

REQUEST FOR STA
KYES-DT ANCHORAGE ALASKA
Fireweed Communications LLC

In this group of applications Fireweed Communications LLC (Fireweed) requests special temporary authorization to operate KYES-DT post transition on the same channel as its analog channel (5) from multiple transmitter sites, an extension of time to construct the DTV station, notification that a "flash cut" at the analog cut off date is intended, authority to continue operation of a DTV facility on UHF channel 22, and a waiver of rules as may be required. Multiple transmitter site operation as proposed will allow rapid and less costly construction, and provide replication of analog service. This is not a request for DTx (distributed transmission) as the transmitters may not be synchronized.

**Extraordinary Circumstances Justifying Grant of an STA Application
And Waiver**

KYES-TV is an Alaskan television station. As such, it experiences special difficulties, and should be afforded special consideration¹. KYES is experiencing severe financial hardship, as defined by negative cash flow for the past three years²³. The facility proposed herein better than replicates the presently licensed service, is within the financial means of the station, and will provide comparable service to the original construction permit.

The KYES was the first 8vsb station on the air in Anchorage, operating on UHF channel 22 pursuant to a now elapsed STA. As part of this group of STA applications, KYES is seeking extension of that STA⁴.

KYES sought and received permission to construct a digital facility on channel 6 at the maximum allowable ERP of 45 KW. Use of TV channel 5 at the same ERP is contemplated in its June 2005 channel election form⁵. However, lack of funds has made construction of such a facility impossible at this time.

¹ KINY Associates, 50 R.R. 2D 981,982 (1981), 47 U.S.C 307(f)

² See the Third Periodic Review, paragraph 63.

³ KYES will be filing appropriate financial showings with the FCC in the next few days. In the past few years it has requested and received waiver of the annual regulatory fee.

⁴ KYES's original DTV channel was 22. A facility was constructed and placed into operation in 2003. One other station began broadcasting under STA authority soon thereafter. However, no major network station began broadcasting until late 2005.

⁵ BFRECT-20050114ABN

REPLICATION OF ANALOG SERVICE VIA LOW POWER ON CHANNEL TRANSMITTERS

The Anchorage region is unique in that population is found in isolated "suburban" communities with unpopulated areas between. This, due to bodies of water, military, and inaccessible totally unpopulated mountain and rural areas makes possible service to homes via multiple interfering stations so long as interference falls between population gaps. Since KYES has translators and an LPTV at the four sites proposed herein, relations with, access to, and detailed knowledge of the installations and propagation associated with each site makes practical coverage that exceeds that of the analog station with very low investment⁶. In this case we propose installing four new stations, each one interfering with the others.

Interference reduces **area** covered, but does not significantly reduce population while cost⁷ of is brought within reach of KYES⁸.

ENGINEERING

I have identified the for sites, South to North as K06MF, KOAN-LP, KYES and K12OW, the respective call signs for the existing stations on those sites. All stations are proposed for VHF channel 5. Studies were run using V. Soft, Probe 3 software using an Alaska 3 second database. Coverage maps were prepared for each station using noise and interference limited Longly Rice. There is no other licensee in the TV spectrum that would be affected (no channel 6 or 5 within coordination distance), thus all interference is mutual. Printouts are provided for each station showing total population served without regard to interference, and the reduced population count due to mutual interference.

Call	Pop	ERP KW	HAAT	Antenna	Orient	RCAMSL
K06MF	30,796	.05	102.7	TVO-4	omni	147
KOAN	253,190	.1	147.4	TVO-4	omni	449
KYES	19,973	.02	249.4	CA-2	150	578
K12OW	38,535	.02	748.6	CA-2	117	1386.1
DTV-CP	350,169	45	250	composite	-	-
Analog	315,960	100	250	composite	-	-

⁶Cost can be very low, as Firweed can use on hand LPTV transmitters fitted with transcoders. Costs will be approximately \$1,000 for transmitting antennas, and about \$2,500 for a transcoder. A bandpass output filter can be added for a total of about \$4,500 per transmitter.

⁷ We have seen estimates of DTx transmitters at \$50,000. KYES can use a Larcan Transcoder to feed an on hand analog VHF LPTV transmitters.

⁸ See NPRM, Digital Television Distributed Transmission System Technologies, MB Docket No. 05-312, Nov. 3, 2005.

Total interference free population coverage proposed in this STA request is 342,494, somewhat more than existing analog, but slightly less than full power digital.

The Longly Rice coverage maps show different colors for field strengths of 70 dBu (red), 45 dBu (yellow), 35 dBu (blue) and 28 dBu (green). 28 dBu is minimum field strength assumed to provide rural coverage, 35 is required for community of license coverage (COL). However, we know that in urban areas noise can reduce coverage, therefore we also looked at 45 dBu (10 dB higher than COL requirements) and 70 dBu which we think will penetrate the computer RF fog found in urban office buildings.

RULES WAIVER REQUEST

Rules Fireweed is requesting to be waived:

§ 73.611 (a) (1) Reference points and distance computations.

The reference point for this proposed station should be that of the community of license, not the transmitter site(s).

§ 73.614 (a) Power and antenna height requirements. Minimum Power

Some of the transmitter sites proposed request less than minimum power.

§ 73.616 (d): Requesting extended protection of facilities.

Where the proposed facility covers otherwise white area, the facility should be afforded primary status and protection from interference.

§ 73.623 DTV applications and changes to DTV allotments.

D/U ratios in this rule part are intended to protect other stations. Interference proposed herein is intra-station. This rule should be waived insofar as it might apply to intra-station interference.

§ 73.624 Digital television broadcast stations.

Deadline for construction of facilities: The deadline requested via waiver is the date analog transmission ceases.

§ 73.622 Digital television table of allotments. (c)(1) Availability of channels.

Fireweed seeks a determination that the table of allotments will not restrain future enhancements to provision of services to unserved areas in Alaska.

KYES, Fireweed Communications, Alaska Broadcast Service, and Section 307 (f) of the Communications Act

Section 307 (f) states:

(f) Areas in Alaska without access to over the air broadcasts

Notwithstanding any other provision of law, (1) any holder of a broadcast license may broadcast to an area of Alaska that otherwise does not have access to over the air broadcasts via translator, microwave, or other alternative signal delivery even if another holder of a broadcast license begins broadcasting to such area, (2) any holder of a broadcast license who has broadcast to an area of Alaska that did not have access to over the air broadcasts via translator, microwave, or other alternative signal delivery may continue providing such service even if another holder of a broadcast license begins broadcasting to such area, and shall not be fined or subject to any other penalty, forfeiture, or revocation related to providing such service including any fine, penalty, forfeiture, or revocation for continuing to operate notwithstanding orders to the contrary.

307(f) has two components.

The most restrictive reading of 307(f)(1) holds that a broadcaster to an otherwise unserved areas may continue to broadcast, even if there is another licensee who claims interference or some kind of spectrum priority. This clause limits the holder's special right to its specific zone of broadcast to the unserved area.

307(f)(2) states, a broadcaster who had broadcast to any unserved area in the past may continue to provide "such service" and the broadcaster is exempt from any claim of interference or spectrum priority and it is exempt from any or all of the enforcement measures available to FCC to enforce its rules and regulations.

In crucial respects, (2) is broader than (1). Because the exemption is from all penalties "related to providing such service" it exempts a service provider who only incidentally is providing service to the unserved area, because its service to the served areas is "related". In other words, you can't transmit to the wider area unless you are broadcasting to the narrower area as well. And (2) is broader still, because it not only overrides other claims based on licensing, but it disables FCC regulation altogether.

Fireweed claims is that, under 307(f)(1) and 307 (f) (2), it currently and in the past has served unserved areas, and that service, in a sense, is untouchable.

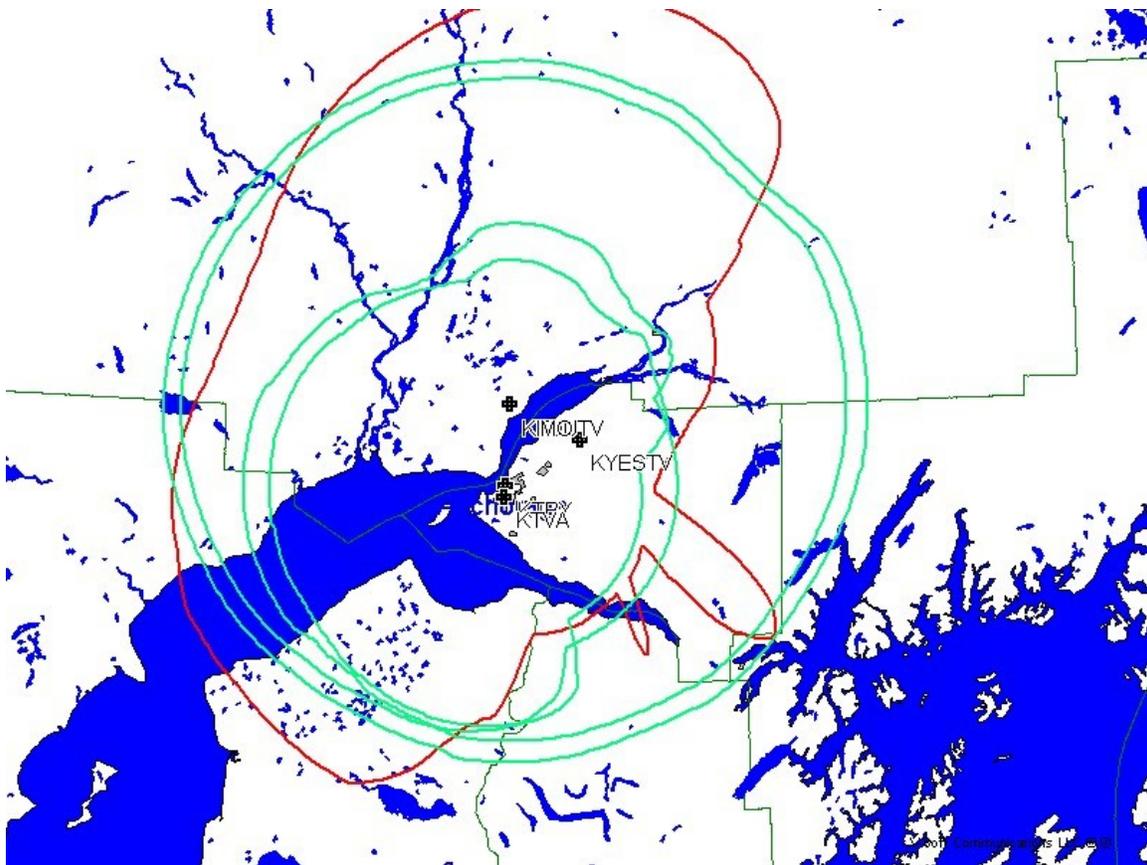
As Fireweed can establish that it previously served these unserved areas then the entire "related" operation stands exempt from later arriving spectrum claimants, even if licensed, and your service may continue unabated regardless of any rule or regulation of the FCC that you may be violating, because all its enforcement tools are barred.

It is the letter and spirit of 307 (f) (2) that assures Fireweed may continue important service without unwarranted FCC interference, no matter the purported reason.

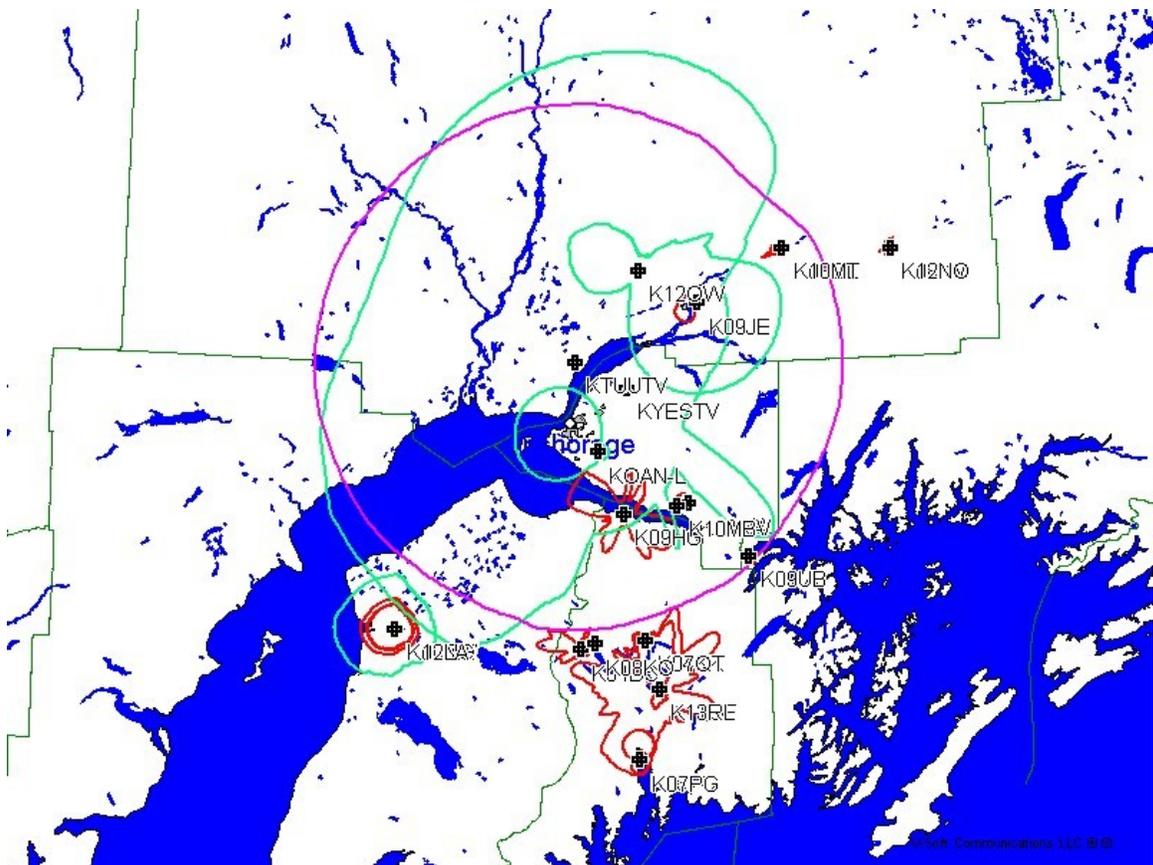
KYES 307 (f) QUALIFICATION

In order for a licensee to qualify under 307 (f) it must "... broadcast to an area of Alaska that did not have access to over the air broadcasts via translator, microwave, or other alternative signal delivery." KYES has and continues to do so. Below find the attached coverage maps showing analog service for (1) All full service television stations in the Anchorage area, (2) all UHF translators in the same area, and (3) all VHF translators in the same area. The maps show protected contours for the relevant facilities.

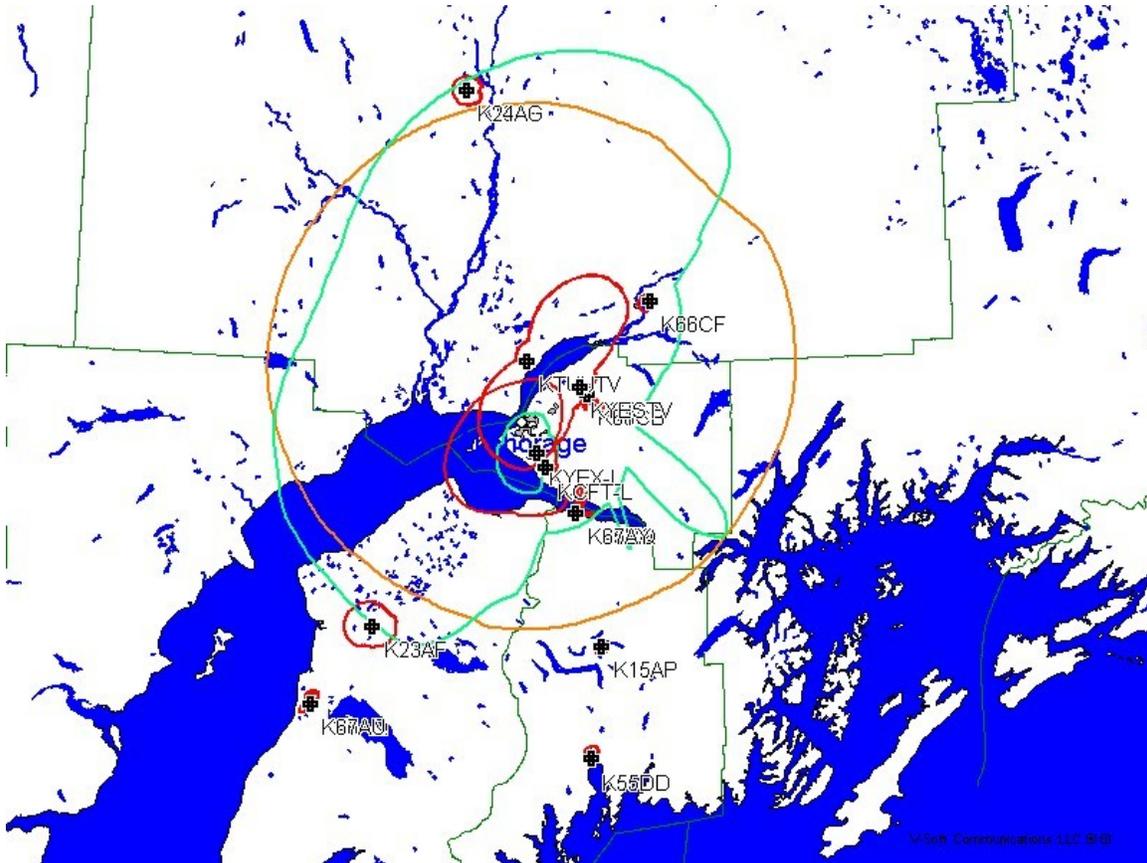
FULL SERVICE PROTECTED CONTOURS KYES CONTOUR IS IN RED



VHF TRANSLATORS SERVICE PROTECTED CONTOURS
FIREWEED CONTOURS ARE GREEN



UHF TRANSLATORS SERVICE PROTECTED CONTOURS
FIREWEED CONTOURS ARE GREEN



It is clear from the maps that KYES has coverage extending beyond that of any other television station, or translator.

The language on of 307 (f) does not address satellite delivery of television directly. Even if 307(f) is construed to include direct to home satellite as “other alternative signal delivery”, Fireweed would still qualify under the law. KYES began broadcasting as shown, at 100 kW ERP, in 1995. Direct to home satellite was not available in Alaska at that time. A 1999 supporting document to that effect is attached, in which it is stated, “The EchoStar V satellite will also provide Alaska and Hawaii with an alternative to cable for the first time ever”. Direct to home satellite was not available in Alaska until

after 1999⁹. The problem of DBS services not serving Alaska was well known to the Commission¹⁰.

Microwave

No microwave video service has existed within the KYES service area since it began broadcasting.

Alternative

Another possible relevance of the term "alternative" might be cable TV. Although cable television is generally available in the urbanized area of the Municipality of Anchorage, and the communities of Palmer, and Wasilla, it is far from pervasive even to this date. In 1995 much of Anchorage did not have access to cable.

OTHER ALASKA EXCEPTIONS

Separately from 307 (f), Commission has determined Alaska broadcasters have a special situation warranting exception to FCC rules. In Wrangel 9 46 RR 2nd 1329 the Commission granted waivers and said, "The State of Alaska contains numerous small, isolated, and remote villages... As a result, television broadcast signals are not readily available off-the-air..." In Evangelistic Missionary Fellowship, 46 RR 1500 the Commission said, "We believe.. the situation in Alaskan markets is unique and that comparison to any other mainland broadcast market is not possible."

Fireweed, doing its utmost to provide a quality video over-the-air service to Alaska must seek extraordinary exemption to various rules and policies of the Commission in order to be economically viable. The Commission is not only allowed, but is directed via 47 USC 307(f) to recognize a special status for Fireweed. At the time KYES first began telecasting at 100 kW ERP in June 1995 it covered area not covered by any other television broadcast signal, satellite, or translator. A coverage map of KYES analog, and all full service TV stations is provided, and another showing KYES and all translator TV stations. Please note significant unique, unduplicated rural coverage area to the north and south not covered by any other signal¹¹.

⁹For example, see article from the Cambridge Telcom Report, August 16, 1999. " **The EchoStar V satellite will also provide Alaska and Hawaii with an alternative to cable for the first time ever.**"

¹⁰For example, see Paragraph 8, Memorandum Opinion and Order Released: April 27, 1998, File No.70-SAT-MP/ML-98, Satellite and Radiocommunication Division, International Bureau, in which the Commission grants a waiver of its DBS rules in order to promote service to Alaska and Hawaii.

¹¹ This request when granted and constructed will reduce coverage to the north, much of which is sole service. KYES operates a UHF station on Mount Susitna which provides service to that area, and a few others that are missed by existing signals. We are investigating promptly converting that equipment and its signal to digital, and operating a temporary analog transmitter

APPLICATIONS PRESENTED HEREWITH AND UNDER PREPARATION

Fireweed is herewith seeking permission to commence construction of four primary service DTV facilities at sites named Site 17, Hillside, Eagle River and Grubstake.

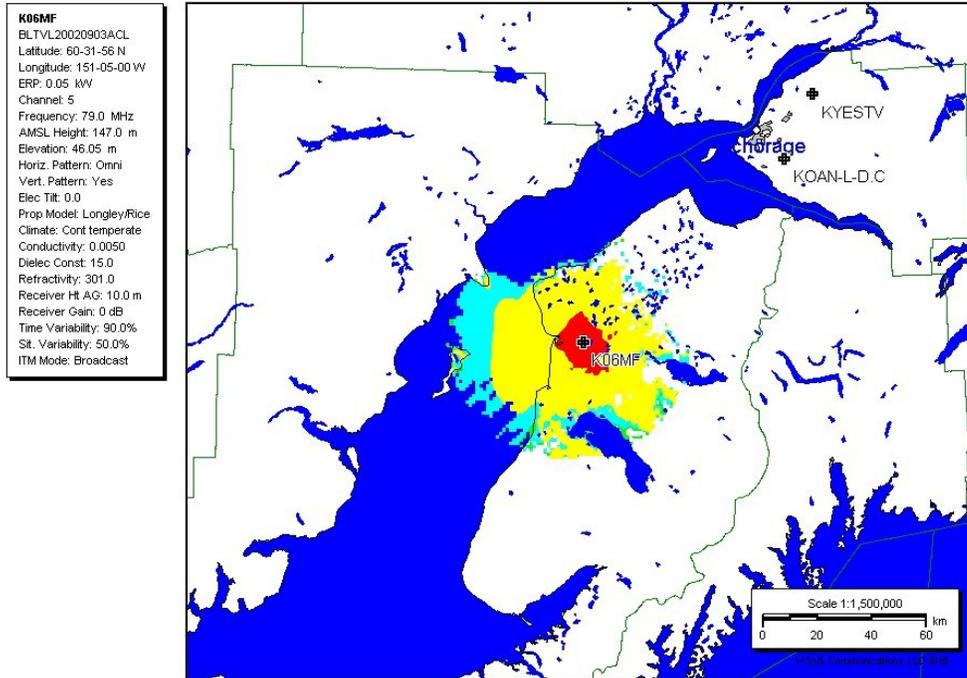
Fireweed is seeking authoriation to continue operation of its present UHF digital TV facility.

Fireweed will prepare an application to greatly extend coverage of its UHF signal via conversion of a transmitter it operates on Mount Susitna.

to fill the northern portion of the KYES analog transmitter. It should be noted that Mount Susitna is a helicopter access only site, with no road, or commercial electricity. Diesel fuel is flown in via Helicopter.

LONGLY RICE COVERAGE MAP AND POPULATION COUNT

SITE 17



This is the present K06MF analog site.

We select this facility to provide service to the central Kenai Borough, including Soldotna, and Kenai. The 45 kW CP for KYES-DT would cover much of this area, which has significant population.

The map shows interference free Longly Rice blocks assuming all other channel 5 transmitters are operating.

Coverage Colors:

Green > 28 dBu
Light Blue > 35 dBu
Yellow > 45 dBu
Red >70 dBu

V-Soft Communications Population Report

K06MF (5) Kenai, Etc., AK - BLTVL20020903ACL
 Lat: 60-31-56 N Lng: 151-05-00 W ERP: 0.05 kW AMSL: 147.0 m
 TV Incoming Interference Study
 Interference Considered Within: Noise Limited FCC Contour
 Signal Resolution: 1.25 km
 LR Profile Spacing Increment: 0.1 km
 Consider NTSC Taboo: No
 KWX error points are considered to
 be interference free coverage.
 # of radials computed for contours: 72
 Contours calculated using 8 radial HAAT.
 Threshold for reception: 28.0
 Pop Centroid DB: 2000 US Census (SF1)

Study Date: 2-16-2008
 TV Database Date: 02-12-08

Primary Terrain: V-Soft 3 Second US Terrain
 Secondary Terrain: V-Soft 3 Second Alaska Terrain

Population Database: 2000 US Census (SF1)

Percentages calculated using a baseline population of 31,085.

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
KYESTV (05Z)	0	0	0.000	1.53
K12OW (5)	9	2	0.006	95.25
KOAN-L-D.C (05)	223	289	0.930	1758.68

Call Letters	City	State	Dist	Bear
KYESTV (05Z)	Anchorage	AK	123.6	42.9
K12OW (5)	Palmer	AK	160.1	33.1
KOAN-L-D.C (05)	Anchorage	AK	99.6	47.8

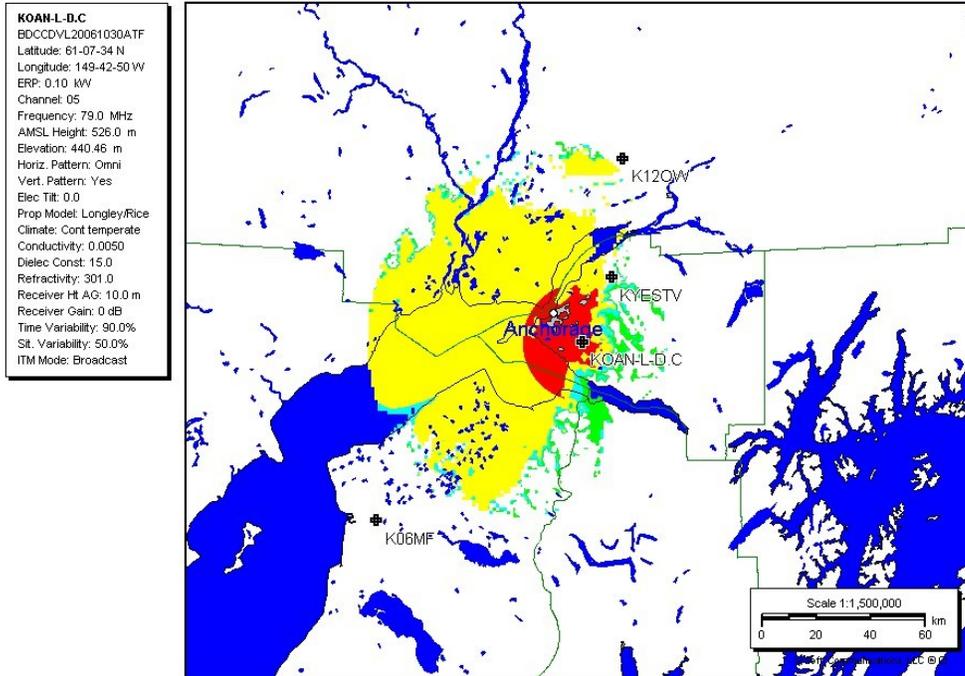
Totals for K06MF (5)

Calculation Area Population:	31,085	(	6044.4 sq. km)
Not Affected by Terrain Loss:	31,085	(	6029.0 sq. km)
Total NTSC Interference:	0	(	1.5 sq. km)
DTV Only Interference:	289	(	1758.7 sq. km)
Total DTV Interference:	289	(	1760.2 sq. km)
Interfered Population:	289	(	1760.2 sq. km)
Interference Free:	30,796	(	4268.8 sq. km)

Percent Interference: 0.93

Terrain Blocked Population:	0	(	15.4 sq. km)
Contour Area Population:	31,084		

LONGLY RICE COVERAGE MAP AND POPULATION COUNT HILLSIDE SITE



This is the present KOAN-LP analog site.

We select this facility to provide service to Anchorage. It is an elevated site, as close to the center of population as can be found. Virtually all the urban area will have in excess of 70 dBu coverage. Extended coverage in excess of 45 dBu includes much of the rural lightly populated or unpopulated terrain missed by the other transmitters.

The map shows interference free Longly Rice blocks assuming all other channel 5 transmitters are operating.

Coverage Colors:

Green > 28 dBu
Light Blue > 35 dBu
Yellow > 45 dBu
Red >70 dBu

V-Soft Communications Population Report

KOAN-L-D.C (05) Anchorage, AK - BDCCDVL20061030ATF
 Lat: 61-07-34 N Lng: 149-42-50 W ERP: 0.1 kW AMSL: 526.0 m
 TV Incoming Interference Study
 Interference Considered Within: Noise Limited FCC Contour
 Signal Resolution: 1.25 km
 LR Profile Spacing Increment: 0.1 km
 Consider NTSC Taboo: No
 KWX error points are considered to
 be interference free coverage.
 # of radials computed for contours: 72
 Contours calculated using 8 radial HAAT.
 Threshold for reception: 28.0
 Pop Centroid DB: 2000 US Census (SF1)

Study Date: 2-16-2008
 TV Database Date: 02-12-08

Primary Terrain: V-Soft 3 Second US Terrain
 Secondary Terrain: V-Soft 3 Second Alaska Terrain

Population Database: 2000 US Census (SF1)

Percentages calculated using a baseline population of 287,599.

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
KYESTV (5)	11711	29229	10.163	1157.48
K06MF (5)	328	645	0.224	489.71
K12OW (5)	2793	6953	2.418	459.65

Call Letters	City	State	Dist	Bear
KYESTV (5)	Anchorage	AK	25.8	24.7
K06MF (5)	Kenai, Etc.	AK	99.6	229.0
K12OW (5)	Palmer	AK	68.6	12.7

Totals for KOAN-L-D.C (05)

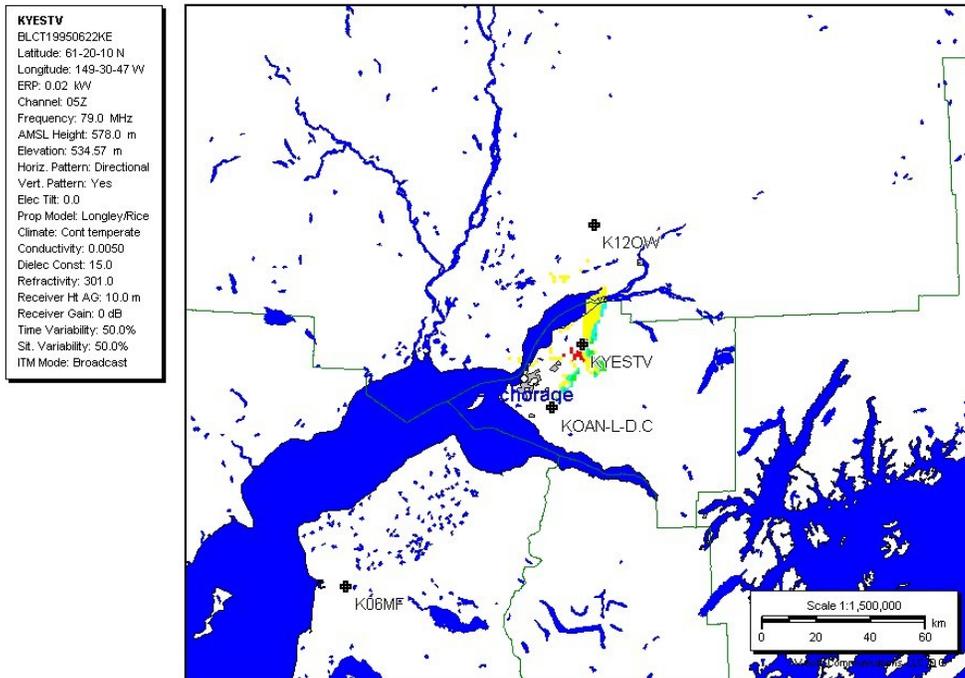
Calculation Area Population:	288,283	(	11305.9 sq. km)
Not Affected by Terrain Loss:	287,599	(	11002.6 sq. km)
Total NTSC Interference:	0	(	0.0 sq. km)
DTV Only Interference:	34,409	(	1773.3 sq. km)
Total DTV Interference:	34,409	(	1773.3 sq. km)
Interfered Population:	34,409	(	1773.3 sq. km)
Interference Free:	253,190	(	9229.4 sq. km)

Percent Interference: 11.96

Terrain Blocked Population:	684	(	303.2 sq. km)
Contour Area Population:	287,618		

LONGLY RICE COVERAGE MAP AND POPULATION COUNT

EAGLE RIVER SITE



This is the present KYES analog site. We select this facility to provide service to the community of Eagle River, which is terrain shielded from other elevated transmitter locations. We try to restrict signal radiation via use of a directional antenna so as to minimize reception impairment in other areas. Eagle River has limited access to land. In other words, Alaska has pockets of population separated by unpopulated land, which makes a multiple lower power transmitter arrangement practical. To the South and West, undeveloped native, military and government land as result in unpopulated areas to the north, west and south.

KYES has use of the site until December 31, 2009, after which the conditional use permit for the site expires. To our knowledge the site owner, Alaska Communication System (ACS), has not requested a modification of that land use permit permit¹².

¹²Call to Planning and Zoning Municipality of Anchorage February 2008.

KYES has access to a tower 250 feet from its present tower (registration number 124756). That tower is unable to support a large antenna structure, and its site has no large equipment shelter. However the new structure is suitable for a small lower power facility, such as requested here. KYES contemplates relocating the transmitter proposed herein to the other tower.

The map shows interference free Longly Rice blocks assuming all other channel 5 transmitters are operating.

Coverage Colors:

Green > 28 dBu

Light Blue > 35 dBu

Yellow > 45 dBu

Red >70 dBu

V-Soft Communications Population Report

KYESTV (05Z) Anchorage, AK - BLCT19950622KE
 Lat: 61-20-10 N Lng: 149-30-47 W ERP: 0.02 kW AMSL: 578.0 m
 TV Incoming Interference Study
 Interference Considered Within: Noise Limited FCC Contour
 Signal Resolution: 1.25 km
 LR Profile Spacing Increment: 0.1 km
 Consider NTSC Taboo: No
 KWX error points are considered to
 be interference free coverage.
 # of radials computed for contours: 72
 Contours calculated using 8 radial HAAT.
 Threshold for reception: 47.0
 Pop Centroid DB: 2000 US Census (SF1)

Study Date: 2-16-2008
 TV Database Date: 02-12-08

Primary Terrain: V-Soft 3 Second US Terrain
 Secondary Terrain: V-Soft 3 Second Alaska Terrain

Population Database: 2000 US Census (SF1)

Percentages calculated using a baseline population of 218,889.

Stations which cause interference:

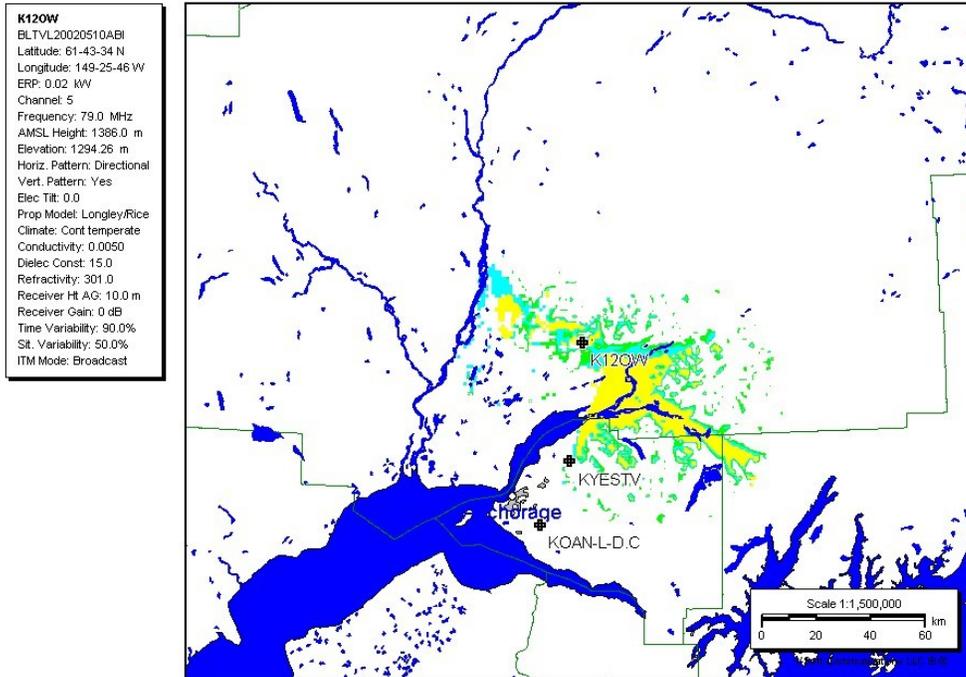
Call Letters	H Units	Population	%	Area (sq. km)
KOAN-L-D.C (05)	78276	198261	90.576	1080.97
K12OW (5)	16043	41474	18.948	411.51
K06MF (5)	76	212	0.097	13.98

Call Letters	City	State	Dist	Bear
KOAN-L-D.C (05)	Anchorage	AK	25.8	204.8
K12OW (5)	Palmer	AK	43.7	5.8
K06MF (5)	Kenai, Etc.	AK	123.6	224.2

Totals for KYESTV (05Z)

Calculation Area Population:	218,983	(	1390.1 sq. km)
Not Affected by Terrain Loss:	218,889	(	1387.0 sq. km)
Total NTSC Interference:	0	(	0.0 sq. km)
DTV Only Interference:	198,916	(	1105.7 sq. km)
Total DTV Interference:	198,916	(	1105.7 sq. km)
Interfered Population:	198,916	(	1105.7 sq. km)
Interference Free:	19,973	(	281.3 sq. km)
Percent Interference:	90.88		
Terrain Blocked Population:	94	(	3.1 sq. km)
Contour Area Population:	219,266		

LONGLY RICE COVERAGE MAP AND POPULATION COUNT
GRUBSTAKE SITE



This is the present K12OW analog site.

We select this facility to provide service to the Matanuska Susitna Borough (Mat-Su), including Houston, Wasilla and Palmer, which is terrain shielded from other elevated transmitter locations. This is a remote helicopter access site, but has a very good view of the intended service area. ERP is kept low so as to not interfere with Anchorage, and due to site diesel generator power limitations. Palmer is terrain shielded and has signal problems from all other television transmitter sites. One community, Knick-River Road is so terrain blocked that it can receive no other broadcast television, including direct to home satellite. Grubstake provides reception to Knick-River Road.

Population from this site is mostly to the South and South West, with no population to the North. A large stretch of unpopulated area separates Mat-Su from Eagle River.

The map shows interference free Longly Rice blocks assuming all other channel 5 transmitters are operating.

Coverage Colors:

Green > 28 dBu

Light Blue > 35 dBu

Yellow > 45 dBu

Red >70 dBu

V-Soft Communications Population Report

K12OW (5) Palmer, AK - BLTVL20020510ABI
 Lat: 61-43-34 N Lng: 149-25-46 W ERP: 0.02 kW AMSL: 1386.0 m
 TV Incoming Interference Study
 Interference Considered Within: Noise Limited FCC Contour
 Signal Resolution: 1.25 km
 LR Profile Spacing Increment: 0.1 km
 Consider NTSC Taboo: No
 KWX error points are considered to
 be interference free coverage.
 # of radials computed for contours: 72
 Contours calculated using 8 radial HAAT.
 Threshold for reception: 28.0
 Pop Centroid DB: 2000 US Census (SF1)

Study Date: 2-16-2008
 TV Database Date: 02-12-08

Primary Terrain: V-Soft 3 Second US Terrain
 Secondary Terrain: V-Soft 3 Second Alaska Terrain

Population Database: 2000 US Census (SF1)

Percentages calculated using a baseline population of 80,550.

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
KOAN-L-D.C (05)	16792	40717	50.549	1846.44
KYESTV (5)	13666	32258	40.047	1257.20
K06MF (5)	0	0	0.000	91.28

Call Letters	City	State	Dist	Bear
KOAN-L-D.C (05)	Anchorage	AK	68.6	192.9
KYESTV (5)	Anchorage	AK	43.7	185.9
K06MF (5)	Kenai, Etc.	AK	160.1	214.5

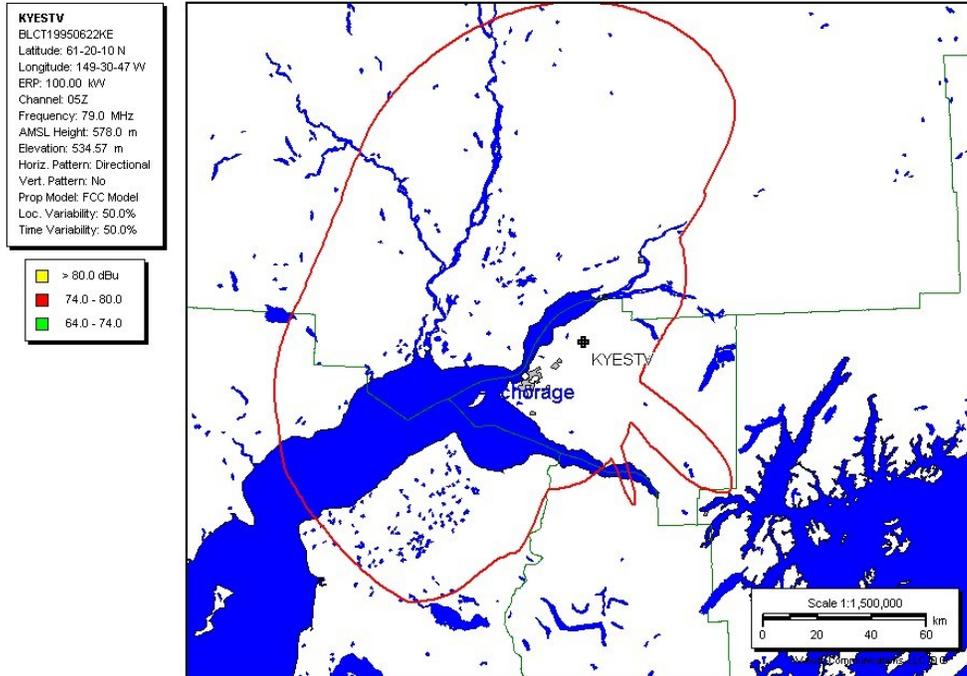
Totals for K12OW (5)

Calculation Area Population:	85,350	(	8542.6 sq. km)
Not Affected by Terrain Loss:	80,550	(	7812.5 sq. km)
Total NTSC Interference:	0	(	0.0 sq. km)
DTV Only Interference:	42,015	(	1925.9 sq. km)
Total DTV Interference:	42,015	(	1926.0 sq. km)
Interfered Population:	42,015	(	1925.9 sq. km)
Interference Free:	38,535	(	5886.6 sq. km)

Percent Interference: 52.16

Terrain Blocked Population:	4,800	(	730.1 sq. km)
Contour Area Population:	85,380		

KYES 100 KW ERP ANALOG F 50/50 COVERAGE



V-Soft Communications Population Report

Population Database: 2000 US Census (SF1)

Primary Terrain: V-Soft 3 Second US Terrain

Secondary Terrain: V-Soft 3 Second Alaska Terrain

Non-interpolated signal was used for this report.

Transmitter Information:

Call Letters: KYESTV

File Number: BLCT19950622KE

Latitude: 61-20-10 N

Longitude: 149-30-47 W

ERP: 100.00 kW

Channel: 05Z

Frequency: 79.0 MHz

AMSL Height: 578.0 m

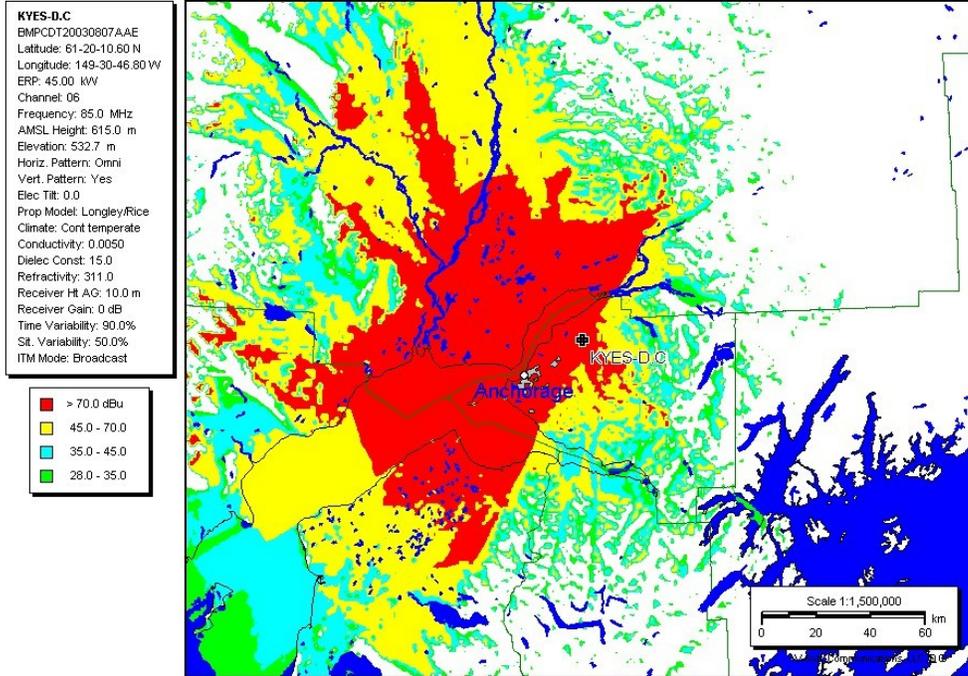
Elevation: 534.57 m
Horiz. Antenna Pattern: Directional
Vert. Elevation Pattern: No
Propagation Model: FCC Model
Location Variability: 50.0%
Time Variability: 50.0%

Population report for KYESTV. Field strength above 47.00 db uV/m.

Total Population: 315,960

Total Housing Units: 123,777

KYES 45 KW DTV ERP LONGLY RICE COVERAGE



V-Soft Communications Population Report

Population Database: 2000 US Census (SF1)

Primary Terrain: V-Soft 3 Second US Terrain

Secondary Terrain: V-Soft 3 Second Alaska Terrain

Transmitter Information:

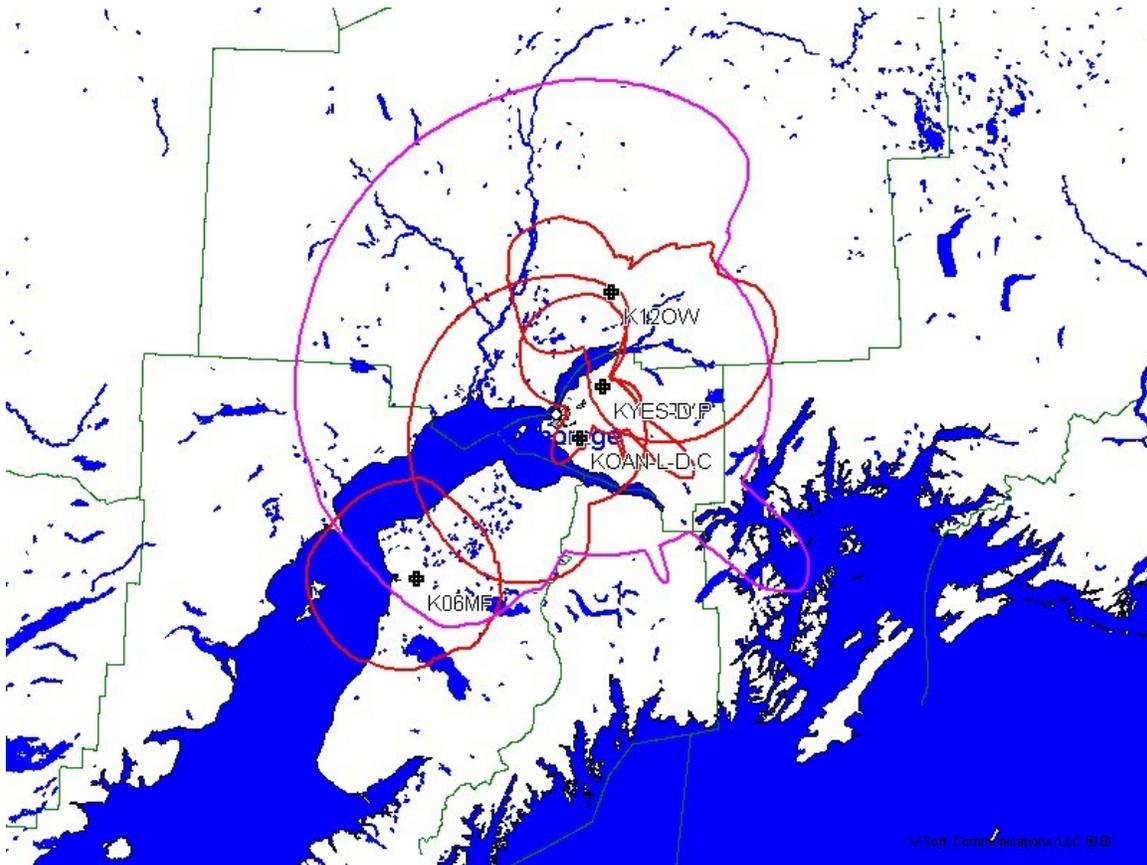
Call Letters: KYES-D.C
File Number: BMPCDT20030807AAE
Latitude: 61-20-10.60 N
Longitude: 149-30-46.80 W
ERP: 45.00 kW
Channel: 06
Frequency: 85.0 MHz
AMSL Height: 615.0 m
Elevation: 532.7 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: Yes
Electrical Beam Tilt: 0.0
Propagation Model: Longley/Rice
Climate: Continental temperate
Conductivity: 0.0050
Dielectric Constant: 15.0
Refractivity: 311.0
Receiver Height AG: 10.0 m
Receiver Gain: 0 dB
Time Variability: 90.0%
Situation Variability: 50.0%
ITM Mode: Broadcast

Population report for KYES-D.C . Field strength above 28.00 db uV/m.

Total Population: 350,169

Total Housing Units: 141,450

PROPOSED AND DTV-CP F(50/90) CONTOURS



Here the sites are labeled according to the Fireweed LPTV call signs, with the exception of the Eagle River KYES site.

K06MF is Site17 serving Kenai and Soldotna in the Central Kenai Borough
KOAN-LP is Hillside serving Anchorage, North Kenai, and other patches.
KYES is Eagle River, serving the community of Eagle River
K12OW is Grubstake, serving Wasilla, Palmer and Houston

FIREWEED TRANSMISSION SITE ON MOUNT SUSITNA LONGLY RICE STUDY USING UHF DTV NOISE LIMITED AND COMMUNIYT OF LICENSE VALUES

This study assumes conversion of the existing transmitter to 8VSM DTV on a UHF channel such as UHF channel 22. The present equipment, transmitter and antenna is capable of operating from channel 22 up to and including channel 29.

This site is an excellent location to fill in white areas (areas that have no other terrestrial television service), that would have been able to receive the 45 KW ERP signal on channel 6 or 5, but will not be served by the signals proposed herein on channel 5, especially to the north of the KYES analog service area.

Fireweed plans to file an appropriate application for this facility in the near future.

