

Ottumwa	14c				
Red Oak	*35c				
Sioux City	*28c,	30,	39,	41,	49
Waterloo	*35,	55			

KANSAS

Community	Channel No.				
Colby	15				
Ensign	5c				
Fort Scott	40				
Garden City	17,	18,	*42		
Goodland	14				
Great Bend	22				
Hays	*16,	20			
Hutchinson	19,	*29,	35c		
Lakin	*23				
Lawrence	39c				
Oakley	*40				
Pittsburg	30				
Salina	17c				
Topeka	*23,	26c,	44,	48c	
Wichita	21,	25c,	34c,	45	

KENTUCKY

Community	Channel No.					
Ashland	*26c,	45				
Beattyville	7					
Bowling Green	16,	*18,	33,	*48		
Campbellsville	19					
Covington	*24					
Danville	4					
Elizabethtown	*43					
Harlan	51					
Hazard	12,	*16				
Lexington	20,	40,	*42,	59		
Louisville	8,	*17,	26,	*38,	47,	49,
	55					
Madisonville	20c,	*42				
Morehead	*15,	21				
Murray	*36					

Newport	29		
Owensboro	29		
Owenton	*44		
Paducah	32,	41,	50c
Pikeville	*24		
Somerset	*14		

LOUISIANA

Community	Channel No.					
Alexandria	*26c,	32c,	35			
Baton Rouge	*22,	34c,	42,	45c,	46	
Columbia	57					
Lafayette	16c,	*23c,	28,	56		
Lake Charles	*20,	30c,	53			
Monroe	*19,	55				
New Orleans	*11c,	14,	15,	29,	30,	*31c,
	39c,	43,	50c			
Shreveport	17,	*23c,	28,	34c,	44c	
Slidell	24					
West Monroe	36,	38c				

MAINE

Community	Channel No.		
Augusta	*17		
Bangor	14,	19,	25
Biddeford	*45		
Calais	*15		
Lewiston	39		
Orono	*22c		
Poland Spring	46		
Portland	4,	38,	44
Presque Isle	16,	*20	

MARYLAND

Community	Channel No.					
Annapolis	*42					
Baltimore	*29,	38,	40,	41,	46c,	52,
	59					

Frederick	*28		
Hagerstown	16,	*44,	55
Oakland	*54		
Salisbury	21,	53,	*56

MASSACHUSETTS

Community	Channel No.					
Adams	36					
Boston	*19,	20,	30,	31,	32,	39c,
	42,	*43c				
Cambridge	41					
Lawrence	18					
Marlborough	23					
New Bedford	22,	49				
Norwell	52					
Springfield	33,	55,	*58c			
Vineyard Haven	40					
Worcester	29,	*47c				

MICHIGAN

Community	Channel No.					
Alpena	13,	*57				
Ann Arbor	33					
Bad Axe	*15					
Battle Creek	20,	44c				
Bay City	22					
Cadillac	40,	47,	*58			
Calumet	18					
Cheboygan	14					
Detroit	14,	21c,	41,	*43,	44,	45,
	58					
East Lansing	*55					
Escanaba	48					
Flint	16,	36,	*52			
Grand Rapids	7c,	*11,	19,	39		
Iron Mountain	22					
Jackson	34					
Kalamazoo	2c,	*5,	45			
Lansing	38,	51,	59			
Manistee	*17					

Marquette	*33,	35
Mount Clemens	39c	
Mount Pleasant	*56	
Muskegon	24	
Onondaga	57	
Saginaw	30,	48c
Sault Ste. Marie	49,	56
Traverse City	31,	50
University Center	*18c	
Vanderbilt	59	
West Branch	*24	

MINNESOTA

Community	Channel No.					
Alexandria	14,	24				
Appleton	*31					
Austin	*20,	33				
Bemidji	*18					
Brainerd	*28					
Duluth	17,	33,	*38,	43		
Hibbing	36,	*51				
Mankato	38					
Minneapolis	21,	22c,	*26,	32,	35,	*44c
Redwood Falls	27					
Rochester	36,	46c				
St. Cloud	40c					
St. Paul	*16c,	*34,	50			
Thief River Falls	57					
Walker	20					
Worthington	*15					

MISSISSIPPI

Community	Channel No.	
Biloxi	*35,	36
Booneville	*55	
Bude	*18c	
Columbus	35	
Greenville	17	
Greenwood	*26,	54
Gulfport	48	

Hattiesburg	23c				
Holly Springs	41c				
Jackson	*20,	21,	41c,	51,	52
Laurel	28				
Meridian	25c,	31c,	*47,	49	
Mississippi State	*38				
Natchez	49c				
Oxford	*36				
Tupelo	57				
West Point	16				

MISSOURI

Community	Channel No.					
Birch Tree	*7					
Bowling Green	*50					
Cape Girardeau	22c,	57				
Columbia	22,	36				
Hannibal	29					
Jefferson City	12c,	20				
Joplin	*25c,	43,	46			
Kansas City	14,	*18c,	24,	31c,	34,	42c,
	47,	51c				
King City	*28					
Kirksville	33					
Poplar Bluff	18					
Sedalia	15					
Springfield	19,	*23,	28c,	44,	52	
St. Joseph	21,	53				
St. Louis	14,	26,	31c,	35,	*39,	43,
	56					

MONTANA

Community	Channel No.		
Billings	11,	17,	18
Bozeman	16,	*20	
Butte	2,	15,	19c
Glendive	15		
Great Falls	39,	44,	45
Hardin	19		
Helena	14,	29	

Kalispell	38				
Miles City	13,	*39			
Missoula	*27,	35,	36,	40	

NEBRASKA

Community	Channel No.					
Albion	23c					
Alliance	*24					
Bassett	*15					
Grand Island	19,	32				
Hastings	*14,	21				
Hayes Center	18					
Kearney	35					
Lexington	*26					
Lincoln	25,	31,	*40			
McCook	12					
Merriman	*17					
Norfolk	*16					
North Platte	*16,	22				
Omaha	*17,	20,	22,	38,	43c,	45
Scottsbluff	19,	29				
Superior	34					

NEVADA

Community	Channel No.					
Elko	8,	*15				
Henderson	24					
Las Vegas	2c,	7c,	*11c,	16c,	17,	20c,
	32c					
Paradise	38c					
Reno	*15,	22c,	23,	26c,	32,	33,
	41					
Winnemucca	12					

NEW HAMPSHIRE

Community	Channel No.
Berlin	*15
Concord	33

Derry	35
Durham	*57
Keene	*49c
Littleton	*48c
Manchester	59c
Merrimack	34

NEW JERSEY

Community	Channel No.	
Atlantic City	46,	49
Burlington	27	
Camden	*22c	
Linden	36	
Montclair	*51c	
New Brunswick	*18	
Newark	53c,	61
Newton	8c	
Paterson	40c	
Secaucus	38	
Trenton	*43	
Vineland	66c	
West Milford	*29	
Wildwood	36	

NEW MEXICO

Community	Channel No.					
Albuquerque	16,	*17,	21,	22c,	*25,	26,
	42c,	51c				
Carlsbad	19					
Clovis	20					
Farmington	15					
Gallup	8					
Hobbs	17					
Las Cruces	*23c,	28				
Portales	*32					
Roswell	28c,	38,	41			
Santa Fe	10c,	27,	29			
Silver City	12,	*33				
Socorro	*31					

NEW YORK

Community	Channel No.					
Albany	4,	15,	26			
Amsterdam	50					
Batavia	53					
Binghamton	4,	7,	8,	*42		
Buffalo	14,	*32,	33,	34,	38,	39,
	*43					
Carthage	35					
Corning	50					
Elmira	2,	55				
Garden City	*22c					
Jamestown	27c					
Kingston	21					
New York	*24c,	28,	30c,	33,	44,	45,
	56					
North Pole	14					
Norwood	*23					
Plattsburgh	*38					
Poughkeepsie	27					
Riverhead	57					
Rochester	*16,	28,	45,	58,	59	
Schenectady	*34,	39,	43			
Smithtown	23					
Springville	46					
Syracuse	17,	19,	*25c,	44c,	47,	54
Utica	27,	29,	30			
Watertown	21.	*41				

NORTH CAROLINA

Community	Channel No.				
Asheville	*25,	45,	56,	57	
Belmont	47c				
Burlington	14				
Chapel Hill	*59				
Charlotte	21,	22,	23,	*24,	34
Columbia	*20				
Concord	*44				
Durham	27c,	52			
Fayetteville	36,	38			

Goldsboro	55			
Greensboro	32,	33,	51	
Greenville	10c,	21,	*23	
Hickory	40			
High Point	35			
Jacksonville	34c,	*44		
Kannapolis	50			
Lexington	19c			
Linville	*54			
Lumberton	*25			
Morehead City	24			
New Bern	48			
Raleigh	49c,	53,	57	
Roanoke Rapids	*39			
Rocky Mount	15			
Washington	32			
Wilmington	*29,	30,	46,	54
Wilson	42			
Winston-salem	29,	31,	*43	

NORTH DAKOTA

Community	Channel No.			
Bismarck	16c,	*22,	23,	31
Devils Lake	59			
Dickinson	18,	19,	*20	
Ellendale	*20c			
Fargo	19,	21,	*39,	58
Grand Forks	*56			
Jamestown	14			
Minot	15c,	45,	*57,	58
Pembina	15			
Valley City	38			
Williston	14,	*51,	52	

OHIO

Community	Channel No.		
Akron	30,	*32c,	59
Alliance	*46c		
Athens	*27		
Bowling Green	*56		

Cambridge	*35					
Canton	39,	47				
Chillicothe	46					
Cincinnati	10c,	31,	33,	*34,	35	
Cleveland	2c,	15,	*26c,	31,	34	
Columbus	11c,	13,	14,	36,	*38	
Dayton	39,	41,	50,	51,	*58	
Lima	20,	57				
Lorain	28					
Mansfield	12					
Newark	24					
Oxford	*28					
Portsmouth	17,	*43c				
Sandusky	42					
Shaker Heights	10					
Springfield	18					
Steubenville	57					
Toledo	5,	17,	19,	*29c,	46,	49
Youngstown	20c,	36,	41			
Zanesville	40					

OKLAHOMA

Community	Channel No.					
Ada	26					
Altus	*42					
Bartlesville	14					
Cheyenne	*8					
Claremore	*36c					
Enid	18					
Eufaula	*31					
Guymon	*29					
Lawton	23					
Oklahoma City	15c,	16,	24c,	27,	*32,	33c,
	39,	40,	50,	51c		
Okmulgee	28					
Shawnee	29c					
Tulsa	22c,	*38,	42c,	48c,	49,	55,
	56,	58				

OREGON

Community	Channel No.					
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Bend	*11,	18				
Coos Bay	21,	22c				
Corvallis	*39					
Eugene	14,	17c,	25,	26,	*29c	
Klamath Falls	29,	*33,	40			
La Grande	*5					
Medford	15,	27c,	35,	38,	*42	
Pendleton	4					
Portland	*27,	30,	40,	43,	45,	46
Roseburg	18,	19,	45c			
Salem	20,	33c				

PENNSYLVANIA

Community	Channel No.					
Allentown	46,	*62c				
Altoona	24c,	32,	46c			
Bethlehem	59c					
Clearfield	*15					
Erie	16,	22,	*50,	52,	58	
Greensburg	50					
Harrisburg	4,	*36,	57			
Hazleton	9					
Johnstown	29,	30,	34			
Lancaster	23,	58				
Philadelphia	26,	32,	*34c,	42,	54,	64c,
	67					
Pittsburgh	25,	*26,	*38,	42,	43,	48,
	51					
Reading	25					
Red Lion	30					
Scranton	13,	31,	32,	*41,	49	
Wilkes-barre	11					
Williamsport	29					
York	47					

RHODE ISLAND

Community	Channel No.			
Block Island	17			
Providence	13c,	*21,	51,	54c

SOUTH CAROLINA

Community	Channel No.					
Allendale	*33					
Anderson	14					
Beaufort	*44					
Charleston	35c,	40,	*49,	52,	53,	59
Columbia	8,	17,	*32,	41,	48	
Conway	*58					
Florence	16c,	20c,	*45,	56		
Greenville	*9,	52,	59			
Greenwood	*18					
Hardeeville	27c					
Myrtle Beach	18					
Rock Hill	15,	39				
Spartanburg	43,	53				
Sumter	*28c,	38				

SOUTH DAKOTA

Community	Channel No.					
Aberdeen	*17c,	28				
Brookings	*18					
Eagle Butte	*24					
Florence	25					
Huron	22					
Lead	26,	27				
Lowry	*15					
Martin	*20					
Mitchell	26					
Pierre	19,	*21				
Rapid City	16c,	18,	22c,	*23		
Reliance	14					
Sioux Falls	7,	*24c,	29,	32,	47c,	48
Vermillion	*34					

TENNESSEE

Community	Channel No.				
Chattanooga	*29,	35,	40,	47,	55

Cleveland	42					
Cookeville	36,	*52				
Crossville	50					
Greeneville	38c					
Hendersonville	51c					
Jackson	39,	43				
Jellico	23					
Johnson City	58					
Kingsport	27					
Knoxville	*17,	26,	30,	31,	34	
Lebanon	44					
Lexington	*47					
Memphis	25c,	28,	*29c,	31c,	51c,	52,
	53					
Murfreesboro	38c					
Nashville	10,	15,	21,	23,	27,	*46,
	56					
Sneedville	*41					

TEXAS

Community	Channel No.					
Abilene	24,	29				
Alvin	36					
Amarillo	9c,	15c,	19,	*21,	24	
Arlington	42					
Austin	21,	*22,	33,	43c,	49,	56
Baytown	41					
Beaumont	21,	*33c,	50			
Belton	47c					
Big Spring	33					
Brownsville	24c					
Bryan	29c,	59				
College Station	*12					
Conroe	5,	42				
Corpus Christi	18,	*22,	27c,	47,	50	
Dallas	9c,	*14,	32c,	35,	36,	40c,
	45					
Decatur	30c					
Del Rio	28					
Denton	*31					
Eagle Pass	18					
El Paso	15c,	16,	17,	18,	25c,	*29,

	*39c,	51				
Fort Worth	18,	19,	41,	51c		
Galveston	*23c,	47c				
Garland	24c					
Greenville	46c					
Harlingen	31,	*34,	*38			
Houston	19c,	*24,	27c,	31,	32,	35,
	38c,	44c,	*53			
Irving	48c					
Jacksonville	22					
Katy	52c					
Kerrville	17					
Killeen	23					
Lake Dallas	43					
Laredo	14,	15,	19			
Llano	27					
Longview	52c					
Lubbock	25,	27c,	35c,	*39,	40,	44
Lufkin	43					
Mcallen	30					
Midland	26					
Nacogdoches	18c					
Odessa	15,	*22,	23c,	31c,	43c	
Port Arthur	40					
Rio Grande City	20					
Rosenberg	46c					
San Angelo	11,	16,	19			
San Antonio	*16,	*20,	30c,	39,	40c,	48,
	55,	58				
Sherman	20					
Snyder	10					
Sweetwater	20					
Temple	50					
Texarkana	15,	*50				
Tyler	38					
Victoria	15,	34				
Waco	*20,	26c,	53,	57		
Weslaco	13					
Wichita Falls	17c,	22,	28			

UTAH

Community	Channel No.
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Cedar City	14,	*44				
Monticello	*41					
Ogden	29c,	*35				
Provo	17c,	*39				
Salt Lake City	27c,	28,	34,	36,	38,	*40
St. George	9					

VERMONT

Community	Channel No.			
Burlington	16,	*32c,	43c,	53
Hartford	25			
Rutland	*56			
St. Johnsbury	*18			
Windsor	*24			

VIRGINIA

Community	Channel No.				
Arlington	15c				
Ashland	47				
Bristol	28				
Charlottesville	*14,	32			
Danville	41				
Fairfax	*57c				
Front Royal	*21				
Goldvein	*30				
Grundy	49				
Hampton	41				
Hampton-Norfolk	*16c				
Harrisonburg	49				
Lynchburg	20c,	*34,	56		
Manassas	36				
Marion	*42				
Norfolk	14c,	38,	58		
Norton	*32				
Petersburg	22c				
Portsmouth	19,	31			
Richmond	*24c,	25,	26,	*44,	54
Roanoke	*3,	17,	18,	30,	36
Staunton	*19				
Virginia Beach	29				

West Point *46

WASHINGTON

Community	Channel No.					
Bellevue	32c,	50c				
Bellingham	19,	35				
Centralia	*19					
Everett	31					
Kennewick	14					
Pasco	20c					
Pullman	*17					
Richland	26c,	*30c				
Seattle	25,	38,	39,	*41,	44c,	48
Spokane	29c,	38,	*39,	54,	55,	57
Tacoma	14,	18,	*26,	36,	*42	
Vancouver	48c					
Wenatchee	56					
Yakima	16,	*21,	34c,	52		

WEST VIRGINIA

Community	Channel No.			
Bluefield	14.	46		
Charleston	*16.	19.	39.	55
Clarksburg	28.	52		
Grandview	*53			
Huntington	23.	*34c.	54	
Lewisburg	48			
Martinsburg	12			
Morgantown	*33			
Oak Hill	50			
Parkersburg	49			
Weston	58			
Wheeling	56			

WISCONSIN

Community	Channel No.
Appleton	59
Chippewa Falls	49c

Eagle River	17					
Eau Claire	15,	39				
Fond Du Lac	44					
Green Bay	23,	41,	*42,	51,	56	
Janesville	32					
Kenosha	40					
La Crosse	14,	17,	*30c,	53		
Madison	11,	19,	*20c,	26c,	50	
Manitowoc	19					
Mayville	43					
Menomonie	*27c					
Milwaukee	*8,	22,	25c,	28,	33,	34,
	*35c,	46,	61			
Park Falls	*47					
Racine	48c					
Rhineland	16					
Superior	19					
Suring	21					
Wausau	*24,	29,	40			

WYOMING

Community	Channel No.		
Casper	15c,	17,	18
Cheyenne	11,	28c,	30
Jackson	14		
Lander	7,	*8	
Rawlins	9		
Riverton	16		
Rock Springs	19		
Sheridan	21		

PUERTO RICO

Community	Channel No.		
Aguada	62		
Aguadilla	17c,	*34,	69
Arecibo	53c,	61c	
Bayamon	59c		
Caguas	56,	*57c	
Carolina	51c		
Fajardo	33c,	*38	

Guayama	45c					
Humacao	49					
Mayaguez	23c,	29,	35,	63		
Naranjito	65c					
Ponce	19c,	*25c,	43c,	47c,	66,	67c
San Juan	21,	27c,	28,	31c,	32,	*55c
San Sebastian	39c					
Yauco	41c					

VIRGIN ISLANDS

Community	Channel No.
Charlotte Amalie	*44c, 48, 50
Christiansted	5, 20

(c) *Availability of channels.* Applications may be filed to construct DTV broadcast stations only on the channels designated in the DTV Table of Allotments set forth in paragraph (b) of this section, and only in the communities listed therein. Applications that fail to comply with this requirement, whether or not accompanied by a petition to amend the DTV Table, will not be accepted for filing. However, applications specifying channels that accord with publicly announced FCC Orders changing the DTV Table of Allotments will be accepted for filing even if such applications are tendered before the effective dates of such channel change. An application for authority to construct a DTV station on an allotment in the initial DTV table may only be filed by the licensee or permittee of the analog TV station with which that initial allotment is paired, as set forth in Appendix B of the *Sixth Report and Order* in MM Docket 87-268, FCC 97-115, adopted April 3, 1997. Applications may also be filed to implement an exchange of channel allotments between two or more licensees or permittees of analog TV stations in the same community, provided, however, that the other requirements of this section and of section 73.623 of this part are met with respect to each such application.

(d) *Reference points and distance computations.*

(1) The reference coordinates of a DTV allotment included in the initial DTV Table of Allotments are the coordinates of the authorized transmitting antenna site of the analog TV station with which that initial allotment is paired, as set forth in Appendix B of the *Sixth Report and Order* in MM Docket 87-268, FCC 97-115, adopted April 3, 1997. An application for authority to construct or modify DTV facilities may specify an alternate location for the DTV transmitting antenna that is within 5 kilometers of the DTV allotment reference coordinates without consideration of electromagnetic interference to other DTV or analog TV broadcast stations, allotments or applications, provided the application complies with paragraph (f)(2) of this section. Location of a DTV broadcast station's transmitting antenna at a site more than 5 kilometers from the DTV allotment reference coordinates must comply with the provisions of section 73.623(c) of this part. In the case where a DTV station has been granted authority to construct more than 5 kilometers from its reference coordinates pursuant to section 73.623(c) of this part, and its authorized coverage area extends in any

azimuthal direction beyond the DTV coverage area determined for the DTV allotment reference facilities, then the coordinates of such authorized site are to be used in addition to the coordinates of the DTV allotment to determine protection from new DTV allotments pursuant to section 73.623(d) and from subsequent DTV applications filed pursuant to section 73.623(c) of this part.

(2) The reference coordinates of a DTV allotment not included in the initial DTV Table of Allotments will be designated in the FCC Order changing the DTV Table of Allotments and must meet the geographic spacing requirements of section 73.623(d) of this part. An application for authority to construct or modify such DTV facilities must comply with the provisions of section 73.623(c) of this part. In the case where such a DTV station has been granted authority to construct pursuant to section 73.623(c) of this part and its authorized coverage area extends in any azimuthal direction beyond the DTV coverage area determined for the DTV allotment reference facilities, then the coordinates of such authorized site are to be used in addition to the coordinates of the DTV allotment to determine protection from new DTV allotments pursuant to section 73.623(d) and from subsequent DTV applications filed pursuant to section 73.623(c) of this part.

(3) The reference coordinates defined in paragraphs (d)(1) and (d)(2) of this section shall be used in considering petitions to amend the DTV Table of Allotments and in determining whether interference occurs between DTV stations and between DTV and analog TV stations.

(4) In cases where there are pending applications for DTV stations in other communities which, if granted, would have to be considered in determining whether proposed or modified stations would meet the required technical criteria or separations, as defined in section 73.623 of this part, the coordinates of the transmitter sites proposed in such applications must be used to determine whether those requirements have been met.

(5) To calculate the distance between two reference points, see section 73.208(c) of this part. However, distances shall be rounded to the nearest tenth of a kilometer.

(e) *DTV Service Areas.* The service area of a DTV station is the geographic area within which the predicted F(50,90) field strength of the station's signal, in dB above 1 microvolt per meter (dBu), exceeds the following levels:

	dBu
Channels 2-6	28
Channels 7-13	36
Channels 14-69	41

These are the levels at which reception of DTV service is limited by noise. Evaluation of field strength in determining service areas shall be made using the terrain dependent Longley-Rice point-to-point propagation model. Guidance for evaluating coverage areas using the Longley-Rice methodology is provided in OET Bulletin No. 69.

(f) *DTV maximum power and antenna heights.*

(1) The maximum effective radiated power (ERP) and antenna height above average terrain (HAAT) for an allotment included in the initial DTV Table of Allotments are set forth in Appendix B of the *Sixth Report and Order* in MM Docket 87-268, FCC 97-115, adopted April 3, 1997. In each azimuthal direction, the reference ERP value is based on the HAAT of the corresponding analog TV station and achieving predicted coverage equal to that analog TV station's predicted Grade B contour, as defined in section 73.683 of this part.

(2) An application for authority to construct or modify DTV facilities will not be subject to further consideration of electromagnetic interference to other DTV or analog TV broadcast stations, allotments or applications, provided that:

(i) the proposed ERP in each azimuthal direction is equal to or less than the reference ERP in that direction; and

(ii) the proposed HAAT is equal to or less than the reference HAAT; and

(iii) the application complies with the location provisions in paragraph (d)(1) of this section.

(3) DTV licensees and permittees may request an increase in either ERP in some azimuthal direction or HAAT, or both, that exceed the initial technical facilities specified for the allotment in the *Sixth Report and Order*, up to the maximum permissible limits on DTV power and antenna height set forth in this section or up to that needed to provide the same geographic coverage area as the largest station within their market. Such requests must be accompanied by a technical showing that the increase complies with the technical criteria in section 73.623(c) of this part, and thereby will not result in new interference, or statements agreeing to the change from any co-channel or adjacent channel stations that might be affected by potential new interference. In the case where a DTV station has been granted authority to construct pursuant to section 73.623(c) of this part, and its authorized coverage area extends in any azimuthal direction beyond the DTV coverage area determined for the DTV allotment reference facilities, then the authorized DTV facilities are to be used in addition to the assumed facilities of the initial DTV allotment to determine protection from new DTV allotments pursuant to section 73.623(d) and from subsequent DTV applications filed pursuant to section 73.623(c) of this part.

(4) A DTV station that operates on a channel 2-6 allotment created subsequent to the initial DTV Table will be allowed a maximum ERP of 10 kW if its antenna HAAT is at or below 305 meters and it is located in Zone I or a maximum ERP of 45 kW if its antenna HAAT is at or below 305 meters and it is located in Zone II or Zone III. At higher HAAT levels, such DTV stations will be allowed to operate with lower maximum ERP levels in accordance with the following table and formulas:

Maximum Allowable ERP and Antenna Height
for DTV Stations In Zones II or III On Channels 2-6

Antenna HAAT (meters)	Effective Radiated Power (kW)
610	10
580	11
550	12
520	14
490	16
460	19
425	22
395	26
365	31
335	37
305	45

The allowable maximum ERP for intermediate values of HAAT is determined using linear interpolation based on the units employed in the table. For DTV stations located in Zone I that operate on channels 2-6 with an HAAT that exceeds 305 meters, the allowable maximum ERP expressed in decibels above 1 kW (dBk) is determined using the following formula, with HAAT expressed in meters:

$$ERP_{max} = 92.57 - 33.24 \cdot \log_{10}(HAAT)$$

For DTV stations located in Zone II or III that operate on channels 2-6 with an HAAT that exceeds 610 meters, the allowable maximum ERP expressed in decibels above 1 kW (dBk) is

determined using the following formula, with HAAT expressed in meters:

$$ERP_{max} = 57.57 - 17.08 * \log_{10}(HAAT)$$

(5) A DTV station that operates on a channel 7-13 allotment created subsequent to the initial DTV Table will be allowed a maximum ERP of 30 kW if its antenna HAAT is at or below 305 meters and it is located in Zone I or a maximum ERP of 160 kW if its antenna HAAT is at or below 305 meters and it is located in Zone II or Zone III. At higher HAAT levels, such DTV stations will be allowed to operate with lower maximum ERP levels in accordance with the following table and formulas:

Maximum Allowable ERP and Antenna Height
for DTV Stations In Zones II or III On Channels 7-13

Antenna HAAT (meters)	Effective Radiated Power (kW)
610	30
580	34
550	40
520	47
490	54
460	64
425	76
395	92
365	110
335	132
305	160

The allowable maximum ERP for intermediate values of HAAT is determined using linear interpolation based on the units employed in the table. For DTV stations located in Zone I that operate on channels 7-13 with an HAAT that exceeds 305 meters, the allowable maximum ERP expressed in decibels above 1 kW (dBk) is determined using the following formula, with HAAT expressed in meters:

$$ERP_{max} = 97.35 - 33.24 * \log_{10}(HAAT)$$

For DTV stations located in Zone II or III that operate on channels 7-13 with an HAAT that exceeds 610 meters, the allowable maximum ERP expressed in decibels above 1 kW (dBk) is determined using the following formula, with HAAT expressed in meters:

$$ERP_{max} = 62.34 - 17.08 * \log_{10}(HAAT)$$

(6) A DTV station that operates on a channel 14-59 allotment created subsequent to the initial DTV Table will be allowed a maximum ERP of 1000 kW if their antenna HAAT is at or below 365 meters. At higher HAAT levels, such DTV stations will be allowed to operate with lower maximum ERP levels in accordance with the following table and formulas:

Maximum Allowable ERP and Antenna Height
for DTV Stations On Channels 14-59, All Zones

Antenna HAAT (meters)	Effective Radiated Power (kW)
610	316
580	350
550	400
520	460
490	540
460	630
425	750
395	900
365	1000

The allowable maximum ERP for intermediate values of HAAT is determined using linear interpolation based on the units employed in the table. For DTV stations located in Zone I, II or III that operate on channels 14-59 with an HAAT that exceeds 610 meters, the allowable maximum ERP expressed in decibels above 1 kW (dBk) is determined using the following formula, with HAAT expressed in meters:

$$ERP_{max} = 72.57 - 17.08 * \log_{10}(HAAT)$$

(g) For DTV stations using a channel allotment designated with a "c" in paragraph (b) of this section, the pilot carrier frequency of the DTV signal must be maintained 5.082138 MHz above the visual carrier frequency of the analog TV broadcast station operating on the lower adjacent channel, located within 88 kilometers of the DTV broadcast station. This frequency difference must be maintained within a tolerance of ± 3 Hz.

(h) The field strength or voltage of emissions on frequencies outside the authorized channel of operation must be attenuated no less than the following amounts below the average transmitted power within the authorized channel. At the channel edge, emissions must be attenuated no less than 46 dB. More than 6 MHz from the channel edge, emissions must be attenuated no less than 71 dB. At any frequency between 0 and 6 MHz from the channel edge, emissions must be attenuated no less than the value determined by the following formula:

$$\text{Attenuation in dB} = 46 + [(\Delta f)^2 / 1.44];$$

where: Δf = frequency difference in MHz from the edge of the channel.

This attenuation is based on a measurement bandwidth of 500 kHz. Other measurement bandwidths may be used as long as appropriate correction factors are applied. Emissions include sidebands, spurious emissions and radio frequency harmonics. Attenuation is to be measured at the output terminals of the transmitter (including any filters that may be employed). In the event of interference caused to any service, greater attenuation may be required.

Note: Greater attenuation may be required for situations where the DTV station and an adjacent channel analog TV station serve the same area and there are expected to be locations within that shared area where the analog TV station's field strength is less than 12 dB above the DTV station's field strength.

5. A new Section 73.623 is added to read as follows:

§ 73.623 DTV applications and changes to DTV allotments.

(a) *General.* This section contains the technical criteria for evaluating applications requesting DTV facilities that do not conform to the provisions of section 73.622 of this part and petitions for rule making to amend the DTV Table of Allotments (section 73.622(b) of this part). Petitions to amend the DTV Table (other than those also expressly requesting amendment of this section) and applications for new DTV broadcast stations or for changes in authorized DTV stations filed pursuant to this section will not be accepted for filing if they fail to comply with the requirements of this section.

(b) In considering petitions to amend the DTV Table and applications filed pursuant to this section, the Commission will use geographic coordinates defined in section 73.622(d) as reference points in determining allotment separations and evaluating interference potential.

(c) *Minimum technical criteria for modification of DTV allotments included in the initial DTV Table of Allotments and for applications filed pursuant to this section.* No petition to modify a channel allotment included in the initial DTV Table or application for authority to construct or modify a DTV station, filed pursuant to this section, will be accepted unless it shows compliance with the requirements of this paragraph.

(1) Requests filed pursuant to this paragraph must demonstrate compliance with the principal community coverage requirements of section 73.625(a) of this part.

(2) Requests filed pursuant to this paragraph must demonstrate that there is no increase in the amount of interference caused to any other DTV broadcast station, DTV allotment, or analog TV broadcast station. For evaluating compliance with this requirement, interference is to be predicted based on the procedure set forth in Appendix B of the *Sixth Report and Order* in MM Docket 87-268, FCC 97-115, adopted April 3, 1997, including service areas determined in accordance with section 73.622(e) of this part, consideration of whether F(50,10) undesired signals will exceed the following desired-to-undesired (D/U) signal ratios, assumed use of a directional receiving antenna, and use of the terrain dependent Longley-Rice point-to-point propagation model. Guidance for evaluating interference using the Longley-Rice methodology is provided in OET Bulletin No. 69. The threshold levels at which interference is considered to occur are:

D/U Ratio

Co-channel

DTV-into-analog TV	+34
analog TV-into-DTV	+2*
DTV-into-DTV	+15*

Note: The values for co-channel interference to DTV service are only valid at locations where the signal-to-noise ratio is 28 dB or greater. At the edge of the noise-limited service area, where the signal-to-noise ratio is 16 dB, these values are 21 dB and 23 dB for interference from analog TV and DTV, respectively.

First Adjacent Channel

Lower DTV-into-analog TV	-17
Upper DTV-into-analog TV	-12
Lower analog TV-into-DTV	-48
Upper analog TV-into-DTV	-49
Lower DTV-into-DTV	-42
Upper DTV-into-DTV	-43

Other Adjacent Channel (Channels 14-69 only)

DTV-into-analog TV,
 where N = analog TV channel and
 DTV Channel: