exercise control over their exposure.

2. General Population/Uncontrolled Exposure – apply when one is exposed and may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

The specified continuous exposure MPE limits are based on known variation of human body susceptibility in different frequency ranges, and a Specific Absorption Rate (SAR) of 4 watts per kilogram, which is universally considered to accurately represent human capacity to dissipate incident RF energy (in the form of heat).

The occupational MPE guidelines incorporate a safety factor of 10 or greater with respect to RF levels known to represent a health hazard, and an additional safety factor of five is applied to
the MPE limits for general population exposure. Thus, the general population MPE limit has a built-in safety factor of more than 50. The limits were constructed to appropriately protect humans of both sexes and all ages and sizes and under all conditions – and continuous exposure at levels equal to or below the applicable MPE limits is considered to result in no adverse health effects or even health risk. The reason for two tiers of MPE limits is based on an understanding and assumption that members of the general public are unlikely to have had appropriate RF safety training and may not be aware of the exposures they receive; occupational exposure in controlled environments, on the other hand, is assumed to involve individuals who have had such training, are aware of the exposures, and know how to maintain a safe personal work environment.

The FCC’s RF exposure limits are expressed in two equivalent forms, using alternative units of field strength (expressed in volts per meter, or V/m), and power density (expressed in milliwatts per square centimeter, or mW/cm²). The table below lists the FCC limits for both occupational and general population exposures, using the mW/cm² reference, for the different radio frequency ranges.

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<th>Occupational Exposure (mW/cm²)</th>
<th>General Public Exposure (mW/cm²)</th>
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The diagram below provides a graphical illustration of both the FCC’s occupational and general population MPE limits.
Because the FCC’s RF exposure limits are frequency-shaped, the exact MPE limits applicable for a particular system installation depend on the frequency range used by the systems of interest.

The most appropriate method of determining RF compliance is to calculate the RF power density attributable to a particular system and compare that to the MPE limit applicable to the operating frequency in question. The result is usually expressed as a percentage of the MPE limit.

For potential exposure from multiple systems, the respective percentages of the MPE limits are added, and the total percentage compared to 100 (percent of the limit). If the result is less than 100, the total exposure is in compliance; if it is more than 100, exposure mitigation measures are necessary to achieve compliance.
Attachment 6

Ground Level Exposure Calculation Results

Per FCC OET65.
Attachment 7

Roof Level Exposure Calculation Results

Percentage of Maximum Permissible Exposure (Occupational)

Horizontal Distance from Antenna Mounting Structure (feet)
SUMMARY OF EXPERIENCE:

Over 35 years experience in all facets of telecommunications, with specialization in wireless technologies, including six years as an independent consultant for state and local government agencies on wireless and wireline telecommunications technologies. Areas of expertise include:

- Mobile radio technologies for public-safety agencies
- Wireless site development and operation
- Tower design and implementation
- Cellular voice and data technologies
- In-building coverage solutions
- Distributed Antenna Systems (DAS)
- Fiber optic and microwave backhaul transmission
- Next Generation 9-1-1 systems design and implementation
- Satellite voice and data transmission

CLIENTS SERVICED:

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<td>County of Santa Barbara, CA</td>
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<td>Fresno Fire Department</td>
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<td>City of Palo Alto</td>
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ADDITIONAL INFORMATION:

- BS Degree in Electronic Technology, MBA in Information Systems
- Certified Telecommunications Engineer - RF Endorsement (NARTE)
- First Class FCC Radio Telephone license
- Project Management Professional (PMP) certification from the Project Management Institute (PMI)
- Certified Cost Engineer (AACE), volunteer certification course instructor.
- Served as chairman of the Engineering Sub-Committee of the California Public-Safety Radio Association. (CPRA) a local chapter of the Association of Public Safety Officials (APCO).
- Member of the Associated Public-Safety Communications Officials International (APCO)
- FCC Amateur Radio License, N6DGS
- Served as a Computer and Communications Specialist with the California Air National Guard, Combat Communications Squadron
CONCEPT REVIEW - NEW ITEM: PUBLIC HEARING

2. 1 N CALLE CESAR CHAVEZ

   (4:00) Assessor’s Parcel Number: 017-113-012
   Application Number: MST2015-00570
   Owner: Jacques Investments, LP
   Owner: Jacques Investments, LP
   Applicant: Dudek
   Architect: DMHA

   (Proposal to install a radio antenna on top of the existing Verical Building in the center of the roof area over the Calvary Chapel leasehold space. The height of the antenna will be approximately 20 feet above the roof line. The overall height of the antenna from grade will be approximately 50 feet. This project requires Planning Commission review for a Conditional Use Permit and a Coastal Development Permit.)

   (Comments Only; requires Environmental Assessment, No Visual Impact findings, and Planning Commission review.)

   Actual time: 3:45 p.m.

   Present: John Cuykendall, Applicant, Dudek; Jerry Rucci, Architect, DHMA; Barry Spielman, Agent for Owner; and Tony Boughman, Assistant Planner.

   Public comment opened at 3:57 p.m. As no one wished to speak, public comment was closed.

   Staff clarified that this antenna does not require a finding of No Visual Impact because the Planning Commission must review the project for a Conditional Use Permit for an FM radio antenna. Staff requested the ABR consider the visual impacts of the proposal as described in Planning Commission finding SBMC §28.94.030.DD.2.c.

   Motion: Continued indefinitely to the Planning Commission for return to Consent Review with comments:
   1) The Board finds the application acceptable as submitted.
   2) The Board stated that the Compatibility Analysis considerations are not applicable as the project has a very minor impact and complies with the compatibility criteria, as stated. The Board has reviewed the proposed project and found that the Compatibility Analysis criteria in SBMC §22.68.045.B were generally met as follows:
      a. Compliance with City Charter and Municipal Code; General Consistency with Design Guidelines: The Board made the finding that the proposed development project’s design complies with all City Regulations and is consistent with ABR Design Guidelines.
      b. Compatible with Architectural Character of City and Neighborhood. The proposed design of the proposed development is compatible with the distinctive architectural character of the Santa Barbara and of the particular neighborhood surrounding the project.
      c. Appropriate size, mass, bulk, height, and scale. The proposed development's size, mass, bulk, height, and scale are appropriate for its neighborhood.
      d. Sensitive to Adjacent Landmarks and Historic Resources. The design of the proposed development is appropriately sensitive to adjacent City Landmark/designated historic resources, historic sites or natural features and mitigation measures are adequate to reduce adverse impacts.

   EXHIBIT D
e. **Public View of the Ocean and Mountains.** The design of the proposed project responds appropriately to established scenic public vistas.

f. **Appropriate Amount of Open Space and Landscaping.** The project’s design provides an appropriate amount of open space and landscaping.

**Action:** Poole/Miller, 5/0/0. Motion carried. (Tripp/Wittausch absent).
February 4, 2016

Planning Commission
City of Santa Barbara
Community Development Department
630 Garden Street
Santa Barbara, CA 93101

RE: Application for a Conditional Use Permit for a new Radio Antenna located at 1 N. Calle Cesar Chavez, Unit #21, City of Santa Barbara, Assessor’s Parcel Number 017-113-012 (MST2015-00570)

Dear Planning Commissioners:

On behalf of the property owner and Calvary Chapel, we are pleased to provide the following detailed project description for a Conditional Use Permit for a proposed radio antenna to be located at 1 N. Calle Cesar Chavez.

I. Project Location and Existing Site Conditions

The subject property is located at 1 N. Calle Cesar Chavez, south of U.S. Highway 101, in the Waterfront-East Beach coastal industrial area of the City of Santa Barbara. According to the Santa Barbara County Assessor’s Office, the site consists of one parcel (Assessor Parcel Number [APN] 017-113-012) that is approximately 7.44 acres in size. The property is located south of E. Yanonali Street, west of N. Calle Cesar Chavez, and north and east of the City’s El Estero Wastewater Treatment Plant (see attached assessor parcel map). The lot takes access from E. Yanonali Road and Calle Cesar Chavez.

The subject property is surrounded primarily by commercial/industrial development and the City’s wastewater treatment facility. The Santa Barbara Rescue Mission is located to the north across E. Yanonali Street.

The property is zoned OM-1/SD-3 (Ocean-Oriented Light Manufacturing/ Coastal Zone).

Development on the property consists of the existing approximately 208,000 square foot Vercal Industrial Building. This building includes retail/office, industrial, and warehouse uses as well as

EXHIBIT E
the Calvary Chapel. The City approved a land use matrix for the Vercal-Building on October 28, 1993 that provides a baseline of allowed land use types permitted in the large industrial building. The City approved Vercal-Building land use matrix included the Calvary Chapel leased space.

II. Background

On June 15, 1995, the City of Santa Barbara Planning Commission approved Resolution No. 039-95 approving a Conditional Use Permit and Coastal Development Permit to install and operate an FM radio translator and antenna on the roof above the Calvary Chapel leased space. Following the approval, the overall height was determined not adequate to provide the desired coverage for the Santa Barbara area with the approved 100 watt input power rating. Consequently, a request for a Substantial Conformance Determination (SCD) was made to the City to allow the antenna to extend additional 10-feet. The City never acted on the SCD request as it was determined that the additional 10-feet in height would not be compliant with the FCC approval that permitted a maximum height of 50-feet above ground for the radio antenna. As a result, the SCD request was withdrawn and the approved radio antenna was never constructed onsite.

As part of the 1995 CUP approval, the radio station operation was determined to be ancillary to the use of the property as a church, and therefore, consistent with the Vercal building – Baseline Land Use Matrix. Furthermore, the height of the approved antenna was below the allowed height of 70-feet in the OM-1/SD-3 zone and determined not to be an issue.

The project was determined categorically exempt from preparation of an environmental document pursuant to CEQA Guidelines Section 15301, which includes "operation, repair, maintenance, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of use beyond that previously existing". The project consisted of installation of mechanical equipment, which would allow transmitting of programs related to the existing church use of the property.

III. Proposed Project

The proposed project involves a request for re-approval of a Conditional Use Permit to allow installation of an FM antenna in the Coastal Zone, similar to the previously approved antenna. The applicant, Calvary Chapel, has received a new license to operate an FM translator station at this location. On August 20, 2014, the Federal Communications Commission (FCC) issued a Construction Permit for the radio antenna to operate as a Low Power FM Station on frequency 99.5 MHz to be operated by the Calvary Chapel of Santa Barbara. The FCC permit expires 18 months (February 2016) after the grant date of August 20, 2014 (see attached FCC Permit).
The Calvary Chapel requested and received an 18 month extension to the FCC Construction Permit in December 2015 for the proposed antenna (see attached FCC Extension).

The proposal is to install a di-pole FM radio antenna on top of the existing industrial building in the center of the roof area over the church’s leased space (please refer to Sheet A-1 – roof plan/site plan). The height of the 4-inch diameter pipe is approximately 11 feet above the roof clerestory line (please refer to Sheet A-2 – partial elevations). The antenna would be a loop approximately 24 inches wide and 36 inches long, comprised of ½ inch diameter anodized aluminum, and would be attached to the pipe at the top of the pole. The overall height of the antenna from the ground would be 50 feet (please refer to Sheet A-2).

The antenna is referred to as a “translator” because it receives a signal from another location and transmits it locally. The antenna has an input power rating of 100 watts or less, which will allow the proposed 50-foot antenna height to reach the desired coverage for the Santa Barbara area. The proposed use does not involve any other equipment or personnel. The radio station will be ancillary to the use of the property as a church and used to broadcast services, etc.

The site is of adequate size to accommodate the proposed new radio antenna on the roof. At approximately 11 feet above the roof clerestory height, set back approximately 200 feet from the centerline of E. Yanonali Street, 600 feet from Calle Cesar Chavez, and about 800 feet from U.S. Highway 101, the proposed radio antenna will be of sufficient distance from these streets/highway to where the antenna will be indistinguishable from these roadways. In addition, the location of the proposed antenna and adjacent uses, such as the City’s El Estero Wastewater Plant and All-American Storage, and numerous existing large trees, the antenna would not affect existing public views from the waterfront area.

The applicant evaluated alternatives in utilizing existing antenna towers in the area, but no such structures exist or would be able to accommodate the proposed antenna.

IV. **Discretionary Action Requested**

The discretionary action requested is a Conditional Use Permit for the proposed radio antenna.

The proposed project is not requesting any modifications from any City zoning standards or policies.

V. **General Plan and Zoning Consistency**

The proposed radio antenna has been designed in a manner to be consistent with the allowable uses in this area as outlined in the City’s General Plan Land Use Element and consistent with the
City's Zoning Ordinance. The project also conforms to all applicable General Plan policies, and the Zoning designation and regulations, and does not include any requests for modifications.

VI. **Environmental Issues**

**Visual Analysis**

The proposed radio antenna to be located on top of the Vercal building will reach a maximum height of 50-feet above ground. The Vercal building is a large industrial warehouse building with a variable roof height of approximately 30-33 feet, with a clerestory roof height of approximately 39 feet. The proposed antenna will extend approximately 11-feet above the clerestory roof height of the Vercal building. The proposed antenna has been sited on the building roof top to make it inconspicuous as possible from adjacent streets and properties. The platform which the antenna will be mounted to is approximately 146 feet from the west edge of the building and 112 feet from the north edge of the building. The antenna pole will be painted to blend with surrounding topography/vegetation to a non-glare finish. The pole is not required by the Federal Aviation Administration and Federal Communication Commission to be lit for air navigation safety.

Attached to this letter as Appendix A, are five (5) visual simulations of the proposed radio antenna from five vantage points around the property to assess the potential visual impacts from the approval and construction of the antenna. As demonstrated by the visual simulations that overlaid the proposed antenna on photographs taken from adjacent roadways of E. Yanonali Street, N. Calle Cesar Chavez, and from the north bound lanes of U.S. Highway 101, the proposed radio antenna is barely visible and difficult to find from adjacent roadways and U.S. Highway 101. From the waterfront area to the south, the antenna is indistinguishable.

The proposed location of the antenna on the roof, its small size, and the color of the antenna to be selected, minimize any adverse visual impacts. The antenna and its supporting structure will be designed and placed so as to ensure it will be visually unobtrusive as feasible.

**EMF**

The proposed antenna has a frequency of 99.5 and a power density of 100, similar to the previously approved antenna, of which both are below current applicable Institute of Electrical and Electronics Engineers and American National Standards Institute (IEEE-ANSI) standard for human exposure. Attached to this letter is a Radio Frequency Compliance Study prepared by Preiser Consulting confirming that the proposed antenna complies with the FCC guidelines pertaining to radio frequency emission exposure to the general public, etc. Furthermore, the
surrounding land uses are mostly non-residential, with exception of the church, which is mostly utilized by members on the weekends.

The new antenna, when combined with existing sources of a Non-ionizing Electromagnetic Radiation (NIER) emissions on or adjacent to the site would not expose the general public to ambient radiation emissions which exceed American National Standards Institute (ANSI) C95.1-1992 standard, as there are no other antennas on the subject site.

VII. Design Review

The proposed project was presented to the Architectural Board of Review (ABR) for conceptual review on December 7, 2015. The ABR found the proposed radio antenna acceptable as submitted and complies with the compatibility criteria in SBMC Section 22.68.045.B.

VIII. Project Justification

The proposed radio antenna will provide an important and warranted service to members of the community along the South Coast of Santa Barbara as it will allow for the transmitting of programs related to the existing church use. Design review from the Architectural Board of Review (ABR) has been supportable. The proposed project is appropriate in its location, size, and scale to existing development in the vicinity. The proposed structure and use is compatible with adjacent development surrounding the site.

On behalf of the project team, we would like to thank the Commission for its time and consideration, and respectfully request the Commission’s support of the proposed project. Should you have any questions or concerns regarding our application prior to the hearing date, please do not hesitate to contact me at (805) 308-8533 or e-mail me at jcuykendall@dudek.com.

Sincerely,

DUDEK

John T. Cuykendall
Project Manager/ Environmental Planner
Appendix A:  Visual Simulations

Attachments

1-copy: Assessor Parcel Map
1-copy: FCC Construction Permit
1-copy: FCC Construction Permit Extension
1-copy: 8 ½” x 11” Roof/Site Plan, Partial Elevations, and Arch./Eng. Details
7-copies: 15”x22” Sheet A-1:  Roof / Site Plan
7-copies: 15”x22” Sheet A-2:  Partial Elevations
7-copies: 15”x22” Sheet A-3:  Architectural and Engineering Details
APPENDIX A
VISUAL SIMULATIONS
**VISUAL SIMULATIONS**

*Visual Simulation No.1:* Looking SW at proposed radio antenna from E. Yanonali Street.
Visual Simulation No.2: Looking SW at proposed radio antenna from E. Yanonali Street/Calle Cesar Chavez intersection.
Visual Simulation No.4: Looking north at proposed radio antenna from Cabrillo Blvd.