

June 2016
FM Translator K269GC
Klamath Falls, Oregon Channel 267D
Allocation Study

Background

The instant application proposes modification of the original construction permit for FM translator K269GC, to operate on the second-adjacent channel at a new transmitter site. The attached contour map demonstrates that there is overlap of the present and proposed 60 dBu contours.

Allocation Study

The attached spacing study shows the spacing between the proposed translator site and the location of cochannel and adjacent channel stations and proposals. This study was made with the Commission's Class A spacing requirements, and individual situations were examined to determine the lack of prohibited contour overlap per the requirements of §74.1204 of the Rules. The attached allocation study map demonstrates compliance with the Commission's Rules for protection of FM broadcast stations and FM translators as outlined in §74.1204.

KLKF 264C2 Malin

The proposed translator transmitter site is located within the 60 dBu protected contour of third-adjacent channel station KLKF 264C2 Malin. The following calculation, performed using the *Living Way* methodology, demonstrates interference protection to that station.

Protected Station	Distance & Bearing to Proposal	Station ERP and HAAT on that azimuth	Station Field Strength at Proposal	Corresponding Translator Interfering Contour	Distance to Translator Interfering Contour
KLKF 264C2	28.19 km 264 deg True	0.8 kW 711 meters	68.9 dBu F(50,50)	108.9 dBu	80 meters Free Space

The attached map of the proposed transmitter site depicts the 108.9 dBu contour from the proposed facility. There is no population within this contour. Therefore, the proposed facility is believed to satisfy the requirements of §74.1204(d) with respect to KLKF.

SEARCH PARAMETERS

FM Database Date: 160601

Channel: 267A 101.3 MHz
 Latitude: 42 4 15
 Longitude: 121 58 20
 Safety Zone: 50 km
 Job Title: KLAMATH FALLS 267

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Call Status	City St	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Dist (km)	Req (km)
K213AI LIC	KLAMATH FALLS OR	BLFT-851101TD	213D 90.5	0.015 DA 119.0	42-14-17 121-46-00	42.3	25.17 0.00	0 TRANS
KLKF LIC	MALIN OR	BLED-60222AAV	264C2 100.7	0.800 674.0	42-05-48 121-37-57	84.0 SS	28.26 -26.74	55 SHORT
K265AI LIC	YREKA CA	BLFT-01108ABW	265D 100.9	0.075 DA 977.0	41-44-04 122-44-48	240.0	74.33 0.00	0 TRANS
KLMD CP MOD	TALENT OR	BMPED-60107AAL	266C2 101.1	5.500 430.0	42-17-57 122-44-56	291.9 SS	68.99 -37.01	106 SHORT
KLMD LIC	TALENT OR	BLH-40117AAG	266A 101.1	0.350 408.0	42-17-52 122-45-00	291.8	69.02 -2.98	72 SHORT
K267AJ LIC	MT. SHASTA CA	BMLFT-50520ACA	267D 101.3	0.013 696.0	41-17-30 122-14-21	194.4	89.35 0.00	0 TRANS
K267AD LIC	CAVE JUNCTION, ETC. OR	BLFT-961030TH	267D 101.3	0.010 DA 806.0	42-15-29 123-39-39	279.1	141.09 0.00	0 TRANS
NEW CP	CHILOQUIN OR	BNPL-31113BRH	268L1 101.5	0.100 -66.0	42-34-03 121-51-46	9.2	55.90 -0.10	56 SHORT
K268BZ LIC	GRANTS PASS, ETC. OR	BLFT-00915AAT	268D 101.5	0.047 420.0	42-28-17 123-18-12	292.6	118.49 0.00	0 TRANS
K268GF LIC	MEDFORD OR	BLFT-40710ABQ	268D 101.5	0.025 DA 710.0	42-17-52 122-45-00	291.8	69.02 0.00	0 TRANS
K269AT LIC	GRENADA CA	BMLFT-50728AUW	269D 101.7	0.007 DA 1027.0	41-36-41 122-37-26	226.8	74.39 0.00	0 TRANS
K269GC CP	KLAMATH FALLS OR	BNPFT-30808ABD	269D 101.7	0.010 DA 720.0	42-05-52 121-38-01	83.8	28.18 0.00	0 TRANS
KCMX-FM LIC	ASHLAND OR	BLH-51128AOB	270C 101.9	42.000 448.0	42-17-55 122-44-53	291.9	68.91 -26.09	95 SHORT

===== END OF FM SPACING STUDY FOR CHANNEL 267 =====

DOUGLAS

KLMD 266C2 Talent
60 dBu F(50,50) CP

KLMD 266A Talent
60 dBu F(50,50) License

JACKSON

New 268L1 Chiloquin
60 dBu F(50,50)

KLAMATH

LAKE

K269GC 267D Proposed
54 dBu F(50,10)

SISKIYOU

MODOC

TRINITY

Klamath Falls 267D 1Adj Study Map

0 20 40 60



Kilometers

Hatfield & Dawson

6/2016

DOUGLAS

LAKE

KLAMATH

JACKSON

K269GC 267D Proposed
100 dBu F(50,10)
220m radius
not visible at this scale

SISKIYOU

MODOC

KCMX-FM 270C Ashland
60 dBu F(50,50)

TRINITY

Klamath Falls 267D 3Adj Study Map

0 20 40 60

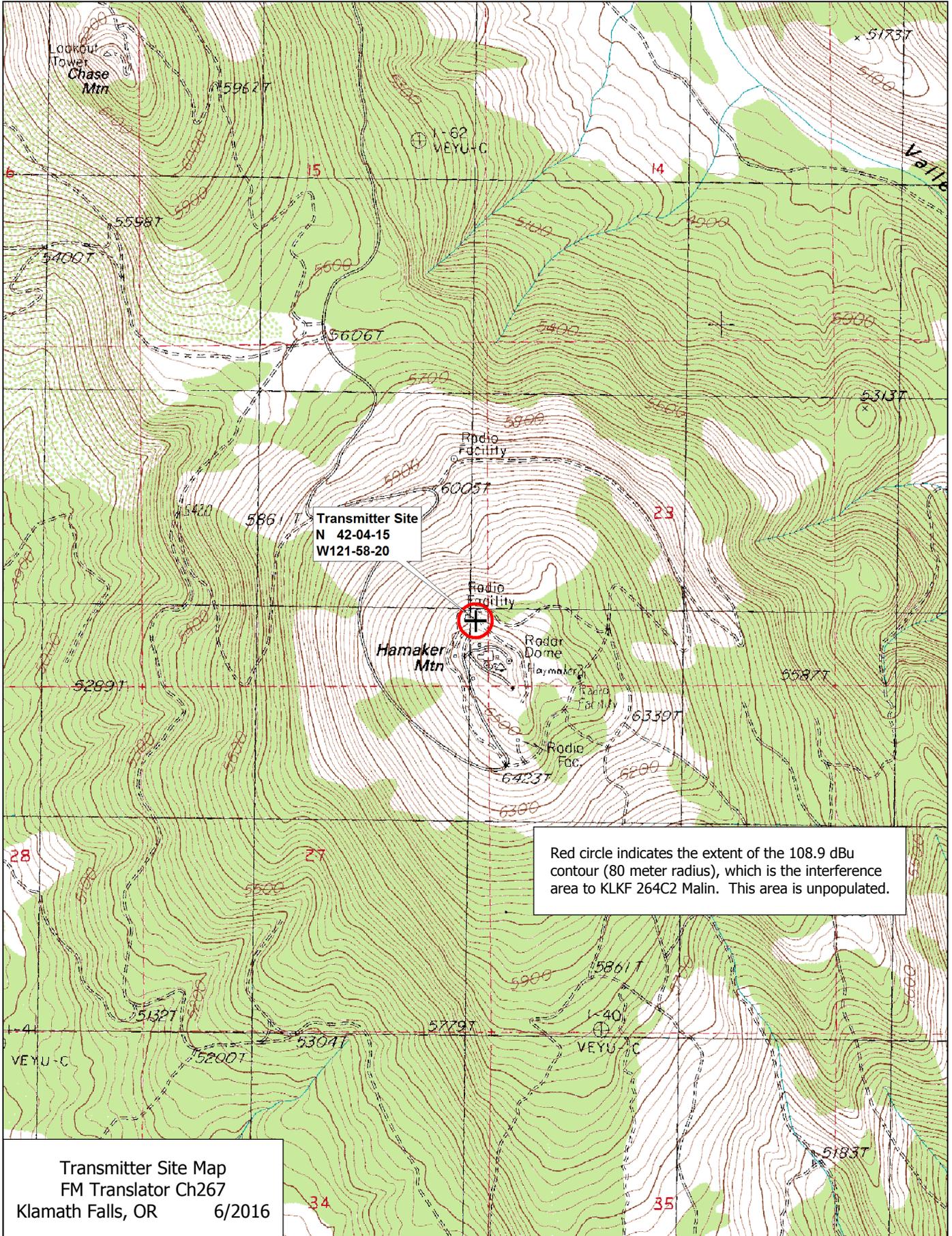


Kilometers

Hatfield & Dawson

6/2016

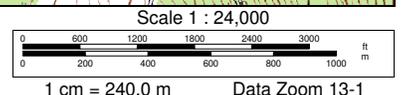
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FM Translator K269GC
Klamath Falls, Oregon Channel 267D
RF Exposure Study

Facilities Proposed

The proposed operation will be on Channel 267D (101.3 MHz) with an effective radiated power of 10 watts. Operation is proposed with an antenna to be mounted on an existing tower on Hamaker Mountain.

The proposed antenna support structure will not exceed 60.96 meters (200 feet) above ground and does not require notification to the Federal Aviation Administration. Therefore, this structure does not require an Antenna Structure Registration Number.

RF Exposure Calculations

Section 1.1307(b)(1) of the Commission's Rules exempts FM translators and boosters operating with an effective radiated power of 100 watts or less from the requirement to submit an Environmental Assessment to determine compliance with FCC specified guidelines for human exposure to radiofrequency electromagnetic fields. The applicant proposes operation with a maximum lobe effective radiated power of 20 watts (10 watts H + 10 watts V) and therefore no calculations have been submitted. Nonetheless, public access to the site is restricted and all station personnel and contractors are required to follow appropriate safety procedures, including turning off the transmitter if necessary, prior to commencing work on the antenna tower.