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AUG - 5 2002

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

\*NOT ADMITTED IN VIRGINIA

August 5, 2002

Marlene H. Dortch, Esquire  
Secretary  
Federal Communications Commission  
445 12th Street, S.W., Room TW-B204  
Washington, D.C. 20554

Re: Petition for Rule Making  
Amendment of Television Table of Allotments and  
Digital Television Table of Allotments  
Moscow, Idaho

Dear Ms. Dortch:

Transmitted herewith on behalf of State Board of Education, State of Idaho, licensee of noncommercial educational television station KUID-TV, and permittee of noncommercial educational digital television station KUID-DT, both Moscow, Idaho, are an original and four copies of its "Petition for Rule Making" to modify the television Table of Allotments and the digital television Table of Allotments to exchange the currently assigned analog and digital channels.

Should any questions arise concerning this matter, please communicate with this office.

Very truly yours,

Anne Goodwin Crump

Enclosure

- cc: Ms. Barbara Kreisman (with enclosure) **By Hand Delivery and E-Mail**
- Mr. Clay Pendarvis (with enclosure) **By Hand Delivery and E-Mail**
- Mr. Keith Larson (with enclosure) **By Hand Delivery and E-Mail**
- Mr. John Morgan (with enclosure) **By Hand Delivery and E-Mail**

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02-190

BEFORE THE

Federal Communications Commission

WASHINGTON, D.C. 20554

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AUG - 5 2002

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

In the Matter of )  
)  
Amendment of Section 73.606(b), )  
Table of Allotments, )  
Television Broadcast Stations, and )  
Amendment of Section 73.622(b), )  
Table of Allotments, )  
Digital Television Broadcast Stations. )  
(Moscow, Idaho) )

MM Docket No. \_\_\_\_\_  
RM- \_\_\_\_\_

Directed to: Chief, Video Division

**PETITION FOR RULE MAKING**

State Board of Education, State of Idaho, which operates under the name of Idaho Public Television ("Idaho PTV"), and is licensee of noncommercial educational television station KUID-TV and permittee of noncommercial educational digital television station KUID-DT, both Moscow, Idaho, hereby respectfully requests that the Commission amend Section 73.606(b) of its Rules, the Television Table of Allotments, to substitute Channel \*35 for Channel \*12 at Moscow, Idaho, and modify the license for KUID-TV accordingly, and that the Commission amend Section 73.622(b) of its rules, the Digital Television ("DTV") Table of Allotments, to substitute Channel \*12 for Channel \*35, also at Moscow, and to modify the construction permit for KUID-DT accordingly. With respect thereto, the following is stated:

1. In essence, Idaho PTV is proposing to make an early change to the channel it plans to use as its permanent DTV channel after DTV transition by currently making an exchange of its

analog and DTV channels. The relevant portions of Sections 73.606(b) and 73.622(b) of the Commission's rules would be modified as follows:

	<u>Section 73.606(b)</u>	
	<u>Present</u>	<u>Proposed</u>
Moscow, Idaho	*12-	*35

	<u>Section 73.622(b)</u>	
	<u>Present</u>	<u>Proposed</u>
Moscow, Idaho	*35	*12-

As set forth in the attached Engineering Statement, the proposed modified allotments are in compliance with the Commission's technical rules and policies.

2. This proposed channel exchange would serve the public interest in a number of ways. First, it would result in an enormous cost savings for Idaho PTV. Idaho PTV has determined, pursuant to the policies outlined by the Commission, that it will select Channel 12 as its final DTV channel for operations after completion of the DTV transition. Idaho PTV has made this selection because of both technical advantages resulting in a larger service area and operational savings as outline below. Because Idaho PTV has determined that its ultimate DTV channel will be Channel 12, if it is required to begin DTV service on Channel 35, it will be forced to build its DTV facilities twice. It first would need to build a temporary facility on Channel 35, and later would need to build its final DTV facility on Channel 12. Such duplicative construction would be a waste of the scarce resources available to Idaho PTV as a noncommercial educational broadcaster.

3. In addition, operation of a DTV station on Channel 12 as opposed to Channel 35 will also result in tremendous cost savings for electric power. Given the higher power requirements for DTV operation, coupled with the higher power requirements for UHF operation, the

difference is quite significant. The funds thus saved in the area of both construction and operation then could be used to enhance the educational programming offered by Idaho PTV and to expand its local and regional programming. Idaho PTV estimates that the savings would be in the range of \$1 million. Obviously, a savings, or conversely required additional expenditures, of this magnitude would have a significant impact on Idaho PTV's ability to carry out its public service mission. The public interest would therefore directly benefit from the cost savings to be realized.

4. Further, the channel exchange would assist in the promotion of the DTV transition. Because the community of Moscow is located in a relatively remote area surrounded by mountains, the operation of KUID-DT on Channel 12 will provide a real-world demonstration of the signal propagation characteristics of DTV in such mountainous regions. Further, Idaho PTV is, in essence, proposing to take a step which all stations will be required to make at the end of DTV transition in some form, namely that of making the transition to the final DTV channel. Thus, it would provide an early example of how that change can be carried out. At the same time, Idaho PTV will maintain analog service on Channel \*35.

5. Additionally, the provision of new DTV service in an expeditious manner on Channel 12 will encourage viewers in the area to purchase DTV receivers in order to be able to receive the enhanced programming of KUID-DT, with its revolutionary picture and sound quality. Such encouragement is particularly important in smaller television markets such as Moscow. The purchase of more DTV receivers and converters then will encourage the provision of more DTV programming in the area, thereby advancing DTV conversion. Moreover, all of these benefits will be realized without any appreciable loss in PBS service within the area.

WHEREFORE, the premises considered, Idaho PTV hereby respectfully requests that

analog Channel \*35 be substituted for analog Channel \*12- at Moscow and that the license for KUID-TV be modified accordingly, and further request that DTV Channel \*12- be substituted for DTV Channel \*35 at Moscow and that the construction permit for KUID-DT be modified accordingly.

Respectfully submitted,

STATE BOARD OF EDUCATION,  
STATE OF IDAHO

By:   
Anne Goodwin Crump  
Vincent J. Curtis, Jr.

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Arlington, Virginia 22209  
(703) 812-0400

August 5, 2002

PETITION FOR RULE MAKING  
TO EXCHANGE THE NTSC AND DTV  
ALLOTMENTS ON BEHALF OF  
THE STATE BOARD OF EDUCATION, STATE OF IDAHO  
KUID-TV AND KUID-DT, MOSCOW, IDAHO

AUGUST 2002

COHEN, DIPPELL AND EVERIST, P. C.

City of Washington )  
 ) ss  
District of Columbia )

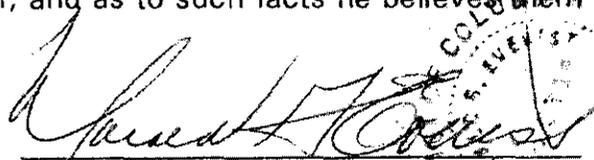
Donald G. Everist, being duly sworn upon his oath, deposes and states that:

He is a graduate electrical engineer, a Registered Professional Engineer in the District of Columbia, and is President of Cohen, Dippell and Everist, P.C., Consulting Engineers, Radio - Television, with offices at 1300 L Street, N.W., Suite 1100, Washington, D.C. 20005;

That his qualifications are a matter of record in the Federal Communications Commission;

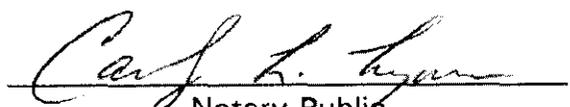
That the attached engineering report was prepared by him or under his supervision and direction and

That the facts stated herein are true of his own knowledge, except such facts as are stated to be on information and belief, and as to such facts he believes them to be true.

  
Donald G. Everist  
District of Columbia  
Professional Engineer  
Registration No. 5714

Subscribed and sworn to before me this 5<sup>th</sup> day of August, 2002.



  
Notary Public

My Commission Expires: 2/28/2003

COHEN, DIPPELL AND EVERIST, P. C.

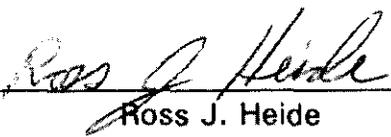
City of Washington            )  
  ) ss  
District of Columbia         )

Ross J. Heide, being duly sworn upon his oath, deposes and states that:

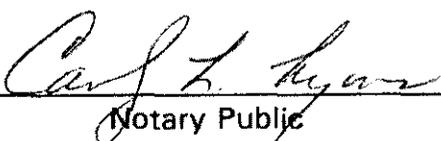
He is a graduate of the Massachusetts Institute of Technology in Operations Research and Management Science, and is a staff engineer of Cohen, Dippell and Everist, P.C., Consulting Engineers, Radio - Television, with offices at 1300 L Street, N.W., Suite 1100, Washington, D.C. 20005;

That the attached engineering report was prepared by him or under his supervision and direction and

That the facts stated herein are true of his own knowledge, except such facts as are stated to be on information and belief, and as to such facts he believes them to be true.

  
\_\_\_\_\_  
Ross J. Heide  
District of Columbia

Subscribed and sworn to before me this 5<sup>th</sup> day of August, 2002.

  
\_\_\_\_\_  
Notary Public

My Commission Expires: 2/28/2003



Introduction

This engineering statement has been prepared on behalf of the State Board of Education, State of Idaho, licensee of KUID-TV, Moscow, Idaho. KUID-TV is currently assigned NTSC Channel 12 and DTV Channel 35 in the respective allotment tables. The licensee is petitioning to interchange its DTV and NTSC channels. Specifically, the licensee is requesting to amend the DTV Table of Allotments [§73.622(b)] by replacing the non-commercial educational (NCE) Channel 35 allotment for Moscow, ID with NCE Channel 12. This request would also amend the (NTSC) Table of Allotments [§73.606(b)] by replacing NCE Channel 12, Moscow, ID with NCE Channel 35. Specifically no new allotments are requested, but merely substitution or an exchange of channels in the allotment tables.

DTV Channel 12 Allotment Parameters

For the purpose of evaluating potential interference, the licensee requests that the following parameters be associated with the new DTV Channel 12 allotment:

North Latitude: 46° 40' 54

West Longitude: 116° 58' 13

NAD-27

R/C AMSL: 1186 meters

ERP: 128.5 kW non-directional

The site coordinates are the same as the current NTSC license and DTV allotment. The ERP is the maximum permitted for the HAAT of 339.7 meters [§73.622(f)(7)(i)]. As shown on

the attached Map 1, the above facilities will cover the license community with the DTV City Grade field strength of 43 dBu F(50,90).

#### DTV Channel 12 Allocation and Interference

The above parameters were used to evaluate potential interference as per §73.623(c). The analysis was done using an adapted version of the FCC's Longley-Rice application processing software with 2 km grid size and 1 km distance increments. Output from this software has proven to correlate closely with that of the FCC's software. Table I lists the stations to be considered as per the FCC guidelines. The predicted new interference is 0.0% in all cases. Also, there is no contour overlap with any Class A stations. Therefore, compliance with the FCC Rules is achieved.

#### DTV Channel 12 International Coordination

The proposed site is 258 km from the Canadian border which is within the 400 km coordination distance. There are no Canadian co-channel stations or allotments within the distances specified in the *Letter of Understanding* ("LOU"): 283 km to Canadian NTSC stations and 259 km to Canadian DTV stations. The first-adjacent channel minimum distances are less than the distance to the Canadian border. Therefore, compliance with *Letter of Understanding* is achieved.

#### NTSC Channel 35 Allotment Parameters

For the purpose of evaluating allocation spacing and potential interference, the licensee requests the following parameters to be associated with the new NTSC Channel 35 allotment:

North Latitude: 46° 41' 07"

West Longitude: 116° 50' 34"

NAD-27

R/C AMSL: 1048 meters

ERP: 320 kW non-directional

The proposed NTSC site is approximately 10 km east of KUID-TV's licensed site.

Map 1 shows that the NTSC City Grade contour [80 dBu F(50,50)] encompasses the community of license.

#### NTSC Channel 35 Allocation and Interference

With the one exception described below, the above site is fully spaced to all NTSC stations and allotments as per §73.610. These separations are shown in Table II. Although not a requirement, the site is also fully spaced relative to all existing DTV stations as per §73.623(d)(2), the spacing requirement for new DTV allotments.

The exception is Class A station KVBI-LP, Channel 42, Clarkston, Washington. The separation is 30.3 km instead of the required 100 km [§73.613(c)]. The N+7 separation is based on potential interference caused by a nearby receiver's oscillator that is tuned to a station seven channels below (KUID-TV, Ch. 35 in this case) when the viewer's receiver is tuned to the desired station (KVBI-LP, Ch. 42).

However, within the KVBI-LP service area, KUID-TV viewers are served by a translator (K55HZ, Lewiston, ID). Viewers do not tune to the offending Channel 35, and therefore, no

PETITION FOR RULE MAKING  
KUID-TV AND KUID-DT

local oscillator interference is caused to viewers of Channel 42. The licensee requests that the 100 km spacing requirement be waived.

Interference to DTV stations was evaluated using the procedure described above. Although not required, Longley-Rice interference was also calculated for potentially affected NTSC stations. Table II shows that the predicted interference is 0.0% in all cases. Therefore, compliance with the FCC Rules is achieved.

NTSC Channel 35 International Coordination

The proposed NTSC site is 257 km from the Canadian border which is within the 400 km coordination distance. The proposed site is fully spaced to all Canadian co-channel stations listed in the LOU. The minimum separation distances for first-adjacent and taboo channels are less than the distance to the border. Therefore, compliance with *the Letter of Understanding* is achieved.

TABLE I  
LONGLEY-RICE INTERFERENCE [73.623(c)] STUDY  
FOR THE PROPOSED  
KUID-DT, CHANNEL 12, MOSCOW, IDAHO  
128.5 KW, 339.7 METERS HAAT  
AUGUST 2002

<u>Station</u>	<u>Distance/Bearing Spacing*</u>	<u>Coordinates NAD-27</u>	<u>Predicted New Interference</u>
KFFX-TV, Ch. 11 Spokane, WA Lic. 316 kW DA 472 M	138 km/356▼ fully-spaced	45▼ 44' 51" 118▼ 02' 11"	0.0%
KUID-TV, Ch. 12 Moscow, ID Lic. 316 kW 346 M	0 km/0▼ same site	46▼ 40' 54" 116▼ 58' 13"	proposed change to NTSC Ch. 35
KTRV(TV), Ch. 12 Nampa, ID Lic. 178 kW 829 M	332 km/168▼ fully-spaced	43▼ 45' 18" 116▼ 05' 52"	0.0%
KTVH(TV), Ch. 12 Helena, MT Lic. 180 kW 711 M	402 km/86▼ fully-spaced	46▼ 49' 35" 111▼ 42' 33"	0.0%
KTVH(TV), Ch. 12 Helena, MT App. 217 kW 711 M	402 km/86▼ fully-spaced	46▼ 49' 35" 111▼ 42' 33"	0.0%
KXLY-DT, Ch. 13 Spokane, WA Allot. 27.3 kW DA 933 M	138 km/356▼ fully-spaced	47▼ 55' 18" 117▼ 06' 48"	0.0%
KXLY-DT, Ch. 13 Spokane, WA Lic. 23.3 kW 936 M	138 km/356▼ fully-spaced	47▼ 55' 18" 117▼ 06' 48"	0.0%
KTVR(TV), Ch. 13 La Grande, OR Lic. 7.2 kW 787 M	163 km/201▼ fully-spaced	45▼ 18' 35" 117▼ 43' 57"	0.0%
KTVR-TV, Ch. 13 La Grande, OR CP 100 kW 780 M	163 km/201▼ fully-spaced	45▼ 18' 35" 117▼ 43' 57"	0.0%

No contour overlap to any Class A stations.

Source: CDBS 7/25/02

\*Although not required for existing allotments, the separations shown are based upon spacing for new DTV allotments [§73.623(d)(2)].

TABLE II  
LONGLEY-RICE INTERFERENCE [73.623(c)] STUDY  
FOR THE PROPOSED  
KUID-TV, CHANNEL 35, MOSCOW, IDAHO  
320 KW, 296 METERS HAAT  
AUGUST 2002

<u>Station</u>	<u>Distance/Bearing Spacing*</u>	<u>Coordinates NAD-27</u>	<u>Predicted New Interference</u>
KUID-DT, Ch. 35 Moscow, ID Allot. 805 kW 346 M	9.8 km/268▼	46▼ 40' 54" 116▼ 58' 13"	proposed change to Ch. 12
KUID-DT, Ch. 35 Moscow, ID CP 50 kW 300 M	9.8 km/268▼	46▼ 40' 54" 116▼ 58' 13"	proposed change to Ch. 12
KAPP(TV), Ch. 35 Yakima, WA Lic. 646 kW 293 M	281.5 km/268▼ fully-spaced	46▼ 31' 57" 120▼ 30' 37"	0.0%**
KSKN-DT, Ch. 36 Spokane, WA Allot. 50 kW DA 429 M	107.5 km/342▼ fully-spaced	47▼ 36' 04" 117▼ 17' 53"	0.0%
KSKN-DT, Ch. 36 Spokane, WA CP 250 kW DA 579 M	106.8 km/341▼ fully-spaced	47▼ 35' 41" 117▼ 17' 53"	0.0%
KVBI-LP, Ch. 42 Clarkston, WA Class A 2.61 kW DA	30.3 km/211▼ short-spaced (100 km exclusion)	46▼ 27' 04" 117▼ 02' 47"	0.0%**
DTV Allotment, Ch. 35 Castlegar, BC Canadian Class B	299 km/348▼ fully-spaced	49▼ 19' 00" 117▼ 40' 00"	N/A

No contour overlap to any Class A stations.

\*Basis for spacing requirements: NTSC to Domestic NTSC, §73.610(b); NTSC to Class A, §73.613; NTSC to Canadian stations, *Letter of Understanding* and 1994 Working Agreement; NTSC to DTV, although not a requirement, the separations used are for new DTV allotments to NTSC §73.623(d)(2).

\*\*Although Longley-Rice is not generally used for NTSC to NTSC allocation situations, the NTSC to NTSC D/U ratios from OET Bulletin 69 were used to demonstrate the absence of any impact.

