

**HAM RADIO EMERGENCY INFRASTRUCTURE REPEATERS
EXHIBITS (version as of 20191017)**

DOCUMENTATION	
REGARDING REPEATER INSTALLATION AND PERMISSIONS	
Charles Seevers e-mail 10-13-2019 Responding to an erroneous You Tube Video concerning the Repeaters installed in State Vaults in Shasta and Tehema Counties	Ex. 1 Page 1 of 1
Charles Seevers e-mail 10-13-2019 attaching letters of permission - Bunchgrass - Tuscan Butte - Latour Butte (subject of Zeliff letter 9/23/1019) The 223 machine was replaced by the 760 about 2 years after initial installation and has remained in the same rack space since (VIP Program).	Ex. 2 Page 1 of 3 Page 2 of 3 Page 3 of 3
Charles Seevers e-mail 10-13-2019 concerning South Fork Repeater (640) (subject of Zeliff letter 9/23/1019)	Ex. 3 Page 1 of 1
Jim McKeown, e-mail concerning the 640 repeater on South Fork. E-Mail is responding to an erroneous You Tube Video (above) as relating to the South Forth Repeater (640) (subject of Zeliff letter 9/23/1019)	Ex. 4 Page 1 of 2 Page 2 of 2
Charles Seevers - Attached is is the Latour permission (See Exh. 2 page 3 of 3). Additionally he advised “The other drawing [Ex. 5, hereto] is a partial of the vault layout engineering drawing for Tuscan showing the VIP racks in position 10 & 11 just for a sample. I have more drawings for that site, but they are large size and not scannable on my scanner.” ANZ Note: The Vault layout for South Fork should likewise show the 640 repeater with its designated rack space.	Ex. 5 Page 1 of 1 Vault Space #10 and # 11 is the “CDF VIP” i.e., “ham vip”

On Sunday, October 13, 2019, 11:21:54 AM PDT, Charles Seevers <[E-MAIL ADDRESS DELETED](#)> wrote [Jim Aspinwall No1PC <no1pc@yahoo.com>]:

“I watched part of your long winded interview about this current situation concerning amateur radio repeaters in CalFire vaults.

The assumption that the repeater was just found there with no permission is totally wrong.

I was a state telecommunications technician during the time that all of the repeaters in state vaults in Shasta and Tehema county were installed. I did much of the installation. All were placed there with the permission of the local Calfire units at the time and many were engineered in by the State Telecommunications Division. Rack space and antenna provisions were documented and provided so as to be compatible with other systems at the site. One site is a remote lookout where there is no radio vault or local power, so solar power was also built in by the amateurs. So the "discovery" of a mysterious repeater is an error on the part of the person not having knowledge of the past events. ”

“Charles Seevers < email address deleted>

To:Jim Aspinwall No1PC

Cc:Nathan Zelif

Oct 13 at 3:23 PM

Copies of 3 of the sites are attached. While they look simplistic, that's the way we did things back then. The South Fork site was done by another person and it was also engineered in by Telecom Division (now PSC)”

[NOTE: the attachments to the e-mail are shown below: Bunchgrass; Tuscan Butte; Latour Butte]

State of California

Memorandum

To: Jack Schlotter, Radio Director,
Amateur Radio Operators of the
Volunteers in Prevention

June 26, 1986

From Department of Forestry

You are authorized to use one (1) rack space and two (2)
antenna spaces at the Bunch Grass radio vault.

The following persons have authorized access to the vault:

Jack Drake
Dick Duval
Charles Seevers

Sincerely,
Ralph Minnich
ECC Chief 

December 14, 1984

To Whom It May Concern:

California Department of Telecommunications Radio Technicians
Andy McClure and Chuck Seevers have the permission of Tehama-
Glenn Ranger Unit to place a Ham Radio Repeater in the new
vault at Tuscan Butte.

It is understood physical placement in the vault shall not hamper
all other uses of the vault. One antenna position on the new
antenna pole will be utilized to provide reception to and trans-
mission from the repeater. Removal of this hardware may be
requested without notice and shall upon request be removed
immediately.

The repeater is being installed to intermittently enhance the
California Department of Forestry V. I. P. activities and
operations in the Red Bluff and Redding areas.



Ira A. Townsend

Communications Officer

Tuscan Butte

Exhibit 2 P 2 of 3

Chuck Seevers
Amateur Radio Operator
Redding, CA

February 27, 1987

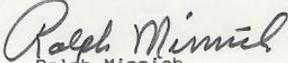
Subject: Amateur Radio Repeater
Latour Butte Lookout Vault

This letter authorizes you to place an Amateur Radio Repeater in the building at Latour Butte Lookout, Township 32 North, Range 2 East, Section 23, MDBM.

Frequencies are: Transmit 223.620 MHz
Receive 222.020 MHz

The repeater will be available for use by the Amateur Radio Operators participating in the Volunteers in Prevention Program.

Your efforts are appreciated.


Ralph Minnich
ECC Chief
Shasta-Trinity Ranger Unit

SOUTH FORK 640 REPEATER

On Sunday, October 13, 2019, 07:10:23 PM PDT, Charles Seevers
[<e-mail address deleted>](#) wrote [Jim Aspinwall No1PC [<no1pc@yahoo.com>](mailto:no1pc@yahoo.com)]:

“As I indicated, installation of the South Fork amateur equipment was engineered by Telecommunications Division (now : Public Safety Communications). Rack space and antennas were provided at that time. Frequency information and other data was submitted to them during the vault and tower upgrade. I don't see why that information needs to be resubmitted and payed for. Somewhere, I am sure, there is also a permission letter. Current expense would only be a small amount of electric power, which wold be difficult to differentiate, as the systems are connected to the vault common 12 volt power system.”

Copy of E-mail from Jim McKeown, WA6IO concerning the 640 repeater on South Fork. It was sent to Jim and Dave concerning their You Tube Video "There Is No Such Thing As Free Rack Space. The e-mail is dated on or About October 14, 2019

START of E-mail:

" Jim.

Good morning Jim and Dave. Dave after watching your You Tube video regarding the ham radio and Cal Fire sites I felt I had to send this email to you guys. I want to clarify the circumstance regarding the situation in Shasta County concerning the South Fork Mt. Repeater (146.640).

I am the person that the email from Ms. Pisi was address to and whose name was deleted from the email (Exhibit A to the letter from Attorney N. Zeliff).

I have worked in the two-way radio business as a radio technician since getting out of the Navy in 1975. I think it was around 1985 that I installed the 146.64 repeater into the CDF radio site on South Fork Mt. (Yes the site is owned by Cal Fire (CDF). At that time the repeater was owned by the Shasta County Amateur Radio Society, Club (SCARS). SCARS at that time was involved in the CDF VIP program. By way of the VIP program SCARS was given permission by CDF to install the 640 repeater. They used a GE Master II repeater (I worked for the local GE radio dealer). I was and still am the only ham that maintains the repeater and has access to the site.

A few years later, I think it was about 1992 CDF decided to "refurbish" the site. They redid the inside of the building with about thirty-two seven fool relay racks, they only used three racks for their radio equipment and two for their microwave. The National Park Service used one and the NOAA put in a 162.55 weather transmitter in a cabinet. They also installed a large number of batteries and a new generator. Part of the refurbishment was a new metal tower (replaced the wood tri-pod tower) with a "combined" antenna system. The ham equipment was also included in the refurbishment. In order to keep the VIP repeater (i.e., the Ham repeater) there I filled out all the required state forms and gave them all the engineering data for the ham equipment so their engineers could incorporate the ham equipment into the site. Thus the Ham repeater was incorporated into the site. They allowed us the use of one rack. They purchased transmitter antennas specifically for the ham equipment because the combined CDF transmit antennas were too far removed in frequency. They did put the ham receiver on the receive combining system. I was not allowed to climb the tower to make any repairs or testing of the ham antenna. When I thought I had a problem I would call the state tech and he would climb the tower and check the

antenna. I had my business card attached to the ham equipment and the FCC License was posted so anyone knew who owned the equipment and could get in contact with me. Other than a little electricity (a little 25 Watt repeater) it doesn't cost the state any more for the ham repeater to be there. At the time of the "refurbishment", I understood that an agreement had been signed allowing the repeater (part of the VIP CDF program) to be in the vault without any charges for rent, electricity or otherwise.

In 2003 the GE repeater was replaced by a new Kenwood commercial, TK-750K2 (K2 is ham band) repeater. I think it was around 2006 that the SCARS club dissolved. At that time SCARS decided to give the repeater to the Shasta-Tehama Amateur Radio Emergency Service (STARES), which uses the repeater for their nets, drills and times of actual emergencies. I understand that STARES is included as part of the Shasta County Emergency Communications plan. STARES is the current owner of the repeater. I am not directly associated with STARES other than maintaining the repeater. I am too busy with my two-way business to devote any time to the STARES operations. I also work part time for a local TV station.

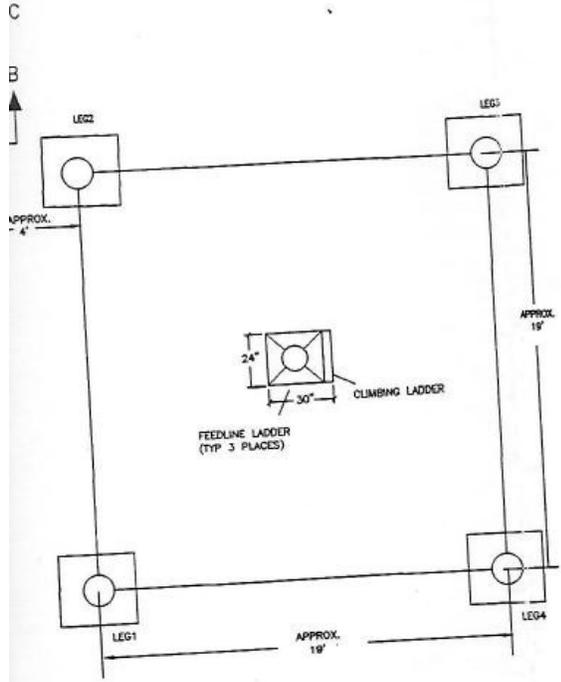
So that is some history for this site. About three weeks ago last Friday ????, Shasta-Tehama Cal Fire called me on the telephone to see if I knew anything about the repeater. They were trying to find out who owned the equipment and were having a hard time doing so. Someone they talked to gave them my name. They obviously never had anyone take a look at the front of the equipment where my business name and phone number are attached. Anyway I was advised that I needed to contact Ms. Pisi via email (she will not take phone calls). He (Cal Fire representative) further advised me that he had no control of the situation anymore as it was all managed by her office. So he could not help in this matter in any way. After a few email to and from Ms. Pisi we were given thirty days to remove the repeater, as STARES was not able to afford the large fees. This removal date was later extended since I understand that the matter is being reviewed by officials in response to the letter by Attorney N. Zeliff.

Sincerely,

Jim McKeown, WA6IO ”

END of e-mail

AD	REGULATING TANK	A1	FEEDTHROUGH PLATE #1
AE	INNER VAULT, LIGHTNING GND BUS BAR	A2	FEEDTHROUGH PLATE #2
AF	TUBING MOUNTING RACK	A3	FEEDTHROUGH PLATE #3
AG	3/4"x4"x8" TELEPHONE TERMINAL BACKBOARD	A4	FEEDTHROUGH PLATE #4
AH	WIREMOLD RACKWAY	B1	WALL BLOCK FRAME, COLUMNS 1-10
AI	ELECTRICAL WALL HEATER	B2	WALL BLOCK FRAME, COLUMNS 11-20
		B3	WALL BLOCK FRAME, COLUMNS 21-30
		B4	WALL BLOCK FRAME, COLUMNS 31-40
		C	TERMINAL CABINET (30"x18")
		D	DOCUMENT CABINET
		E	VAULT GROUND BUS BAR
		H	VHF BATTERY LVD & SAFETY DISCONNECT
		J	MW BATTERY CIRCUIT BREAKER
		K1	MW BATTERY BANK 1
		K2	MW BATTERY BANK 2 FUTURE
		L	ELECTRICAL PANEL
		M	GENERATOR
		N	OIL SUPPLY RESERVOIR
		P	GENERATOR EXHAUST
		Q	INTAKE
		R	AIR CONDITIONER
		S	INTAKE WITH MOTORIZED LOUVER (36"x30")
		T	EXHAUST FAN
		U	AUTOMATIC TRANSFER SWITCH
		V	INCOMING SERVICE CIRCUIT BREAKER
		W	SERVICE METER
		X	TCP
		Y	WAVEGUIDE PRESSURIZATION DISTRIBUTION MANIFOLD (TYP OF 3)
		Z	CAVITIES (MOUNTED ON CEILING) [2]
		AA	FLUORESCENT LIGHT FIXTURE, 4' LONG
		AB	FLUORESCENT LIGHT FIXTURE, 4' LONG, 0 DEG BALLAST
		AC	FLUORESCENT LIGHT FIXTURE, OUTDOOR



VAULT SPACE	OCCUPANT
1	VHF 12VDC RACK # 1
2	VHF 12VDC RACK # 2
3	
4	
5	
6	
7	RED BLUFF POLICE / RED BLUFF FIRE / NODUS
8	/ / TULSA COUNTY FIRE
9	AIR RESOURCES BOARD EQUIPMENT
10	COF VP / COF VP / COF VP
11	/MP EQUIP./COF (VP) HW REPEATER
12	
13	DOT LOW BAND / CHP-LINE / CHP-REDX BLUE
14	COF LOCAL/ COF AIR GUARD / DWR TELEMETRY
15	
16	
17	DOORPHONE: DIST-2 / CMARS / PABX
18	/ / DOORPHONE: DIST-3
19	MP IN PANEL & CONTROL IN PANEL/MP IN PANEL & DUPLEX
20	/ / 700 MHz TX & RX COMBINING SYSTEM
21	440-470 MHz TX AND RX COMBINING SYSTEM
22	160-174 MHz TX & RX COMBINING SYSTEM
23	150-164 MHz TRANSMITTER COMBINER
24	150-164 MHz RECEIVER MULTICOUPLER
25	DGS TO MW EQUIP. (FUTURE) [5]
26	
27	
28	DGS-TO MW CHARGER #1 23" RACK
29	DGS-TO MW CHARGER #2 23" RACK
30	USRP RADIO EQUIP.
31	USRP RADIO EQUIP.
32	USGS RADIO EQUIP.
33	USGS RADIO EQUIP.
34	ACDE RADIO EQUIP.
35	DGS TO MW EQUIP. (FUTURE)
36	DGS TO MW EQUIP. (FUTURE)
37	DGS-TO MWX
38	DGS-TO REDDING CHP 24V
39	DGS-TO COLBY WITH - 12V RACK
40	DGS-TO REDDING COF & RED BLUFF COF RF
41	DGS-TO RED BLUFF & VNA MWX
42	DGS-TO VNA COF & REDDING AIRPORT RF
43	DGS-TO BACOUS & JACKFELDS
44	DGS-TO ADMIN & TRAFFIC DCS

- NOTES:**
- * DRAWING CHANGES REQUIRE UNIT MANAGER'S APPROVAL.
 - LOW BAND CAVITIES WILL BE INSTALLED OVERHEAD ON THE CEILING.
 - CEILING HEIGHT = 10'-3/4" TO 10'-8 3/4".
 - THIS VAULT AND TOWER CONSTRUCTED UNDER OPDM CONTRACT 0855. FOR BID SPECIFICATIONS AND DRAWINGS REFER TO SCANNED ELECTRONIC DWG'S #504030-001 & #527050-007. THESE DRAWINGS ARE ELECTRONIC FILES ONLY. HARD COPIES ARE NOT MAINTAINED BY THE REFERENCE LIBRARY. TO VIEW OR PRINT ELECTRONIC FILES OBTAIN APPROPRIATE VIEWING SOFTWARE FROM THE REFERENCE LIBRARIAN.
 - FOR MW RACK ELEVATION DRAWING REFER TO DWG. 452220-402.
 - FOR RACK ELEVATION DIAGRAMS FOR VAULT SPACES 1-24, SEE DWG. 452220-008.

TUSCAN BUTTE (CDF) *				DESIGN NUMBER	CDL FILE NUMBER
VAULT LAYOUT FLOOR PLAN				DATE: MGD	UNIT: REI-2
				DATE: 2/22/01	
				SCALE: 3/8"=1'	SHEET 1 OF 2
				PROJECT NUMBER	REV
				P	D 452220-003 A

STATE OF CALIFORNIA - U.S. TELECOMMUNICATIONS CENTER
875 SECOND FLOOR, BLDG. SACRAMENTO, CA 95814-0202

A	DATE	BY	DESCRIPTION	APPROV

TABLE OF CHANGES