

AT&T Wireless PCS Inc.
Application for Experimental License
FCC Form 442
Items 4, 5 & 10
Exhibit 1

Explanation of Proposed Authorization

By this application, AT&T Wireless PCS Inc. ("AT&T Wireless") seeks an experimental authorization to conduct propagation tests in each D and/or E block broadband PCS market for which it was an auction winner. Grant of the experimental license will substantially enhance AT&T Wireless' technical design process if propagation tests are conducted in all of the D and E block broadband PCS markets for which it was the winning bidder in the auction and for which it will be licensed in due course. The BTAs are frequency blocks which AT&T Wireless won in the D, E and F block broadband PCS auction and the markets and frequency blocks for which it seeks an experimental license are listed in Attachment 1. ?

AT&T Wireless proposes to deploy up to 3 test facilities in a BTA at any point in time. However, in order to conduct the tests AT&T Wireless deems necessary, AT&T Wireless, may from time to time, change the location of the test facilities in any given BTA. In no situation will facilities operated under the experimental license be physically deployed outside a BTA for which AT&T Wireless was the auction winner. MB

Grant of this experimental license will enable AT&T Wireless to engage in comprehensive propagation tests which will aid in the design of its systems and

provide it with significant real-world information which will ultimately lead to the rapid deployment of broadband PCS services. Accordingly, a grant of the instant application will serve the public interest, convenience and necessity.

Attachment 1
ATT Wireless PCS Inc. Broadband PCS D and E Block Markets

Market Name	Block	BTA Number
Aberdeen, SD	E	1
Aberdeen, WA	D	2
Ada, OK	E	4
Albany-Schenectady, NY	D	7
Alexandria, LA	D	9
Allentown-Bethlehem-Easton, PA	E	10
Alpena, MI	D	11
Altoona, PA	D	12
Altoona, PA	E	12
Anderson, IN	D	15
Anderson, IN	E	15
Appleton, WI	D	18
Ardmore, OK	E	19
Austin, TX	E	27
Bakersfield, CA	D	28
Bartlesville, OK	E	31
Baton Rouge, LA	D	32
Baton Rouge, LA	E	32
Beaumont-Port Arthur, TX	E	34
Bellingham, WA	D	36
Benton Harbor, MI	E	39
Big Spring, TX	E	40
Binghampton, NY	D	43
Binghampton, NY	E	43
Birmingham, AL	E	44
Boise-Nampa, ID	D	50
Bremerton, WA	D	55
Brownsville-Harlingen, TX	E	56
Brownwood, TX	E	57
Bryan-College Station, TX	E	59
Burlington, VT	E	63
Cape Girardeau-Sikeston, MO	D	66
Carbondale-Marion, IL	D	67
Chico-Oroville, CA	D	79
Chico-Oroville, CA	E	79
Clarksburg-Elkins, WV	D	82
Coffeyville, KS	E	88
Colorado Springs, CO	D	89
Columbus, IN	D	93
Coos Bay-North Bend, OR	D	97
Corpus Christi, TX	E	99
Dallas-Forth Worth, TX	D	101
Dallas-Forth Worth, TX	E	101
Davenport, IA-Moline, IL	D	105
Daytona Beach, FL	E	107
Decatur, AL	E	108
Denver, CO	D	110
Des Moines, IA	E	111
Dover, DE	D	116

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Du Bois-Clearfield, PA	E	117
Duluth, MN	D	119
Eagle Pass-Del Rio, TX	E	121
Eau Claire, WI	D	123
El Centro-Calexico, PA	E	124
Elmira-Coming-Hornell, NY	D	127
Elmira-Coming-Hornell, NY	E	127
Emporia, KS	E	129
Enid, OK	E	130
Escanaba, MI	D	132
Eugene-Springfield, OR	D	133
Eureka, CA	E	134
Fairmont, WV	D	137
Fairmont, WV	E	137
Fergus Falls, MN	D	142
Florence, AL	E	146
Fond du Lac, WI	D	148
Ft. Collins-Loveland, CO	D	149
Ft. Dodge, IA	D	150
Ft. Pierce-Vero Beach-Stuart, FL	E	152
Fresno, CA	D	157
Fresno, CA	E	157
Glens Falls, NY	D	164
Grand Junction, CO	D	168
Greeley, CO	E	172
Green Bay, WI	D	173
Hammond, LA	D	180
Hartford, CT	D	184
Hartford, CT	E	184
Hilo, HI	D	190
Honolulu, HI	D	192
Houghton, MI	D	194
Houston, TX	E	196
Huntsville, AL	D	198
Idaho Falls, ID	E	202
Indiana, PA	D	203
Indiana, PA	E	203
Indianapolis, IN	D	204
Iron Mountain, MI	D	206
Ithaca, NY	E	208
Jamestown, NY-Warren, PA	D	215
Janesville-Beloit, WI	D	216
Johnstown, PA	D	218
Johnstown, PA	E	218
Kahului-Wailuku-Lahaina, HI	D	222
Kansas City, MO	E	226
Kokomo-Logansport, IN	E	233
Lafayette, IN	D	235
Lafayette-New Iberia, LA	D	236
Lafayette-New Iberia, LA	E	236
Las Vega, NV	D	245

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Laurel, MS	D	246
Lawrence, KS	D	247
Lawton-Duncan, OK	E	248
Lihue, HI	D	254
Logan, UT	D	258
Longview-Marshall, TX	E	260
Longview, WA	D	261
Los Angeles, CA	D	262
Lufkin-Nacogdoches, TX	E	265
McAlester, OK	E	267
McAllen, TX	E	268
Madison, WI	D	272
Manitowoc, WI	D	276
Mankato-Fairmont, MN	D	277
Marinette, Menominee, MI	D	279
Marion, IN	D	280
Marquette, MI	D	282
Melbourne-Titusville, FL	E	289
Merced, CA	D	291
Merced, CA	E	291
Miami-Ft. Lauderdale, FL	D	293
Michigan City-La Porte, IN	E	294
Milwaukee, WI	D	297
Minneapolis, MN	E	298
Mobile, AL	E	302
Modesto, CA	D	303
Morgantown, WV	D	306
Muncie, IN	E	309
Muskogee, OK	E	311
New Castle, PA	D	317
New Castle, PA	E	317
New Haven-Waterbury-Meriden, CT	D	318
New Haven-Waterbury-Meriden, CT	E	318
New London-Norwich, CT	D	319
New London-Norwich, CT	E	319
New Orleans, LA	D	320
New Orleans, LA	E	320
New York, NY	E	321
Oil City-Franklin, PA	D	328
Oil City-Franklin, PA	E	328
Oklahoma City, OK	E	329
Olympia-Centralia, WA	D	331
Oneonta, NY	D	333
Oneonta, NY	E	333
Orlando, FL	E	336
Paris, TX	E	341
Pittsburg-Parsons, KS	D	349
Pittsburgh, PA	D	350
Plattsburgh, NY	D	352
Plattsburgh, NY	E	352
Pocatello, ID	E	353

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Ponca City, OK	E	354
Port Angeles, WA	D	356
Portland, OR	D	358
Poughkeepsie-Kingston, NY	D	361
Poughkeepsie-Kingston, NY	E	361
Provo-Orem, UT	D	365
Pueblo, CO	D	366
Rapid City, SD	E	369
Redding, CA	D	371
Reno, NV	D	372
Richmond, IN	D	373
Richmond, IN	E	373
Riverton, WY	E	375
Rochester, NY	E	379
Rock Springs, WY	E	381
Rutland-Bennington, VT	E	388
Sacramento, CA	D	389
St. Cloud, MN	D	391
St. George, UT	D	392
St. Joseph, MO	D	393
Salem-Albany-Corvallis, OR	D	395
Salinas-Monterey, CA	E	397
Salt Lake City-Ogden, UT	D	399
San Angelo, TX	E	400
San Antonio, TX	E	401
San Diego, CA	D	402
San Francisco-Oakland, CA	D	404
San Luis Obispo, CA	E	405
Santa-Barbara-Santa Monica, CA	E	406
Scottsbluff, NE	E	411
Scranton-Wilkes-Barre, PA	D	412
Scranton-Wilkes-Barre, PA	E	412
Seattle-Tacoma, WA	D	413
Sedalia, MO	D	414
Sheboygan, WI	D	417
Sherman-Denison, TX	E	418
Shreveport, LA	E	419
South Bend-Mishawaka, IN	E	424
Spokane, WA	E	425
Steubenville, OH-Weirton, WV	D	431
Stillwater, OK	E	433
Stockton, CA	D	434
Stroudsburg, PA	E	435
Syracuse, NY	D	438
Syracuse, NY	E	438
Temple-Killeen, TX	E	441
Terre Haute, IN	D	442
Texarkana, TX-AR	E	443
Topeka, KS	E	445
Tulsa, OK	E	448
Tuscaloosa, AL	E	450

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Twin Falls, ID	D	451
Tyler, TX	E	452
Utica-Rome, NY	D	453
Utica-Rome, NY	E	453
Victoria, TX	E	456
Vincennes-Washington, IN	D	457
Visalia-Porterville-Hanford, CA	D	458
Waco, TX	E	459
Waterloo-Cedar Falls, IA	E	462
Watertown, NY	D	463
Watertown, NY	E	463
Wausau-Rhineland, WI	D	466
Wenatchee, WA	D	468
W. Palm Beach-Boca Raton, FL	D	469
Wheeling, WV	D	471
Wichita Falls, TX	E	473
Yakima, WA	D	482
Yuba City-Marysville, CA	D	485
American Samoa	D	492
American Samoa	E	492

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Exhibit 2

Antenna Structure Information

As noted in Exhibit 1, the tests to be conducted pursuant to the application submitted herein, will be performed at a variety of locations in a variety of BTAs for which AT&T Wireless PCS Inc. is an auction winner and will be authorized to provide broadband PCS service. For some tests, the antenna will be mounted on top of a building or on other structures in which the antenna will not be located more than six meters above existing structures. In other situations that may not be possible. In these latter situations when no nearby natural terrain features or buildings of the type identified in Section 17.14(a) of the Commission's rules would afford sufficient shielding to avoid any potential adverse impact on air navigation, the test sites will be selected to ensure that the height of the antenna is not greater than an imaginary surface extending outward and upward at any of the following slopes:

(1) 100 to 1 for a horizontal distance of 6.1 km (20,000 feet) from the nearest point of the nearest runway of any airport that is either operated by an armed force of the U.S. or is available for public use and is listed in the Airport Directory of the current Airman's Information Manual, or is under construction and may become operational during the period of the subject test, and which has at least one runway more than 0.98 km (3,200) feet in actual length, excluding heliports, and;

(2) 50 to 1 for a horizontal distance of 3.05 km (10,000 feet) from the nearest point of the nearest runway of any airport that is either operated by an armed force of the U.S. or is available for public use and is listed in the Airport Directory of the current Airman's Information Manual, or is under construction and may become operational during the period of the subject test, and which has