

December 2015
FM Translator K285EQ
Reno, Nevada Channel 231D
Allocation Study

The instant application proposes to a minor modification of FM translator K285EQ, to operate on Channel 231D, which is an IF channel to the licensed operation.

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 maps demonstrate compliance with the Commission's Rules for protection of FM broadcast stations and FM translators as outlined in §74.1204. Certain second-adjacent channel considerations are discussed in more detail, below.

The attached spacing study demonstrates compliance with §73.207 of the Commission's Rules regarding spacing restrictions to stations which are 53 or 54 channels removed from the proposed operation.

KZTQ 229A Sun Valley

The proposed translator transmitter site is located within the 60 dBu protected contour of second-adjacent channel station KZTQ 229A Sun Valley. The proposed site is 0.04 km from the KZTQ transmitter site at a bearing of 218 degrees True. Given the KZTQ antenna's 3.6 kW ERP along this radial, KZTQ places a 140.4 dBu contour at the translator transmitter site per a Free Space calculation. The corresponding interfering contour from the translator is $140.4 + 40 = 180.4$ dBu. This contour extends at most 0.1 meters from the translator antenna per a Free Space calculation, and does not reach ground level. There is no population within this contour. Therefore, the proposed facility is believed to satisfy the requirements of §74.1204(d) with respect to KZTQ.

KUUB 233C2 Sun Valley

The proposed translator transmitter site is located within the 60 dBu protected contour of second-adjacent channel station KUUB 233C2 Sun Valley. The proposed site is 0.06 km from the KUUB transmitter site at a bearing of 237 degrees True. Given the KUUB antenna's 50 kW ERP along this radial, KUUB places a 148.3 dBu contour at the translator transmitter site per a Free Space calculation. The corresponding interfering contour from the translator is $148.3 + 40 = 188.3$ dBu. This contour extends less than 0.1 meters from the translator antenna per a Free Space calculation, and does not reach ground level. There is no population within this contour. Therefore, the proposed facility is believed to satisfy the requirements of §74.1204(d) with respect to KUUB.

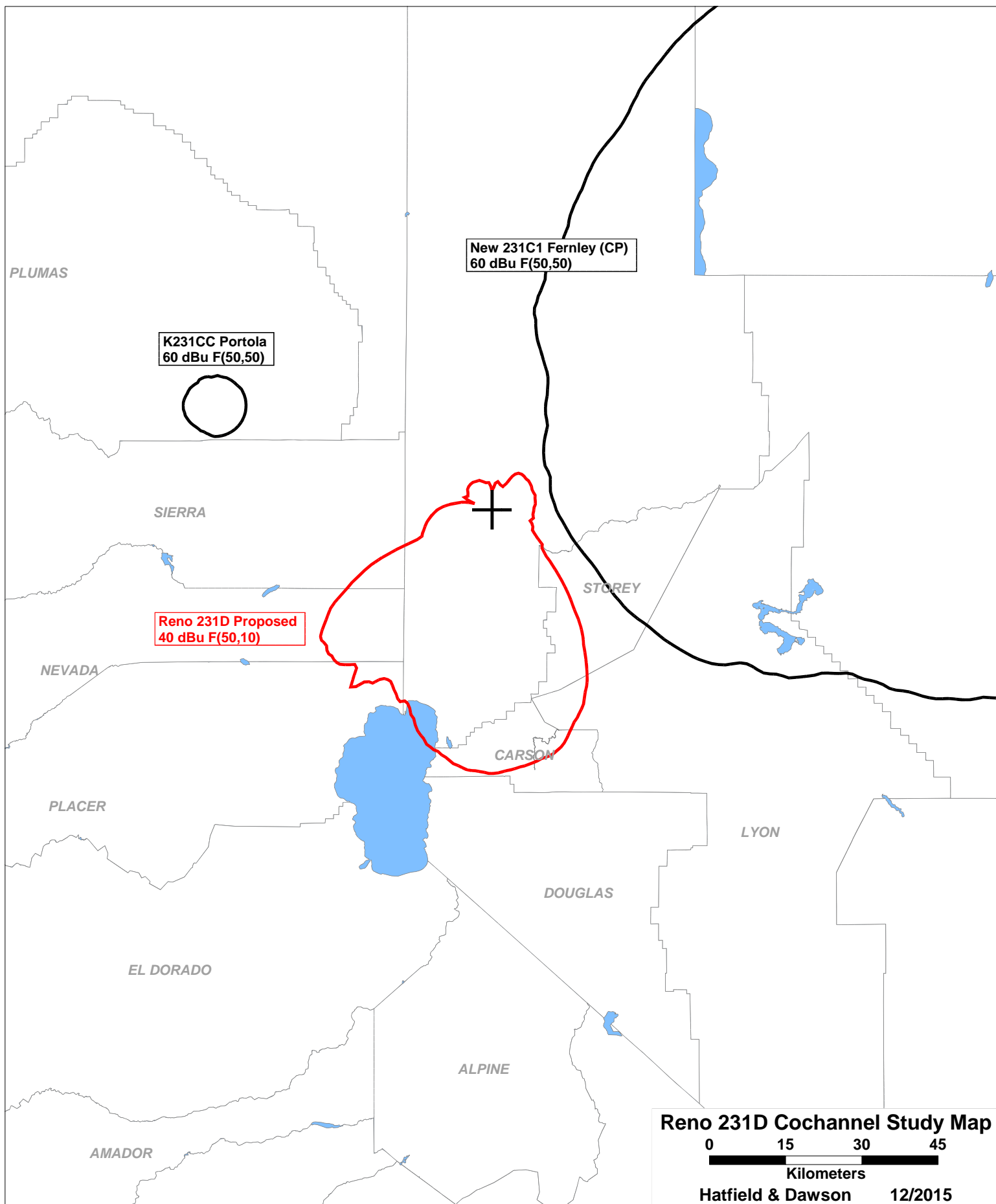
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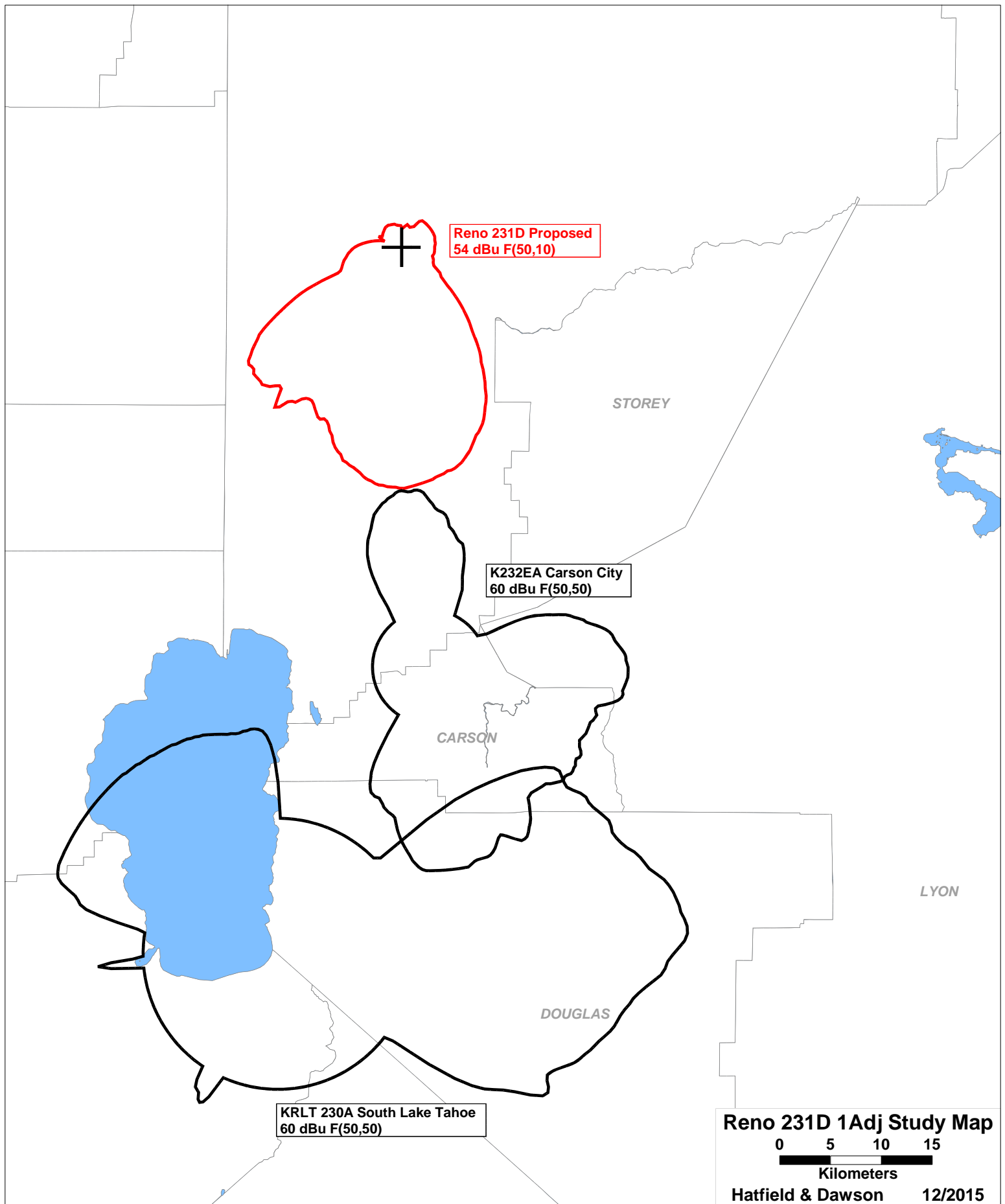
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SEARCH PARAMETERS                      FM Database Date: 151224
Channel: 231A      94.1 MHz                      Page 1
Latitude: 39 35 2
Longitude: 119 47 55
Safety Zone: 50 km
Job Title: RENO 231

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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)
K228DA LIC	GARDNERVILLE ETC. NV	BLFT-90629AAS	228D 93.5	0.025 155.0	39-07-32 119-46-43	178.1	50.91 0.00	0 TRANS
K228DA CP	GARDNERVILLE ETC. NV	BPFT-30326ADJ	228D 93.5	0.075 176.0	38-57-35 119-50-36	183.2	69.40 0.00	0 TRANS
KZTQ LIC	SUN VALLEY NV	BLH-20416AAT	229A 93.7	3.600 DA 129.0	39-35-02 119-47-54	37.6 SS	0.04 -30.96	31 SHORT
KRLT LIC	SOUTH LAKE TAHOE CA	BLH-00208ABR	230A 93.9	3.000 -32.0	38-57-38 119-56-32	190.2 SS	70.30 -1.70	72 SHORT
KAVS-LP LIC	FALLON NV	BLL-50111ABZ	230L1 93.9	0.081 33.2	39-28-04 118-46-24	98.0	89.09 33.09	56 CLEAR
KNCO-FM LIC	GRASS VALLEY CA	BLH-30430AAA	231A 94.1	0.660 299.0	39-14-44 120-57-52	249.8	107.20 -7.80	115 SHORT
K231CC CP	PORTOLA CA	BNPFT-30912ACQ	231D 94.1	0.001 734.0	39-46-09 120-26-08	290.9	58.39 0.00	0 TRANS
NEW CP MOD	FERNLEY NV	BMPH-40919ADR	231C1 94.1	83.000 324.0	39-54-46 118-55-18	63.7 SS	83.56 -116.44	200 SHORT
K232EA LIC	CARSON CITY NV	BLFT-61108AAH	232D 94.3	0.099 370.0	39-12-50 119-46-10	176.5	41.15 0.00	0 TRANS
KUUB LIC	SUN VALLEY NV	BLH-30708ABL	233C2 94.5	50.000 140.0	39-35-02 119-47-53	57.0	0.06 -54.94	55 SHORT
KYHW-LP LIC	GARDNERVILLE NV	BLL-60113AAZ	234L1 94.7	0.100 -108.0	38-54-39 119-43-47	175.4	74.96 45.96	29 CLEAR
K285EQ LIC	RENO NV	BLFT-20808ABH	285D 104.9	0.240 337.0	39-35-02 119-47-55	0.0	0.00 0.00	0 TRANS

===== END OF FM SPACING STUDY FOR CHANNEL 231 =====





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FM Translator K285EQ
Reno, Nevada Channel 231D
RF Exposure Study

Facilities Proposed

The proposed operation will be on Channel 231D (94.1 MHz) with a maximum lobe effective radiated power of 95 watts. Operation is proposed with an antenna to be mounted on an existing tower on Red Peak.

The antenna support structure does 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 95 watts 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.