FILE NUMBER	APPLICANT			FILE DATE	ACTION DATE	PN DATE		CALL SIGN	FEE NUMBER	SERVICE AREA	
9211556	FOUR M MLDS GROUP	P	PA	05/11/1992			T		8155963010	ALLENTOWN	PA
9218044	ORANGE WIRELESS PARTNERS	P	PA	05/12/1992			T		8155962018	ALLENTOWN	PA
9218136	CONE, S.E., JR.	P	PA	05/14/1992			T		8155964017	ALLENTOWN	PA
9218196	METTLER COMMUNICATIONS	P	PA	08/05/1992			T		8155224005	ALLENTOWN	PA
9318630	BSV PARTNERSHIP	P	PA	10/06/1992			T		8680020008	ALLENTOWN PMSA	PA
9218091	MEEKER, HERBERT S.	P	PA	06/09/1992			T		8155065003	ALLENTOWN-BETHLHM	PA
9200736	BACHOW, PAUL S.	P	PA	05/12/1992			T		8155968005	HARRISBURG	PA
9211551	FOUR M MLDS GROUP	P	PA	05/11/1992			T		8155963015	HARRISBURG	PA
9215502	M3 ILLINOIS TELECOM CORP	P	PA	01/13/1992		02/05/1992	S		8155177009	HARRISBURG	PA
9218053	ORANGE WIRELESS PARTNERS	P	PA	05/12/1992			T		8155962008	HARRISBURG	PA
9218151	CONE, S.E., JR.	P	PA	05/11/1992			T		8155964001	HARRISBURG	PA
9216677	RONALD E. SANSAC	P	PA	04/06/1992		08/05/1992	T		8155816006	HARRISBURG MSA	PA
9318628	BSV PARTNERSHIP	P	PA	10/06/1992			T		8680020006	HARRISBURG PMSA	PA
9218035	MAH INC	P	PA	05/04/1992			T		8155939008	HARRISBURG/LEBANON	PA
9318504	MATHES, PHILIP H.	P	PA	10/02/1992			T		8680009007	LANCASTER	PA
9318517	LIKINS, PAUL	P	PA	10/21/1992			T		8680064002	LANCASTER	PA
9111270	LDH INTERNATIONAL INC	P	MA	02/08/1991		05/15/1991	TE		8155674008	PHILADELPHIA	PA
9112780	HOVPRO INVESTMENT GROUP	P	PA	07/15/1991		08/21/1991	TE		8155265009	PHILADELPHIA	PA
9318309	JOS. D. CARNEY & ASSOC.	P	PA	10/02/1992			T		8680004005	PHILADELPHIA MSA	PA
9200742	BACHOW, PAUL S.	P	PA	05/14/1992			T		8155983004	PITSBURGH	PA
9118120	HARATUNIAN, MICHAEL	P	PA	08/19/1991		10/09/1991	TE		8155435002	PITTSBURG	PA
9218066	ORANGE WIRELESS PARTNERS	P	PA	05/18/1992			T		8155996012	PITTSBURG	PA
9210597	ACOR, EVERETT T	P	PA	12/09/1991		01/15/1992	TE		8155940013	PITTSBURGH	PA
9211618	ILOHCA CORP.	P	PA	05/14/1992			T		8155982008	PITTSBURGH	PA
9211677	LINDEMANN, FRAYDA B.	P	PA	05/14/1992			T		8155984004	PITTSBURGH	PA
9211686	FOUR M MLDS GROUP	P	PA	05/18/1992			T		8155996006	PITTSBURGH	PA
9218123	ASSOCIATED MDS CORPO	P	PA	05/15/1992			T		8155990005	PITTSBURGH	PA
9218131	BRENNAN, JOHN E.	P	PA	05/14/1992			T		8155985002	PITTSBURGH	PA
9218137	CONE, S.E., JR.	P	PA	05/18/1992			T		8155997002	PITTSBURGH	PA
9318000	ASSOCIATED MDS CORP	P	PA	10/23/1992			T			PITTSBURGH	PA
9318296	JOS. D. CARNEY & ASSC.	P	PA	10/02/1992			T		8680002009	PITTSBURGH MSA	PA
9215618	R&R TELECOMMUNICATION	P	PA	01/24/1992		03/18/1992	T		8155255011	PITTSBURGH PMSA	PA
9215618	R&R TELECOMMUNICATION	P	PA	01/24/1992		03/18/1992	T		8155255011	PITTSBURGH PMSA	PA
9215889	VIDEO COMMUNICATIONS	P	PA	02/26/1992		05/13/1992	T		8155482005	PITTSBURGH PMSA	PA
9318626	CELULARVISION	P	PA	10/06/1992			T		8680020004	PITTSBURGH PMSA	PA
9318627	BSV PARTNERSHIP	P	PA	10/06/1992			T		8680020005	RANSOM PMSA	PA
9218205	METTLER COMMUNICATIONS	P	PA	08/07/1992			T		8155232005	READING	PA
9318506	MISSIRIAN, RAPHAEL A.	P	PA	10/02/1992			T		8680011004	READING	PA
9200541	AMBY, FAITH C.	P	PA	04/06/1992			T		8155808010	SCRANTON	PA
9211357	RUSSELL HEDDEN	P	PA	04/06/1992		06/24/1992	T		8155816007	SCRANTON	PA
9215466	WIRELESS CABLE LTD	P	CA	12/23/1991		02/05/1992	TE		8155998001	SCRANTON	PA
9216587	PATRICIA B. MAILANI	P	PA	03/06/1992		08/05/1992	T		8155564012	SCRANTON MSA	PA
9218173	SNELLING, CHARLES D.	P	PA	07/07/1992			T		8155142001	SCRANTON-WILKES BARR	PA
9200728	BACHOW, PAUL S.	P	PA	05/12/1992			T		8155969003	YORK	PA
9211547	FOUR M MLDS GROUP	P	PA	05/11/1992			T		8155963019	YORK	PA
9216582	SENVISTA GENERAL	P	PA	03/13/1992		08/05/1992	T		8155604001	YORK	PA
9218051	ORANGE WIRELESS PARTNERS	P	PA	05/12/1992			T		8155962006	YORK	PA
9218150	CONE, S.E., JR.	P	PA	05/11/1992			T		8155964003	YORK	PA
9318505	TOMPKINS, W. WOODRUFF	P	PA	10/02/1992			T		8680011003	YORK	PA
9218117	FREEDOM TECHNOLOGIES	P	PR	07/06/1992			T		8155143001	SAN JUAN	PR
9318510	SMC ASSOCIATES	P	PR	10/09/1992			T		8680036002	SAN JUAN	PR
9218263	CT COMMUNICATIONS CORP	P	RI	09/29/1992			T		8155404005	PAWTUCKET-WOONSOCKET	RI
9118121	ALLIANCE ASSOCIATES	P	RI	08/16/1991		10/09/1991	TE		8155430010	PROVIDENCE	RI
9200743	BACHOW, PAUL S.	P	RI	05/14/1992			T		8155983002	PROVIDENCE	RI
9211312	HORNBY, HAROLD	P	RI	04/07/1992		06/03/1992	T		8155810004	PROVIDENCE	RI
9211689	FOUR M MLDS GROUP	P	RI	05/18/1992			T		8155996003	PROVIDENCE	RI

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9215436	WIRELESS CABLE LTD	P	KY	12/09/1991		02/05/1992	S			PROVIDENCE	RI
9216601	P.M.J. SECURITIES INC	P	RI	03/16/1992		08/05/1992	C		8155705005	PROVIDENCE	RI
9216621	TELECOM/HADDOCK INVESTOR	P	RI	03/24/1992		08/05/1992	T		8155703013	PROVIDENCE	RI
9216640	TELECOM INVESTMENT CORP	P	RI	03/16/1992		08/05/1992	T		8155704002	PROVIDENCE	RI
9218076	ORANGE WIRELESS PARTNERS	P	RI	05/18/1992			T		8155997001	PROVIDENCE	RI
9218130	CONE, S.E. JR	P	RI	05/18/1992			T		8155997003	PROVIDENCE	RI
9215619	R&R TELECOMMUNICATION	P	RI	01/24/1992		03/18/1992	T		8155255014	PROVIDENCE PMSA	RI
9215619	R&R TELECOMMUNICATION	P	RI	01/24/1992		03/18/1992	T		8155255014	PROVIDENCE PMSA	RI
9215999	SUBSCRIBER TV PARTNERS	P	SC	02/24/1992		06/10/1992	T		8155464001	AUGUSTA MSA	SC
9211420	KINGSWOOD ASSOCIATES	P	SC	04/14/1992		06/24/1992	T		8155880004	CHARLESTON	SC
9211942	FORESIGHT COMMUNICATIONS	P	SC	07/20/1992			T		8155172008	CHARLESTON	SC
9216645	SCNY COMMUNICATIONS	P	SC	03/16/1992			T		8155703018	CHARLESTON	SC
9218231	SUITE 12 GROUP	P	SC	08/24/1992			T		8155284002	CHARLESTON	SC
9215936	ROBERT ROSENKRANZ	P	SC	02/13/1992		05/20/1992	T		8155405005	CHARLESTON MSA	SC
9216643	SCNY COMMUNICATIONS	P	SC	03/16/1992			T		8155703020	COLUMBIA	SC
9218096	ROBERTSON, JEANNE P.	P	SC	06/12/1992			T		8155075005	COLUMBIA	SC
9218189	BSV PARTNERSHIP	P	SC	08/10/1992			T		8155237007	COLUMBIA	SC
9216019	SUBSCRIBER TV PARTNERS	P	SC	02/20/1992		06/10/1992	T		8155456007	COLUMBIA MSA	SC
9318622	CELULARVISION	P	SC	10/16/1992			T		8680052001	COLUMBIA PMSA	SC
9210967	EDELSON, HARRY	P	SC	01/24/1992		03/25/1992	T		8155254007	GREENVILLE	SC
9211718	KRZETTOWSKI, ANDREW J.	P	SC	05/26/1992			T		8155019005	GREENVILLE	SC
9215891	SENVISTA GENERAL	P	SC	02/26/1992		05/13/1992	T		8155481006	GREENVILLE	SC
9216646	SCNY COMMUNICATIONS	P	SC	03/16/1992			T		8155703017	GREENVILLE	SC
9218104	MITCHELL, DAVID JAN	P	SC	06/16/1992			T		8155082004	GREENVILLE	SC
9318618	CELULARVISION	P	SC	10/16/1992			T		8680052004	GREENVILLE PMSA	SC
9318508	BUTLER, LAWRENCE	P	TN	10/15/1992			T		8680048008	BUFFALO MOUNTAIN	TN
9218195	KINGSWOOD ASSOCIATES	P	TN	08/05/1992			T		8155224001	CHATTANOOGA	TN
9318515	BUTLER, MICHAEL	P	TN	10/15/1992			T		8680048007	CHATTANOOGA	TN
9318610	CELULARVISION	P	TN	10/02/1992			T		8680009002	CHATTANOOGA PMSA	TN
9318607	CELULARVISION	P	TN	10/02/1992			T		8680009006	KINGSPORT PMSA	TN
9200729	BACHOW, PAUL S.	P	TN	05/12/1992			T		8155969002	KNOXVILLE	TN
9211076	GHZ BROADCASTING INC	P	TN	02/24/1992		05/06/1992	T		8155456016	KNOXVILLE	TN
9211549	FOUR M MLDS GROUP	P	TN	05/11/1992			T		8155963017	KNOXVILLE	TN
9218055	ORANGE WIRELESS PARTNERS	P	TN	05/12/1992			T		8155962010	KNOXVILLE	TN
9218099	ROBERTSON, JEANNE P.	P	TN	06/12/1992			T		8155075002	KNOXVILLE	TN
9218121	PEYSER, FREDERICK M.	P	TN	07/06/1992			T		8155141001	KNOXVILLE	TN
9218152	CONE, S.E., JR.	P	TN	05/11/1992			T		8155964002	KNOXVILLE	TN
9218165	ALDA MULTICHANNELS, LTD	P	TN	06/17/1992			T		8155088005	KNOXVILLE	TN
9218245	RICHARD CARL LEVY PART	P	TN	09/22/1992			T		8155379004	KNOXVILLE	TN
9318608	CELULARVISION	P	TN	10/02/1992			T		8680009004	KNOXVILLE PMSA	TN
9200721	BACHOW, PAUL S.	P	TN	05/12/1992			T		8155971002	MEMPHIS	TN
9210267	BROWN, DAVID	P	TN	11/01/1991		11/27/1991	TE		8155772004	MEMPHIS	TN
9210732	CORNBLATT, ARNOLD	P	TN	01/03/1992		02/12/1992	TE		8155066008	MEMPHIS	TN
9211600	FOUR M MLDS GROUP	P	TN	05/11/1992			T		8155963006	MEMPHIS	TN
9211829	HIGH BAND BROADCASTING	P	TN	06/18/1992			T		8155091003	MEMPHIS	TN
9218075	ORANGE WIRELESS PARTNERS	P	TN	05/11/1992			T		8155962012	MEMPHIS	TN
9218144	CONE, S.E., JR.	P	TN	05/11/1992			T		8155964009	MEMPHIS	TN
9218200	VICK, MAURICE M. & CHARL	P	TN	08/07/1992			T		8155234005	MEMPHIS	TN
9215832	ROBERT ROSENKRANZ	P	TN	02/13/1992		04/29/1992	T		8155405002	MEMPHIS MSA	TN
9200367	AMBY, FAITH C.	P	TN	03/06/1992			T		8155564002	NASHVILLE	TN
9200527	ASSOCIATED MDS CORP	P	TN	04/06/1992			T		8155808003	NASHVILLE	TN
9200551	BACHOW, PAUL S.	P	TN	04/06/1992			T		8155817005	NASHVILLE	TN
9200585	CONE, S.E., JR.	P	TN	04/06/1992			T		8155811004	NASHVILLE	TN
9210576	ELECTRONIC RETAILING SYS	P	TN	12/05/1991		01/15/1992	TE		8155919007	NASHVILLE	TN
9211310	LEVIN, MICHAEL H.	P	TN	04/07/1992		06/03/1992	T		8155810001	NASHVILLE	TN
9215413	R&R TELECOMMUNICATION	P	TN	12/30/1991		02/05/1992	TE			NASHVILLE	TN

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9215445	NEW SOUTH ASSOCIATES	P	FL	12/05/1991		02/05/1992	TE			NASHVILLE	TN
9218004	ORANGE WIRELESS PARTNERS	P	TN	04/07/1992			T		8155811007	NASHVILLE	TN
9218082	SUITE 12 GROUP	P	TN	06/08/1992			T		8155055004	NASHVILLE	TN
9211074	KING BROADCASTING ASSOC	P	TX	02/24/1992		05/06/1992	T		8155456003	ABILENE	TX
9218248	RICHARD CARL LEVY PART	P	TX	09/22/1992			T		8155379005	ABILENE	TX
9211943	KING BROADCASTING ASSOC	P	TX	07/20/1992			T		8155173003	AMARILLO	TX
9318501	MEGERDICHIAN, JACK	P	TX	10/02/1992			T		8680009005	AMARILLO	TX
9200455	BMB PARTNERSHIP	P	TX	04/13/1992		07/08/1992	T		8155878006	AUSTIN	TX
9200469	ASSOCIATED MDS CORP	P	TX	04/14/1992		07/15/1992	T		8155886005	AUSTIN	TX
9200598	BACHOW, PAUL S.	P	TX	04/14/1992			T		8155888006	AUSTIN	TX
9210730	LONERGAN, WILLIAM R.	P	TX	01/02/1992		02/12/1992	TE		8155101001	AUSTIN	TX
9210731	JORGENSEN, DAVID G.	P	TX	01/03/1992		02/12/1992	TE		8155068008	AUSTIN	TX
9211419	KINGSWOOD ASSOCIATES	P	TX	04/14/1992		06/24/1992	T		8155880005	AUSTIN	TX
9211423	MARK B. FISHER	P	TX	04/14/1992		06/24/1992	T		8155878003	AUSTIN	TX
9211427	FOUR M MLDS GROUP	P	TX	04/13/1992			T		8155882007	AUSTIN	TX
9216656	ORANGE WIRELESS	P	TX	04/13/1992			T		8155881007	AUSTIN	TX
9216666	M.M. & C.O. VICK PARTNER	P	TX	04/14/1992			T		8155887003	AUSTIN	TX
9318285	ASSOC. MDS CORP.	P	TX	10/02/1992			T		8155886004	AUSTIN	TX
9218193	KINGSWOOD ASSOCIATES	P	TX	08/05/1992			T		8155224003	BEAUMONT	TX
9318603	WILLIAM H. WILLIAMS	P	TX	10/02/1992			T		8680009010	BEAUMONT PMSA	TX
9216654	UNIVERSITY OF TEXAS	P	TX	04/10/1992			T		8155868003	BROWNSVILLE	TX
9215180	RIOVISION OF TEXAS	P	TX	11/15/1991		12/26/1991	S			BROWNVILLE	TX
9318604	WILLIAM H. WILLIAMS	P	TX	10/02/1992			T		8680009009	CORPUS CHRISTI PMSA	TX
9117537	PETER RINFRET	P	TX	07/15/1991		09/25/1991	S			DALLAS	TX
9318509	METROCOM TELECASTING	P	TX	10/01/1992			T		8680006001	DALLAS	TX
9110799	LDH INTERNATIONAL INC	P	TX	12/24/1990		05/15/1991	TE		8155586002	DALLAS-FORT WORTH	TX
9200600	BACHOW, PAUL S.	P	TX	04/14/1992			T		8155888003	EL PASO	TX
9210706	BUCHWALD, JOSEPH B.	P	TX	12/30/1991		02/12/1992	TE		8155037003	EL PASO	TX
9211422	TOM ELLIOTT	P	TX	04/14/1992		06/24/1992	T		8155877005	EL PASO	TX
9211431	FOUR M MLDS GROUP	P	TX	04/13/1992			T		8155882003	EL PASO	TX
9216593	SENVISTA GENERAL	P	TX	03/06/1992		08/05/1992	T		8155757001	EL PASO	TX
9216658	ORANGE WIRELESS	P	TX	04/13/1992		08/05/1992	T		8155881005	EL PASO	TX
9215623	ROBERT E. LA BLANC	P	TX	01/24/1992		03/18/1992	T		8155254003	EL PASO MSA	TX
9215623	ROBERT E. LA BLANC	P	TX	01/24/1992		03/18/1992	T		8155254003	EL PASO MSA	TX
9215943	WESTERN SIERRA	P	TX	02/18/1992		05/20/1992	T		8155441010	EL PASO MSA	TX
9200525	ASSOCIATED MDS CORP	P	TX	04/06/1992			T		8155811014	FT WORTH	TX
9200545	BRENNAN, JOHN E.	P	TX	04/06/1992			T		8155818004	FT WORTH	TX
9200554	BACHOW, PAUL S.	P	TX	04/06/1992			T		8155817002	FT WORTH	TX
9200587	CONE, S.E., JR	P	TX	04/06/1992			T		8155811002	FT WORTH	TX
9211349	LINDEMANN, FRAYDA B.	P	TX	04/08/1992		06/17/1992	T		8155818001	FT WORTH	TX
9215458	JAMES L. MELCHER	P	TX	12/26/1991		02/05/1992	TE			FT WORTH	TX
9218009	ORANGE WIRELESS PARTNERS	P	TX	04/07/1992			T		8155811012	FT WORTH	TX
9211090	KELLY, PAUL N.	P	TX	02/10/1992		04/29/1992	T		8155369009	FT. WORTH	TX
9215150	ROY TARTAGLIA	P	TX	11/04/1991		12/11/1991	TE			FT. WORTH	TX
9215941	WESTERN SIERRA	P	TX	02/18/1992		05/20/1992	T		8155441012	GALVESTON MSA	TX
9111273	LDH INTERNATIONAL INC	P	TX	02/08/1991		05/15/1991	TE		8155674011	HOUSTON	TX
9112777	KAVID KOFFMAN	P	TX	07/15/1991		10/02/1991	TE		8155264006	HOUSTON	TX
9218161	ALDA MULTICHANNELS, LTD	P	TX	06/17/1992			T		8155088009	HOUSTON	TX
9211452	FORESIGHT COMMUNICATIONS	P	TX	04/21/1992		06/24/1992	T		8155901008	LAREDO	TX
9218094	SUMMIT ADVISORY,LTD THE	P	TX	06/15/1992			T		8155077001	LAREDO	TX
9218227	MONTGOMERY, ROBERT L	P	TX	08/24/1992			T		8155284004	LAREDO	TX
9200462	CACTUS TELEVISION INTER	P	TX	04/13/1992			T		8155880007	LUBBOCK	TX
9318277	CT COMM. CORP.	P	TX	10/02/1992			T		8155403001	MCAL.EDIN.MISSN. MSA	TX
9215179	RIOVISION OF TEXAS	P	TX	11/15/1991		12/26/1991	S			MCALLEN	TX
9216655	UNIVERSITY OF TEXAS	P	TX	04/10/1992			T		8155869002	MCALLEN	TX
9211944	KING BROADCASTING ASSOC	P	TX	07/20/1992			T		8155173002	MIDLAND	TX

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9218181	KING BROADCASTING ASSOC.	P	TX	06/20/1992			T		8155172002	ODESSA MSA	TX
9218202	KING BROADCASTING ASSOC	P	TX	08/10/1992			T		8155236010	SAN ANGELO	TX
9200720	BACHOW, PAUL S.	P	TX	05/12/1992			T		8155971003	SAN ANTONIO	TX
9210278	LEVINE, D. CHRISTOPHER	P	TX	11/04/1991		11/27/1991	TE		8155778006	SAN ANTONIO	TX
9211130	HORNBY, HAROLD	P	TX	03/09/1992		05/13/1992	T		8155564009	SAN ANTONIO	TX
9211602	FOUR M MLDS GROUP	P	TX	05/11/1992			T		8155963004	SAN ANTONIO	TX
9215433	WIRELESS CABLE LTD	P	KY	12/09/1991		02/05/1992	S			SAN ANTONIO	TX
9218045	ORANGE WIRELESS PARTNERS	P	TX	05/12/1992			T		8155962002	SAN ANTONIO	TX
9218108	PMB PARNTERSHIP	P	TX	06/16/1992			T		8155082012	SAN ANTONIO	TX
9218148	CONE, S.E., JR.	P	TX	05/11/1992			T		8155964005	SAN ANTONIO	TX
9200212	CAMBRIDGE MANAGEMENT	P	TX	01/24/1992		04/08/1992	T		2155254010	SAN ANTONIO, TX MSA	TX
9211451	FORESIGHT COMMUNICATIONS	P	TX	04/21/1992		06/24/1992	T		8155901009	TYLER	TX
9218190	CHOREKCHYAN, GAYK	P	TX	08/24/1992			T		8155284007	TYLER	TX
9218197	METTLER COMMUNICATIONS	P	TX	08/05/1992			T		8155224006	WACO	TX
9318605	WILLIAM H. WILLIAMS	P	TX	10/02/1992			T		8680009008	WACO PMSA	TX
9218210	SMITH, WILLIAM L.	P	UT	08/10/1992			T		8155241001	PROVO	UT
9200593	BSV PARTNERSHIP	P	UT	04/17/1992			T		8155896002	SALT LAKE CITY	UT
9210915	CLARK, THOMAS FRANCIS	P	UT	01/23/1992		02/19/1992	T		8155233003	SALT LAKE CITY	UT
9211460	HORNBY, HENRI R	P	UT	04/20/1992			T		8155901014	SALT LAKE CITY	UT
9215812	SMITH, KATHLEEN	P	UT	02/10/1992		04/29/1992	T		8155370004	SALT LAKE CITY	UT
9216592	SENVISTA GENERAL	P	UT	03/06/1992		08/05/1992	T		8155757004	SALT LAKE CITY	UT
9218160	KRZETTOWSKI, ANDREW	P	UT	06/17/1992			T		8155088010	SALT LAKE CITY	UT
9218012	WILLIAM L. SMITH	P	UT	04/20/1992			T		8155901013	SALT LAKE MSA	UT
9210972	EDELSON, HARRY	P	VA	01/27/1992		03/25/1992	T		8155255009	NORFOLK	VA
9215151	WILLIAM P. TAVOULAREAS	P	VA	11/04/1991		12/11/1991	TE			NORFOLK	VA
9215368	SHENANDOAH GROUP	P	NC	12/05/1991		01/29/1992	S			NORFOLK	VA
9216588	PATRICIA B. MAILANI	P	VA	03/06/1992		08/05/1992	T		8155564011	NORFOLK MSA	VA
9318308	JOS. D. CARNEY & ASSOC.	P	VA	10/02/1992			T		8680004004	NORFOLK MSA	VA
9200456	BMB PARTNERSHIP	P	VA	04/13/1992			T		8155878007	RICHMOND	VA
9200467	CONE, S.E., JR	P	VA	04/13/1992			T		8155882009	RICHMOND	VA
9200599	BACHOW, PAUL S.	P	VA	04/14/1992			T		8155888005	RICHMOND	VA
9200649	ASSOCIATED MDS CORP	P	VA	04/14/1992			T		8155886003	RICHMOND	VA
9210698	BAY BROADCASTING ASSOC	P	VA	12/24/1991		02/12/1992	TE		8155998005	RICHMOND	VA
9210736	CLARK, THOMAS FRANCIS	P	VA	01/06/1992		02/12/1992	TE		8155123007	RICHMOND	VA
9211428	FOUR M MLDS GROUP	P	VA	04/13/1992			T		8155882006	RICHMOND	VA
9216596	P.M.J. SECURITIES INC	P	VA	03/16/1992		08/05/1992	C		8155705014	RICHMOND	VA
9216618	TELECOM/HADDOCK INVESTOR	P	VA	03/24/1992		08/05/1992	T		8155703001	RICHMOND	VA
9216625	TELECOM INVESTMENT CORP	P	VA	03/16/1992		08/05/1992	T		8155704015	RICHMOND	VA
9216653	WILLIAM MCKISSOUCK	P	VA	04/13/1992			T		8155877006	RICHMOND	VA
9216657	ORANGE WIRELESS	P	VA	04/13/1992			T		8155881006	RICHMOND	VA
9216663	M.M. & C.O. VICK PARTNER	P	VA	04/14/1992			T		8155887005	RICHMOND	VA
9318606	CELULARVISION	P	VA	10/02/1992			T		8680011010	ROANOKE PMSA	VA
9218249	CT COMMUNICATIONS CORP	P	WA	09/29/1992			T		8155398001	BREMERTON	WA
9211454	FORESIGHT COMMUNICATIONS	P	WA	04/20/1992		06/24/1992	T		8155901006	OLYMPIA	WA
9218226	MCKISSOCK, WILLIAM J.	P	WA	08/24/1992			T		8155284003	OLYMPIA	WA
9218264	CT COMMUNICATIONS CORP	P	WA	09/29/1992			T		8155404006	OLYMPIA	WA
9111303	LDH INTERNATIONAL INC	P	WA	02/20/1991		05/15/1991	TE		8155709005	SEATTLE-EVERETT	WA
9112781	HOVNANIAN, ARA K	P	WA	07/15/1991		08/21/1991	TE		8155264001	SEATTLE-TACOMA	WA
9200665	BSV PARTNERSHIP	P	WA	06/16/1992			T		8155082014	SPOKANE	WA
9211133	HORNBY, HAROLD	P	WA	03/06/1992		05/13/1992	T		8155564004	SPOKANE	WA
9211356	SARKIS KRIKORIAN	P	WA	04/06/1992		06/24/1992	T		8155816005	SPOKANE	WA
9215446	NEW SOUTH ASSOCIATES	P	FL	12/05/1991		02/05/1992	TE			SPOKANE	WA
9318519	SKYLINE ENTRTNMNT NTWORK	P	WA	10/23/1992			T		8680075014	SPOKANE	WA
9200457	BMB PARTNERSHIP	P	WA	04/13/1992			T		8155877007	TACOMA	WA
9210710	JORGENSEN, DAVID G.	P	WA	12/26/1992		02/12/1992	TE		8155032003	TACOMA	WA
9211823	HASCOE, NORMAN	P	WA	06/17/1992			T		8155087002	TACOMA	WA

FILE NUMBER	APPLICANT			FILE DATE	ACTION DATE	PN DATE		CALL SIGN	FEE NUMBER	SERVICE AREA	
9218225	TOMPKINS, W. WOODRUFF	P	WA	08/24/1992			T		8155284005	TACOMA	WA
9218183	TITLE TOWN TV	P	WI	07/20/1992			T		8155172007	GREEN BAY	WI
9218115	SILBERMAN, MARK	P	WI	06/30/1992			T		8155121005	MADISON	WI
9218258	CT COMMUNICATIONS CORP	P	WI	09/29/1992			T		8155398009	MADISON	WI
9216578	MADISON WIRELESS	P	WI	03/16/1992		08/05/1992	S		8155609004	MADISON MSA	WI
9318268	PAUL LIKINS	P	WI	10/02/1992			T		868001004	MADISON, WI MSA	WI
9200604	BACHOW, PAUL S.	P	WI	04/30/1992			T		8155934002	MILWAUKEE	WI
9200670	BSV PARTNERSHIP	P	WI	05/04/1992			T		8155943002	MILWAUKEE	WI
9210961	FEINBERG, JUDY	P	WI	01/13/1992		03/04/1992	T		8155178004	MILWAUKEE	WI
9211526	FOUR M MLDS GROUP	P	WI	05/04/1992			T		8155944002	MILWAUKEE	WI
9211530	ILOHCA CORP	P	WI	05/04/1992			T		8155943003	MILWAUKEE	WI
9215152	CLAY MARSTON	P	WI	11/01/1991		12/11/1991	TE			MILWAUKEE	WI
9218039	ORANGE WIRELESS PARTNERS	P	WI	05/05/1992			T		8155944004	MILWAUKEE	WI
9218122	CONE, S.E., JR.	P	WI	05/04/1992			T		8155944003	MILWAUKEE	WI
9218162	ALDA MULTICHANNELS, LTD	P	WI	06/17/1992			T		8155088008	MILWAUKEE	WI
9215937	ROBERT ROSENKRANZ	P	WI	02/13/1992		05/20/1992	T		8155405006	MILWAUKEE PMSA	WI
9218198	VIRGINIA COMMUNICATIONS	P	WV	08/05/1992			T		8155224004	HUNTINGTON	WV
9218211	HUGHES, LEONARD	P	WY	08/10/1992			T		8155236004	CASPER	WY
9218214	HUGHES, LEONARD	P	WY	08/10/1992			T		8155236006	CHEYENNE	WY

ATTACHMENT 'A'

UNIVERSITY OF CALIFORNIA

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J.W. PELTASON
President

RONALD W. BRADY
Senior Vice President——
Administration

OFFICE OF THE PRESIDENT
300 Lakeside Drive
Oakland, California 94612-3550

January 27, 1993

Andrew Barrett
Commissioner
Federal Communications Commission
1919 M Street, NW
Washington, D.C. 20554

Educational Use of the 28 GHz Sprectrum

Dear Commissioner Barrett:

Because the 28 GHz radio spectrum is currently underutilized, we are pleased to know that the Commission is proposing to open this spectrum to a new local multipoint distribution service (LMDS) for interactive data and video transmissions. However, since the University of California is a potential LMDS licensee, we are concerned that maximum educational use will not be achieved unless a portion of this spectrum is set aside to license to local educational institutions, just as the Commission set aside part of the 2 GHz spectrum for ITFS and part of the FM spectrum for noncommercial educational FM radio stations.

We commend the University of Texas, Pan-American initiative in proving through its experimental LMDS station that the 28 GHz spectrum is a viable means of disseminating instructional, educational and informational programs and databases in an interactive mode using both video and data formats.

Congress of the United States
House of Representatives
Washington, D.C. 20515-4305

JOHN BRYANT
5TH DISTRICT, TEXAS

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COMMITTEE ON
ENERGY AND COMMERCE

COMMITTEE ON
THE JUDICIARY

COMMITTEE ON
THE BUDGET

May 6, 1993

The Honorable James M. Quello
Federal Communications Commission
Washington, D.C. 20554

Dear Mr. Chairman:

I was recently contacted by A. Scott Sudduth, Assistant Vice Chancellor for Federal Relations for The University of Texas System regarding the proposed allocation of the 28 GHz frequency during 1993.

The System is asking the FCC to consider a non-commercial designation for band B of the 28 GHz frequency for a priority use by

Academic Component Institutions:
The University of Texas at Arlington
The University of Texas at Austin
The University of Texas at Dallas
The University of Texas at El Paso
The University of Texas Pan American
The University of Texas Permian Basin
The University of Texas at San Antonio
The University of Texas Institute of Texas Cultures at San Antonio
The University of Texas at Tyler

Health Component Institutions:
The University of Texas Southwestern Medical Center at Dallas
The University of Texas Medical Branch at Galveston
The University of Texas Health Science Center at Houston
The University of Texas Health Science Center at San Antonio
The University of Texas M.D. Anderson Cancer Center
The University of Texas Health Center at Tyler

THE UNIVERSITY OF TEXAS SYSTEM

210 WEST SIXTH STREET AUSTIN, TEXAS 78701

March 16, 1993

Mike Millsap
Vice Chancellor
for Governmental Relations
(512) 499-4255

Ms. Barbara Crapa
Legislative Director
The Honorable John Bryant
208 Cannon House Office Building
Washington, D.C. 20515-4305

Dear Barbara:

I have enclosed a copy of The University of Texas System's comments on the Federal Communications Commission issue we discussed the week of March 1. Briefly, our comments are in response to the FCC proposed rulemaking on the allocation of the 28 GHz frequency during 1993.

The System is asking the FCC to consider a non-commercial designation for band B of the 28 GHz frequency for a priority use by institutions of higher education. If the educational preference is granted, institutions of higher education will utilize the channel for distance learning, as well as share the channel capacity with public

Academic Component Institutions:
The University of Texas at Arlington
The University of Texas at Austin
The University of Texas at Brownsville
The University of Texas at Dallas
The University of Texas at El Paso
The University of Texas-Pan American
The University of Texas of the Permian Basin
The University of Texas at San Antonio
The University of Texas Institute of Texan Cultures at San Antonio
The University of Texas at Tyler

Health Component Institutions:
The University of Texas Southwestern Medical Center at Dallas
The University of Texas Medical Branch at Galveston
The University of Texas Health Science Center at Houston
The University of Texas Health Science Center at San Antonio
The University of Texas M.D. Anderson Cancer Center
The University of Texas Health Center at Tyler

THE UNIVERSITY OF TEXAS SYSTEM

Office of General Counsel

201 WEST SEVENTH STREET AUSTIN, TEXAS 78701-2981

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xc: Dr. Diana S. Natalicio
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Dr. Charles B. Mullins
Executive Vice Chancellor for Health Affairs
The University of Texas System

Dr. James P. Duncan
Executive Vice Chancellor for Academic Affairs
The University of Texas System

Mr. R. Dan Burck
Executive Vice Chancellor for Business Affairs
The University of Texas System

Dr. Charles Warlick
Office of Academic Information Systems
The University of Texas System

Mr. Dan Reiss (*AIRBORNE EXPRESS*)
General Counsel
Suite 12 Group

bxc: Mr. Peter Rinfret
1 World Financial Center
23rd Floor
200 Liberty Street
N.Y., N.Y. 10128

Ms. Willi Bokenkamp (*FAX*)
The University of California
Senior Communications Analyst

COMMENTS

COMMENTS of THE UNIVERSITY OF TEXAS SYSTEM regarding the F.C.C. Proposed Rulemaking to Amend Part 1 and Part 21 of the Commission's Rules to Redesignate the 27.5 - 29.5 GHz Frequency Band and to Establish Rules and Policies for Local Multipoint Distribution Service (LMDS); CC Docket No. 92-297; RM-7872; RM-7722; PP-22; FCC 92-538; released January 8, 1993.

In response to the above referenced notice of proposed rulemaking and request for comments, The University of Texas System submits the following comments on behalf of all component institutions in the University of Texas System and makes its request for a non-commercial designation for band B of the 28 GHz frequency for a priority use by institutions of higher education, to hold in trust, for future educational use by all levels of education within each licensed Basic Trading Area (BTA).

The University urges the Commission to adopt the educational preference approach because it will be in the public interest and it will serve the greatest public good. Institutions of higher education will obtain the licenses for band B and share the channel capacity with public school districts, junior colleges, community colleges, technical and trade schools, and other non-commercial entities, such as hospitals or medical research facilities.

AN EDUCATIONAL PREFERENCE FOR INSTITUTIONS OF HIGHER EDUCATION TO APPLY FOR ONE-HALF OF THE BAND WIDTH SERVES THE PUBLIC INTEREST

Higher education must play a major role in the re-invention of America under the Clinton Administration. Education is the key to the reduction of poverty by retraining the work force to meet the challenges of the next century and distance learning will play a key role in the future of American education.

Distance learning can overcome the lack of:

(1) public transportation in many areas of the country;

(2) classroom space and instructors;

(3) remedial courses to prepare students for college; and

(4) remote access to library resources.

Institutions of higher education and the public schools in general, have been hit hard by the current economic environment. Increasing enrollment occurs at the same time of budget reductions. A solution must be found to alleviate the pressure being placed on existing institutional resources, while insuring that quality educational material is delivered

In accordance with President Clinton's call for real change in existing structures, The University of Texas proposes an innovative and entirely new way of delivering educational material that is not merely quantitatively equal, but qualitatively comparable to any course offered on-campus. These benefits will also help higher education reach certain segments of the American population that have, historically, been denied these opportunities.

In the past, wireless cable was not an appropriate technology to deliver high quality educational services because it lacked real time two-way interaction. The Texas State Higher Education Coordinating Board mandates prior approval for all recognized, "for credit", course work delivered by means of telecommunications. This is further defined as the delivery of curricular material by non-conventional methods. These rules are rigidly enforced.

The burden of proof concerning the qualitative aspects of a given course is substantial. Experience gained in providing educational material through fully interactive two-way systems has provided a strong base of evidence that teaching effectiveness is not diminished when both two-way video as well as two-way audio is incorporated into the technology.

receive the compressed and digitized audio and video signals between any two points in the network.

In spite of this capability, the current system is, however, not without its problems. Chief among these caveats is a very limited point-to-point delivery capability due to the serial nature of the network's configuration. In some cases, students may have to travel as far as 100 miles in order to reach a receiving site. Additionally, as the existing video system is solely point-to-point, classroom space and network access are severely restricted. As a result, faculty members are forced to teach multiple sessions of the course in order to accommodate all of the students wishing to enroll due to space restrictions and geographic

In addition to the rapid technological growth America is experiencing, a substantial and increasing demand has developed for continuing education in the professional disciplines. A few of the highly specialized areas higher education will serve with LMDS delivered continuing education programming include, the legal community, the medical community, and a host of corporate entities desiring additional training for their engineering and computing professionals. Higher education already has many of these programs in place and only needs a means of delivery.

Many of these disciplines are critical to the continued growth and economic development of the United States. The availability of these continuing education courses for professionals in localized areas will, in many cases, make a financial difference to the ability of a minority student to complete his or her education. The distances involved in reaching the originating sites make direct attendance prohibitive for many prospective college students in America.

Perhaps the most important benefit LMDS offers the nation is the prospect for increased levels of concurrent enrollment for high schools students in ongoing college programs. For example, Texas public schools currently support tracks identified as the College Prep and Honors programs. By establishing send and receive sites at high schools throughout the State, The University of Texas System component institutions will be able to provide college bound students with freshman level courses allowing them to earn semester credit hours while still in high school. This serves two worthy goals.

First, it accelerates the individual student's progress and enrolls him or her in the University earlier than otherwise possible. Additionally, it will eventually serve to relieve a great deal of pressure being placed upon public institutions of higher education by effectively reducing the amount of time much of the freshman population will spend on campus. A direct by-product of this relief will be the increased potential for significant redistribution of fiscal resources. Most importantly, however, will be increased graduation

programming will include a wide variety of topics ranging from clinical assessment to professional development programs. LMDS offers America the ultimate in the "electronic town hall" concept.

Granting institutions of higher education an educational preference will establish a precedent that has the potential to reverse the trend of declining academic achievement. The low end-user's cost of quickly installing a send/receive site, combined with the minimal load that will be placed upon critical existing resources will guarantee wide acceptance by institutions and the public alike. In accelerating the curricular goals of high school students, the University will make significant strides toward placing the youth of our nation on the path back to a position of international leadership in educational development.

The new administration is promoting the completion of a new "data highway" to link research centers throughout the nation. Many of the terminal ends of this highway will be institutions of higher education. Indeed, existing data links, such as the InterNet, already exist. The significance of LMDS as a metropolitan extension of the data highways is equivalent to replacing headphones with large speakers so that the entire community can receive educational programming.

While it is easy to envision a great variety of academic uses for the video portion of the system, we have also taken great care to explore the system's capability to handle data and

community colleges, and with technical and trade schools that produce educational programming.

Specific authority for institutions of higher education to hold the licenses for band B and to enter into lease-back of excess channel capacity agreements with commercial wireless cable companies and other commercial operations is also in the public interest when the lease agreements provide for ready recapture of the excess channel capacity to meet future educational needs. The commercial operations provide the transmission capacity to distribute the educational programming throughout the metropolitan area and this educational programming can become a vital adjunct to the entertainment programming available to subscribers throughout the BTA. The addressability of the LMDS technology as well as the two-way capability creates an ideal situation for continuing education courses for professionals, English language training, extension courses, as well as courses taken for academic credit at the University.

The F.C.C. can encourage agreements between commercial wireless cable operations and institutions of higher education by exempting applicants for a license for band A in the 28 GHz spectrum from the random selection or lottery process if the commercial applicant holds a lease-back agreement with the institution of higher education holding a non-commercial license for band B in the BTA. Agreements between business and education can benefit both parties as well as the public. Commercial operations leasing excess capacity benefit through greater channel capacity and access to educational programming. Placing public service programming on the leased bandwidth releases channels for more profitable programming, such as premium channels and pay per view. Higher education institutions benefit by a revenue stream from the lease of excess channel capacity as well as by obtaining a transmission capacity to cover the BTA without a large capital investment by the University. The public benefits because the 28 GHz spectrum is fully utilized.

The University of Texas System Office of Telecommunication Services (OTS) provides voice, video, and computer telecommunication services to all fifteen component institutions of The University of Texas System. In this role, OTS coordinates the introduction of new communication technology within The University of Texas System and across the membership of the state-wide regional network, THEnet, the Texas Higher Education Network. OTS views the LMDS technology as a viable medium for the connection of metropolitan education and research organizations to the emerging National Research and Education Network (NREN).

Specifically, OTS is interested in pursuing the possibility of offering Switched Multimegabit

As a development vehicle, OTS intends to work with other university systems, and appropriate packet switch providers, to establish test links between existing inter-exchange carrier points of presence and the campuses. These links will enable the testing of overall LMDS performance for these protocols including throughput and reliability. If the tests verify that LMDS is indeed useful for these purposes, efforts will be taken to introduce similar links in other major cities across the State of Texas and throughout the country.

The University of California System, The California State System, and The University of Wisconsin System have all expressed a strong desire to participate in these research efforts. In addition, The University of California has previously voiced its support of the request by The University of Texas that the F.C.C. set aside part of the 28 GHz spectrum for local educational institutions in the same manner as the F.C.C. has handled ITFS and non-commercial FM radio licenses in the past. See "Attachment A".

By granting a preference to educational license applicants seeking to use LMDS technology, in a manner similar to that used to grant ITFS licenses, the F.C.C. will enhance and broaden opportunities to develop educational applications for LMDS systems. This will occur not only in Texas, but throughout the United States and will serve the public interest better than the exclusive allocation of this range of the spectrum to commercial operators and common carriers.

In concert with existing ITFS guidelines, 1000MHz of bandwidth should be reserved for use by institutions of higher education in each Basic Trading Area, with the option to lease back excess airtime to commercial wireless cable operators or other commercial operators holding the license for the "A" channel. Higher education's interest in seeking an educational preference stems from its ability to develop highly specialized educational services in the context of a technology that is virtually made to order for their delivery.

Institutions of higher education face many special problems in our efforts to provide enormous population groups with adequate levels of high quality educational material. LMDS technology offers the promise of solving a number of these challenges while simultaneously serving the greater public interest.

SPECIFIC COMMENTS IN RESPONSE TO THE F.C.C. PROPOSED RULES

The University of Texas System concurs with the statement of Suite 12 (page 4) that the technology is "capable of immediately providing interactive high quality video, voice, and data services" and that "the public will benefit from having an innovative and competitive two-way interactive communications system capable of providing the equivalent of fiber cable service without the need to wire a community". Indeed, recent communications between Suite 12 and The University of Texas reflect a desire on the part of Suite 12 to join with the higher education community in a request that the F.C.C. dedicate one-half of

the 28 GHz spectrum for non-commercial use, with a specific educational preference to be stated in the rules.

The University of Texas System concurs with the comments of Video/Phone with regard to growing demands for video conferencing, telecommuting, telemedicine, and education (page 5) and submits that many of these demands will be met through this dedication of band B for educational use either directly or indirectly when existing commercial cable networks leased to institutions of higher education become available for commercial use.

The University of Texas System concurs with the decision of the F.C.C. not to set aside 28 GHz spectrum for MMDS system operators, as well as the F.C.C. decision regarding the structure of the 28 GHz band (pages 7-8) and the flexibility proposed for licensees, as reflected in paragraphs numbered 23 and 24 (page 9). With regard to the comments made in footnote 7 on page 9, The University of Texas System would point out that the 28 GHz is a fallow frequency in Mexico, that no broadcasting in Mexico is currently using this frequency, and that the proposed "coordination" is unnecessary at the current time since there are no interference problems.

The University of Texas System concurs with the decision by the F.C.C. (page 10) that LMDS licensees will have a choice regarding common carrier or non-common carrier status, on a channel-by-channel basis and/or cell-by-cell basis, particularly in light of the ability to tailor the LMDS cells to fit certain unique areas, such as the Houston Medical Center,

preference for license applications filed by institutions of higher education which propose a non-commercial use of this band. Specific authority for lease-back agreements should also be contained in the rules.

Attached as "Attachment B" to these comments is a draft of a revision of proposed rule 21.1012 that incorporates this educational preference in band B, as well as a preference for commercial applicants for band A who contract with institutions of higher education holding band B licenses in the same BTA.

On page two of the proposed rules, under 21.1001, the educational preference should be identified as a priority for use of band B. On page six, under 21.1005, the rule should be revised to permit the applicant to subdivide or otherwise modify the Rand McNally BTA proposed as the license area in order to meet local conditions.

Attachments

UNIVERSITY OF CALIFORNIA

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Although we are unable to participate in the meeting on this topic on January 28, 1983 which Bob Giddings and Steve Copold of the University of Texas arranged with you, please be assured that we support their efforts to ensure that a portion of the 28 GHz spectrum will be set aside for licensing to educational institutions. If there is additional information on potential educational use of interactive 28 GHz which we can provide you, please contact Ms. Willi Bokenkamp of my staff at (510) 987-0373.

Sincerely,

Richard West

Richard West
Associate Vice President
Information Systems and
Administrative Services

cc: Robert Giddings, University of Texas
Steve Copold, University of Texas, Pan-American
Beverly McDonald, University of California
Willi Bokenkamp, University of California

ATTACHMENT 'B'

Section 21.1012 Spectrum Utilization and Permissible Use

(a) Within each service area, the frequency band 28.5 - 29.5 GHz, band B, is hereby reserved for use by public and private accredited institutions of higher education to hold in trust for all educational institutions in the BTA and to transmit formal educational programming as well as other educational applications of the voice, data and video technology available for use in this frequency band, including, but not limited to, visual and aural educational, instructional and cultural material to selected receiving locations, in-service training and instruction in special skills and safety programs, extension of professional training, informing persons and groups engaged in professional and technical activities of current developments in their particular fields, dissemination of scientific knowledge and advances in the delivery of health care services, and other similar endeavors. Applications for band B licenses by institutions of higher education will automatically receive an educational preference under 21.1001, and shall be exempt from random selection under 1.826.

(b) To ensure full spectrum utilization, a licensee in the 28.5 - 29.5 GHz frequency may use or lease excess capacity to transmit material not qualifying as education programming, such as entertainment video transmitted by a commercial wireless cable operation, so long as the licensee preserves, through actual use and ready recapture, most of the 28.5 - 29.5 GHz frequency for educational and cultural programming.

(c) Within each service area, the frequency band 27.5 - 28.5 GHz, band A, is reserved for the delivery of entertainment video programming as well as voice, data and other video uses to multiple locations throughout the service area. A licensee in this frequency is authorized to lease excess capacity from institutions of higher education for the purpose of a combined transmission over the entire 27.5 - 29.5 GHz (28 GHz) band, and the existence of such a leasing agreement shall entitled the applicant for a band A license to receive a preference under 21.1001 and exempt the applicant from the random selection process under 1.826.

(d) All applicants for LMDS must submit as part of the application a detailed plan indicating how the bandwidth requested will be utilized. In particular, the application must contain detailed descriptions of the cellular configuration with polarization diversity, the modulation method, the channel time sharing method, any error detecting and/or correcting codes, any spatial frequency reuse system and the total data throughput capacity in each of the links in the system. Further, the application must include a separate analysis of the spectral efficiency including both information bits per unit bandwidth and the total bits per unit bandwidth.