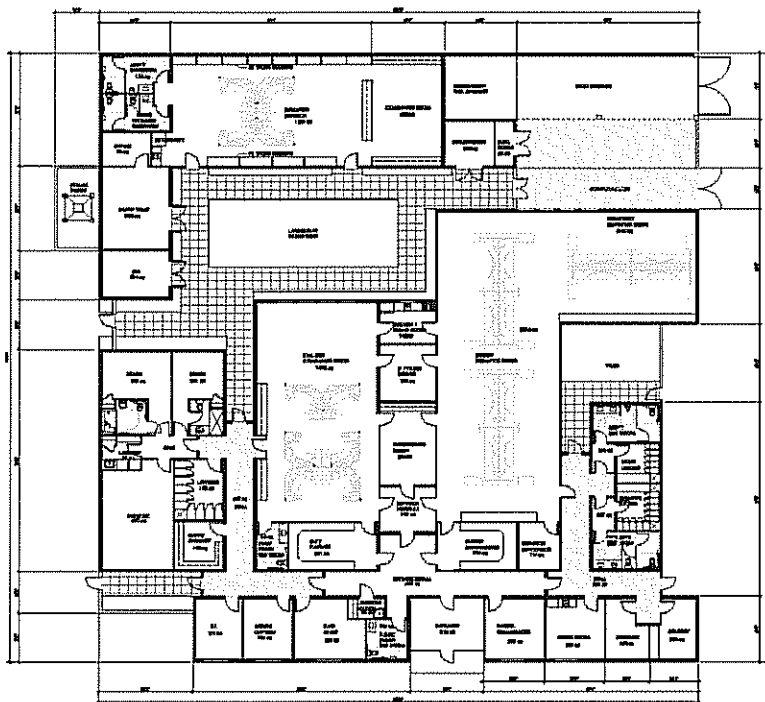


# CAL FIRE Analysis



## County of San Luis Obispo Co-Located Dispatch Center



PROPOSED SCHEMATIC FLOOR PLAN

**PROJECT DESCRIPTION**  
 THE PROJECT CONSISTS OF THE CONSTRUCTION OF A CO-LOCATED DISPATCH CENTER FOR THE COUNTY OF SAN LUIS OBISPO SHERIFF'S OFFICE AND CAL FIRE. THE CENTER WILL BE LOCATED AT THE COUNTY OF SAN LUIS OBISPO SHERIFF'S OFFICE FACILITY, 1000 WEST MAIN STREET, SAN LUIS OBISPO, CALIFORNIA 93426. THE CENTER WILL BE USED TO PROVIDE DISPATCH SERVICES FOR THE COUNTY OF SAN LUIS OBISPO SHERIFF'S OFFICE AND CAL FIRE. THE CENTER WILL BE USED TO PROVIDE DISPATCH SERVICES FOR THE COUNTY OF SAN LUIS OBISPO SHERIFF'S OFFICE AND CAL FIRE. THE CENTER WILL BE USED TO PROVIDE DISPATCH SERVICES FOR THE COUNTY OF SAN LUIS OBISPO SHERIFF'S OFFICE AND CAL FIRE.

**SCHEMATIC DESIGN DESCRIPTION**  
 THE SCHEMATIC DESIGN DESCRIPTION IS A PRELIMINARY DESIGN OF THE CO-LOCATED DISPATCH CENTER. THE DESIGN IS BASED ON THE PROJECT DESCRIPTION AND THE ARCHITECT'S UNDERSTANDING OF THE PROJECT. THE DESIGN IS SUBJECT TO CHANGE WITHOUT NOTICE. THE DESIGN IS NOT A CONTRACT DOCUMENT. THE DESIGN IS NOT TO BE USED FOR CONSTRUCTION. THE DESIGN IS NOT TO BE USED FOR ANY OTHER PURPOSE. THE DESIGN IS NOT TO BE USED FOR ANY OTHER PURPOSE. THE DESIGN IS NOT TO BE USED FOR ANY OTHER PURPOSE.

**BUILDING AREAS**  
 • DISPATCH CENTER 1284 SQUARE FEET  
 • SHERIFF/CAL FIRE 3183 SQUARE FEET

**COUNTY OF SAN LUIS OBISPO**  
 SHERIFF'S OFFICE

**PROJECT INFORMATION**

PROJECT NO. \_\_\_\_\_

DATE \_\_\_\_\_

PROJECT NAME: SHERIFF / CAL FIRE CO-LOCATED DISPATCH CENTER

PROJECT NUMBER: 1

PROJECT TYPE: PROPOSED SCHEMATIC FLOOR PLAN

Prepared by:  
 Robert Lewin, SLU Unit Chief  
 Steve Reeder, SLU Deputy Chief  
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October 23, 2013

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## **INTRODUCTION**

This is an analysis of the proposed Co-Located Dispatch Center for the CAL FIRE ECC, County Sheriff Law Enforcement and Ambulance Emergency Dispatching. The purpose of this document is to provide the State of California the information necessary to determine the feasibility both operationally and fiscally, of participating in a Co-Located Dispatch Center with the County of San Luis Obispo. This would be in lieu of building a stand-alone facility as part of the proposed CAL FIRE San Luis Obispo Unit Headquarters project.

### **Description**

A Co-Located Dispatch Center is being proposed by the County of San Luis Obispo at the County government owned land near the Sheriff's Kansas Avenue facilities, with the site located off Oklahoma Ave (see Addendum A). The County anticipates fully funding the project with the exception of the State required telecommunication and information technology equipment. The building, the infrastructure and the furnishings will all be purchased, constructed and owned by the County. While the center is co-located, the Sheriff and CAL FIRE will be operationally separate in adjoining rooms. The center will house the Sheriff's Office Dispatch Center (SODC) which provides both dispatching for Law Enforcement and Ambulance Dispatching (MEDCOM). It will also house the CAL FIRE/San Luis Obispo County Fire Emergency Command Center (ECC) which dispatches for the State and County fire mission as well as five agencies that contract for dispatch services. (see Addendum B)

### **Background**

Currently the Sheriff's Office Dispatch Center (SODC) and the CAL FIRE/San Luis Obispo County Fire Emergency Command Center (ECC) are housed in separate geographical locations and facilities. The SODC is located on Kansas Avenue in the Emergency Operations Center (EOC) building. The ECC is located at the CAL FIRE headquarters facility on Hwy 1 near Highland Drive. Both the SODC and the ECC have communications equipment which is technologically adequate and meets state and federal standards.

MEDCOM is currently dispatched at the SODC by Sheriff's Emergency Medical Dispatchers (EMDs). Calls are then transferred via CAD to CAD interface to CAL FIRE, and/or to other local departments' dispatch centers for response.

In fiscal years 2009-10 and 2010-11, following a review of Emergency Medical Services (EMS) dispatching procedures, the San Luis Obispo County Grand Jury recommended that the two dispatch centers combine. The County Sheriff and the CAL FIRE/County Fire Chief both support creation of this co-located facility, which will improve emergency services dispatching for residents and visitors.

### **Sheriff's Office Dispatch Center**

The SODC was first occupied in the early 1980's and currently dispatches numerous agencies, including law enforcement, local ground ambulances, and County support services. The specific breakdown of these entities is as follows:

- County Sheriff's deputies
- Ground ambulances (through its function as MEDCOM)
- EMS helicopters
- State parole officers
- Port San Luis Harbor Patrol resources
- State Fish and Game officers
- U.S. Coast Guard resources
- CAL FIRE Arson Investigators
- County departments including:
  - Roads
  - Grounds maintenance
  - Water
  - Planning
  - Animal control
  - Probation
  - Parole
  - Parks
  - Sexual Assault Response Team
  - Office of Emergency Services (OES)
  - Environmental Health
  - San Luis Obispo County Operational Area (Cal OES) Law Enforcement Mutual Aid coordination



**SODC Dispatch Floor**

Annual SODC call volume consists of the following:

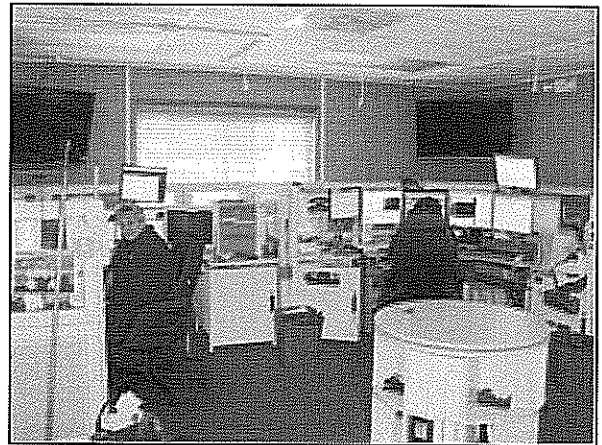
- o Business/Emergency calls: 300,000
- o Medical calls for service: 32,000
- o Law enforcement calls for service: 78,000
- o 911 calls: 40,000

The SODC is responsible for over 100 law enforcement units, 13 local ground ambulances and two ambulance supervisors, along with numerous support service entities. Technologically, the Computer Aided Dispatch (CAD) software is a state-of-the-art system that is supported by Tri-Tech Software Systems. The 911 system is approximately two years old and is ready to handle the next generation 911 phone calls. The system is redundant in order to prevent catastrophic failures.

### **CAL FIRE/County Fire Emergency Command Center**

The ECC provides consolidated fire/rescue dispatch and other important command and control functions, with performance measures that exceed national standards. Activities include:

- o Consolidated 24/7 fire/rescue dispatch for nine agencies in the County.
- o Expanded dispatch operations for major incidents including logistical support and large resource ordering.
- o Management of countywide fire resource deployment.
- o San Luis Obispo County Operational Area (CaLOES) Fire and Rescue Mutual Aid dispatch center, including fire personnel, Incident Command System qualifications, inter-agency coordination and management of mutual aid radio system.
- o Department Operations Center (DOC) during disaster and large-scale emergencies.
- o Coordination of collection of weather and other situation status intelligence.
- o Initial CAL FIRE/County Fire point of contact for news media.
- o Inventory and distribution of department telecommunications equipment.



**CAL FIRE/County Fire ECC**

- On a daily basis the ECC tracks over 600 fire/rescue personnel operating out of 30 fire facilities in San Luis Obispo County. Dispatch services are provided for the following agencies:
  - CAL FIRE San Luis Obispo Unit
  - San Luis Obispo County Fire Department
  - City of Pismo Beach Fire Department
  - Los Osos/South Bay Fire Department
  - Cambria Fire Department
  - Cayucos Fire Department
  - San Miguel Fire Department
  - Templeton Fire Department
  - Santa Margarita Fire Department

Annual ECC call volume consists of the following:

- Business/Emergency calls: 55,068
- Medical incidents dispatched: 7,520
- Fire incidents dispatched: 1629
- 911 calls: 13,995

Technologically, the Computer Aided Dispatch (CAD) software is a state of the art system that is supported by CAL FIRE Information Technology (IT) and Northrop Grumman Systems Corp. The 911 system was upgraded to the latest technology in 2012.

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## **DISCUSSION**

### **General**

Both the County Sheriff and CAL FIRE/County Fire Chief support the concept of co-location at a new facility. The conceptual design, that has been completed, meets current and future operational needs compliant with the FCC, OSHA, NFPA, Fire Code, and Penal Code requirements. The departments share a strong and positive working relationship, and the co-location of facilities will enhance the opportunity for continued positive cooperation between agencies. During these difficult fiscal times, sharing facilities is a good government practice,

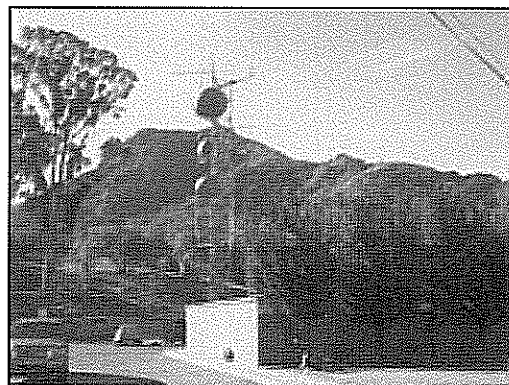
while still preparing for the future. Co-location will reduce redundancy and improve efficiency. Based on the experiences of other successful multi-agency dispatch centers, operations should be co-located, but not co-operational. The physical proximity of the co-located operations will share costs in infrastructure, maintenance, and encourage interagency cooperation and communication. Separation of operations allows each department to continue its specialized dispatch programs.

Separation of some spaces, such as dispatch areas and sleeping quarters, will need to be maintained. Sharing spaces such as a conference room, computer room, workout room, break room, kitchen, lobby and other areas will reduce redundancy and costs.

Infrastructure integration will breed cooperation between agencies. Co-location can enhance operations, improve inter-operational cooperative agreements and build mutually supportive systems.

Important infrastructure that both agencies need will not have to be replicated, including:

- o Radio tower
- o Uninterruptible power supply (UPS)
- o Back-up generator
- o Security system
- o Fire protection system
- o Secured parking areas



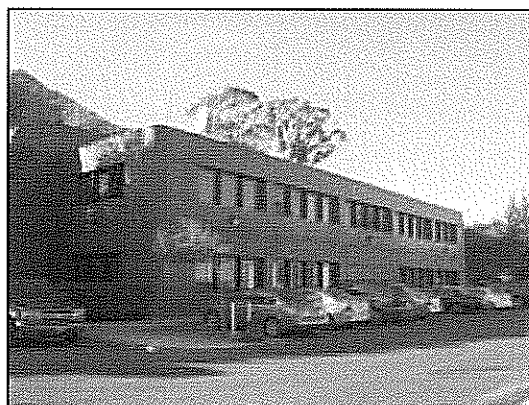
Sheriff's Communications Center

#### **Sheriff Office Dispatch Center Concerns**

The SODC is currently located on the ground floor of the County Emergency Operations Center (EOC). This building was built by PG&E, which operates its own EOC (EOF) and maintains offices on the top floor. Most of the ground floor is occupied by the County EOC itself, which is activated during major emergencies.

The SODC was occupied in the early 1980s and is no longer adequate for the current emergency operational workload. Emergency communication operations are at times adversely impacted due to space constraints and infrastructure shortcomings.

Normal staffing includes a Watch Commander and a minimum of three civilian dispatchers, although normally four are on duty to meet operational need. Acoustics are not isolated from room to room. During EOC operations and training, the noise level is disruptive to dispatchers.



The current facility does not meet basic standards to house 10-hour duty shifts and there are no facilities to support 24-hour employees. OSHA-



required break rooms, food preparation areas, restrooms and showers are not present. There is no space to add these required facilities within the footprint of the existing structure unless other essential functions are removed. The parking is limited and building security is minimal and has no hardening.

The existing SODC has one expanded dispatch area and can expand to absorb two additional dispatch positions within the current infrastructure. Beyond that, additional floor space and more employees to manage the workload will be required.

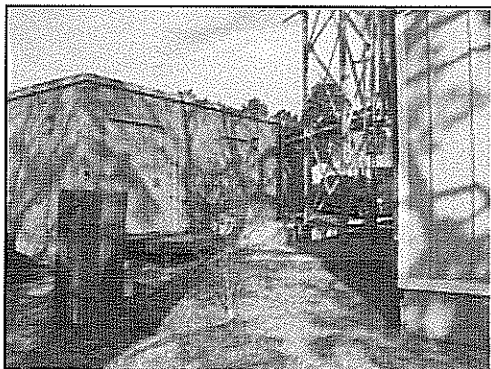
With the expansion of cell phone technology, additional calls are being transferred to Primary PSAPs, including the SODC. As a result, call volume has increased significantly. If the need arises to increase beyond six dispatch positions, new equipment will be required.

The Watch Commander's office is removed from the dispatch floor, although it is directly adjacent. The Watch Commander has authority over call priority and response, and is required to be in close proximity. The Watch Commander's responsibilities are to oversee the dispatch center and supervise patrol deputies in the field. The Watch Commander also handles all notifications during law enforcement critical incidents and natural disasters, including but not limited to the County Bomb Task Force, SED (SWAT team), Search and Rescue, Dive Team, Aero Squadron, and the Detective Division.

The Watch Commander is the Diablo Canyon Nuclear Power Plant's primary law enforcement point of contact during any unusual events or critical incidents occurring at the plant. The watch commander, following procedure, is authorized to activate the County Emergency Alert System (EAS) including Reverse 911, area sirens and EAS messages on commercial radio and television. Administrative offices for the Sheriff's Department are in a separate facility.

### **CAL FIRE/County Fire Emergency Command Center Concerns**

The ECC is located in a building that was built as a mess hall in the 1950s. Some essential operations have been moved off the dispatch floor, including moving "expanded dispatch" to Los Osos at the department's County funded Training Center.



CAL FIRE/County Fire Communications Vault

The ECC dispatch floor area occupies approximately 1,200 square feet and includes a kitchenette, three bathrooms, bedroom, and server room for computer network and communications equipment. Additional communications equipment is located in an adjacent radio vault in the parking lot. An uninterruptible power supply (UPS) and an automatic auxiliary generator supports the facility and dispatch equipment.

Maintenance issues, including termites, plague the existing building.

An area for initial expanded dispatch operations is also housed in this building next to the dispatching area, and is used to begin controlling larger incidents until the expanded dispatch center in Los Osos can be staffed and activated. While the space is cramped, there is adequate

interior workspace for normal day-to-day operations. It quickly becomes inadequate when additional employees are called in for emergencies.

Although current space is inadequate, the ECC can accommodate an additional 5,000 incidents per year. Beyond that, additional floor space, radio consoles, 911 answering positions and employees will be needed to manage the workload.

The CAL FIRE/San Luis Obispo County ECC is currently considering requests for dispatch services from additional agencies, which have the potential to increase the ECC's workload.

### **Mutual Concerns for Both Agencies**

Both centers can maintain current operations, but have little or no room to expand. Both have antiquated infrastructure and systems approaching maximum capacities which may fail when needed most.

Dispatch centers are classified as Essential Services Facilities and must meet fortified construction standards to withstand earthquakes and other hazards. However, existing buildings pre-date Essential Service standards and thus do not meet them. Neither facility is protected adequately from hostile actions. Both lack space needed to house all essential operations. Additionally, both facilities fall short of OSHA and ADA requirements for employees.

Dispatching of emergency responders faces additional challenges due to the presence of the Diablo Canyon Nuclear Power Plant, and the specialized dispatch protocols this requires.

Working conditions have been unsatisfactory for years due to the lack of adequate work and rest space for daily operations; this problem is exacerbated during extended emergency incidents. Additional workloads without infrastructure improvements will likely further degrade working conditions.

As other agencies struggle in difficult financial times; it is likely that they will request dispatch services from CAL FIRE/County Fire and or the County Sheriff's Office. The County is required to protect the citizens and may be forced to absorb these responsibilities with no additional funding.

### **In Lieu Agreement/Lease**

The State and County both understand and accept their obligation to provide facilities for the operations of CAL FIRE/San Luis Obispo County Fire, including the ECC and Headquarters. A letter and a MOU will be signed by the State and the County showing commitment to the project (see Addendum C, D and E) so that each may move forward on their projects. When required by each agency, an agreement or lease will be negotiated.

Currently, CAL FIRE's San Luis Obispo Unit Headquarters house both State and County funded CAL FIRE employees, and has an informal agreement with the County for providing office space for those employees. CAL FIRE is in the process of building a new CAL FIRE San Luis Obispo Unit Headquarters, with the expectation that the County will contribute to that project. The County has made it clear that they are not interested in contributing to a State project, and

instead would like to build a co-located ECC as its equivalent contribution, along with the contribution it is already making for the large training facility and drill grounds it fully funds.

When required, an agreement / long term lease will be negotiated between the State and the County whereby the County will contribute the construction of the Dispatch Center and the State will contribute the construction of a new headquarters facility. It is estimated that each agency's costs under such an agreement would be equitable. Each agency would pay its "fair share." Therefore, no other monetary exchange will be necessary.

One of the County funding options could be use of the Public Facilities Fund. At the end of FY 2012-13, the PFF shows approximately \$2.4 million for County Fire, and approximately \$600,000 for Sheriff. The cost of a new co-located facility is roughly estimated to be approximately six to eight million dollars. Current and expected earnings over a six-year time frame would fund the proposed construction of this new Dispatch Center.

The State funding for the new Headquarters project is from lease revenue bonds. However the funding for the telecommunication and information technology hardware must come from the general fund through either existing budgeting or through a Budget Change Proposal process. The estimated cost for this is 2 million dollars.

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## **ANALYSIS**

### **Construction of a new Co-Located Regional Emergency Dispatch Center**

Constructing a new dispatch center designed with regional dispatch capabilities will allow the County and State to meet dispatch needs for 50+ years. Notable cost savings to taxpayers over the long term will be achieved through shared infrastructure and maintenance costs.

New construction with a well-designed footprint will minimize environmental and fiscal impact. A single new facility will reduce the duplication of radio towers, phone lines, internet access, janitorial services, and technical support. The new building will provide security protection to a level necessary for a command and control center and essential services facility. (See Addendum B)

### **Telecommunication and Information Technology**

All telecommunication for the CAL FIRE ECC will be designed by the County to meet the State specifications. All engineering and design will be approved by CAL FIRE telecommunication, information technology, and Public Safety Communications Office (PSCO). This includes; design of radio console systems, electrical needs with back-up generator, generator fuel quantity and UPS, electrical and telecom chases, under floor and ceiling access, data / telephone infrastructure and radio tower.

An analysis to determine whether the new site for the Co-Located Dispatch Center will meet or exceed the current level of radio communication compared to the current ECC was completed by the Public Safety Communications Office. The analysis conclusively stated it will. (See Addendum F)

## **Life Span of the Facility**

The new co-located facility will have a life span of 50 or more years. The project is designed to handle future growth within the Unit, with space for four additional console pods. IT and telecommunication space is oversized to handle future needs. The radio tower will be designed for expanded additions. The facility is being designed with security as a priority to ensure employee safety and facility protection in case of terrorism or war. The entire facility is designed to essential services to protect it from a natural disaster. The property is not in a 100 year flood zone nor is it on an earthquake fault.

## **Cost**

Construction of a new co-located facility is estimated to cost approximately six to eight million dollars. The County has funded \$200,000 for the project this fiscal year. The County hired a consultant who has developed a conceptual design and cost estimate of the project (See Addendum G). The entire project will be fully funded through County Public Facility Fees. It is anticipated the project can be completed in four years, prior to the time the State wants to raze the old ECC to make way for the Headquarters project.

By having the State fully fund the Headquarters project and the County fully fund the co-located dispatch project the State and County will both have their needed facilities while maintaining financial independence and separate ownership. A long term lease will ensure that both levels of government are protected.

All costs for the co-located dispatch center are being borne by the County, except for the costs for State owned telecommunication and information technology which are estimated at 2 million dollars. All County telecommunication and information technology, including infrastructure for all cabling, backup power supplies, radio tower, electrical chases and furniture, will be paid by the County. The land, the design and the construction will be paid by the County including: CEQA, permits, plan check, ADA compliance, testing and final building permit.

The County has existing land available at the County Kansas Avenue campus off Oklahoma Avenue. It is estimated the value of the land at 1.5 million dollars for the 3.5 acres. All site preparation costs will be paid by the County. (See Addendum A).

## **Equity for the State and the County**

Comparing State construction costs to County construction costs does not provide a realistic comparison as the overhead costs of the State exceeds that of the County. The County is able to build a more cost effective building. It is however, possible to compare square footage and construction type. The majority of the overall headquarters project will be built using standard commercial building construction, with the exception of the fire station apparatus bays which will be built to essential services construction standards. The co-located dispatch center and the expanded dispatch area will all be built to essential service construction standards. The cost of an essential service building generally costs 1.5 to 2.0 times as much as a standard constructed building. Site work for both projects is comparable. They both require underground utilities, parking areas, landscaping and infrastructure.

Below is the summary of square footage for the Co-Location Dispatch Center by participant (See Addendum H):

Total Sq. Ft	State	County	Sheriff
14520	6018	2582	5923

Below is the summary of square footage for the SLU HQ project, with ECC included and without ECC:

San Luis Unit Headquarters Project <b>with</b> ECC on Site			
	Total	State	County Fire
Building:	SF	SF	SF
Administration	9980	7643	2337
Fire Station	6063	6063	0
Physical Training	1917	1917	0
Auto Shop	562	562	0
Service Center	2449	1825	624
Storage	1000	1000	0
Generator	707	707	0
ECC	6537	4664	2330
MCC	1100	1100	0
<b>Total</b>	<b>30315</b>	<b>25482</b>	<b>5290</b>
State/County Square Footage Percentages		84%	17%
San Luis Unit Headquarters Project <b>without</b> ECC on Site			
	Total	State	County Fire
Building:	SF	SF	SF
Administration	9980	7643	2337
Fire Station	6063	6063	0
Physical Training	1917	1917	0
Auto Shop	562	562	0
Service Center	2449	1825	624
Storage	1000	1000	0

Generator	500	500	0
ECC	0	0	0
MCC	0	0	0
<b>Total</b>	<b>22471</b>	<b>19510</b>	<b>2961</b>
Space reduction without ECC component	7844	5971	2330

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## **SUMMARY**

This analysis demonstrates that the County constructed Co-Located Dispatch Center project is both operationally and fiscally beneficial to the State. The Sheriff and CAL FIRE share a strong and positive working relationship, and the co-location of the facility will enhance the opportunity for continued positive cooperation between agencies. During these difficult fiscal times, sharing facilities is good government practice, while still preparing for the future. Co-location will reduce redundancy and improve efficiency.

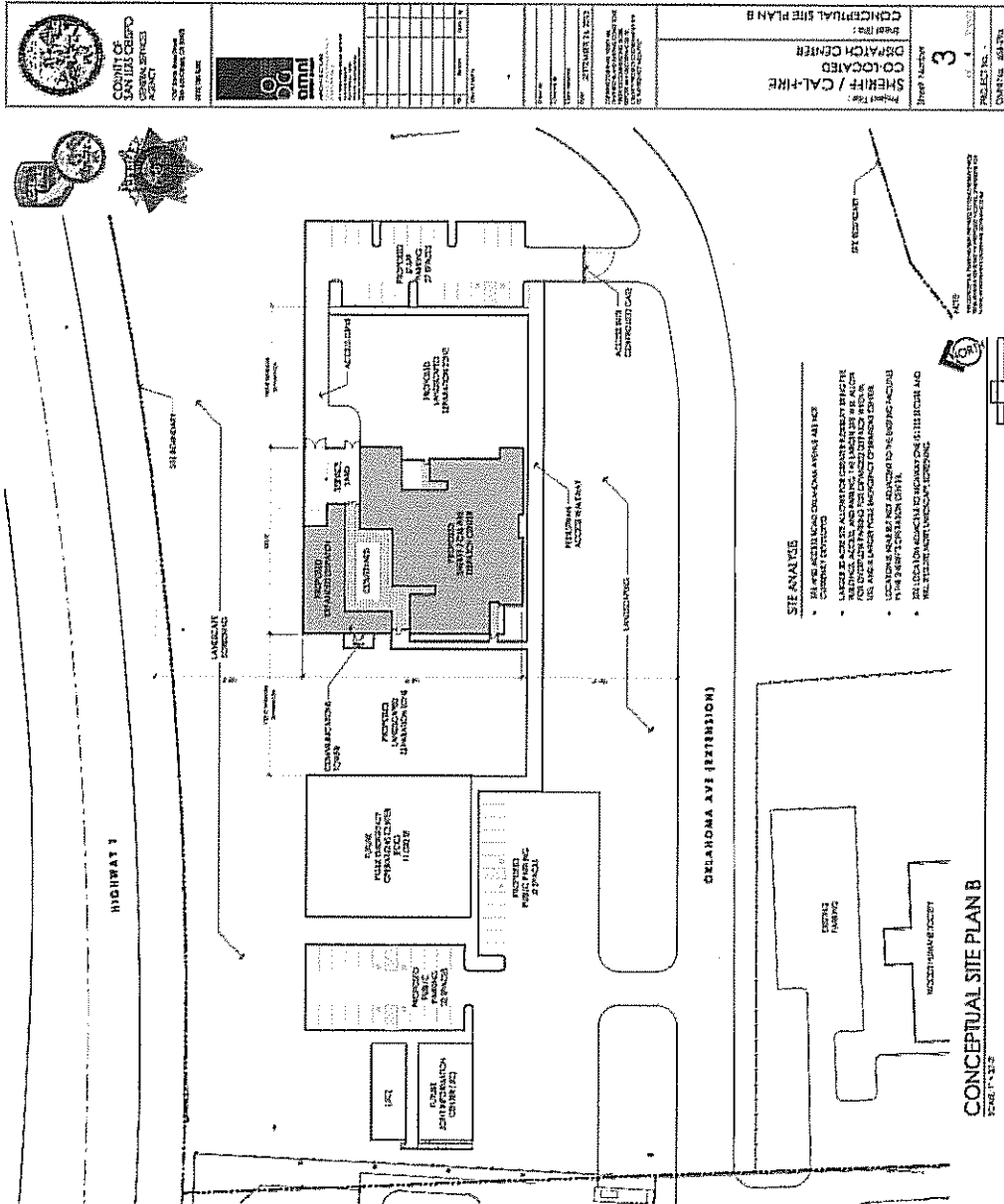
Comparing square footage for each project, this analysis demonstrates that the State funded Headquarters Project will provide 2961 sq. ft. for County use. Further, the analysis shows that the County funded Co-Located Dispatch Center will provide 6018 sq. ft. for State use. Thus, the square footage comparison demonstrates that the County's contribution is greater than the State's contribution. In addition, the Co-Located Dispatch will be built to Essential Services standards while the Administration building of the Headquarters Project will not.

While the County is building a greater amount of square footage on behalf of the State than the State is building on behalf of the County, both agencies will benefit from constructing the separate facilities. The County will benefit by having the ability to consolidate the Sheriff and the County Fire dispatch center into one facility and have total ownership. Both the County Sheriff and CAL FIRE/County Fire Chief support the concept of co-location at a new facility.

In addition, the County currently fully funds two facilities in the County which provides support to both the County and the State mission; the South Bay Training Center and a separate drill grounds. These two facilities combined have an annual cost to the County of \$128,105.

In order to proceed with both projects, the State will need to send a signed letter to the County committing to collaborate on the construction of the Co-Located Dispatch Center.(see Addendum I) Further, the State will need to review and sign the MOU that was prepared by the County. (see Addendum E). The County, upon receipt of the letter and a signed MOU, will prepare a staff report for approval by the County Board of Supervisors committing to the funding, design and construction of the Co-Located Dispatch Center

# ADDENDUM A - Aerial Map of Proposed Site Location









## ADDENDUM C - Letter from SLO County to CAL FIRE

### County of San Luis Obispo

COUNTY GOVERNMENT CENTER, RM. D-430 • SAN LUIS OBISPO, CALIFORNIA 93408 • (805) 781-5011



JIM GRANT  
COUNTY ADMINISTRATOR

March 12, 2012

Curt Karlin, Chief Technical Services  
CAL FIRE  
PO Box 944246  
1300 U Street  
Sacramento, CA 94244-2460

Subject: San Luis Obispo Headquarters Project

Dear Mr. Karlin,

This letter is to inform you of San Luis Obispo County's intent to consider the feasibility of constructing a separate co-located Sheriff dispatch center/ECC. If we were to proceed with the construction of such a facility, the County would not participate with the State in the CAL FIRE San Luis Obispo Unit Headquarters project.

A decade ago the County was committed to participating with the State in the Headquarters project. This project included a combined office and emergency command center (ECC), a warehouse, a fire apparatus building, training offices and other auxiliary facilities. When the project stalled, the County removed the \$1.3 million that had been budgeted by the County for the project. It is our understanding the project is now moving forward but the cost to the County has been estimated to be three times what it was a decade ago.

Over the last few years the County has moved forward and secured leased facilities for a training center and for a large drill grounds. The County is also currently evaluating the potential to build a co-located dispatch/ECC for the CAL FIRE/San Luis Obispo County Fire and the Sheriff's Department. With these changes and with the changes which have been made to the headquarters project there is no longer a benefit to the County to directly participate in the headquarters project.

As longtime partners with over 80 years of cooperative fire protection in San Luis Obispo County, it is our hope that the State quickly proceeds on the much needed Headquarters project financed entirely by the State. The County intends to continue to contribute training facilities and will begin developing information necessary to determine the scope and feasibility of constructing a new co-located dispatch center/ Emergency Command Center (ECC). This will give the County an opportunity to co-locate law enforcement, emergency medical service and fire dispatching in one building. We realize the State will necessitate that the co-located dispatch center/ECC meet the requirements standard for any CAL FIRE

March 12, 2012  
San Luis Obispo Headquarters Project

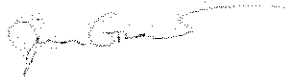
ECC in the State. We understand that all telecommunication and computer equipment and applications will have to be a shared responsibility to ensure standardization and proper installation, as it is now.

For us to move forward with the efforts to evaluate a co-located dispatch center/ECC and to opt out of participation with the State on a new headquarters, we ask that you respond by accepting the concept outlined in this letter.

We also ask that the State participate early in the evaluation of the co-located dispatch center/ECC. The intent is to assure that the evaluation identifies the needs and responsibilities for all of the parties involved. This information will be used to determine the feasibility of a co-located dispatch center/ECC and the scope of the project. It will also be used to identify the potential timing for the development of the facility as it relates to the new headquarters building.

The evaluation will identify the feasibility and conditions necessary to develop a co-located dispatch center/ECC. Once this information is developed, we can determine the appropriate means to formalize the agreements and understandings necessary to move forward with the co-located dispatch center /ECC.

Sincerely,



Jim Grant  
County Administrative Officer

Cc: Rob Lewin, Chief – Cal Fire/San Luis Obispo Unit  
Ian Parkinson, Sheriff

## ADDENDUM D - Correspondence between CAL FIRE and SLO County

STATE OF CALIFORNIA—NATURAL RESOURCES AGENCY

Edmund G. Brown Jr., Governor



### DEPARTMENT OF FORESTRY AND FIRE PROTECTION

2524 Mulberry Street  
RIVERSIDE, CA 92501  
(951) 782-4439  
Website: [www.fire.ca.gov](http://www.fire.ca.gov)



May 20, 2012

Jim Grant  
County Administrative Officer  
County of San Luis Obispo  
County Government Center RM. D430  
San Luis Obispo, CA 93408

Dear Mr. Grant,

We have received your letter to Mr. Karlin dated March 12, 2102 requesting the State's participation with the County in an evaluation of the headquarters and ECC construction projects. In the letter you have requested an evaluation of the County constructing a co-located dispatch center/ECC in lieu of participation with the State's effort on the new headquarters project. This letter confirms that CAL FIRE is interested and willing to participate with San Luis Obispo County in an evaluation with the overall intent to improve service and reduce total costs for both the State and the County. We agree that the concept has merit and will potentially show a good benefit to the citizens.

As part of the evaluation we anticipate there will be a need for a statement of intent agreed to by both entities to ensure the direction of the evaluation is clear. We are prepared to begin the effort with the County. We look forward to moving this process forward to mutually benefit getting these projects underway. Please contact Chief Robert Lewin to set up times to meet with our staff to begin the process.

Most Sincerely,

A handwritten signature in black ink, appearing to read "Dale Hutchinson".  
Dale Hutchinson  
Region Chief

Cc: Robert Lewin, SLU Unit Chief  
Curt Karlin, Chief Technical Services

CONSERVATION IS WISE-KEEP CALIFORNIA GREEN AND GOLDEN

PLEASE REMEMBER TO CONSERVE ENERGY. FOR TIPS AND INFORMATION, VISIT "FLEX YOUR POWER" AT [WWW.CA.GOV](http://WWW.CA.GOV).

## ADDENDUM E - Draft MOU between SLO County and CAL FIRE

### MEMORANDUM OF UNDERSTANDING BETWEEN THE COUNTY OF SAN LUIS OBISPO AND THE CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION CO-LOCATION OF DISPATCH AND EMERGENCY COMMAND CENTER

This Memorandum of Understanding ("MOU") is entered into by and between the County of San Luis Obispo (hereinafter, "County") and the California Department of Forestry and Fire Protection (hereinafter, "CAL FIRE") with reference to the following Recitals:

#### RECITALS

- A. The County Sheriff's Office Dispatch Center (hereinafter, "SODC") and the CAL FIRE/County Fire Emergency Command Center (hereinafter, "ECC") are located at separate facilities in San Luis Obispo. The SODC is located on Kansas Avenue in the Emergency Operation Center building (hereinafter, "EOC"). The ECC is located at the CAL FIRE unit headquarters on Highway 1 near Highland Drive (hereinafter, "CAL FIRE Headquarters"); and
- B. The SODC was first occupied in the early 1980's and currently dispatches law enforcement, local ground ambulances, and county support services departments; and
- C. The ECC is located in a building that was constructed as a mess hall in the 1950's. Essential operations have been moved off the dispatch floor due to space constraints, and expanded dispatch is located at CAL FIRE's South Bay Training Center in Los Osos; and
- D. Both the EOC and the CAL FIRE Headquarters require significant expansion and facilities upgrades to effectively serve, protect and safeguard the community, property, and resources of the County; and
- E. The CAL FIRE Headquarters has been identified for significant reconstruction to correct, modernize and expand the facility ("CAL FIRE Headquarters Project"); and
- F. The parties have established a relationship of over 80 years of cooperative fire protection in San Luis Obispo County; and
- G. The parties believe there is mutual benefit in co-locating law enforcement, emergency medical service and fire dispatch in one building in that a single facility will result in the most efficient use of personnel, facilities and equipment with an overall savings to the public; and
- H. The parties desire to coordinate their efforts for the construction and operation of a single facility for use as a co-located Dispatch Center which will house both the SODC and the ECC (hereinafter, "Co-located Dispatch Center"); and

- I. It is the purpose of this MOU to identify the responsibilities of the parties for the construction and operation of a Co-located Dispatch Center and to ensure a coordinated, efficient, integrated and interoperable Co-Located Dispatch Center that will be utilized by law enforcement, fire, emergency medical services, and support service dispatching.

NOW, THEREFORE, the parties agree as follows:

1. County shall construct, at its cost, a building ("Building") to be used as a Co-located Dispatch Center. During design and construction of the Building, County and CAL FIRE shall collaboratively participate in the scoping of the project to ensure the Building is sufficient for its intended use. County shall own the Building and shall be responsible for maintenance and utilities at the Building. County shall permit CAL FIRE to use and occupy a portion of the Building sufficient for the ECC at no charge.
2. In consideration for County's willingness to construct and maintain the Building, CAL FIRE shall be solely responsible for the CAL FIRE Headquarters Project. County shall not contribute to, nor participate with, the State in the CAL FIRE Headquarters Project. County's construction of the Building shall be in lieu of any contribution, monetary or otherwise, to the CAL FIRE Headquarters Project. CAL FIRE shall be responsible for maintenance and utilities at the CAL FIRE Headquarters. CAL FIRE shall provide sufficient space in the CAL FIRE Headquarters for County Fire Department operation as necessary, at no charge.
3. CALFIRE shall install in the Building, at its sole cost and expense, all radio, computer, electronics, hardware, software, and other devices necessary for CAL FIRE's operation of the ECC. County shall install in the Building, at its sole cost and expense, all radios, computers, electronics, hardware, software, and other devices necessary for County's operation of the SODC and any other related County operations. Ownership of all equipment installed in the Building shall remain with the party installing the equipment for its use.
4. County shall install in the CAL FIRE Headquarters, at its sole cost and expense, all hardware and software necessary for County's operations at the CAL FIRE Headquarters. Ownership of hardware and software installed by the County shall remain with the County.
5. County and CAL FIRE shall each act in good faith in performing their respective obligations as set forth in this Agreement and shall work diligently to maintain their longstanding cooperative relationship. In the event either party desires to cease operating as a Co-Located Dispatch Center, that party shall give the other party a minimum of twelve (12) months' written notice. Thereafter, CAL FIRE shall vacate the Building and remove all equipment and improvements installed

by it. Each party shall use its best efforts to effectuate a cooperative and mutually beneficial transition in such event.

**COUNTY OF SAN LUIS OBISPO:**

By: \_\_\_\_\_  
Chairperson of the Board of Supervisors

Approved by the Board of Supervisors this  
\_\_\_\_ day of \_\_\_\_\_, 2013.

ATTEST:

\_\_\_\_\_  
Clerk of the Board of Supervisors

**APPROVED AS TO FORM AND  
LEGAL EFFECT:**

RITA L. NEAL  
County Counsel

By: \_\_\_\_\_  
Chief Deputy County Counsel

Date: \_\_\_\_\_

**STATE OF CALIFORNIA  
DEPARTMENT OF FORESTRY  
AND FIRE PROTECTION:**

By: \_\_\_\_\_

Dated: \_\_\_\_\_

ATTEST:

\_\_\_\_\_  
Secretary

**APPROVED AS TO FORM AND  
LEGAL EFFECT:**

\_\_\_\_\_  
Legal Counsel

Dated: \_\_\_\_\_

**ADDENDUM F - Public Safety Communications Office Site Study**

**STUDY PREPARED FOR CAL FIRE**

**October 21, 2013**

**SLU PROPOSED AND EXISTING ECC LOCATIONS RADIO  
COVERAGE STUDY**

INCLUDES:

MAP SHOWING PROPOSED AND EXISTING LOCATIONS

FCC LICENSES FOR SITES INVOLVED

RF RADIO COVERAGE FOR ALL SITES

RF PATH PROFILES FROM PROPOSED SITE TO REPEATER SITES

RF PATH PROFILES FROM EXISTING ECC TO REPEATER SITES



**EXECUTIVE SUMMARY:**

Based on the attached path profile analysis and RF propagation models, the two sites have similar results. The existing SLU ECC site has been providing adequate radio communications to/from existing mountain top sites in the area. Similarly the new site, which is two miles north from the existing ECC, should do the same. The attached path profile analysis was based on a 60-foot tower height at the proposed facility. The microwave link shall work from the proposed SLU ECC site to Tassajera Peak as the path profile shows a clear radio link between the two sites.

Therefore, based on this study, the proposed SLU ECC site shall provide adequate radio communications similar to the existing SLU ECC site.



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**Federal Communications Commission  
Public Safety and Homeland Security Bureau**

**RADIO STATION AUTHORIZATION**

LICENSEE: CALIFORNIA, STATE OF

ATTN: RADIO LICENSING  
CALIFORNIA, STATE OF  
601 SEQUOIA PACIFIC BLVD  
SACRAMENTO, CA 95811-0231

Call Sign WNXC631	File Number 0005453788
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001724541

Grant Date 06-08-2011	Effective Date 10-19-2012	Expiration Date 08-20-2021	Print Date 10-19-2012
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**STATION TECHNICAL SPECIFICATIONS**

**Fixed Location Address or Mobile Area of Operation**

Loc. 1 Address: BLACK MOUNTAIN 10.5 MI NE  
City: SANTA MARGARITA County: SAN LUIS OBISPO State: CA  
Lat (NAD83): 35-23-32.9 N Long (NAD83): 120-21-07.6 W ASR No.: Ground Elev: 1097.0

**Antennas**

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000151.32500000	FB2	1		11K2F3E	50.000	135.000	9.0		
1	1	000151.32500000	FB	1		11K2F3E	50.000	135.000	9.0		

**Control Points**

Control Pt. No. 1  
Address: 635 N SANTA ROSA  
City: SAN LUIS OBISPO County: State: CA Telephone Number: (916)657-9999

**Associated Call Signs**

**Conditions:**  
Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: CALIFORNIA, STATE OF

Call Sign: WNXC631

File Number: 0005453788

Print Date: 10-19-2012

Waivers/Conditions:  
NONE

Reference Copy

REFERENCE COPY

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**Federal Communications Commission**  
Public Safety and Homeland Security Bureau

**RADIO STATION AUTHORIZATION**

LICENSEE: CALIFORNIA, STATE OF

ATTN: RADIO LICENSING  
CALIFORNIA, STATE OF  
601 SEQUOIA PACIFIC BLVD  
SACRAMENTO, CA 95811-0231

Call Sign KVN786	File Number 0005842828
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number FC20130401415	

FCC Registration Number (FRN): 0001724541

Grant Date 06-05-2013	Effective Date 08-01-2013	Expiration Date 08-09-2023	Print Date 08-02-2013
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**STATION TECHNICAL SPECIFICATIONS**

**Fixed Location Address or Mobile Area of Operation**

Loc. 1 Address: DAVIS PEAK 8 MI SW  
City: SAN LUIS OBISPO County: SAN LUIS OBISPO State: CA  
Lat (NAD83): 35-13-59.0 N Long (NAD83): 120-47-04.8 W ASR No.: Ground Elev: 546.0

**Antennas**

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp (meters)	Ant. AAT (meters)	Construct Deadline
1	1	000151.32500000	FB2	1		11K2F3E	100.000	170.000	18.0	459.3	

**Control Points**

Control Pt. No. 1  
Address: 635 N SANTA ROSA  
City: SAN LUIS OBISPO County: SAN LUIS OBISPO State: CA Telephone Number: (916)657-9999

**Conditions:**

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: CALIFORNIA, STATE OF

Call Sign: KVN786

File Number: 0005842828

Print Date: 08-02-2013

Associated Call Signs  
KMB213, KA3134

---

Waivers/Conditions:  
NONE

Reference Copy

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**Federal Communications Commission  
Public Safety and Homeland Security Bureau**

**RADIO STATION AUTHORIZATION**

LICENSEE: CALIFORNIA, STATE OF

ATTN: RADIO LICENSING  
CALIFORNIA, STATE OF  
601 SEQUOIA PACIFIC BLVD  
SACRAMENTO, CA 95811-0231

Call Sign KMB217	File Number
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001724541

Grant Date 02-05-2004	Effective Date 08-28-2012	Expiration Date 03-24-2014	Print Date
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**STATION TECHNICAL SPECIFICATIONS**

**Fixed Location Address or Mobile Area of Operation**

Loc. 1 Address: MOUNT LOWE 7KM NE  
City: SAN LUIS OBISPO County: SAN LUIS OBISPO State: CA  
Lat (NAD83): 35-19-10.9 N Long (NAD83): 120-36-03.6 W ASR No.: Ground Elev: 800.0

**Antennas**

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp (meters)	Ant. AAT (meters)	Construct Deadline Date
1	1	000151.35500000	FB2	1		11K2F3E	110.000	174.000	42.7	492.7	
1	1	000151.35500000	FB	1		11K2F3E	110.000	174.000	42.7	492.7	
1	1	000151.26500000	FB	1		11K2F3E	110.000	174.000	42.7	492.7	08-28-2013
1	1	000151.26500000	FB2	1		11K2F3E	110.000	174.000	42.7	492.7	08-28-2013

**Conditions:**

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: CALIFORNIA, STATE OF

Call Sign: KMB217

File Number:

Print Date:

**Control Points**

Control Pt. No. 1

Address: 635 N SANTA ROSA ST

City: SAN LUIS OBISPO County: State: CA Telephone Number: (916)657-9999

---

**Associated Call Signs**

KA3134, KMB213

---

**Waivers/Conditions:**

NONE



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**Federal Communications Commission  
Public Safety and Homeland Security Bureau**

**RADIO STATION AUTHORIZATION**

LICENSEE: CALIFORNIA, STATE OF

ATTN: RADIO LICENSING  
CALIFORNIA, STATE OF  
601 SEQUOIA PACIFIC BLVD  
SACRAMENTO, CA 95811-0231

Call Sign WPIS927	File Number 0005157849
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001724541

Grant Date 08-16-2005	Effective Date 04-11-2012	Expiration Date 10-24-2015	Print Date 04-11-2012
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**STATION TECHNICAL SPECIFICATIONS**

**Fixed Location Address or Mobile Area of Operation**

Loc. 1 Address: PLOWSHARE PEAK 31 KM S  
City: CALIFORNIA VALLEY County: SAN LUIS OBISPO State: CA  
Lat (NAD83): 35-03--0.1 N Long (NAD83): 120-02-26.5 W ASR No.: N/A Ground Elev: 1194.0

**Antennas**

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000151.32500000	FB	1		11K2F3E	60,000	190,000	26.0	516.0	
1	1	000151.32500000	FB2	1		11K2F3E	60,000	190,000	26.0	516.0	

**Control Points**

Control Pt. No. 1  
Address: 635 N SANTA ROSA ST  
City: SAN LUIS OBISPO County: State: CA Telephone Number: (916)657-9999

**Associated Call Signs**

**Conditions:**

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: CALIFORNIA, STATE OF

Call Sign: WPIS927

File Number: 0005157849

Print Date: 04-11-2012

Waivers/Conditions:

NONE

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**Federal Communications Commission  
Public Safety and Homeland Security Bureau**

**RADIO STATION AUTHORIZATION**

LICENSEE: CALIFORNIA, STATE OF

ATTN: RADIO LICENSING  
CALIFORNIA, STATE OF  
601 SEQUOIA PACIFIC BLVD  
SACRAMENTO, CA 95811-0231

Call Sign KCJ676	File Number 0005763371
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001724541

Grant Date 05-03-2013	Effective Date 05-03-2013	Expiration Date 07-28-2023	Print Date 05-03-2013
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**STATION TECHNICAL SPECIFICATIONS**

**Fixed Location Address or Mobile Area of Operation**

Loc. 1 Address: ROCKY BUTTE 14 KM NE  
City: CAMBRIA County: SAN LUIS OBISPO State: CA  
Lat (NAD83): 35-40-30.9 N Long (NAD83): 121-03-14.7 W ASR No.: Ground Elev: 984.2

**Antennas**

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Hl/Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000151.32500000	FB	1		11K2F3E	100.000	98.000	42.7	643.7	
1	1	000151.32500000	FB2	1		11K2F3E	100.000	98.000	42.7	643.7	

**Control Points**

Control Pt. No. 1  
Address: 635 N SANTA ROSA ST  
City: SAN LUIS OBISPO County: State: CA Telephone Number: (916)657-9999

**Conditions:**

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: CALIFORNIA, STATE OF

Call Sign: KCJ676

File Number: 0005763371

Print Date: 05-03-2013

Associated Call Signs  
KA3134

---

Waivers/Conditions:  
NONE

Reference Copy

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**Federal Communications Commission  
Public Safety and Homeland Security Bureau**

**RADIO STATION AUTHORIZATION**

LICENSEE: CALIFORNIA, STATE OF

ATTN: RADIO LICENSING  
CALIFORNIA, STATE OF  
601 SEQUOIA PACIFIC BLVD  
SACRAMENTO, CA 95811-0231

Call Sign KGP737	File Number 0004861408
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0001724541

Grant Date 06-17-2004	Effective Date 09-02-2011	Expiration Date 08-30-2014	Print Date 09-02-2011
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**STATION TECHNICAL SPECIFICATIONS**

**Fixed Location Address or Mobile Area of Operation**

Loc. 1 Address: SANTA YNEZ PEAK 6.5 MI SE  
City: SANTA YNEZ County: SANTA BARBARA State: CA  
Lat (NAD83): 34-31-37.0N Long (NAD83): 119-58-42.5W ASR No.: Ground Elev: 1310.0

**Antennas**

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. HL/Tp	Ant. AAT	Construct Deadline
1	1	000151.35500000	FB2	1		11K2F3E	72.000		24.0		

**Control Points**

Control Pt. No. 1  
Address: 635 N SANTA ROSA ST  
City: SAN LUIS OBISPO County: State: CA Telephone Number: (916)657-9999

**Associated Call Signs**

**Conditions:**

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: CALIFORNIA, STATE OF

Call Sign: KGP737

File Number: 0004861408

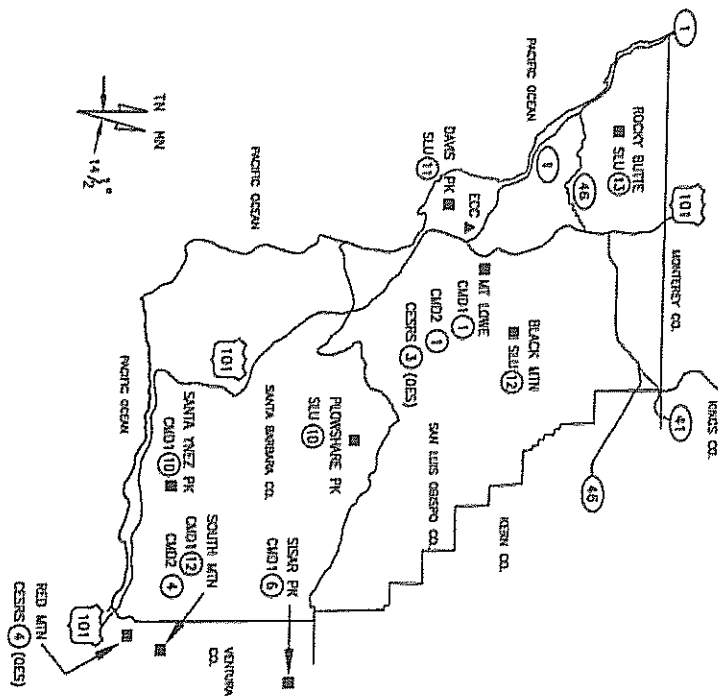
Print Date: 09-02-2011

Waivers/Conditions:

NONE

Reference Copy

**SAN LUIS OBISPO UNIT (SLLU)  
SOUTH REGION (CSR) UNIT: 3400**



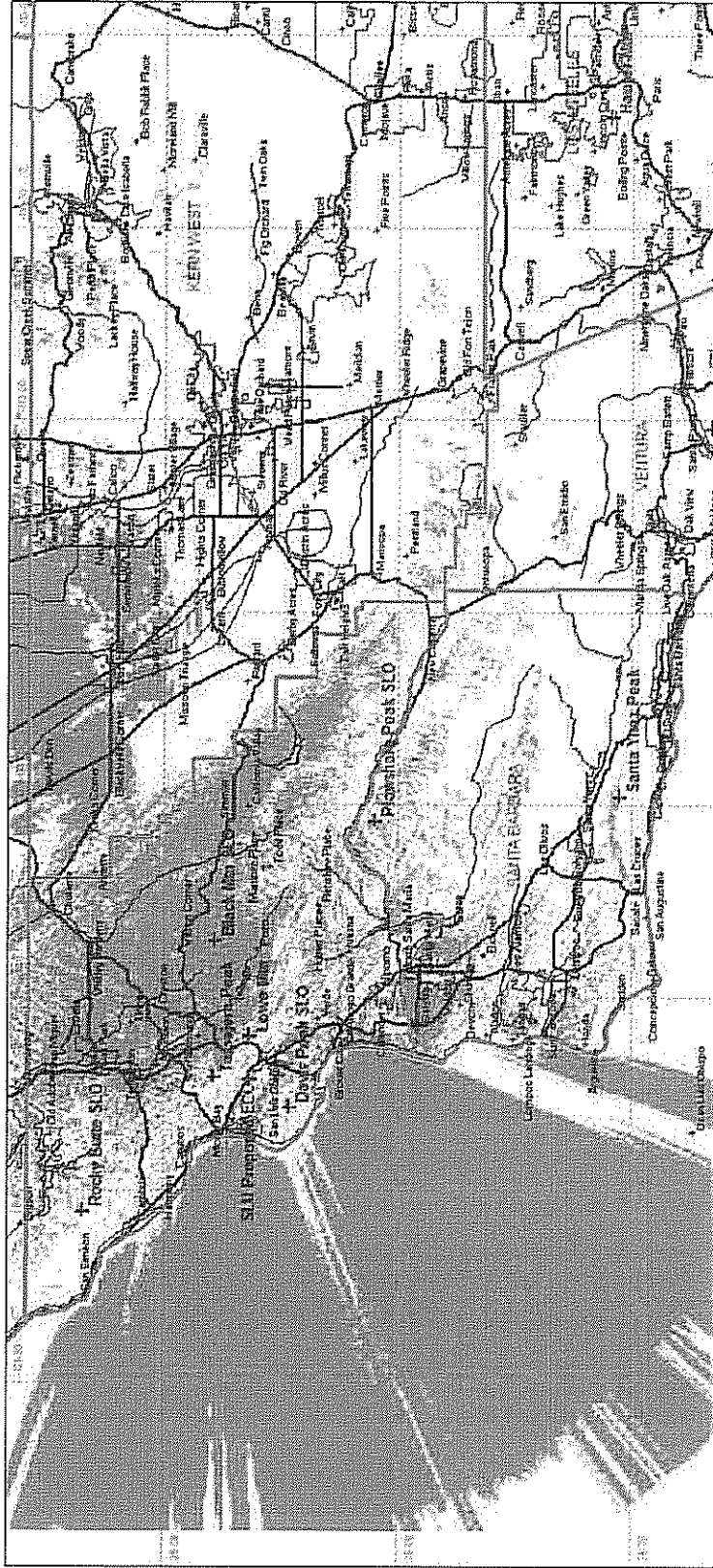
**LEGEND:**  
 ■ REPEATER (MOBILE RELAY)  
 □ SITE, NET, ① TONE

- SAN LUIS OBISPO LOCAL (SLLU)**  
 REPEATER INPUT: 159,315 MHz  
 REPEATER OUTPUT: 151,325 MHz  
 REPEATER OUTPUT CTCSS: 136.5 Hz
- COMMAND 1 (CMD1)**  
 REPEATER INPUT: 159,300 MHz  
 REPEATER OUTPUT: 151,355 MHz  
 REPEATER OUTPUT CTCSS: 103.5 Hz
- COMMAND 2 (CMD2)**  
 REPEATER INPUT: 159,330 MHz  
 REPEATER OUTPUT: 151,265 MHz  
 REPEATER OUTPUT CTCSS: 103.5 Hz
- COMMAND 4 (CMD4)**  
 REPEATER INPUT: 159,375 MHz  
 REPEATER OUTPUT: 151,400 MHz  
 REPEATER OUTPUT CTCSS: 103.5 Hz
- CSRS**  
 REPEATER INPUT: 154,980 MHz  
 REPEATER OUTPUT: 153,755 MHz  
 REPEATER OUTPUT CTCSS: 192.8 Hz

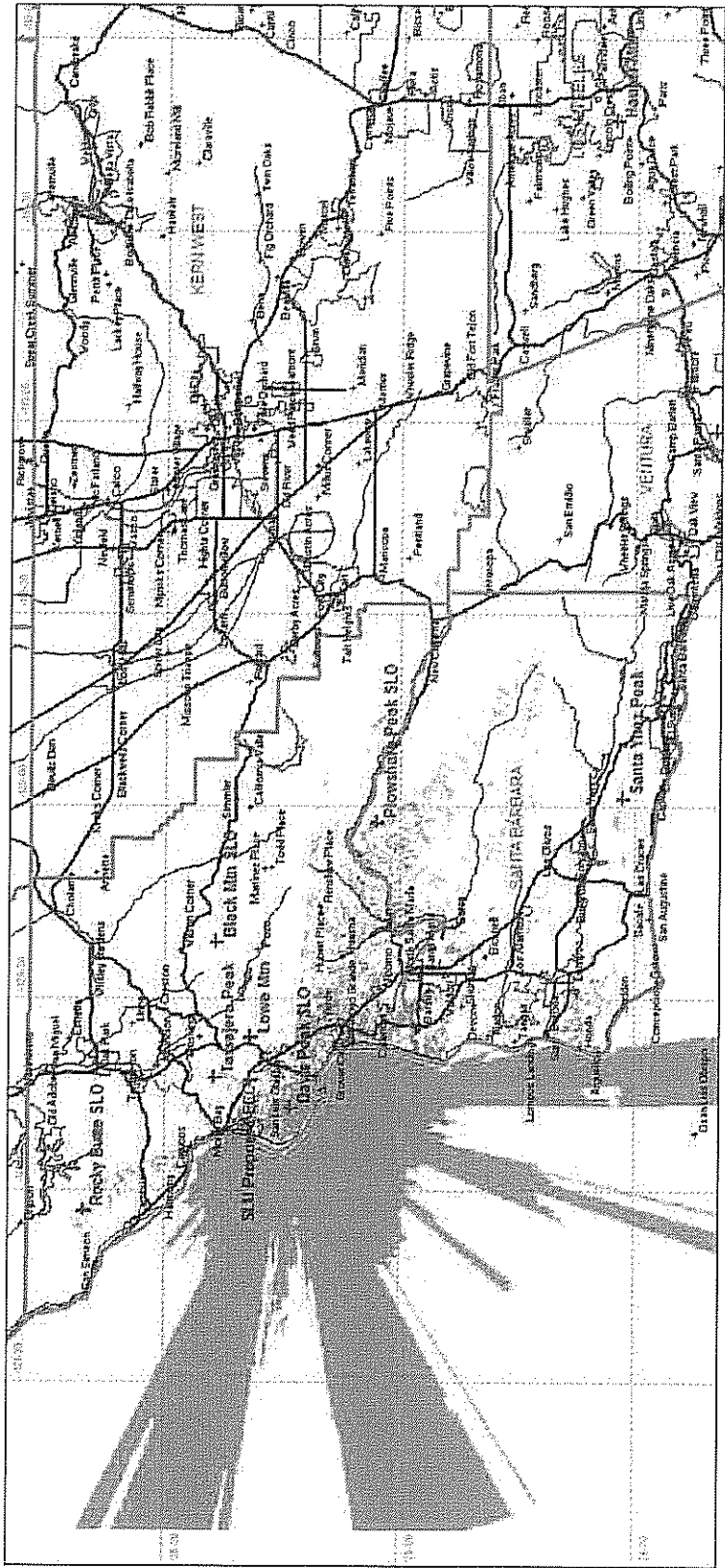
- REPEATER INPUT CTCSS TONE**
- ① 110.9 Hz
  - ② 123.0 Hz
  - ③ 131.8 Hz
  - ④ 136.5 Hz
  - ⑤ 146.2 Hz
  - ⑥ 156.7 Hz
  - ⑦ 167.9 Hz
  - ⑧ 103.5 Hz
  - ⑨ 100.0 Hz
  - ⑩ 107.2 Hz
  - ⑪ 114.8 Hz
  - ⑫ 127.3 Hz
  - ⑬ 141.3 Hz
  - ⑭ 151.4 Hz
  - ⑮ 162.2 Hz
  - ⑯ 192.8 Hz

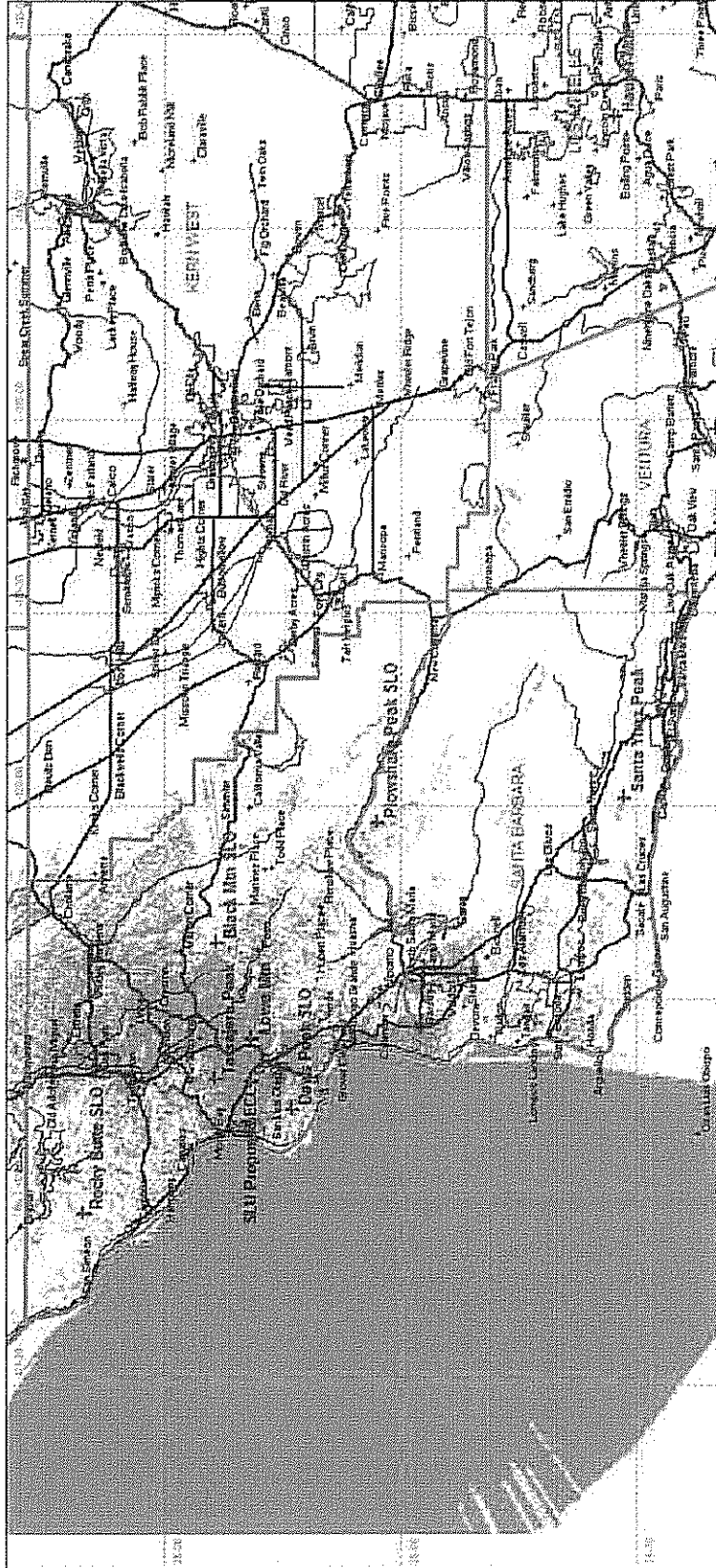
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500124-001 SH. 17

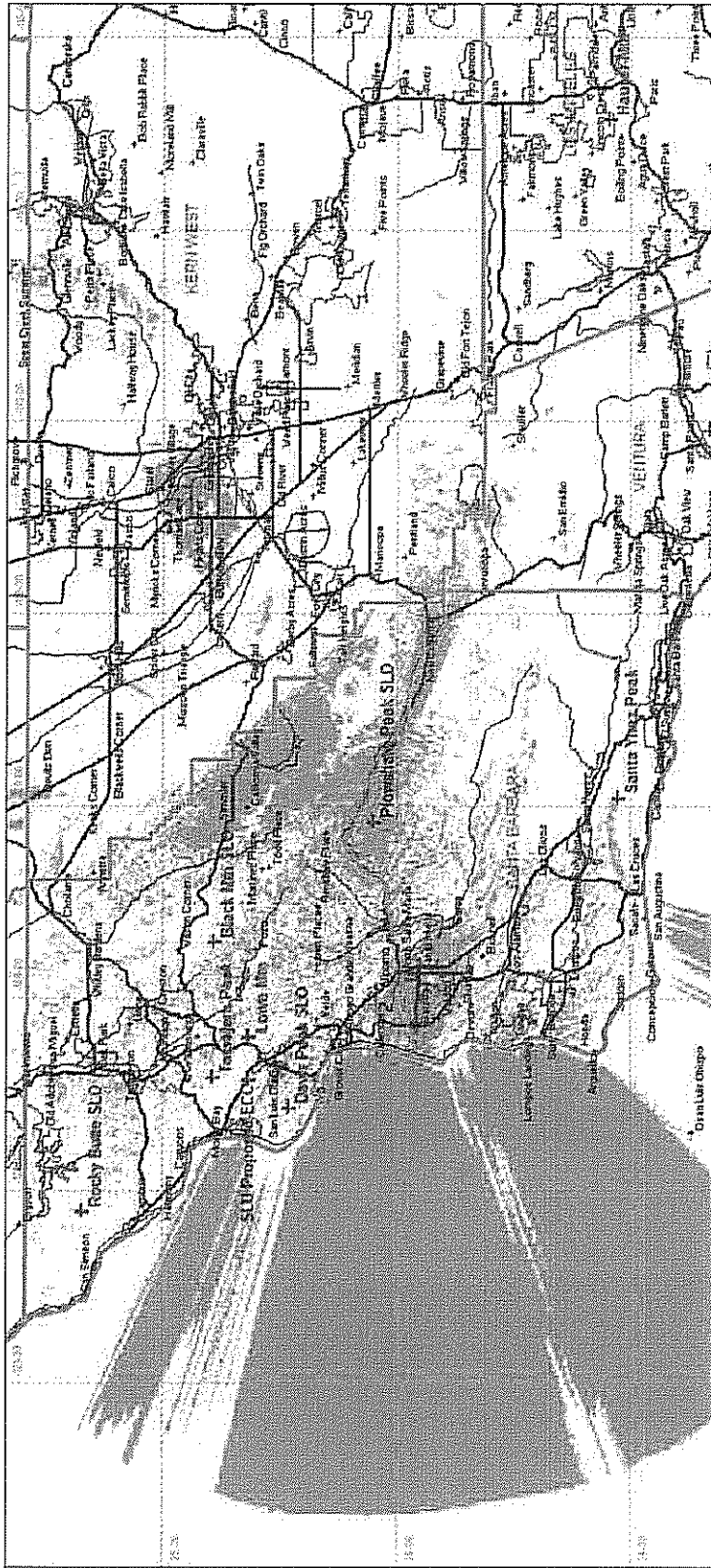
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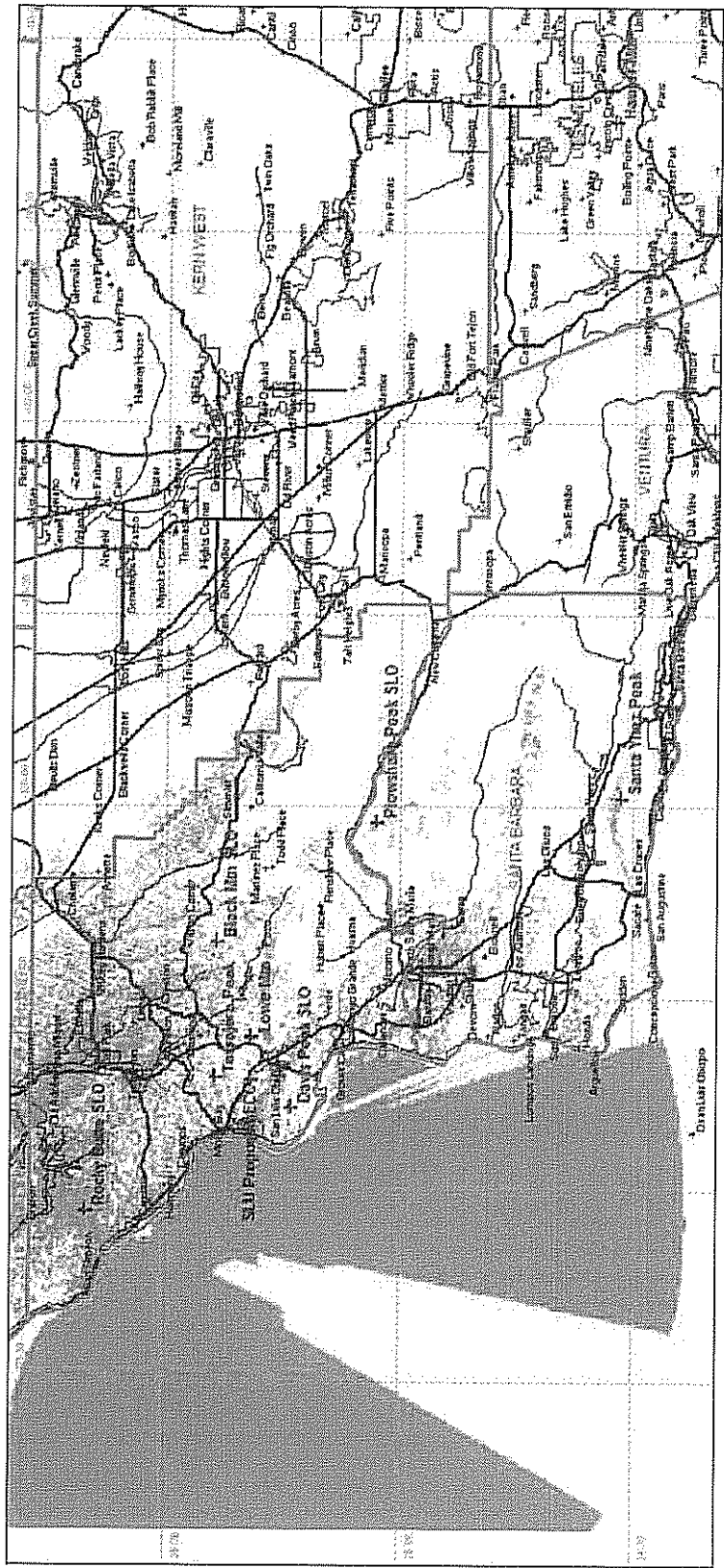


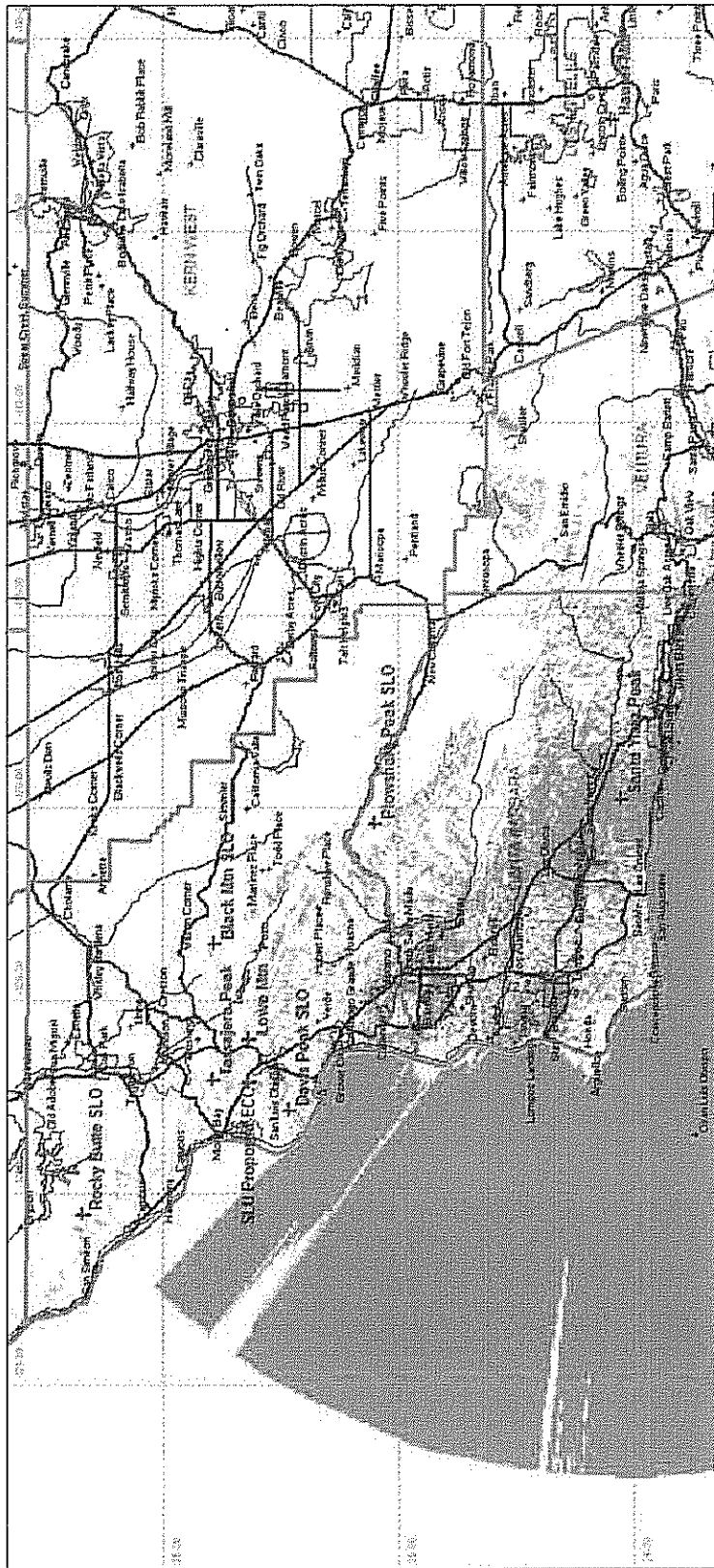


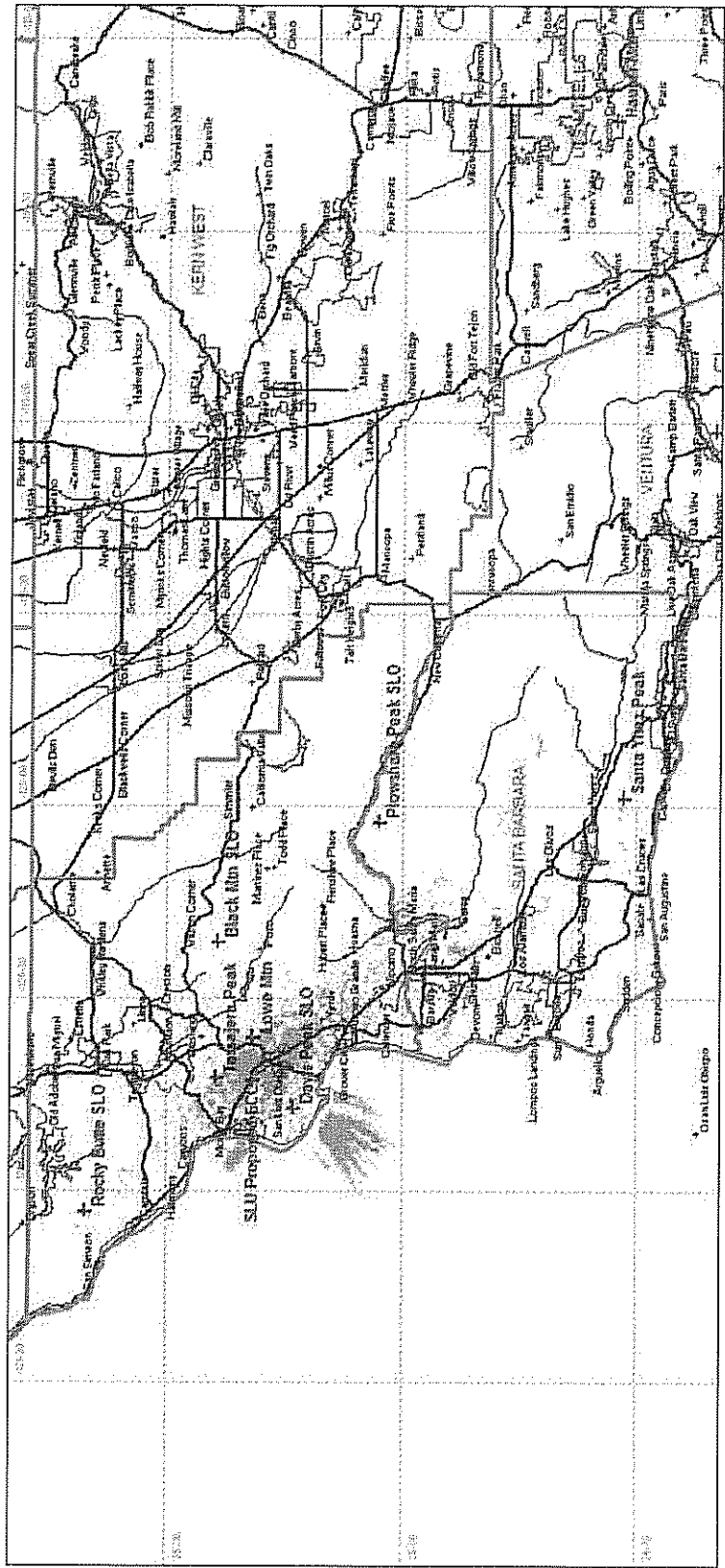




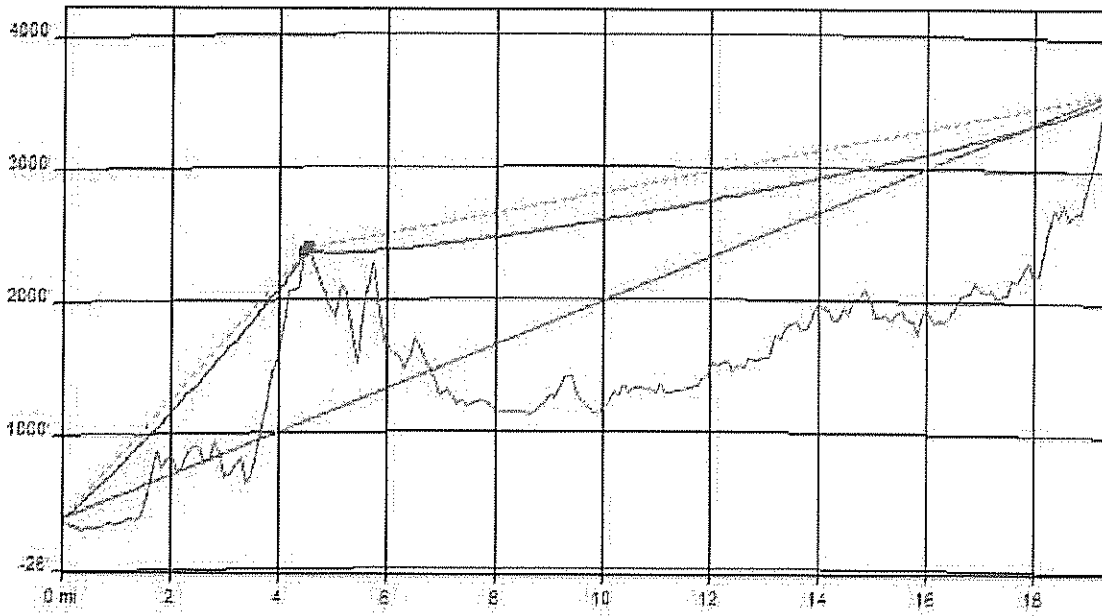








### ComStudy 2 Path Profile



#### SLU Existing ECC

Lat: 25-19-07.2 N  
Lon: 120-40-43.8 W  
AMSL: 252 ft  
Tower AGL: 40 ft

#### Black Mtn SLO

Lat: 25-23-32.9 N  
Lon: 120-21-07.8 W  
AMSL: 2566 ft  
Tower AGL: 30 ft

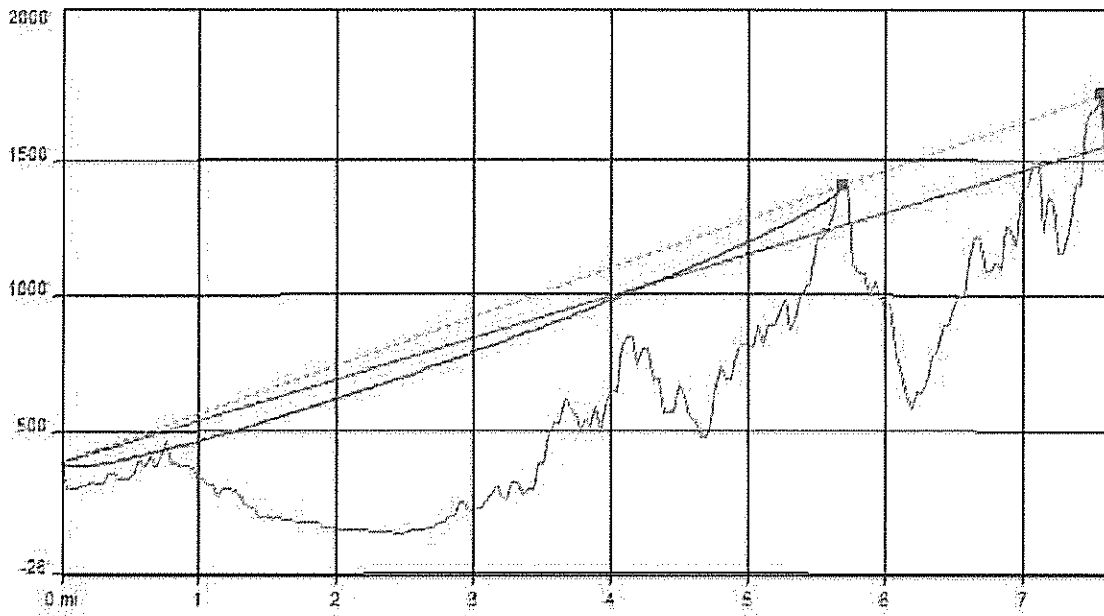
#### Profile Info

Distance: 19.44 mi  
Bearing: 71.15 deg  
# of points: 200  
K value: 1.333  
Frequency: 150  
Clearance: 0.6

#### Losses

Base Loss: 137.8 dB  
Fade Margin: 11.7 dB  
Diffraction: 12.2 dB  
Fresnel: 0.0 dB

### ComStudy 2 Path Profile



#### SLU Existing ECC

Lat: 35-13-07.2 N  
 Lon: 120-40-43.8 W  
 AMSL: 252 ft  
 Tower AGL: 40 ft

#### Davis Peak SLO

Lat: 35-13-59.0 N  
 Lon: 120-47-04.8 W  
 AMSL: 1499 ft  
 Tower AGL: 60 ft

#### Profile Info

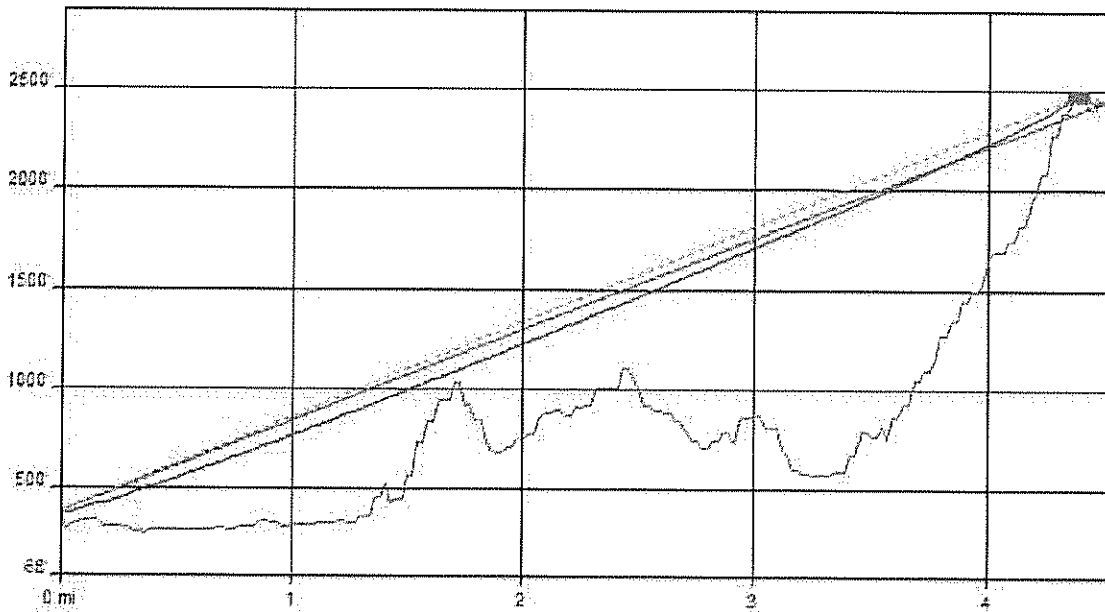
Distance: 7.54 mi  
 Bearing: 231.46 deg  
 # of points: 200  
 K value: 1.233  
 Frequency: 150  
 Clearance: 0.8

#### Losses

Base Loss: 115.8 dB  
 Fade Margin: 28.2 dB  
 Diffraction: 12.3 dB  
 Fresnel: 5.6 dB



### ComStudy 2 Path Profile



#### SLU Existing ECC

Lat: 25-12-07.2 N  
 Lon: 120-40-43.6 W  
 AMSL: 352 ft  
 Tower AGL: 40 ft

#### Low Mtn

Lat: 25-19-10.9 N  
 Lon: 120-38-03.6 W  
 AMSL: 2322 ft  
 Tower AGL: 100 ft

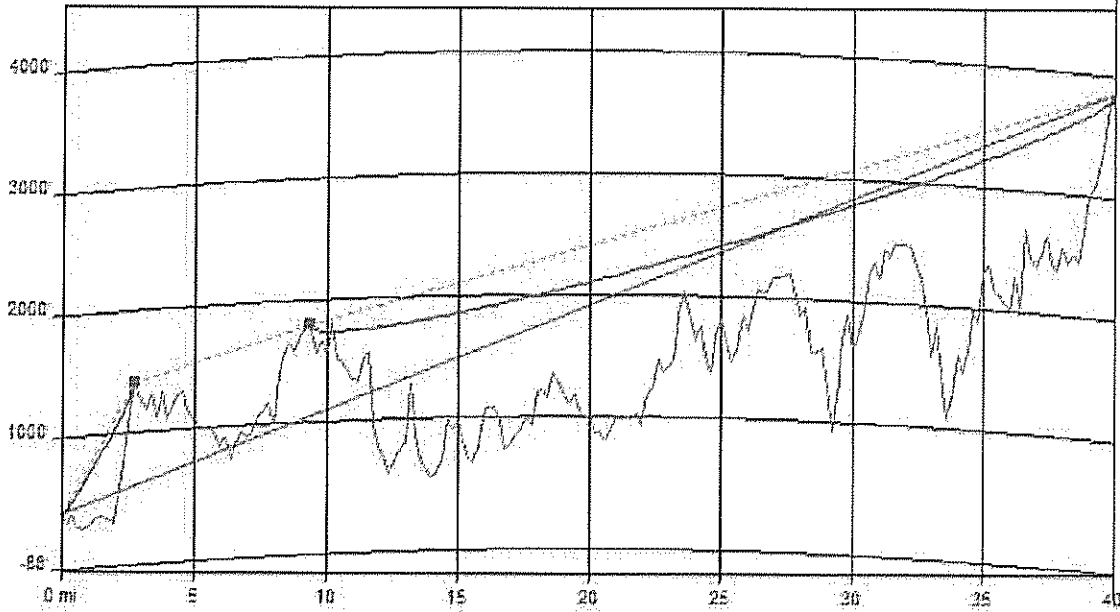
#### Profile Info

Distance: 4.55 mi  
 Bearing: 74.40 deg  
 # of points: 200  
 K value: 1.333  
 Frequency: 150  
 Clearance: 6.8

#### Losses

Base Loss: 102.2 dB  
 Fade Margin: 40.5 dB  
 Diffraction: 13.0 dB  
 Fresnel: 5.6 dB

**ComStudy 2 Path Profile**



**SLU Existing ECC**

Lat: 25-18-07.2 N  
 Lon: 120-40-43.8 W  
 AMSL: 252 ft  
 Tower AGL: 40 ft

**Plowshare Peak SLO**

Lat: 25-03-00.1 N  
 Lon: 120-02-26.5 W  
 AMSL: 3778 ft  
 Tower AGL: 80 ft

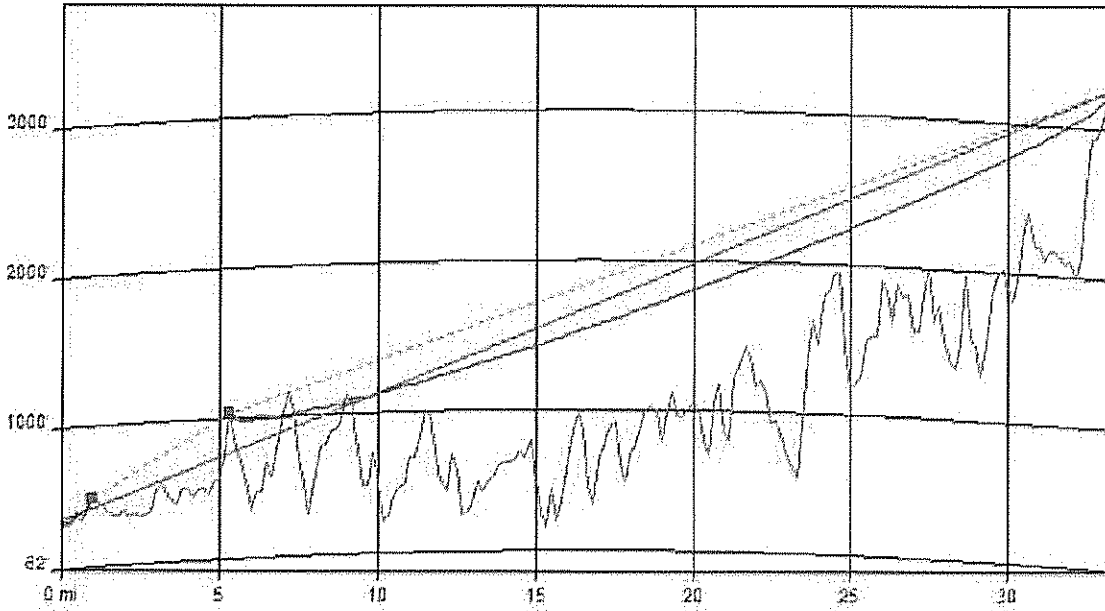
**Profile Info**

Distance: 40.02 mi  
 Bearing: 115.80 deg  
 # of points: 200  
 K value: 1.333  
 Frequency: 150  
 Clearance: 0.8

**Losses**

Base Loss: 141.9 dB  
 Fade Margin: 7.8 dB  
 Diffraction: 12.0 dB  
 Fresnel: 0.0 dB

**ComStudy 2 Path Profile**



**SLU Existing ECC**

Lat: 25-18-07.2 N  
 Lon: 120-40-43.6 W  
 AMSL: 352 ft  
 Tower AGL: 40 ft

**Rocky Butte SLO**

Lat: 25-40-30.9 N  
 Lon: 121-03-14.7 W  
 AMSL: 2169 ft  
 Tower AGL: 100 ft

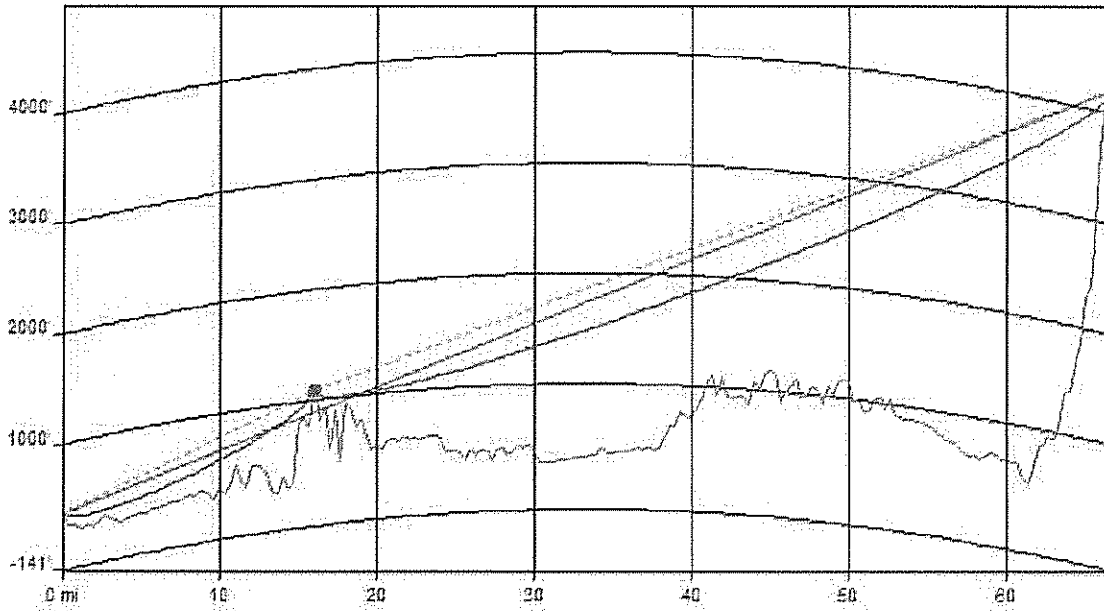
**Profile Info**

Distance: 31.33 mi  
 Bearing: 320.80 deg  
 # of points: 200  
 K value: 1.333  
 Frequency: 150  
 Clearance: 0.6

**Losses**

Base Loss: 136.7 dB  
 Fade Margin: 3.5 dB  
 Diffraction: 12.3 dB  
 Fresnel: 6.2 dB

**ComStudy 2 Path Profile**



**SLU Existing ECC**

Lat: 35-18-07.2 N  
 Lon: 120-40-43.6 W  
 AMSL: 252 ft  
 Tower AGL: 40 ft

**Santa Ynez Peak**

Lat: 34-31-37.0 N  
 Lon: 119-58-42.5 W  
 AMSL: 4137 ft  
 Tower AGL: 75 ft

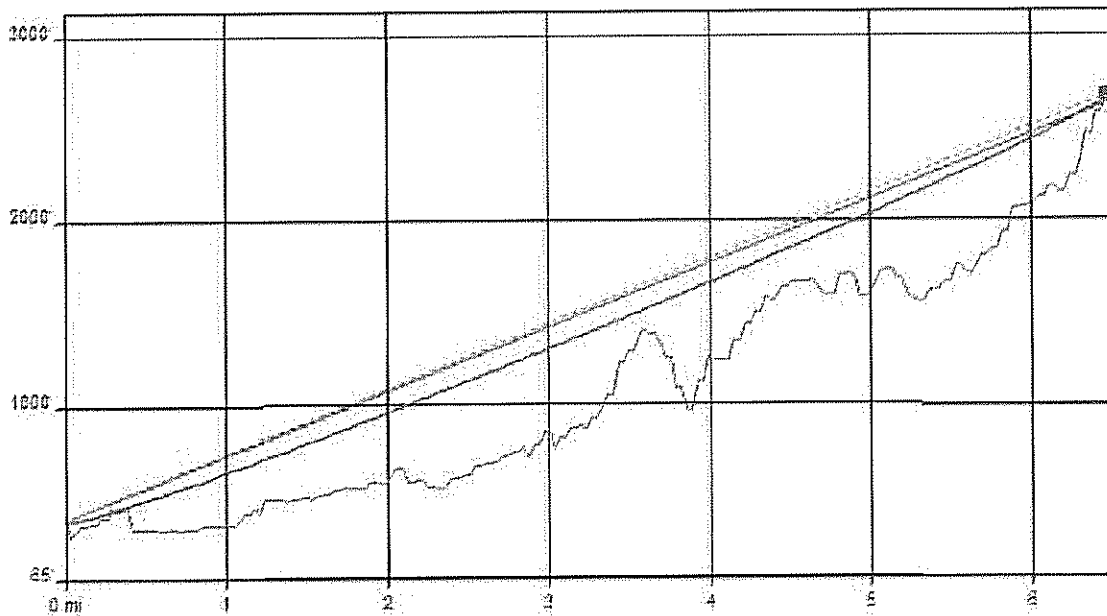
**Profile Info**

Distance: 60.64 mi  
 Bearing: 143.26 deg  
 # of points: 200  
 K value: 1.333  
 Frequency: 150  
 Clearance: 0.6

**Losses**

Base Loss: 151.5 dB  
 Fade Margin: 3.7 dB  
 Diffraction: 5.3 dB  
 Fresnel: 0.3 dB

### ComStudy 2 Path Profile



#### SLU Existing ECC

Lat: 25-12-07.2 N  
 Lon: 120-40-43.8 W  
 AMSL: 252 ft  
 Tower AGL: 40 ft

#### Tassajera Peak

Lat: 25-23-37.0 N  
 Lon: 120-42-30.0 W  
 AMSL: 2812 ft  
 Tower AGL: 40 ft

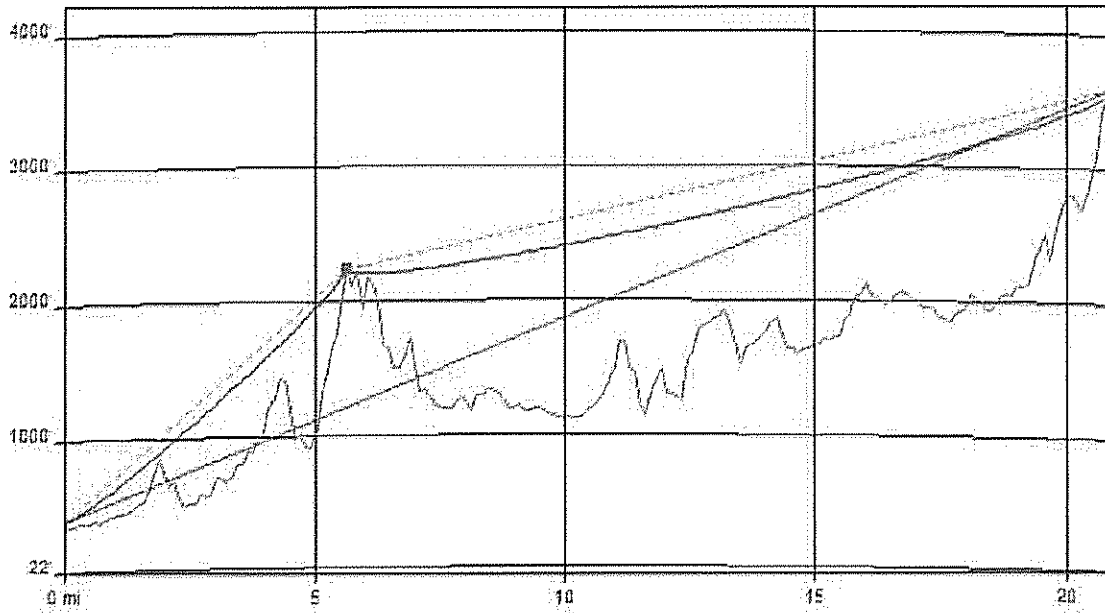
#### Profile Info

Distance: 8.54 mi  
 Bearing: 345.27 deg  
 # of points: 200  
 K value: 1.333  
 Frequency: 190  
 Clearance: 0.6

#### Losses

Base Loss: 116.4 dB  
 Fade Margin: 39.0 dB  
 Diffraction: 6.1 dB  
 Fresnel: 0.0 dB

### ComStudy 2 Path Profile



#### SLU Proposed ECC

Lat: 25-19-08.9 N  
 Lon: 120-42-45.2 W  
 AMSL: 349 ft  
 Tower AGL: 20 ft

#### Black Mtn SLO

Lat: 25-23-22.9 N  
 Lon: 120-21-07.8 W  
 AMSL: 3586 ft  
 Tower AGL: 30 ft

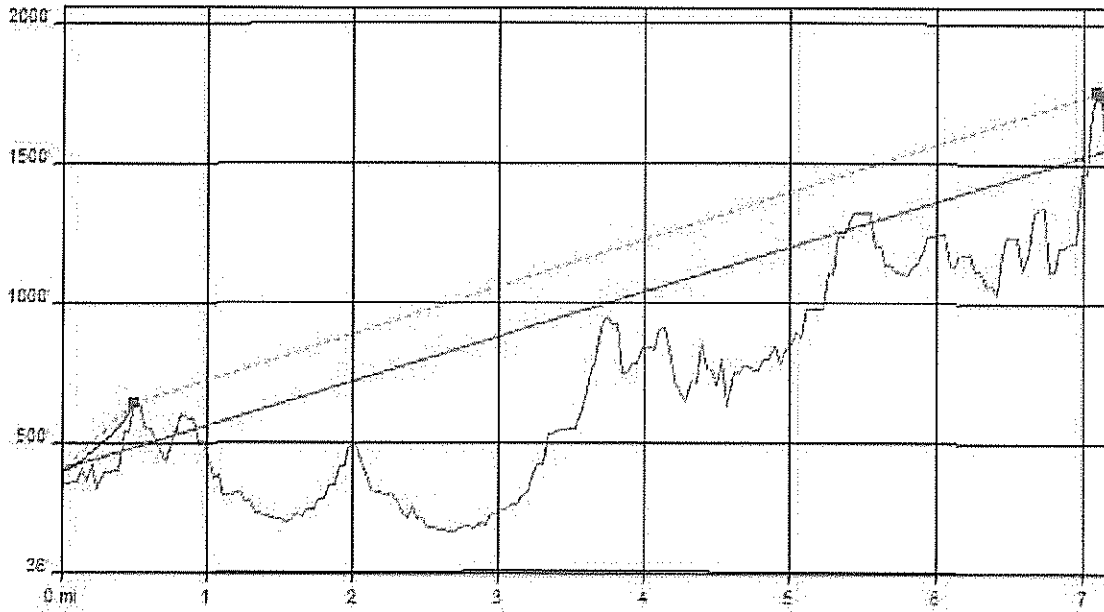
#### Profile Info

Distance: 20.93 mi  
 Bearing: 75.89 deg  
 # of points: 200  
 K value: 1.333  
 Frequency: 150  
 Clearance: 0.8

#### Losses

Base Loss: 135.6 dB  
 Fade Margin: 18.9 dB  
 Diffraction: 8.2 dB  
 Fresnel: 0.0 dB

**ComStudy 2 Path Profile**



**SLU Proposed ECC**

Lat: 26-19-08.9 N  
 Lon: 120-42-45.9 W  
 AMSL: 349 ft  
 Tower AGL: 60 ft

**Davis Peak SLO**

Lat: 26-12-59.0 N  
 Lon: 120-47-04.8 W  
 AMSL: 1499 ft  
 Tower AGL: 60 ft

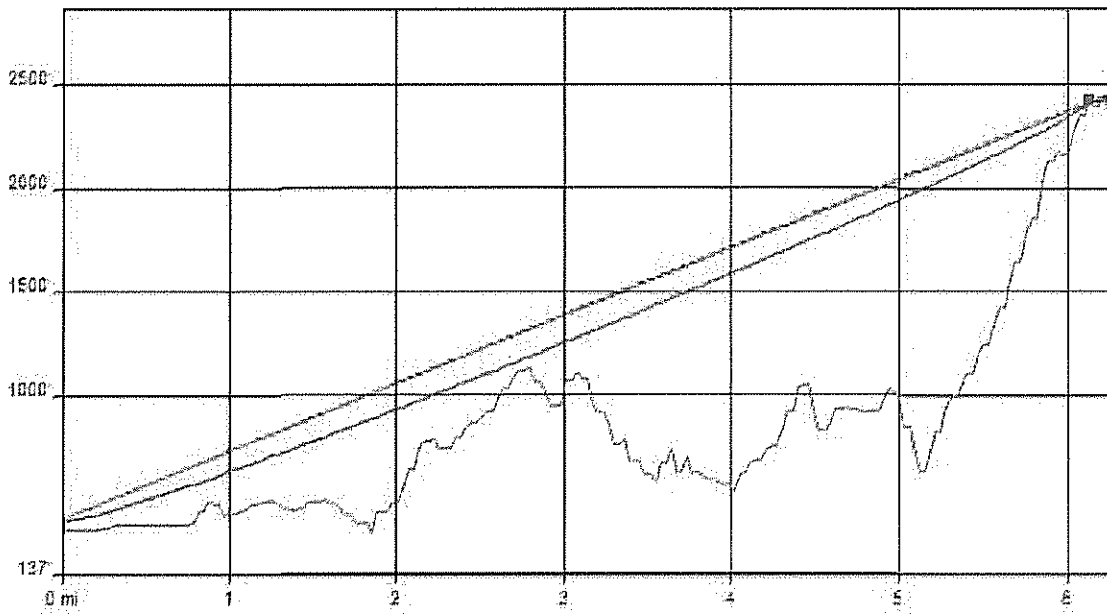
**Profile Info**

Distance: 7.20 mi  
 Bearing: 214.38 deg  
 # of points: 200  
 K value: 1.333  
 Frequency: 150  
 Clearance: 6.8

**Losses**

Base Loss: 111.1 dB  
 Fade Margin: 22.3 dB  
 Diffraction: 18.2 dB  
 Fresnel: 0.2 dB

### ComStudy 2 Path Profile



#### SLU Proposed ECC

Lat: 25-19-08.9 N  
 Lon: 120-42-45.3 W  
 AMSL: 349 ft  
 Tower AGL: 80 ft

#### Low Mtn

Lat: 25-19-10.9 N  
 Lon: 120-38-03.8 W  
 AMSL: 2352 ft  
 Tower AGL: 100 ft

#### Profile Info

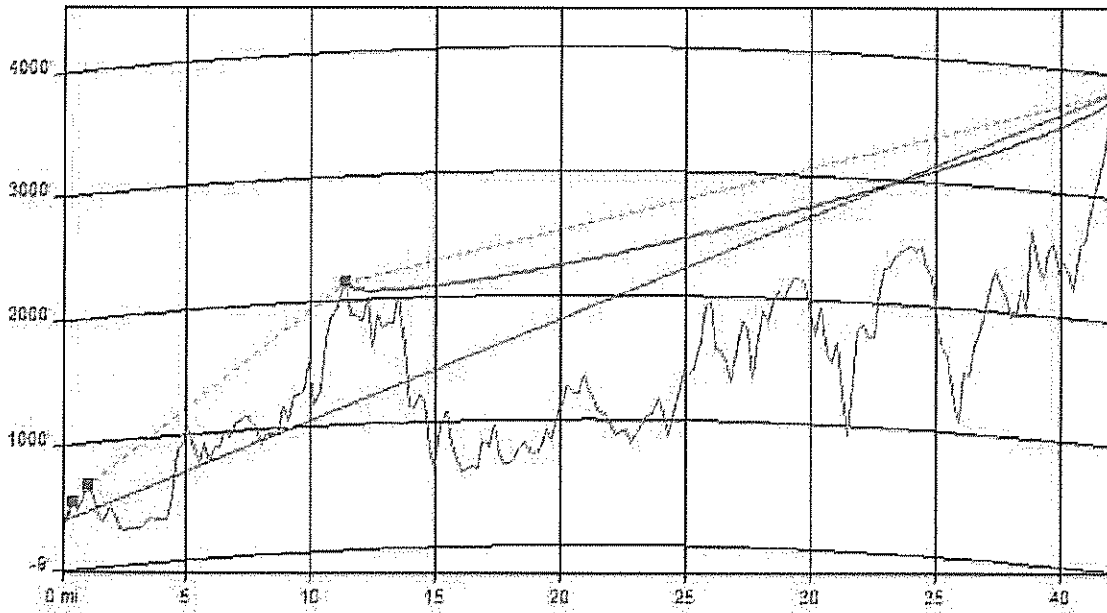
Distance: 6.26 mi  
 Bearing: 89.82 deg  
 # of points: 200  
 K value: 1.333  
 Frequency: 150  
 Clearance: 0.8

#### Losses

Base Loss: 104.3 dB  
 Fade Margin: 48.7 dB  
 Diffraction: 8.0 dB  
 Fresnel: 10.8 dB



**ComStudy 2 Path Profile**



**SLU Proposed ECC**

Lat: 25-19-08.9 N  
 Lon: 120-42-45.9 W  
 AMSL: 249 ft  
 Tower AGL: 80 ft

**Plowshare Peak SLO**

Lat: 25-03-00.1 N  
 Lon: 120-02-26.5 W  
 AMSL: 3776 ft  
 Tower AGL: 80 ft

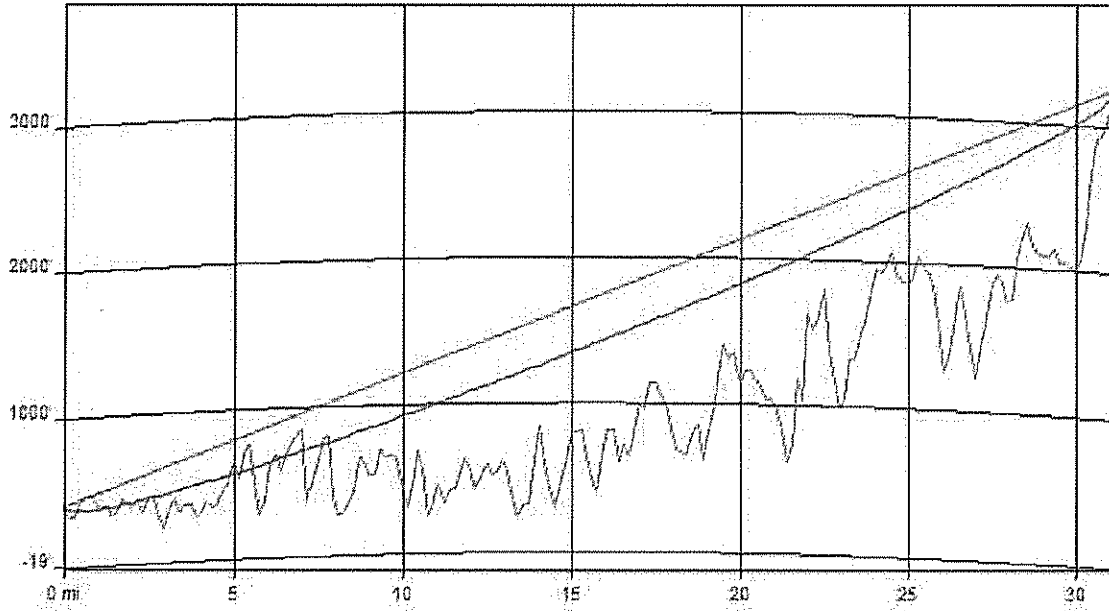
**Profile Info**

Distance: 42.25 mi  
 Bearing: 115.91 deg  
 # of points: 200  
 K value: 1.333  
 Frequency: 150  
 Clearance: 0.8

**Losses**

Base Loss: 139.3 dB  
 Fade Margin: -0.3 dB  
 Diffraction: 18.8 dB  
 Fresnel: 3.5 dB

### ComStudy 2 Path Profile



#### SLU Proposed ECC

Lat: 35-19-08.9 N  
Lon: 120-42-45.3 W  
AMSL: 349 ft  
Tower AGL: 60 ft

#### Rocky Butte SLO

Lat: 35-40-20.9 N  
Lon: 121-03-14.7 W  
AMSL: 2169 ft  
Tower AGL: 100 ft

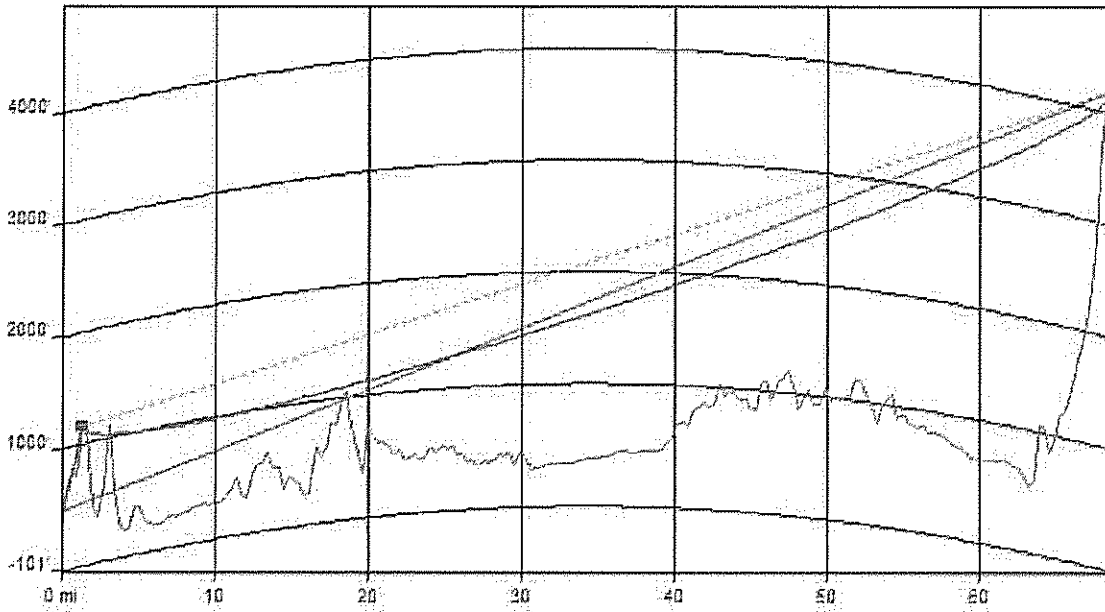
#### Profile Info

Distance: 21.21 mi  
Bearing: 222.12 deg  
# of points: 200  
K value: 1.323  
Frequency: 150  
Clearance: 0.8

#### Losses

Base Loss: 132.1 dB  
Fade Margin: 24.2 dB  
Diffraction: 0.0 dB  
Fresnel: 5.4 dB

**ComStudy 2 Path Profile**



**SLU Proposed ECC**

Lat: 25-19-08.9 N  
 Lon: 120-42-45.3 W  
 AMSL: 349 ft  
 Tower AGL: 190 ft

**Santa Ynez Peak**

Lat: 34-21-37.0 N  
 Lon: 119-58-42.5 W  
 AMSL: 4137 ft  
 Tower AGL: 75 ft

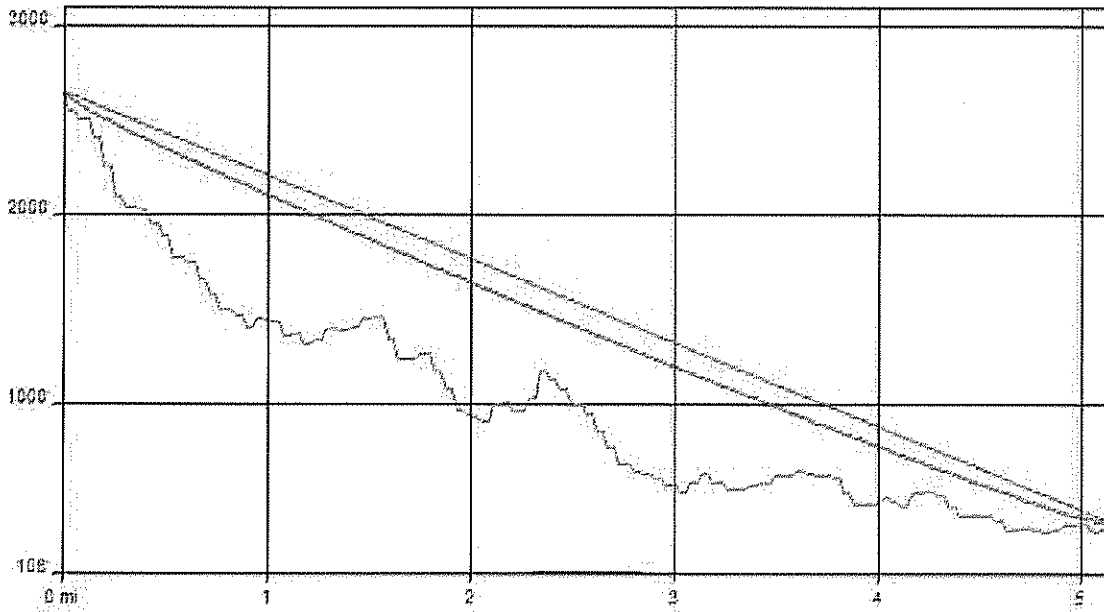
**Profile Info**

Distance: 68.73 mi  
 Bearing: 142.58 deg  
 # of points: 200  
 K value: 1.333  
 Frequency: 150  
 Clearance: 0.6

**Losses**

Base Loss: 144.1 dB  
 Fade Margin: 10.2 dB  
 Diffraction: 7.3 dB  
 Fresnel: 0.2 dB

**ComStudy 2 Path Profile**



**Tassajera Peak**

Lat: 25-22-37.0 N  
 Lon: 120-42-20.0 W  
 AMSL: 2613 ft  
 Tower AGL: 40 ft

**SLU Proposed ECC**

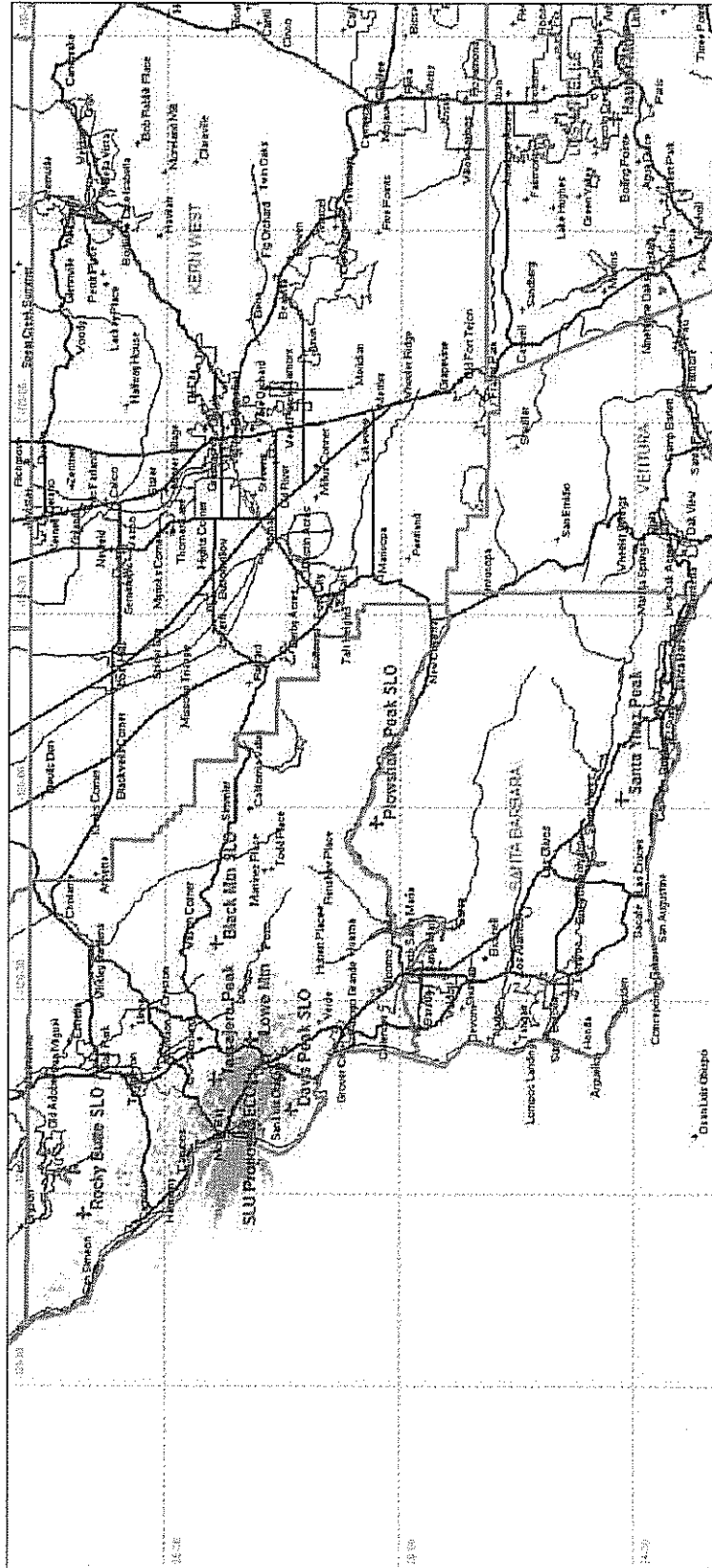
Lat: 25-19-08.9 N  
 Lon: 120-42-45.3 W  
 AMSL: 248 ft  
 Tower AGL: 40 ft

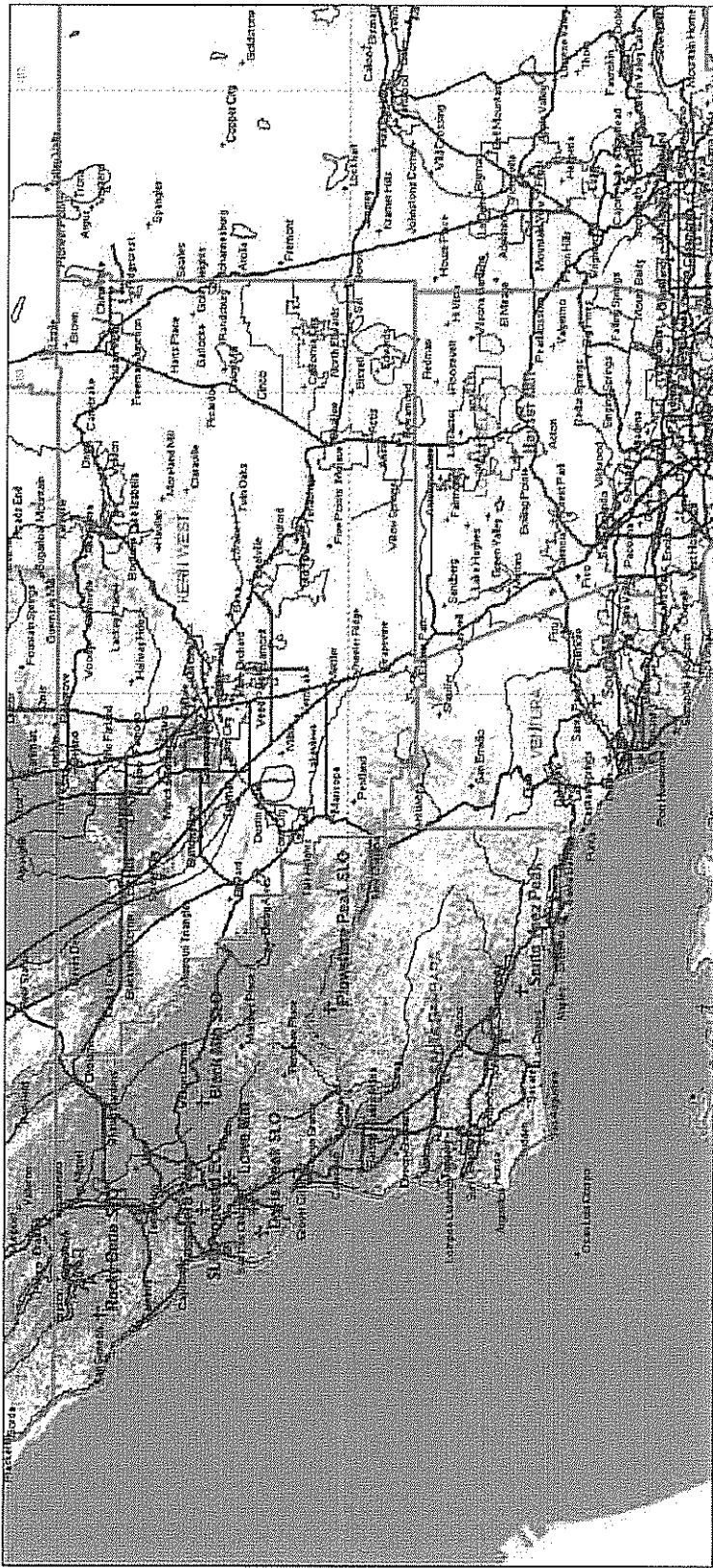
**Profile Info**

Distance: 5.15 mi  
 Bearing: 182.67 deg  
 # of points: 200  
 K value: 1.323  
 Frequency: 150  
 Clearance: 0.8

**Losses**

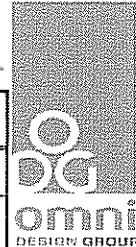
Base Loss: 112.3 dB  
 Fade Margin: 47.7 dB  
 Diffraction: 0.0 dB  
 Fresnel: 0.0 dB





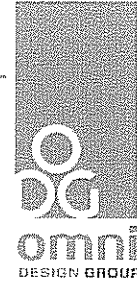
# ADDENDUM G - Construction Cost Estimate

## SCHEMATIC DOCUMENTS STAGE CONSTRUCTION COST ESTIMATE



Functional Cost Summary	Dispatch		Expanded Dispatch		Siteworks		
	\$,000	\$/GSF	\$,000	\$/GSF	\$,000	\$/GSF	
Gross built floor area:	10,856 GSF		2,832 GSF		37,000 GSF		
<b>01 Foundations</b>							
1.10 Standard Foundations	129	11.88	35	12.36			
<b>02 Substructure</b>							
2.10 Slab on grade	95	8.75	25	8.83			
<b>03 Superstructure</b>							
3.10 Structural frame	13	1.20	10	3.53			
3.30 Roof structures	109	10.04	39	13.77			
3.40 Stair construction	3	0.28	3	1.06			
<b>04 Exterior Closure</b>							
4.10 Exterior walls and doors	231	21.28	137	48.38			
4.20 Exterior glazed elements	151	13.91	17	6.00			
<b>05 Roofing</b>							
5.10 Roof finish	208	19.16	71	25.07			
<b>06 Interior Construction</b>							
6.10 Interior partitions	264	24.32	9	3.18			
6.20 Interior finishes	316	29.11	96	33.90			
6.30 Specialties	140	12.90	24	8.47			
<b>08 Mechanical Installations</b>							
8.10 Plumbing	99	9.12	44	15.54			
8.20 Heating, Ventilating, & Air Conditioning	230	20.27	57	20.13			
8.30 Fire protection	43	3.96	11	3.88			
<b>09 Electrical Installations</b>							
9.10 Distribution and branch wiring	174	16.03	26	9.18			
9.20 Lighting	107	9.84	28	9.89			
9.30 Special electrical systems	75	6.91	75	26.48			
9.40 Communication systems	228	21.00	106	37.43			
<b>10 Equipment</b>							
10.00	11	1.01	2	0.71			
<b>11 Sitework</b>							
11.10 Site preparation and demolitions	0	0.00	0	0.00	87	2.35	
11.20 Site improvements	0	0.00	0	0.00	184	5.03	
11.30 Site utilities	0	0.00	0	0.00	525	14.19	
<b>SUBTOTAL</b>	<b>\$2,616</b>	<b>\$240.97</b>	<b>\$818</b>	<b>\$287.78</b>	<b>\$798</b>	<b>\$21.57</b>	
General Conditions, Bonds, Insurances	9.0%	235	21.65	73	25.78	72	1.95
General Contractor's Fees	7.0%	200	18.42	62	21.89	61	1.65
Design Stage Contingency	25.0%	763	70.28	238	84.04	233	6.30
Escalation Allowance	4.0%	153	14.09	48	16.95	47	1.27
<b>TOTAL for hard construction costs</b>	<b>\$3,967</b>	<b>\$365.42</b>	<b>\$1,236</b>	<b>\$436.44</b>	<b>\$1,211</b>	<b>\$32.73</b>	
<b>BUDGET FOR CONSTRUCTION BIDS - JUNE/JULY 2015</b>					<b>\$6,414,000</b>		

## **BASIS OF THE COST ESTIMATE**



### **Scope of Work Included**

**Buildings:** Reinforced concrete strip and pad foundations; Self-finished concrete masonry exterior wall systems (Alt. A) or metal stud with exterior plaster (stucco) finish (Alt. B). Metal stud framing, drywall finished interior walls; Good office quality interiors and finishes to Administration areas; Custom grade casework and fixtures.

Heating and ventilation installations; Split system cooling to data room; Plumbing fixtures, piping and drainage in toilet rooms; Fire sprinkler systems throughout, with pre-action system for equipment room and access floor void space; Fire alarm system; Budget allowances for surveillance and access control and A/V systems.

**Siteworks:** Site clearing, excavation and grading; Paving, hardscape, landscaping and provision of accessible parking spaces; New site walls; New main electrical switchboard and emergency generator system; Allowances for site utility laterals from adjoining public roadway.

### **Pricing Assumptions**

**Bidding:** Assumed that the projects will be competitively bid by at least **three** competent General Contractors.

**Labor costs:** Assumed that prevailing wage conditions **WILL** apply to this project.

**Line item pricing:** Estimate line items are priced as "Subcontractor net price to General Contractor," including Subcontractor's overhead, profit and sales tax as appropriate. Allowances for General Contractor's overhead, profit and/or management fee are added on the estimate summary page.

**Cost escalation:** Estimate line items are priced at current market rates, including allowance for cost escalation during construction. Allowance for cost escalation from current date to anticipated bid date or construction start date is added on the estimate summary page.

**Construction schedule:** Overall construction period of approximately 15-18 months assumed for the project.

### **Exclusions**

**General:** Environmental studies and mitigation.  
Site acquisition, legal and financing costs.  
Design, construction management and inspection fees and expenses.  
Fire and all-risk insurance.  
Telephone and computer equipment.  
Work outside the areas impacted by construction, other than for utility connections and as noted above.  
Utility connection charges.  
Alternate energy sources (i.e. solar panels)

**Project specific:** Allowance for removal of contaminated soil if encountered.  
Cost escalation beyond July 2015, other than escalation during construction.



# ADDENDUM H - Square Footage Sheriff/CAL FIRE Co-Located Dispatch Center

Sheriff / CAL FIRE Co-Located Dispatch Center														
BUILDIN	DESCRIPTION	ROOM	SF	% State			% County			% Sheriff			S.F.	Comments
				State	County	Sheriff	State	County	Sheriff	State	County	Sheriff		
Dispatch Center	LE Dispatch Center		2094	0%	0%	100%						2094		2094
Dispatch Center	LE Contract Dispatch		840	0%	0%	100%						840		840
Dispatch Center	Watch Commander		219	0%	0%	100%						219		219
Dispatch Center	Dispatch Supervisor		119	0%	0%	100%						119		119
Dispatch Center	Patrol Commander		223	0%	0%	100%						223		223
Dispatch Center	Storage		135	0%	0%	100%						135		135
Dispatch Center	Armory		158	0%	0%	100%						158		158
Dispatch Center	Womans Restroom / Locker		327	0%	0%	100%						327		327
Dispatch Center	Mens Restroom / Locker		300	0%	0%	100%						300		300
Dispatch Center	Hall		385	0%	0%	100%						385		385
Dispatch Center	Break Room		208	0%	0%	0%					208		208	
Dispatch Center	Kitchen / Break Room		142	0%	0%	0%					142		142	
Dispatch Center	IT / Telco Server		182	0%	0%	0%					182		182	
Dispatch Center	Conference Room		264	0%	0%	0%					264		264	
Dispatch Center	Dispatch vestibule		143	0%	0%	0%					143		143	
Dispatch Center	Entrance Hall		448	0%	0%	0%					448		448	
Dispatch Center	Entrance		212	0%	0%	0%					212		212	
Dispatch Center	Public Unisex Restroom		104	0%	0%	0%					104		104	
Dispatch Center	Janitors Closet		50	0%	0%	0%					50		50	
Dispatch Center	Battalion Chief Office		233	67%	33%	0%				156	77		233	
Dispatch Center	Administration Captain		176	67%	33%	0%				118	58		176	
Dispatch Center	IT Office		176	67%	33%	0%				118	58		176	
Dispatch Center	Duty Captain Office		251	67%	33%	0%				168	83		251	
Dispatch Center	Staff Unisex Restroom		94	67%	33%	0%				63	31		94	
Dispatch Center	CAL FIRE Command Floor		1470	67%	33%	0%				985	485		1470	
Dispatch Center	Hall		427	67%	33%	0%				286	141		427	
Dispatch Center	Copy Storage		144	67%	33%	0%				96	48		144	
Dispatch Center	Exercise Room		420	67%	33%	0%				281	139		420	
Dispatch Center	Employee Locker Room		178	67%	33%	0%				119	59		178	
Dispatch Center	Laundry Room		82	67%	33%	0%				55	27		82	
Dispatch Center	Hall by Dorm Rooms		66	67%	33%	0%				44	22		66	
Dispatch Center	Dorm		335	67%	33%	0%				223	112		335	
Dispatch Center	Dorm		251	67%	33%	0%				168	83		251	
														10856

Expanded	Expanded - Command Room	448	67%	33%	0%	300	148	44B
Expanded	Expanded Dispatch	1269	67%	33%	0%	850	419	1269
Expanded	Mens Restroom	156	67%	33%	0%	105	51	156
Expanded	Womans Restroom	152	67%	33%	0%	102	50	152
Expanded	Server Room	98	0%	0%	0%			98
Expanded	Radio Vault	322	0%	0%	0%			322
Expanded	UPS	194	0%	0%	0%			194
Expanded	Electrical Room	60	0%	0%	0%			60
Expanded	Boiler Room	133	0%	0%	0%			133
Site	MCC Storage	640	100%	0%	0%	640		2832
Site	Generator / Fuel Room	192	0%	0%	0%			640
Site	Land 3.5 acres							192
		14520				4877	2091	4800
								2752
								estimate \$1,500,000 value

State	County	Sheriff
41.4%	17.8%	40.8%

Ratio of dedicated space

Allocation of Common Space

Total Space by Dept.

1141

489

1123

6018

2580

5923

## ADDENDUM I - Draft Letter to SLO County Board of Supervisors from CAL FIRE

, 2013

Board of Supervisors  
San Luis Obispo County  
County Government Center  
1055 Monterey Street  
San Luis Obispo, CA 93408

**RE: Co-Located Dispatch Center & CAL FIRE San Luis Unit Headquarters**

Dear San Luis Obispo County Board of Supervisors,

This letter confirms CAL FIRE's commitment to collaborate on the Co-Located Dispatch Center currently being designed by San Luis Obispo County. Our commitment is based upon the Center being built to accommodate both the County Sheriff Dispatch and the CAL FIRE/San Luis Obispo County Fire Emergency Command Center (ECC).

We support your Board's approval of the development of the Co-Located Dispatch Center and your staff working with CAL FIRE staff on the design, construction and installation of telecommunications and Information Technology required in a facility of this type.

In exchange for the County constructing this facility, the County will have no fiscal or legal responsibility for the CAL FIRE San Luis Obispo Headquarters project. The State will fund, provide, install and maintain telecommunication and information technology equipment required for a standard State ECC.

That said, we ask that the County Board recognize that the State budgeting process requires that CAL FIRE ask the Department of Finance through a Budget Change Proposal for the funding for the telecommunication and Information Technology costs for this new facility. We estimate those costs to be approximately two million dollars. While we cannot guarantee success in this budgeting process, we are committed to this effort and believe we will be successful. If we fail in this endeavor, it may mean that we are not able to purchase and install the technology for the new ECC.

In exchange for building the Co-Located Dispatch Center, including the CAL FIRE ECC, the County will have no fiscal responsibility for the CAL FIRE San Luis Obispo Headquarters project. The State will include office and support space for County Fire Department operations in the San Luis Obispo Headquarters project.

We believe this cooperative agreement will improve service and reduce total costs for both the State and the County. We agree that building the Co-Located Dispatch Center and the CAL FIRE San Luis Obispo Headquarters projects concurrently, but by each party separately, will provide the greatest public benefit.

It is anticipated that the demolition of the old ECC will take place in approximately four years. We are hopeful the new County Co-Located Dispatch Center will be completed by that time in order to allow for demolition to begin at the current ECC.

Robert Lewin, Unit Chief for the San Luis Obispo Unit, is available to address any questions on this project.

Sincerely,

<<appropriate CAL FIRE signature>>

DRAFT