

## **Exhibit to KSOF KBOS and KFSO Application For Special Temporary Authority**

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This exhibit presents the technical details of request for Special Temporary Authority ("STA") for an emergency antenna facility at the KHGE(FM) tower for stations KSOF, KBOS, KFSO ("The Stations") after the combined transmitter site of the stations was lost Friday evening 01 October 2021 to a wildfire identified as "The KNP Complex" fire. We are requesting emergency antenna facilities until the licensed site can be accessed, evaluated, and returned to operation as this serves the interests of the public.

### **Antenna Details**

An emergency antenna of a single Scala CLFM-V for **each** station operating with an ERP of 2.5 Kw mounted between 45 and 60 meters above ground on the existing KHGE (FM) tower identified by antenna structure registration number 1012898. As it is not known at this moment in time which specific antenna is operating for an individual station; coverage analysis will assume the highest mounting position for each station (60 Meters), while RF compliance will assume the lowest (45 Meters) position.

### **Spacing Compliance**

Attached as Figure 1 is a contour map demonstrating the proposed STA facilities 60 dBu is wholly contained within that of the licensed facility for each station.

### **Radio Frequency Radiation Study and Statement**

The facilities were evaluated in terms of potential radio frequency radiation exposure at ground level in accordance with OET Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radio frequency Radiation."

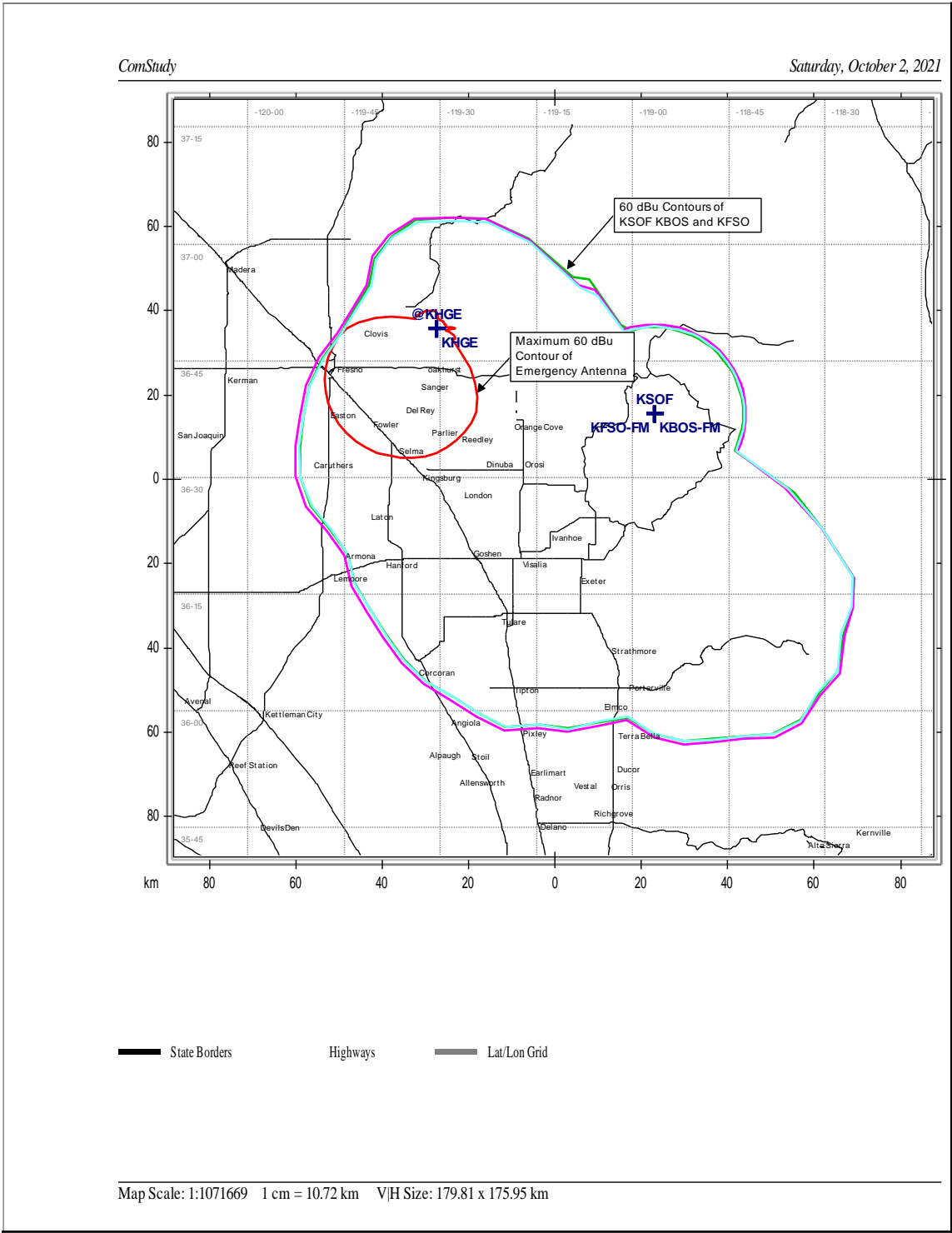
The antenna for each station is an individual Scala CLFM-V, for this analysis it has been assumed the lowest mounted of the 3 antenna is operating with the power of each station combined. Thus a single Scala CLFM-V elements which has been

evaluated using the program "FM Model" set for this type of radiating element; an EPA type 1 "Ring and Stub", mounted with its center of radiation 45 meters above ground level, and operated with an effective radiated power of 7.5 kilowatts in vertical. At 2 meters above ground, at 7.6 meters from the base of the tower, this proposal would contribute worst case, 129 microwatts per square centimeter, or 13 percent of the allowable ANSI limit for controlled exposure, and 65 percent of the allowable limit for uncontrolled exposure. It is therefore believed that this proposal is in compliance with OET Bulletin Number 65 as required by the Federal Communications Commission.

Further, as can be seen in Figure 2 the site is isolated, fenced, and controlled for access. The applicant will see that signs are posted in the vicinity of the tower and boundary fence, warning of potential radio frequency hazards at the site. The site itself is restricted from public access. The applicant will cooperate with other users of the tower to reduce power of the facility, or discontinue operation, as necessary to limit human exposure to levels less than specified by the Federal Communications Commission should anyone be required to climb the tower.

## **Figures and Attachments**

Figure 1 – Antenna Location Spacing Study



**Figure 2 - Image of Transmitter Location**

