

April 2010
LPFM Station KONR-LP
Anchorage, Alaska Channel 287L1
Allocation Study

LPFM station KONR-LP is presently licensed for operation on Channel 285L1 at Anchorage. Owing to the recent activation of station KMOV on Channel 285C1 in the vicinity of Anchorage, it is necessary for KONR-LP to secure authorization on a new channel in order to provide continued service to the public.

The attached spacing study shows that the proposed operation meets the co-channel and adjacent channel spacing requirements for Class L1 stations as prescribed in §73.207 of the Commission's Rules, with the exception of short-spacings to the licensed facility of KNLT 289C1 Anchorage and the licensed and application facilities of KMOV 285C1 Sterling (application at Meadow Lakes).

The KONR-LP licensee has secured letters from the KNLT and KMOV licensees, consenting to grant of the instant application. Those letters are included as attachments to this application.

KNLT 289C1 Anchorage

The proposed LPFM operation will be short-spaced to second-adjacent channel station KNLT on Channel 289C1 at Anchorage. The proposed LPFM transmitter site is located within the 60 dBu protected contour of KNLT, 28.69 km from the KNLT transmitter site at a bearing of 222 degrees True. The 100 dBu interfering contour (i.e. the standard FM second-adjacent-channel interfering contour) from the proposed facility would extend 700 meters from the transmitter site.

However, given the KNLT antenna's 514 meter HAAT and 51 kW ERP along this radial, that station places an 83.6 dBu contour at the LPFM transmitter site. The corresponding interfering contour from the LPFM is $83.6 + 40 = 123.6$ dBu, which (given the anticipated LPFM ERP of 100 watts) extends at most 46 meters from the LPFM transmitting antenna. The area within 46 meters of the tower site is commercial in nature, with primarily transient population.

KMOV 285C1 Sterling (License)

The proposed LPFM operation will be short-spaced to second-adjacent channel station KMOV on Channel 285C1 at Sterling. The proposed LPFM transmitter site is located within the 60 dBu protected contour of KMOV, 11.33 km from the KMOV transmitter site at a bearing of 321 degrees True. The 100 dBu interfering contour (i.e. the standard FM second-adjacent-channel interfering contour) from the proposed facility would extend 700 meters from the transmitter site.

However, given the KMOV antenna's 472 meter HAAT and 45 kW ERP along this radial, that station places a 97.9 dBu contour at the LPFM transmitter site. The corresponding interfering contour from the LPFM is $97.9 + 40 = 137.9$ dBu, which (given the anticipated LPFM ERP of 100 watts) extends at most 9 meters from the LPFM transmitting antenna and does not reach ground level.

KMVV 285C1 Meadow Lakes (Application)

The proposed LPFM operation will be short-spaced to second-adjacent channel station KMVV (application) on Channel 285C1 at Meadow Lakes. The proposed LPFM transmitter site is located within the 60 dBu protected contour of KMVV, 28.74 km from the KMVV transmitter site at a bearing of 222 degrees True. The 100 dBu interfering contour (i.e. the standard FM second-adjacent-channel interfering contour) from the proposed facility would extend 700 meters from the transmitter site.

However, given the KMVV application antenna's 494 meter HAAT and 20 kW ERP along this radial, that facility will place an 79.0 dBu contour at the LPFM transmitter site. The corresponding interfering contour from the LPFM is $79.0 + 40 = 119.0$ dBu, which (given the anticipated LPFM ERP of 100 watts) extends at most 79 meters from the LPFM transmitting antenna. The area within 79 meters of the tower site is commercial in nature, with primarily transient population.

Conclusion

Implementation of the KMVV modification (now licensed as BLH-20080304AAA) has resulted in the displacement of LPFM station KONR-LP. A comprehensive search of the FM band reveals that there is no alternate, fully-spaced, and rule-compliant channel available for the LPFM station.

Based on the preceding analysis, the proposed operation of KONR-LP is predicted to result in only *de minimis* interference to reception of KNLT and KMVV. To the extent necessary, waiver of §73.807 of the Commission's Rules is respectfully requested to allow KONR-LP to operate short-spaced to second-adjacent-channel stations KNLT and KMVV.

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SEARCH PARAMETERS FM Database Date: 100331

Channel: 287L1 105.3 MHz
 Latitude: 61 8 48
 Longitude: 149 52 28
 Safety Zone: 32 km
 Job Title: KONR-LP 287L1

Call Status	City St	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Dist (km)	Req (km)
NEW-T APP	HOPE AK	BNPFT-30317JDQ	233D 94.5	0.099 0.0	60-55-18 149-38-29	153.3	28.06 23.06	5 CLEAR
KZND-FM LIC	HOUSTON AK	BLH-71101ABX	234C2 94.7	15.000 265.0	61-20-12 149-30-45	42.3	28.74 16.74	12 CLEAR
NEW-T APP	GIRDWOOD AK	BNPFT-30317AWO	285D 104.9	0.250 0.0	60-56-46 149-11-42	121.1	42.98 21.98	21 CLEAR
KMVV APP	MEADOW LAKES AK	BPH-00310ACL	285C1 104.9	20.000 262.0	61-20-12 149-30-45	42.3	28.74 -44.26	73 SHORT
KMVV RSV	MEADOW LAKES AK	-	285C1 104.9	0.000 0.0	61-20-12 149-30-45	42.3	28.74 -44.26	73 SHORT
KMVV APP	MEADOW LAKES AK	BPH-00310ACL	285C1 104.9	20.000 276.0	61-20-12 149-30-45	42.3	28.74 -44.26	73 SHORT
KMVV LIC	STERLING AK	BLH-80304AAA	285C1 104.9	45.000 202.0	61-04-02 149-44-36	141.4	11.33 -61.67	73 SHORT
K287AO LIC	HOPE AK	BLFT-70803ADS	287D 105.3	0.099 0.0	60-55-18 149-38-29	153.3	28.06 2.06	26 CLOSE
KKNI CP	STERLING AK	BPH-71108AET	287C3 105.3	7.000 86.5	60-29-19 150-44-43	213.2	87.31 9.31	78 CLOSE
KNLT LIC	ANCHORAGE AK	BLH-10720ABJ	289C1 105.7	51.000 326.0	61-20-11 149-30-48	42.3	28.69 -44.31	73 SHORT

44444 END OF FM SPACING STUDY FOR CHANNEL 287 44444