



(REFERENCE COPY - Not for submission)

Amendment to a License To Cover for DTS Application

File Number: **BLEDT-20120719ABH** | Submit Date: **07/19/2012** | Call Sign: **KAID** | Facility ID: **62442** | FRN:
0001631738 | State: **Idaho** | City: **BOISE**

Service: **DTS** | Purpose: **License To Cover Amendment** | Status: **Granted** | Status Date: **09/11/2012** | Expiration Date:
10/01/2022 | Filing Status: **Active**

General Information

Section	Question	Response
Attachments	Are attachments (other than associated schedules) being filed with this application?	

Fees, Waivers, and Exemptions

Section	Question	Response
Waivers	Does this filing request a waiver of the Commission's rule(s)?	
	Total number of rule sections involved in this waiver request:	
	Are the frequencies or parameters requested in this filing covered by grandfathered privileges, previously approved by waiver, or functionally integrated with an existing station?	

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
STATE BOARD OF EDUCATION, STATE OF IDAHO Applicant Doing Business As: STATE BOARD OF EDUCATION, STATE OF IDAHO	1455 N. ORCHARD STREET ATTN: RICHARD VAN GENDEREN BOISE, ID 83706 United States	+1 (208) 373-7220	DUTCH@IDAHOPTV.ORG	Other

Authorization Holder Name

Check box if the Authorization Holder name is being updated because of the sale (or transfer of control) of the Authorization(s) to another party and for which proper Commission approval has not been received or proper notification provided.

**Contact
Representatives
(2)**

Contact Name	Address	Phone	Email	Contact Type
RICHARD VAN GENDEREN <i>TECHNOLOGY DIRECTOR</i>	IDAHO PUBLIC TELEVISION 1455 N. ORCHARD STREET BOISE, ID 83706-2239 United States	+1 (208) 373- 7220	DUTCH@IDAHOPTV. ORG	Technical Representative
ANNE GOODWIN CRUMP FLETCHER, HEALD AND HILDRETH, P.L.C.	United States	+1 (703) 812- 0400	CRUMP@FHHLAW. COM	Legal Representative

Alien Ownership

Question	Response
1) Is the applicant a foreign government or the representative of any foreign government as specified in Section 310(a) of the Communications Act?	
2) Is the applicant an alien or the representative of an alien? (Section 310(b)(1))	
3) Is the applicant a corporation, or non-corporate entity, that is organized under the laws of any foreign government? (Section 310(b)(2))	
4) Is the applicant an entity of which more than one-fifth of the capital stock, or other equity or voting interest, is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any entity organized under the laws of a foreign country? (Section 310(b)(3))	
5) Is the applicant directly or indirectly controlled by any other entity of which more than one-fourth of the capital stock, or other equity or voting interest, is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any entity organized under the laws of a foreign country? (Section 310(b)(4))	
6) Has the applicant received a declaratory ruling(s) under Section 310(b)(4) of the Communications Act?	
7) In connection with this application, is the applicant filing a foreign ownership Petition for Declaratory Ruling pursuant to Section 310(b)(4) of the Communications Act?	

Basic Qualifying Questions

Section	Question	Response
Revoked Application	Has the Applicant or any party to this application had any FCC station Authorization revoked or had any application for an initial, modification or renewal of FCC station Authorization denied by the Commission?	
State or Federal Convictions	Has the Applicant or any party to this application, or any party directly or indirectly controlling the Applicant, ever been convicted of a felony by any state or federal court?	

**Channel and
Facility
Information**

Section	Question	Response
Proposed Community of License	Facility ID	62442
	State	Idaho
	City	BOISE
	DTS Channel	21
	Designated Market Area	BOISE
Facility Type	Facility Type	Noncommercial Educational
	Station Type	Main
Zone	Zone	2

DTS Reference Point

Section	Question	Response
Construction Permit File Number and Facility ID	File Number for Current Authorized Service Area:	
	Facility ID	62442
Coordinates (NAD83)	Latitude	43° 45' 20.6" N+
	Longitude	116° 05' 57.4" W-

**Site 1: Antenna
Location Data**

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1042896
Coordinates (NAD83)	Latitude	43° 49' 31.0" N+
	Longitude	116° 30' 32.0" W-
	Structure Type	
	Overall Structure Height	98.5 meters
	Support Structure Height	
	Ground Elevation (AMSL)	960 meters
Antenna Data	Height of Radiation Center Above Ground Level	22.86 meters
	Height of Radiation Center Above Average Terrain	154 meters
	Height of Radiation Center Above Mean Sea Level	982.86 meters
	Effective Radiated Power	0.0929 kW

**Site 1: Antenna
Technical Data**

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	93009
Antenna Manufacturer and Model	Manufacturer:	SCA
	Model	PR-TV-21/50
	Electrical Beam Tilt	Not Applicable
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Horizontal
DTV and DTS: Elevation Pattern	Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?	
	Rotation	0 degrees
	Uploaded file for elevation antenna (or radiation) pattern data	

Directional Antenna Relative Field Values (Pre-rotated Pattern)

Degree	Value	Degree	Value	Degree	Value	Degree	Value
0	0.228	90	0.052	180	0.03	270	0.046
10	0.544	100	0.049	190	0.028	280	0.045
20	0.888	110	0.048	200	0.026	290	0.046
30	0.965	120	0.047	210	0.025	300	0.048
40	0.695	130	0.045	220	0.027	310	0.049
50	0.334	140	0.046	230	0.029	320	0.05
60	0.138	150	0.044	240	0.033	330	0.054
70	0.078	160	0.04	250	0.039	340	0.066
80	0.057	170	0.036	260	0.042	350	0.108

Additional Azimuths

Degree	V _A
27	1
205	0.025

Site 1: Operating Constants

Section	Question	Response
Transmitter and Transmission Line	Transmitter Power Output (TPO): <i>(average power at input to transmission line, after any filter attached to the transmitter, if used)</i>	-26.02 dBk 0.0025 kW
	Transmission Line Loss (LL):	0.8 dB
	Antenna Input Power (AIP):	-26.82 dBk
	Max. Antenna Power Gain (AG)	16.5 dB
	Effective Radiated Power (ERP) <i>(Average Power)</i>	-10.32 dBk 0.0929 kW

Site 2: Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	No
	ASR Number	
Coordinates (NAD83)	Latitude	43° 35' 44.3" N+
	Longitude	116° 08' 39.7" W-
	Structure Type	
	Overall Structure Height	11 meters
	Support Structure Height	
	Ground Elevation (AMSL)	1111 meters
Antenna Data	Height of Radiation Center Above Ground Level	10.5 meters
	Height of Radiation Center Above Average Terrain	50 meters
	Height of Radiation Center Above Mean Sea Level	1121.5 meters
	Effective Radiated Power	0.251 kW

**Site 2: Antenna
Technical Data**

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	93010
Antenna Manufacturer and Model	Manufacturer:	SCA
	Model	PR-TV-21/50
	Electrical Beam Tilt	Not Applicable
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Horizontal
DTV and DTS: Elevation Pattern	Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?	
	Rotation	0 degrees
	Uploaded file for elevation antenna (or radiation) pattern data	

Directional Antenna Relative Field Values (Pre-rotated Pattern)

Degree	Value	Degree	Value	Degree	Value	Degree	Value
0	0.059	90	0.038	180	0.04	270	0.09
10	0.052	100	0.03	190	0.046	280	0.165
20	0.049	110	0.028	200	0.046	290	0.43
30	0.049	120	0.026	210	0.045	300	0.808
40	0.047	130	0.025	220	0.047	310	1
50	0.045	140	0.026	230	0.049	320	0.808
60	0.046	150	0.028	240	0.049	330	0.43
70	0.046	160	0.03	250	0.052	340	0.165
80	0.04	170	0.038	260	0.059	350	0.09

Additional Azimuths

Degree	V _A
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Site 2: Operating Constants

Section	Question	Response
Transmitter and Transmission Line	Transmitter Power Output (TPO): <i>(average power at input to transmission line, after any filter attached to the transmitter, if used)</i>	-21.55 dBk 0.007 kW
	Transmission Line Loss (LL):	1.04 dB
	Antenna Input Power (AIP):	-22.51 dBk
	Max. Antenna Power Gain (AG)	16.5 dB
	Effective Radiated Power (ERP) <i>(Average Power)</i>	-6.00 dBk 0.251 kW

Site 3: Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	No
	ASR Number	
Coordinates (NAD83)	Latitude	43° 35' 44.3" N+
	Longitude	116° 08' 39.7" W-
	Structure Type	
	Overall Structure Height	11 meters
	Support Structure Height	
	Ground Elevation (AMSL)	1111 meters
Antenna Data	Height of Radiation Center Above Ground Level	9 meters
	Height of Radiation Center Above Average Terrain	49 meters
	Height of Radiation Center Above Mean Sea Level	1120 meters
	Effective Radiated Power	0.059 kW

**Site 3: Antenna
Technical Data**

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	93011
Antenna Manufacturer and Model	Manufacturer:	SCA
	Model	4DR-8-2HN
	Electrical Beam Tilt	Not Applicable
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Horizontal
DTV and DTS: Elevation Pattern	Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?	
	Rotation	0 degrees
	Uploaded file for elevation antenna (or radiation) pattern data	

Directional Antenna Relative Field Values (Pre-rotated Pattern)

Degree	Value	Degree	Value	Degree	Value	Degree	Value
0	0.064	90	0.183	180	0.674	270	0.079
10	0.031	100	0.198	190	0.387	280	0.052
20	0.02	110	0.174	200	0.155	290	0.035
30	0.03	120	0.118	210	0.156	300	0.023
40	0.045	130	0.275	220	0.194	310	0.023
50	0.068	140	0.564	230	0.191	320	0.052
60	0.094	150	0.827	240	0.167	330	0.073
70	0.127	160	0.984	250	0.139	340	0.079
80	0.157	170	0.91	260	0.107	350	0.076

Additional Azimuths

Degree	V _A
162	1

Site 3: Operating Constants

Section	Question	Response
Transmitter and Transmission Line	Transmitter Power Output (TPO): <i>(average power at input to transmission line, after any filter attached to the transmitter, if used)</i>	-25.69 dBk 0.0027 kW
	Transmission Line Loss (LL):	1.04 dB
	Antenna Input Power (AIP):	-26.79 dBk
	Max. Antenna Power Gain (AG)	14.5 dB
	Effective Radiated Power (ERP) <i>(Average Power)</i>	-12.29 dBk 0.059 kW

Site 4: Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1209884
Coordinates (NAD83)	Latitude	43° 45' 20.8" N+
	Longitude	116° 05' 57.0" W-
	Structure Type	
	Overall Structure Height	102.4 meters
	Support Structure Height	
	Ground Elevation (AMSL)	2151 meters
Antenna Data	Height of Radiation Center Above Ground Level	93.6 meters
	Height of Radiation Center Above Average Terrain	858 meters
	Height of Radiation Center Above Mean Sea Level	2244.6 meters
	Effective Radiated Power	725 kW

**Site 4: Antenna
Technical Data**

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	93012
Antenna Manufacturer and Model	Manufacturer:	DIE
	Model	TAD-UDC-3-21
	Electrical Beam Tilt	1.1
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Horizontal
DTV and DTS: Elevation Pattern	Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?	
	Rotation	0 degrees
	Uploaded file for elevation antenna (or radiation) pattern data	

Directional Antenna Relative Field Values (Pre-rotated Pattern)

Degree	Value	Degree	Value	Degree	Value	Degree	Value
0	0.201	90	0.186	180	0.919	270	0.908
10	0.112	100	0.298	190	0.994	280	0.817
20	0.017	110	0.438	200	0.956	290	0.805
30	0.023	120	0.576	210	0.834	300	0.837
40	0.027	130	0.708	220	0.762	310	0.818
50	0.044	140	0.808	230	0.766	320	0.725
60	0.03	150	0.83	240	0.841	330	0.589
70	0.026	160	0.815	250	0.957	340	0.468
80	0.101	170	0.832	260	0.988	350	0.339

Additional Azimuths

Degree	V _A
194	1

Site 4: Operating Constants

Section	Question	Response
Transmitter and Transmission Line	Transmitter Power Output (TPO): <i>(average power at input to transmission line, after any filter attached to the transmitter, if used)</i>	11.21 dBk 13.21 kW
	Transmission Line Loss (LL):	0.649 dB
	Antenna Input Power (AIP):	10.559 dBk
	Max. Antenna Power Gain (AG)	18.041 dB
	Effective Radiated Power (ERP) <i>(Average Power)</i>	28.60 dBk 725 kW

**Parties to the
Application (0)**

Information not provided.

Attributable Interest

Section	Question	Response
Equity and Financial Interests	Applicant certifies that equity and financial interests not set forth by the applicant parties are non-attributable.	
Other Authorizations	Does the applicant or any party to the application have an attributable interest in any other broadcast station(s).	

**License
Certifications**

Section	Question	Response
Main Studio Location	The main studio location complies with 47 C.F.R. Section 73.1125.	Yes
	Country	
	PO Box	
	Address Line 1	
	Address Line 2	
	City	
	Province/Region	
	Postal Code	
	Phone	
Constructed Facility	The facility constructed as authorized in the underlying construction permit.	Yes
Special Operating Conditions	The facility was constructed in compliance with all special operating conditions, terms, and obligations described in the construction permit. An exhibit may be required. Review the underlying construction permit.	Yes
Transmitter	The transmitter complies with 47 C.F.R. Section 73.1660.	Yes
Changing Transmitter Power Output	Is this application being filed to authorize a change in transmitter power output caused by the replacement of an omnidirectional antenna with another omnidirectional antenna or an alteration of the transmission line system? See 47 C.F.R. Sections 73.1690(c)(1) and (c)(10).	No
Replacing a Directional Antenna	Is this application being filed pursuant to 47 C.F.R. Section 73.1690(c)(3) to replace a directional antenna with another directional antenna?	No
	The proposed theoretical antenna pattern complies with 47 C.F.R. Section 73.1690(c)(3).	
Use a formerly licensed main facility as an auxiliary facility	Is this application being filed pursuant to 47 C.F.R. Section 73.1675(c)(1) to request authorization to use a formerly licensed main facility as an auxiliary facility and/or change the ERP of the proposed auxiliary facility?	No
	The proposed auxiliary facility complies with 47 C.F.R. Section 73.1675(a).	
	Would a Commission grant of Authorization for this location be an action which may have a significant environmental effect? (See 47 C.F.R. Section 1.1306)	Yes

**Legal
Certifications**

Section	Question	Response
Obligations	Licensee/Permittee certifies that all terms, conditions, and obligations set forth in the underlying construction permit have been fully met.	Yes
	Licensee/Permittee certifies that, apart from changes already reported, no cause or circumstance has arisen since the grant of the underlying construction permit which would result in any statement or representation contained in the construction permit application to be now incorrect.	Yes
Character Issues	Applicant certifies that neither applicant nor any party to the application has or had any interest in, or connection with: (a) any broadcast application in any proceeding where character issues were left in unresolved or were resolved adversely against the applicant or party to the application; or (b) any pending broadcast application in which character issues have been raised.	Yes
Adverse Findings	Has the Applicant or any party to this application had an adverse finding or an adverse final action taken by any court or administrative body in a civil or criminal proceeding brought under any law related to the following: any felony; mass media-related antitrust or unfair competition; fraudulent statements to another governmental unit; or discrimination?	Yes

Certification

Section	Question	Response
<p>General Certification Statements</p>	<p>The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by authorization or otherwise, and requests an Authorization in accordance with this application (See Section 304 of the Communications Act of 1934, as amended.).</p>	
	<p>The Applicant certifies that neither the Applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to §5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. §862, because of a conviction for possession or distribution of a controlled substance. This certification does not apply to applications filed in services exempted under §1.2002(c) of the rules, 47 CFR . See §1.2002(b) of the rules, 47 CFR §1.2002(b), for the definition of "party to the application" as used in this certification §1.2002 (c). The Applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith.</p>	
<p>Authorized Party to Sign</p>	<p>FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID</p> <p>Upon grant of this application, the Authorization Holder may be subject to certain construction or coverage requirements. Failure to meet the construction or coverage requirements will result in automatic cancellation of the Authorization. Consult appropriate FCC regulations to determine the construction or coverage requirements that apply to the type of Authorization requested in this application.</p> <p>WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. Code, Title 18, §1001) AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, §312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, §503).</p>	
	<p>I certify that this application includes all required and relevant attachments.</p>	
	<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>PETER W. MORRILL</p> <p>07/19/2012</p>

Attachments

File Name	Uploaded By	Attachment Type	Description
1514796_10145262.pdf	Applicant	All Purpose	Section III Engineering Technical specifications by DTS site#