

**November 2013**  
**FM Translator K284AE**  
**Ashland, Oregon Channel 284D**  
**Allocation Study**

The attached spacing study shows the spacing between the proposed fill-in 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, with the following exceptions:

**K282AY Ashland**

The K284AE transmitter site is located inside the K282AY 60 dBu contour. The attached map of the proposed transmitter site depicts the 100 dBu contour from the proposed facility, which extends at most 627 meters from the antenna per a Free Space calculation. There is no population within this contour. Therefore, the proposed facility is believed to satisfy the requirements of §74.1204(d) with respect to K282AY.

**K284AF Grants Pass**

As depicted on the attached allocation study map, the proposed K284AE 40 dBu interfering contour completely encompasses the 60 dBu protected contour of co-channel K284AF Grants Pass.

K283AE Ashland (the subject of the instant application) and K284AF Grants Pass are both commonly-owned. The original K284AF and K284AE construction permit applications were filed on the same day, March 1, 1995 (see BPFT-19950301TD for K284AE and BPFT-19950301TF for K284AF). The original construction permits were granted by the Commission only one month apart.

From the very start, these two facilities caused co-channel contour overlap to each other. Due to the extremely high and rugged terrain lying between Ashland and Grants Pass, however, these two translators have been able to operate on the same frequency without any significant interference problems. The attached cochannel study map shows that there will be no increase in overlap caused to the K284AF contour. Indeed, while the overlap will remain at 100%, the K284AE contour is distance in the direction of K284AF is being slightly reduced.

It is therefore respectfully requested that K284AE be permitted to continue the 100% contour overlap presently caused to K284AF, with the modified technical facility described herein. This is believed to be acceptable per §74.1204(c) which permits existing overlap to be maintained or reduced, and also per §74.1204(d) which permits overlap where no actual interference will occur due to intervening terrain.

**KFEG 284C1 Klamath Falls**

As depicted on the attached allocation study map, the proposed K284AE 40 dBu interfering contour overlaps the 60 dBu protected contour of co-channel KFEG 284C1 Klamath Falls.

It should be noted, however, that the licensed K284AE facility also causes overlap to KFEG. This situation arose because the original K284AE construction permit was granted over four years prior

to grant of the original KFEG construction permit. To our knowledge, K284AE and KFEG have been able to coexist without harmful interference caused to KFEG since that station's licensing in 2001. This is hardly surprising considering the mountainous terrain separating Ashland from Klamath Falls. Therefore, the proposed facility is believed to be acceptable per §74.1204(c) of the Commission's Rules, which permits existing overlap to be maintained or reduced.

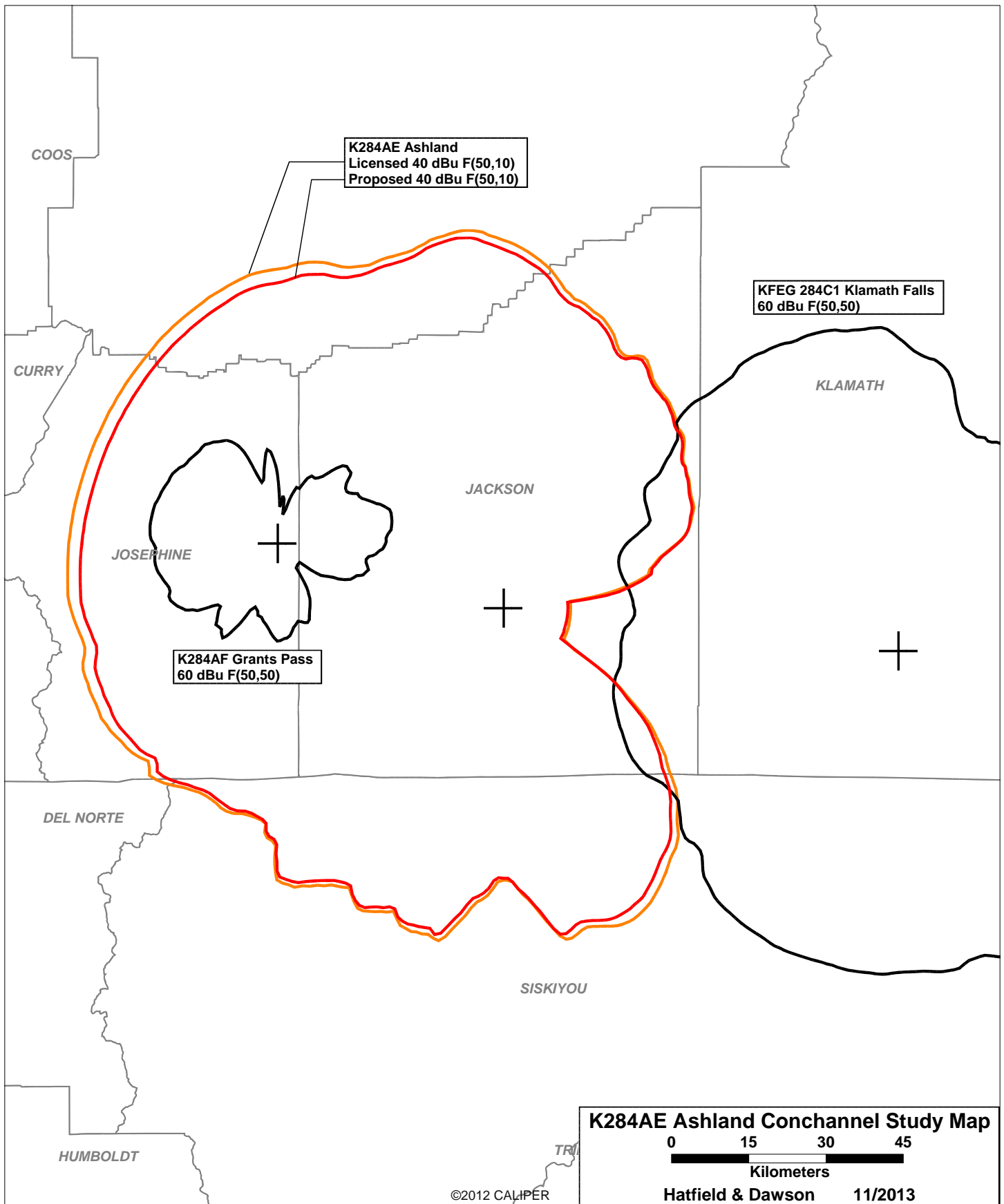
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SEARCH PARAMETERS                               FM Database Date: 131108
Channel: 284A    104.7 MHz                      Page 1
Latitude: 42 17 55
Longitude: 122 44 53
Safety Zone: 50 km
Job Title: K284AE MT BALDY

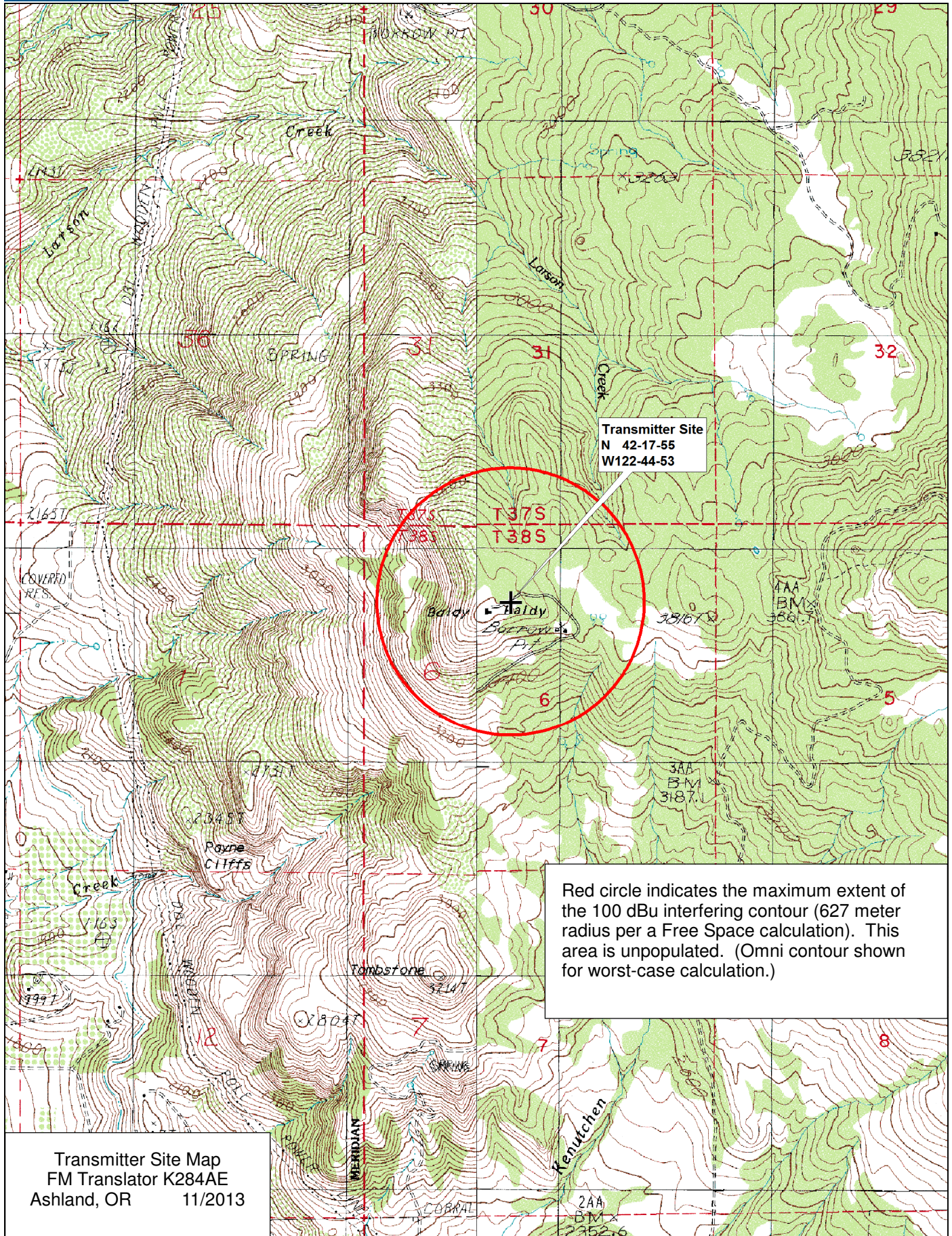
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Call Status	City St	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Dist (km)	Req (km)
K282AY LIC	ASHLAND OR	BLFT-90122ACH	282D 104.3	0.032 725.0	42-17-55 122-44-53	0.0	0.00 0.00	0 TRANS
KKMX LIC	TRI CITY OR	BMLH-930604KA	282C2 104.3	5.600 422.0	43-00-13 123-21-26	327.8	92.89 37.89	55 CLEAR
K283AE LIC	CAVE JUNCTION OR	BLFT-950522TD	283D 104.5	0.011 807.0	42-15-29 123-39-39	266.9	75.43 0.00	0 TRANS
K283AD LIC	ROSEBURG OR	BLFT-941207TH	283D 104.5	0.043 206.0	43-12-24 123-21-47	333.8	112.74 0.00	0 TRANS
KHUM LIC	CUTTEN CA	BLH-30429AEF	284C1 104.7	24.500 504.9	40-43-36 123-58-18	210.6	202.27 2.27	200 CLOSE
K284AE LIC	ASHLAND OR	BLFT-60111AAU	284D 104.7	0.100 716.0	42-17-52 122-45-00	239.9	0.19 0.00	0 TRANS
KDUKaux LIC	FLORENCE OR	BLH-920309KD	284C 104.7	24.000 691.0	44-17-35 123-32-15	344.2	230.65 0.00	0 AUX
KDUK-FM LIC	FLORENCE OR	BLH-70727AIU	284C 104.7	68.000 707.0	44-17-28 123-32-18	344.2	230.46 4.46	226 CLOSE
K284AF LIC	GRANTS PASS OR	BLFT-970404TM	284D 104.7	0.100 554.0	42-24-39 123-16-52	286.1	45.65 0.00	0 TRANS
KFEG LIC	KLAMATH FALLS OR	BLH-10102AAL	284C1 104.7	51.000 196.7	42-13-24 121-49-02	95.9 SS	77.26 -122.74	200 SHORT
K285FH LIC	GLIDE OR	BLFT-50210AUD	285D 104.9	0.010 863.0	43-11-44 123-06-57	343.4	104.09 0.00	0 TRANS
KAKT LIC	PHOENIX OR	BLH-901001KD	286C1 105.1	52.000 166.0	42-25-41 123-00-04	304.8	25.32 -49.68	75 SHORT
NEW-T APP	KLAMATH FALLS OR	BNPFT-30313ARX	287D 105.3	0.023 424.0	42-15-47 121-45-25	92.4	81.85 0.00	0 TRANS

===== END OF FM SPACING STUDY FOR CHANNEL 284 =====



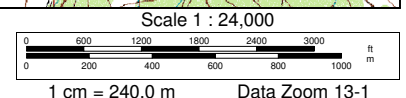




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**November 2013**  
**FM Translator K284AE**  
**Ashland, Oregon Channel 284D**  
**RF Exposure Study**

**Facilities Proposed**

The proposed operation will be on Channel 284D (104.7 MHz) with an effective radiated power of 80 watts. Operation is proposed with a vertically-polarized Scala FMV antenna mounted on an existing structure at Mt. Baldy.

The proposed 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 radiation. The applicant proposes operation with a maximum lobe effective radiated power of 80 atts 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.