NEW BERNE IN
TABULATION OF TV/FM CONTOUR CALCULATIONS ON CHANNEL 217

AZIMUTH	ERP, KW.	HAAT (M)	70/50%	60/50%	40/10%	54/10%	80/10%	100/10%	76/10%
0	.3938	95.404	7.7764	14.312	47.503	21.324	4.39	.95037	5.5495
45	2.9131	97.842	13.595	24.171	74.917	35.243	7.3381	2.2503	9.5713
90	6.3	92.051	15.459	27.75	86.108	42.055	8.7531	2.6976	11.435
135	6.3	108.51	16.961	29.836	88.984	45.458	9.8394	2.8812	12.522
180	1.1113	102.72	11.11	19.401	61.897	28.733	5.9491	1.6464	7.4616
225	1.3331	92.66	10.976	19.143	62.246	28.455	5.8805	1.6988	7.3742
270	1.2197	99.015	11.137	19.451	62.349	28.791	5.9604	1.6835	7.4759
315	.3629	110.95	8.394	15.1	49.938	22.97	4.6637	.98469	5.9359
5	.4939	96.013	8.3058	15.011	50.35	22.803	4.6476	1.0675	5.8873
10	.60543	95.946	8.8944	15.6	52.907	24.048	4.8763	1.1815	6.1715
20	.95823	96.489	10.267	17.782	58.82	26.953	5.5392	1.4904	6.9421
30	1.5126	97.031	11.632	20.403	64.742	29.842	6.1994	1.8118	7.7788
40	2.3442	97.571	12.944	22.922	71.548	32.916	6.9397	2.1045	8.9206
50	3.6389	97.199	14.2	25.333	78.19	37.419	7.7084	2.391	10.177
60	5.6858	95.913	15.415	27.665	85.113	41.804	8.7093	2.6714	11.391
70	6.3	94.626	15.629	28.077	86.573	42.606	8.923	2.7248	11.605
80	6.3	93.34	15.544	27.912	86.341	42.332	8.8382	2.7111	11.52
100	6.3	95.708	15.7	28.213	86.766	42.836	8.9945	2.7364	11.677
110	6.3	99.366	15.942	28.677	87.413	43.602	9.2359	2.7763	11.918
120	6.3	103.02	16.264	29.139	88.049	44.354	9.4771	2.8173	12.159
130	6.3	106.68	16.729	29.604	88.675	45.094	9.7187	2.8596	12.401
140	6.0505	107.87	16.653	29.528	88.227	44.92	9.6794	2.8458	12.362
150	4.1334	106.58	15.19	27.235	81.885	40.771	8.4848	2.5704	11.167
160	2.6618	105.29	13.824	24.61	74.987	35.993	7.4818	2.2577	9.8003
170	1.7035	104.01	12.439	21.951	68.058	31.548	6.6382	1.9441	8.4159
190	.72828	100.48	9.7315	16.753	56.206	25.815	5.2785	1.325	6.6184
200	.72828	98.25	9.5844	16.472	55.735	25.508	5.2083	1.3106	6.5257
210	1.1113	96.013	10.668	18.551	60.595	27.8	5.7325	1.6013	7.1868
220	1.2758	93.779	10.922	19.039	61.905	28.341	5.8548	1.6777	7.3417
230	1.4214	93.371	11.21	19.592	63.202	28.949	5.9932	1.7452	7.5182
240	1.5126	94.794	11.485	20.12	64.263	29.53	6.1265	1.7957	7.6875
250	1.575	96.217	11.697	20.526	65.18	29.977	6.2296	1.8324	7.8177
260	1.4214	97.641	11.492	20.133	64.008	29.543	6.1316	1.7751	7.6927
280	1.0334	101.7	10.831	18.865	60.801	28.143	5.813	1.5879	7.2908
290	.86247	104.35	10.479	18.189	59.087	27.396	5.6419	1.4696	7.0784
300	.64512	106.99	9.8081	16.9	56.085	25.972	5.3129	1.2876	6.6727
305	.52983	110.95	9.4961	16.301	54.497	25.307	5.1575	1.1898	6.4882
310	.42588	110.95	8.8601	15.566	51.866	23.958	4.8441	1.0667	6.1854
320	.30492	110.95	7.95	14.593	47.912	21.895	4.4714	.9026	5.6861
325	.252	110.95	7.614	14.038	45.987	20.717	4.2607	.82056	5.4127
330	.19961	110.95	7.2029	13.359	43.633	19.278	4.0032	.73029	5.0783
335	.18207	105.76	6.8283	12.749	41.634	17.996	3.7858	.67993	4.7939
340	.19961	100.58	6.7778	12.674	41.489	17.849	3.7721	.69403	4.7709
345	.20186	97.839	6.6841	12.526	41.021	17.54	3.7245	.68861	4.7184
350	.252	98.153	7.0925	13.193	43.399	18.952	3.9709	.77059	5.0075
355	.3189	96.013	7.4245	13.738	45.416	20.107	4.1771	.8578	5.2722
AREAS, Sq. Km. :			475.28	1491.7	14643	3347.2	146.79	12.152	239.99

OVERALL HEIGHT ABOVE AVERAGE TERRAIN = 99.895 (M)

ALL HEIGHTS IN METERS. ALL CONTOUR DISTANCES IN KILOMETERS.

ALL CONTOURS IN DBU AS DETERMINED BY BIVARIATE INTERPOLATION
USING VALUES FROM APPROPRIATE FCC F(50,50) AND F(50,10) CURVES.

FM BLANKETING CONTOUR 115 dBu = .61 MILES, .99 KM.
CALCULATED PURSUANT TO R&R 73.318(a) FOR MAXIMUM ERP.

Exhibit E-6 - Figure 1
Faith Christian Academy
Berne, Indiana
Tabulation Of Contour Calculations

TERRAIN AVERAGING PROGRAM
BASED ON NGDC 30 SECOND DATABASE

1727-174 NEW BERNE IN

N LAT: 404450
W LNG: 851021

BEARING DEG.	2-10 MI. ELEVATION METERS	FEET
0	255	838
45	253	830
90	259	849
135	242	795
180	248	814
225	258	847
270	252	826
315	240	787
5	255	836
305	240	787
310	240	787
320	240	787
325	240	787
330	240	787
335	245	804
340	250	821
345	253	830
350	253	829
355	255	836
AVERAGE:	251	823

Exhibit E-6 - Figure 2
Faith Christian Academy
Berne, Indiana
Terrain Averaging Program

Exhibit K-6 - Figure 3
Faith Christian Academy
Berne, Indiana
Tabulation Of Radial Data

DIST	0	45	90	135	180	225	270	315
0	806	806	806	806	806	806	806	806
.1	796	799	799	796	792	790	789	791
.2	798	806	804	796	791	787	787	787
.3	802	813	809	795	789	787	787	788
.4	806	819	809	793	787	787	787	791
.5	810	821	809	789	787	787	787	792
.6	814	824	809	787	787	787	787	792
.7	818	828	809	787	787	787	787	790
.8	822	833	815	787	787	787	787	788
.9	828	839	825	787	787	787	787	787
1	834	847	835	787	787	787	787	787
1.1	839	853	845	789	787	787	787	788
1.2	845	853	853	790	787	787	787	789
1.3	851	853	853	789	787	787	787	789
1.4	853	853	853	787	787	787	787	788
1.5	853	853	853	787	787	787	787	787
1.6	853	853	853	787	787	787	787	787
1.7	853	853	853	788	787	787	787	787
1.8	853	853	853	791	787	787	787	787
1.9	853	853	853	791	787	787	787	787
2	853	853	853	791	787	787	787	787
2.1	853	853	853	789	787	790	787	787
2.2	853	853	853	787	787	796	787	787
2.3	853	853	853	787	787	801	787	787
2.4	853	853	853	787	787	806	787	787
2.5	853	853	853	787	787	812	787	787
2.6	853	853	853	787	787	817	787	787
2.7	853	853	853	787	787	822	787	787
2.8	853	853	853	787	787	828	787	787
2.9	853	853	853	787	787	833	787	787
3	853	853	853	787	787	838	787	787
3.1	853	853	853	787	787	844	787	787
3.2	853	853	853	787	787	849	787	787
3.3	853	853	853	787	787	853	787	787
3.4	853	853	853	787	787	853	787	787
3.5	853	853	853	787	787	853	787	787
3.6	853	853	853	787	787	853	787	787
3.7	853	853	853	787	787	853	787	787
3.8	853	853	853	787	787	853	787	787
3.9	853	853	853	787	787	853	787	787
4	853	853	853	787	787	853	787	787
4.1	853	853	853	787	787	853	787	787
4.2	853	853	853	787	787	853	787	787
4.3	853	853	853	787	787	853	787	787
4.4	853	853	853	787	787	853	787	787
4.5	853	853	853	787	787	853	787	787
4.6	853	853	853	787	787	853	787	787
4.7	853	853	853	787	787	853	787	787
4.8	853	853	853	787	787	853	787	787
4.9	853	853	853	787	787	853	787	787
5	853	853	853	787	787	853	792	787

Exhibit E-6 - Figure 4
Faith Christian Academy
Berne, Indiana
Tabulation Of Radial Data

DIST	0	45	90	135	180	225	270	315
5.1	853	853	853	787	787	853	799	787
5.2	853	853	853	787	787	849	807	787
5.3	853	853	853	787	787	844	814	787
5.4	853	853	853	787	787	839	822	787
5.5	853	853	853	787	787	835	829	787
5.6	853	853	853	787	787	834	837	787
5.7	853	853	853	787	787	833	844	787
5.8	853	853	853	787	787	837	852	787
5.9	853	853	853	787	787	843	853	787
6	853	853	853	787	787	847	853	787
6.1	853	848	853	787	787	851	853	787
6.2	853	842	853	787	791	853	853	787
6.3	853	837	853	787	797	853	853	787
6.4	853	832	853	787	803	853	853	787
6.5	853	826	853	787	808	853	853	787
6.6	853	821	853	787	814	853	853	787
6.7	853	820	853	789	820	853	853	787
6.8	853	820	853	790	824	853	853	787
6.9	853	820	853	790	828	853	853	787
7	853	820	853	789	832	853	853	787
7.1	853	820	853	787	836	853	853	787
7.2	853	820	853	787	840	853	853	787
7.3	853	820	853	790	843	853	853	787
7.4	853	820	853	792	845	853	853	787
7.5	853	820	853	794	847	853	853	787
7.6	853	820	853	794	849	853	853	787
7.7	851	820	853	792	850	853	853	787
7.8	845	820	853	790	852	853	853	787
7.9	840	818	853	790	853	853	853	787
8	834	812	853	795	853	853	853	787
8.1	828	807	853	800	853	853	853	787
8.2	822	802	853	806	853	853	853	787
8.3	817	796	853	811	853	853	853	787
8.4	811	791	853	816	853	853	853	787
8.5	805	787	853	820	853	853	853	787
8.6	800	787	853	820	853	853	853	787
8.7	794	787	853	820	853	853	853	787
8.8	788	787	853	820	853	853	853	787
8.9	787	787	853	820	853	853	853	787
9	787	787	853	820	853	853	853	787
9.1	787	787	849	820	853	853	853	787
9.2	787	787	842	820	853	853	853	787
9.3	787	787	834	820	853	853	853	787
9.4	787	787	827	820	853	853	853	787
9.5	787	787	820	820	853	853	853	787
9.6	787	787	815	820	853	853	853	787
9.7	787	787	810	820	853	853	853	787
9.8	787	787	805	820	853	853	853	787
9.9	787	787	800	820	853	853	853	787
10	787	787	796	820	853	853	853	787

Exhibit E-6 - Figure 5
Faith Christian Academy
Berne, Indiana
Calculations Of H.A.A.T.

HDG	TERR	HAAT
0	838	313
45	830	321
90	849	302
135	795	356
180	814	337
225	847	304
270	826	325
315	787	364
ALL	823	328

MIN ELEV = 787
MAX ELEV = 853

NEW BERNE IN CHANNEL 217B1 REF. N404450 W851021

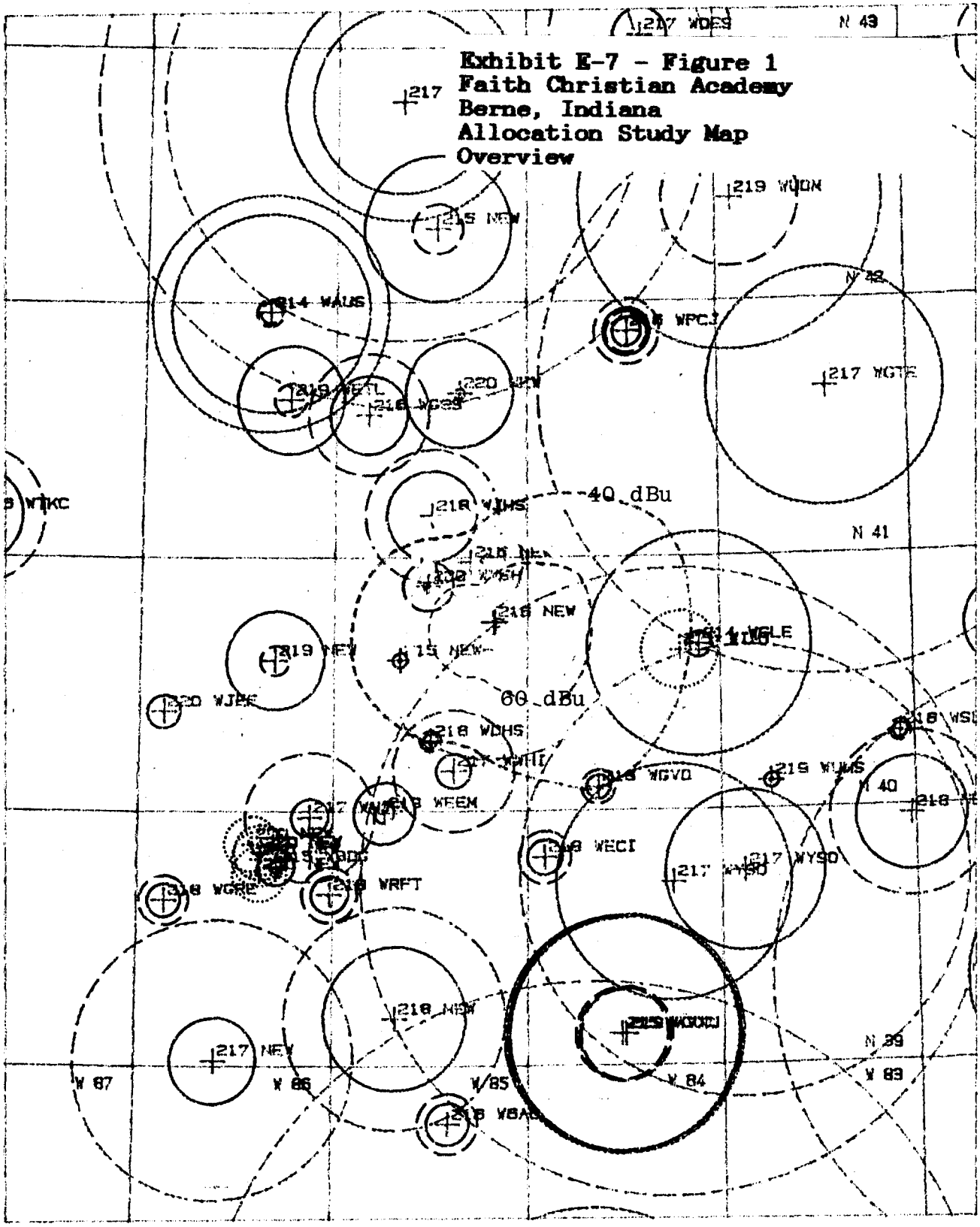


Exhibit E-7 - Figure 1
Faith Christian Academy
Berne, Indiana
Allocation Study Map
Overview

SCALE OF MILES 2500000

0 20 40 60 80 100 120 140 160 180 200

IDENTIFICATION OF FACILITIES AND CONTOURS ON ALLOCATION MAP

NEW BERNE IN

REFERENCE POINT: N LAT 40-44-50 W LNG 85-10-21

Exhibit E-7 - Figure 2
Faith Christian Academy
Berne, Indiana
Identification Of Facilities
For Allocation Study Map

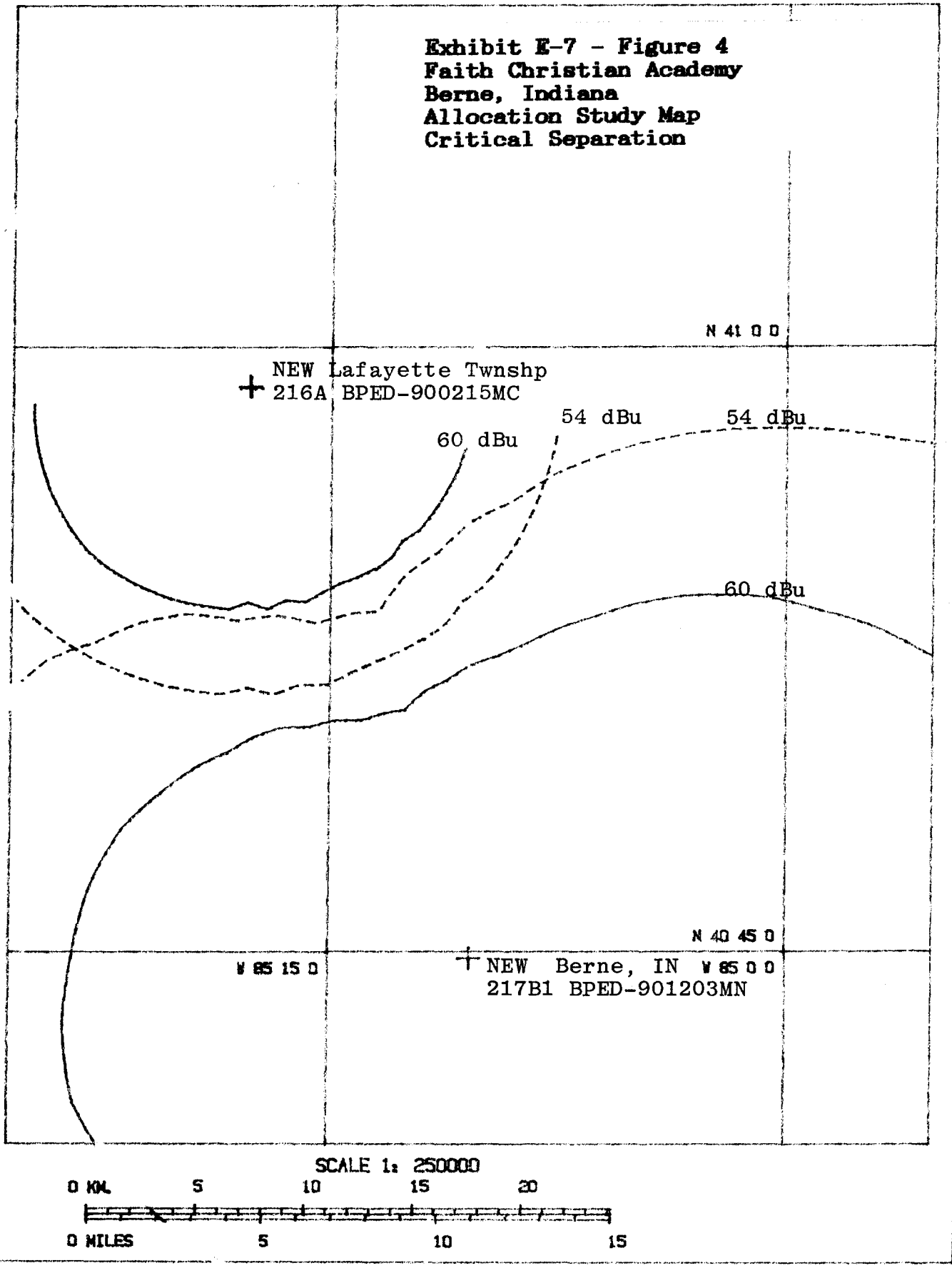
EDUCATIONAL FM ALLOCATION STUDY FOR CHANNEL 217 B1
(FREQUENCY 91.3 MHZ.)

CHAN	CALL	CITY AND STATE	CL/TYP	MILES	KM.	AZIMUTH	ERP	HAAT(M)	RELEVANT CONTOURS AND DISTANCES
214D	WBHI	Chicago IL	D LI	149.61	240.77	298.44	0	17	
214B	WAUS	Berrien SprinMI	B LI	103.75	166.96	324.4	48	98	PC1mv/m=27.009mi. INTF100mv/m=2.8975mi.
214B	WAUS	Berrien SprinMI	B AP	103.81	167.06	324.33	50	150	PC1mv/m=32.231mi. INTF100mv/m=3.6803mi.
214B	WGLE	Lima OH	B LI	56.167	90.392	96.243	50	128	PC1mv/m=30.477mi. INTF100mv/m=3.4379mi.
214D	WVMC	Mansfield OH	D LI	138.66	223.15	89.862	.01	0	PC1mv/m=1.9759mi. INTF100mv/m=-1.2762mi.
215A	WBDG	Indianapolis IN	A LI	88.905	143.07	221.92	.4	24	PC1mv/m=5.0098mi. INTF10mv/m=1.6523mi.
215D	NEW-	Marion IN	D AP	27.407	44.107	247.98	.01	0	PC1mv/m=1.9759mi. INTF10mv/m=.34983mi.
215B	NEW	Galesburg MI	B AP	107.95	173.72	351.93	50	48	PC1mv/m=19.917mi. INTF10mv/m=6.8493mi.
215B	WGUC	Cincinnati OH	B LI	117.19	188.59	162.69	15	268	PC1mv/m=32.082mi. INTF10mv/m=12.595mi.
215A	WNZR	Mount Vernon OH	A LI	144.68	232.83	99.507	0	0	
216A	WTKC	Kankakee IL	A CP	143.99	231.72	282.24	1.75	93	PC1mv/m=12.867mi. INTF.5mv/m=18.77mi.
216B1	NEW	Berne IN	B1AP	0	0	0	25	100	PC1mv/m=23.908mi. INTF.5mv/m=37.319mi.
216D	WDHS	Gaston IN	D LI	36.49	58.724	208.14	.01	28	PC1mv/m=1.9759mi. INTF.5mv/m=2.8177mi.
216B1	WGCS	Goshen IN	B1LI	65.853	105.98	329.06	7.4	18	PC1mv/m=10.552mi. INTF.5mv/m=16.404mi.
216A	WEDM	Indianapolis IN	A LI	79.077	127.26	213.65	0	0	
216A	NEW	Lafayette TowIN	A AP	17.475	28.123	338.57	1	65	PC1mv/m=9.3323mi. INTF.5mv/m=14.223mi.
216D	WGAO	Madison IN	D CP	136.82	220.19	185.37	.6	0	PC1mv/m=5.7435mi. INTF.5mv/m=8.2521mi.
216D	WGAC	Valparaiso IN	D LI	111.23	179.00	297.66	0	0	
216A	WPCJ	Pittsford MI	A AP	86.554	139.29	24.632	.27	56	PC1mv/m=6.3905mi. INTF.5mv/m=8.8991mi.
216A	WPCJ	Pittsford MI	A LI	86.554	139.29	24.632	.1	38	PC1mv/m=3.8553mi. INTF.5mv/m=5.6253mi.
216D	WGAH	Ashland OH	D LI	149.79	241.06	86.057	0	0	
216D	WSLN	Delaware OH	D LI	114.67	184.54	105.13	.01	0	PC1mv/m=1.9759mi. INTF.5mv/m=2.8177mi.
216A	WDUB	Granville OH	A LI	147.31	237.07	107.67	0	0	
217A		Chatham ON	A	198.54	319.51	52.587	0	0	
217A	NEW	Bloomington IN	A AP	141.21	227.25	212.89	1.2	95	PC1mv/m=11.714mi. INTF.1mv/m=38.131mi.
217A	WHJE	Carmel IN	A LI	72.845	117.23	223.52	.4	30	PC1mv/m=5.0098mi. INTF.1mv/m=17.614mi.
217A	WNHI	Muncie IN	A LI	41.789	67.252	195.12	.31	24	PC1mv/m=4.7149mi. INTF.1mv/m=16.589mi.
217C	WUKY	Lexington KY	C LI	205.81	331.21	172.52	95	306	PC1mv/m=44.948mi. INTF.1mv/m=106.44mi.
217A	WCHW	Bay City MI	A LI	207.13	333.34	18.274	.11	38	PC1mv/m=3.9385mi. INTF.1mv/m=13.785mi.
217B	WCSG	Grand Rapids MI	B CP	143.53	230.98	350.3	36	174	PC1mv/m=32.247mi. INTF.1mv/m=83mi.
217B	WCSG	Grand Rapids MI	B LI	143.53	230.98	350.3	9	174	PC1mv/m=24.841mi. INTF.1mv/m=65.092mi.
217A	WOES	Ovid-Elsie MI	A LI	163.71	263.46	14.011	.55	52	PC1mv/m=7.3499mi. INTF.1mv/m=24.773mi.
217A	WSGR	Port Huron MI	A LI	209.16	336.61	41.569	.12	13	PC1mv/m=3.7132mi. INTF.1mv/m=12.773mi.
217B	WOUB	Athens OH	B LI	188.43	303.24	120.78	50	152	PC1mv/m=32.389mi. INTF.1mv/m=85.739mi.
217B	WGTE	Toledo OH	B LI	110.34	177.57	54.625	13.5	289	PC1mv/m=32.404mi. INTF.1mv/m=78.141mi.
217B	WYSO	Yellow SpringOH	B AP	85.976	138.36	145.24	50	148	PC1mv/m=32.073mi. INTF.1mv/m=85.401mi.
217B1	WYSO	Yellow SpringOH	B1LI	96.167	154.76	134.63	10	122	PC1mv/m=21.77mi. INTF.1mv/m=61.397mi.
218A	WJHS	Columbia CityIN	A LI	33.561	54.011	330.05	2.65	67	PC1mv/m=12.261mi. INTF.5mv/m=18.11mi.
218A	WGRE	Greencastle IN	A LI	116.9	188.13	230.27	.11	49	PC1mv/m=4.4893mi. INTF.5mv/m=6.7mi.

Exhibit E-7 - Figure 3
Faith Christian Academy
Berne, Indiana
Identification Of Facilities
For Allocation Map, Cont'd

CHAN	CALL	CITY AND STATE	CL/TYP	MILES	KM.	AZIMUTH	ERP	HAAT(M)	RELEVANT CONTOURS AND DISTANCES
218A	WRFT	Indianapolis IN	A LI	86.248	138.80	211.33	.13	55	PC1mv/m=4.9911mi. INTF.5mv/m=7.4944mi.
218A	WRFT	Indianapolis IN	A CP	86.331	138.93	211.27	.13	55	PC1mv/m=4.9911mi. INTF.5mv/m=7.4944mi.
218A	WECI	Richmond IN	A LI	65.264	105.03	167.73	.3	32	PC1mv/m=4.7554mi. INTF.5mv/m=7.1212mi.
218B1	NEW	Westport IN	B1AP	110.92	178.50	194.18	10	100	PC1mv/m=19.474mi. INTF.5mv/m=30.219mi.
218A	NEW	Columbus OH	A AP	125.43	201.86	114.69	3	100	PC1mv/m=15.291mi. INTF.5mv/m=22.425mi.
218A	WGVO	Greenville OH	A LI	53.005	85.303	147.49	.07	29	PC1mv/m=3.2355mi. INTF.5mv/m=4.5986mi.
219A	NEW	Kokomo IN	A AP	60.216	96.908	260.62	2.1	91	PC1mv/m=13.343mi. INTF10mv/m=4.0198mi.
219A	WEEM	Pendleton IN	A LI	59.632	95.968	209.96	1.2	47	PC1mv/m=8.3515mi. INTF10mv/m=2.5546mi.
219A	WETL	South Bend IN	A LI	82.085	132.10	317.9	3	91	PC1mv/m=14.582mi. INTF10mv/m=4.4172mi.
219B	WUOM	Ann Arbor MI	B LI	131.76	212.04	29.133	93	238	PC1mv/m=41.333mi. INTF10mv/m=18.648mi.
219B	WVXU	Cincinnati OH	B LI	117.48	189.06	162.13	23	208	PC1mv/m=31.661mi. INTF10mv/m=12.302mi.
219B	WVXU	Cincinnati OH	B CP	117.48	189.06	162.13	26	208	PC1mv/m=32.36mi. INTF10mv/m=12.765mi.
219A	WOSV	Mansfield OH	A LI	141.03	226.96	90.194	.75	137	PC1mv/m=12.907mi. INTF10mv/m=3.9083mi.
219D	WUHS	Urbana OH	D LI	87.143	140.24	119.76	.01	0	PC1mv/m=1.9759mi. INTF10mv/m=.34983mi.
220A	NEW	Howe IN	A AP	62.988	101.36	351.49	3	91	PC1mv/m=14.582mi. INTF100mv/m=1.3729mi.
220A	WVSH	Huntington IN	A LI	20.351	32.751	299.65	.92	34	PC1mv/m=6.8045mi. INTF100mv/m=.37531mi.
220A	WJEF	Lafayette IN	A LI	92.712	149.20	255.42	.25	28	PC1mv/m=4.4691mi. INTF100mv/m=-.13965mi.
220A	WKCO	Gambier OH	A LI	148.38	238.79	99.138	.26	58	PC1mv/m=6.4862mi. INTF100mv/m=.30417mi.
220D	WOAL	Washington, eOH	D LI	123.08	198.07	132.73	0	0	
270A	NEW	Brownsburg IN	A AP	88.901	143.07	227.87	1.35	150	REQUIRED SEPARATION 11.9km/7.4254mi
270A	NEW	Brownsburg IN	A AP	88.718	142.77	225.7	3	100	REQUIRED SEPARATION 11.9km/7.4254mi
270A	NEW	Brownsburg IN	A AP	93.213	150.01	223.28	3	91	REQUIRED SEPARATION 11.9km/7.4254mi
270A	NEW	Brownsburg IN	A AP	90.341	145.38	225.11	2.5	51	REQUIRED SEPARATION 11.9km/7.4254mi
270A	NEW	Brownsburg IN	A AP	88.71	142.76	225.62	3	100	REQUIRED SEPARATION 11.9km/7.4254mi
270A	NEW	Brownsburg IN	A AP	88.901	143.07	227.87	1.35	150	REQUIRED SEPARATION 11.9km/7.4254mi
271B	WIMT	Lima OH	B LI	51.254	82.485	98.473	11	323	REQUIRED SEPARATION 16.9km/10.532mi

NEW BERNE IN | Channel 217B1 Ref. N404450 W851021



NEW LAFAYETTE TOWNSHIP IN
TABULATION OF TV/FM CONTOUR CALCULATIONS ON CHANNEL 216

Exhibit E-7 - Figure 5
Faith Christian Academy
Berne, Indiana
Tabulation Of Contour Calculations
NEW Lafayette Twnshp, IN

AZIMUTH	ERP, KW.	HAAT (M)	60/50%	54/10%
0	.2	54.301	9.1861	13.209
45	.2	77.399	11.15	15.174
90	.2	69.901	10.655	14.679
135	.2	63.201	10.213	14.237
180	.19208	63.201	10.096	14.119
225	.2	72.199	10.807	14.8[illegible]
270	.2	61.701	10.114	14.[illegible]38
315	.2	56.599	9.4895	13.513
130	.2	67.[illegible]57	10.468	14.491
140	.2	66.752	10.448	14.471
145	.2	66.752	10.448	14.471
14[illegible]	.2	65.838	10.387	14.411
150	.2	64.618	10.307	14.33
155	.2	62.79	10.186	14.209
160	.2	63.704	10.246	14.27
165	.2	66.752	10.448	14.471
170	.1805	67.057	10.169	14.192
175	.2	67.057	10.468	14.491
185	.2	67.057	10.468	14.491
190	.2	67.057	10.468	14.491

AREAS, Sq. Km. : 328.93 637.98

OVERALL HEIGHT ABOVE AVERAGE TERRAIN = 64.813 (M)

ALL HEIGHTS IN METERS. ALL CONTOUR DISTANCES IN KILOMETERS.

ALL CONTOURS IN DBU AS DETERMINED BY BIVARIATE INTERPOLATION
USING VALUES FROM APPROPRIATE FCC F(50,50) AND F(50,10) CURVES.

FM BLANKETING CONTOUR 115 dBu = .11 MILES, .18 KM.
CALCULATED PURSUANT TO R&R 73.318(a) FOR MAXIMUM ERP.

Exhibit E-7 - Figure 6
Faith Christian Academy
Berne, Indiana
Terrain Averaging Program
NEW Lafayette Twnshp, IN

TERRAIN AVERAGING PROGRAM
BASED ON NGDC 30 SECOND DATABASE

1727-174 NEW LAFAYETTE TWNSHP IN

N LAT: 405858
W LNG: 851742

BEARING DEG.	2-10 MI. ELEVATION METERS	FEET
0	256	841
45	231	758
90	238	781
135	240	787
180	240	787
225	234	769
270	248	814
315	252	826
130	240	787
140	240	788
145	241	791
150	242	795
155	244	801
160	243	798
165	240	788
170	240	787
175	240	787
185	240	787
190	240	787
AVERAGE:	242	795

Exhibit E-7 - Figure 7
Faith Christian Academy
Berne, Indiana
Calculation Of H.A.A.T.
NEW Lafayette Twnshp, IN

HDG	TERR	HAAT
0	841	166
45	758	249
90	781	226
135	787	220
180	787	220
225	769	238
270	814	193
315	826	181
ALL	795	212

MIN ELEV = 755
MAX ELEV = 853

NEW BERNE IN Channel 217B1 Ref. N404450 W851021

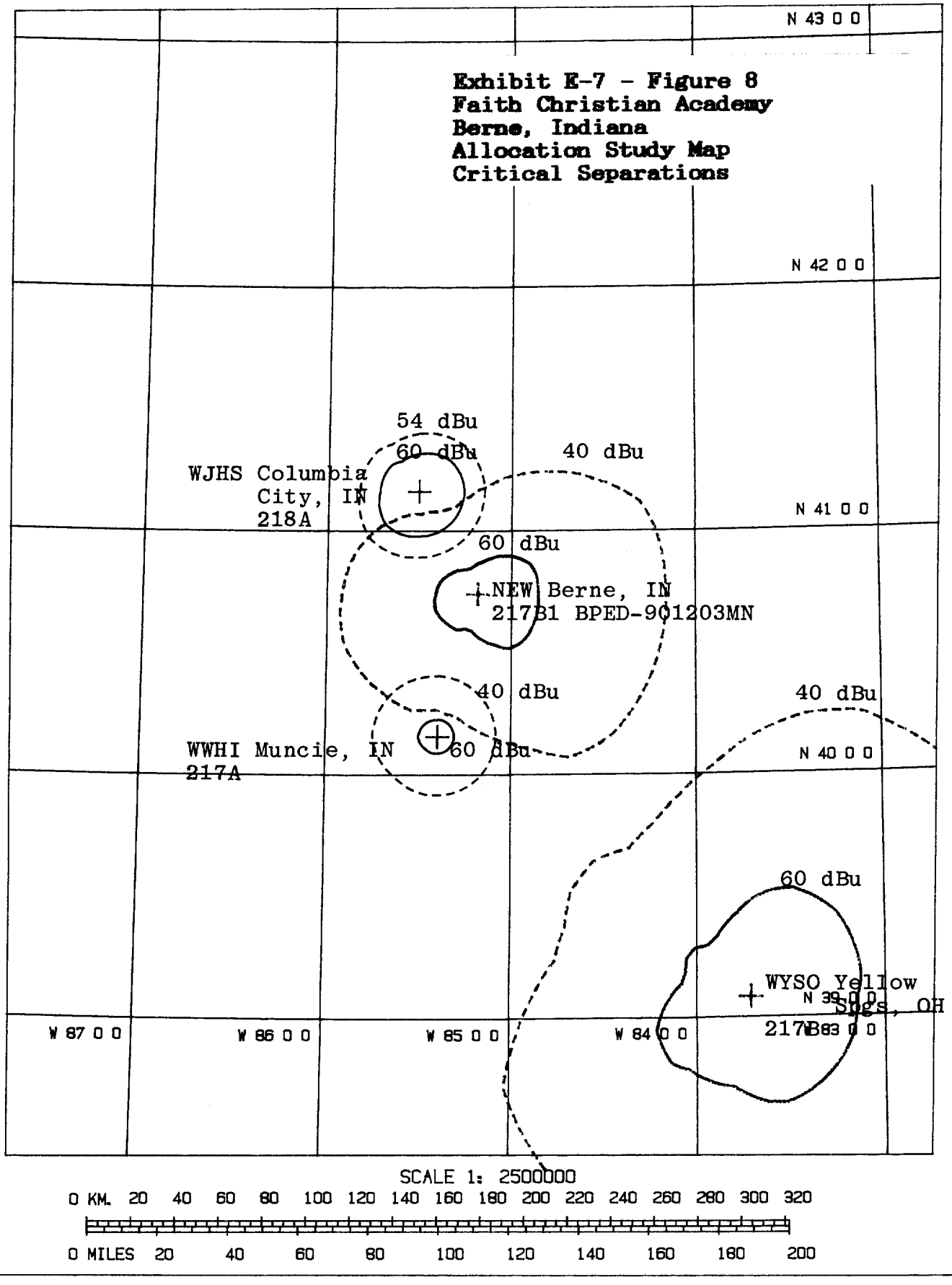


Exhibit E-7 - Figure 9
Faith Christian Academy
Berne, Indiana
WWHI Muncie, IN
Tabulation Of Contour Calculations

WWHI MUNCIE IN
TABULATION OF TV/FM CONTOUR CALCULATIONS ON CHANNEL 217

AZIMUTH	ERP, KW.	HAAT (M)	60/50%	40/10%
0	.31	34.138	7.8916	27.724
45	.31	23.165	7.5874	26.696
90	.31	19.507	7.5874	26.696
135	.31	-.91441	7.5874	26.696
180	.31	12.192	7.5874	26.696
225	.31	23.165	7.5874	26.696
270	.31	42.063	8.847	29.913
315	.31	38.71	8.4045	28.994

AREAS, Sq. Km. : 195.97 2382.7

OVERALL HEIGHT ABOVE AVERAGE TERRAIN = 24.003 (M)

ALL HEIGHTS IN METERS. ALL CONTOUR DISTANCES IN KILOMETERS.

ALL CONTOURS IN DBU AS DETERMINED BY BIVARIATE INTERPOLATION
USING VALUES FROM APPROPRIATE FCC F(50,50) AND F(50,10) CURVES.

FM BLANKETING CONTOUR 115 dBu = .14 MILES, .22 KM.
CALCULATED PURSUANT TO R&R 73.318(a) FOR MAXIMUM ERP.

TERRAIN AVERAGING PROGRAM
BASED ON NGDC 30 SECOND DATABASE

1727 BERNE IN | 013089 | WWHI MUNCIE IN

N LAT: 400945
W LNG: 852245

BEARING DEG.	2-10 MI. ELEVATION METERS	FEET
0	287	941
45	298	977
90	302	989
135	322	1056
180	309	1013
225	298	977
270	279	915
315	282	926
15	290	952
AVERAGE:	297	974

Exhibit E-7 - Figure 10
Faith Christian Academy
Berne, Indiana
WWHI Muncie, IN
Terrain Averaging Program

Exhibit E-7 - Figure 11
Faith Christian Academy
Berne, Indiana
WWHI Muncie, IN
Calcuation Of H.A.A.T

HDG	TERR	HAAT
0	941	112
45	977	76
90	989	64
135	1056	-3
180	1013	40
225	977	76
270	915	138
315	926	127
ALL	974	79

MIN ELEV = 886
MAX ELEV = 1115

Exhibit E-7 - Figure 12
Faith Christian Academy
Berne, Indiana
WJHS Columbia City, IN
Tabulation Of Contour Calculations

WJHS COLUMBIA CITY IN
TABULATION OF TV/FM CONTOUR CALCULATIONS ON CHANNEL 218

AZIMUTH	ERP, KW.	HAAT (M)	60/50%	54/10%
0	2.65	54.56	17.344	26.557
45	2.65	67.666	19.817	29.208
90	2.65	73.762	20.59	30.054
135	2.65	73.762	20.59	30.054
180	2.65	73.762	20.59	30.054
225	2.65	79.554	21.324	30.859
270	2.65	56.998	17.962	27.219
315	2.65	55.779	17.653	26.889
330	2.65	49.756	16.127	25.239

AREAS, Sq. Km. : 1199.4 2625

OVERALL HEIGHT ABOVE AVERAGE TERRAIN = 66.98 (M)

ALL HEIGHTS IN METERS. ALL CONTOUR DISTANCES IN KILOMETERS.

ALL CONTOURS IN DBU AS DETERMINED BY BIVARIATE INTERPOLATION
USING VALUES FROM APPROPRIATE FCC F(50,50) AND F(50,10) CURVES.

FM BLANKETING CONTOUR 115 dBu = .40 MILES, .64 KM.
CALCULATED PURSUANT TO R&R 73.318(a) FOR MAXIMUM ERP.

Exhibit E-7 - Figure 13
Faith Christian Academy
Berne, Indiana
WJHS Columbia City, IN
Terrain Averaging Program

TERRAIN AVERAGING PROGRAM
BASED ON NGDC 30 SECOND DATABASE

1727-174 ¦ WJHS COLUMBIA CITY IN ¦ 071890 ¦

N LAT: 411004
W LNG: 852941

BEARING DEG.	2-10 MI. ELEVATION METERS	FEET
0	279	916
45	266	873
90	260	853
135	260	853
180	260	853
225	254	834
270	277	908
315	278	912
330	283	929
AVERAGE:	267	875

Exhibit E-7 - Figure 14
Faith Christian Academy
Berne, Indiana
WJHS Columbia City, IN
Calculation Of H.A.A.T.

HDG	TERR	HAAT
0	916	179
45	873	222
90	853	242
135	853	242
180	853	242
225	834	261
270	908	187
315	912	183
ALL	875	220

MIN ELEV = 787
MAX ELEV = 951

Exhibit E-7 - Figure 15
Faith Christian Academy
Berne, Indiana
WYSO Yellow Springs, OH
Tabulation Of Contour Calculations

WYSO YELLOW SPRINGS OH
TABULATION OF TV/FM CONTOUR CALCULATIONS ON CHANNEL 217

AZIMUTH	ERP, KW.	HAAT (M)	60/50%	40/10%
0	22.445	148.44	44.685	119.23
45	50	170.69	54.478	140.53
90	45.125	135.94	49.124	133.48
135	50	141.12	50.738	136.5
180	23.12	148.44	44.931	119.91
225	18	173.43	45.73	118.06
270	8.82	148.13	36.891	100.59
315	6.125	131.07	32.053	92.029
10	36.125	153.38	49.312	130.84
20	50	158.33	52.925	138.85
30	50	163.27	53.548	139.52
40	50	168.22	54.169	140.19
50	50	166.83	53.995	140
60	50	159.11	53.025	138.95
70	50	151.39	52.048	137.9
80	50	143.67	51.064	136.85
100	45.125	137.09	49.272	133.64
110	50	138.25	50.369	136.11
120	50	139.4	50.517	136.27
130	50	140.55	50.665	136.42
140	50	141.94	50.842	136.61
150	50	143.56	51.05	136.83
160	50	145.19	51.258	137.05
170	36.98	146.81	48.684	130.48
190	14.58	153.99	41.732	110.7
200	14.58	159.55	42.366	111.44
210	14.58	165.1	43.002	112.17
220	14.58	170.66	43.641	112.94
230	22.445	170.62	47.252	122.54
240	22.445	165	46.597	121.72
250	22.445	159.38	45.945	120.89
260	14.045	153.76	41.394	109.98
280	5.445	144.34	32.469	92.079
290	5.445	140.55	32.097	91.557
300	7.605	136.76	34.401	96.108
310	7.605	132.96	33.983	95.601
320	4.805	131.19	30.708	88.327
330	5.78	131.45	31.757	91.195
340	8.82	131.7	35.068	97.982
350	14.045	131.95	38.936	106.89

AREAS, Sq. Km. : 6459.9 46071

OVERALL HEIGHT ABOVE AVERAGE TERRAIN = 149.66 (M)

ALL HEIGHTS IN METERS. ALL CONTOUR DISTANCES IN KILOMETERS.

ALL CONTOURS IN DBU AS DETERMINED BY BIVARIATE INTERPOLATION
USING VALUES FROM APPROPRIATE FCC F(50,50) AND F(50,10) CURVES.

FM BLANKETING CONTOUR 115 dBu = 1.73 MILES, 2.79 KM.
CALCULATED PURSUANT TO R&R 73.318(a) FOR MAXIMUM ERP.

Exhibit E-7 - Figure 16
Faith Christian Academy
Berne, Indiana
WYSO Yellow Springs, OH
Terrain Averaging Program

TERRAIN AVERAGING PROGRAM
BASED ON NGDC 30 SECOND DATABASE

1727 WYSO YELLOW SPRINGS OH

N LAT: 394316
W LNG: 841500

BEARING DEG.	2-10 MI. ELEVATION METERS	FEET
0	265	871
45	243	798
90	278	912
135	273	895
180	265	871
225	240	789
270	266	872
315	283	928
AVERAGE:	264	867

Exhibit E-7 - Figure 17
Faith Christian Academy
Berne, Indiana
WYSO Yellow Springs, OH
Calculation Of H.A.A.T.

HDG	TERR	HAAT
0	871	487
45	798	560
90	912	446
135	895	463
180	871	487
225	789	569
270	872	486
315	928	430
ALL	867	491

MIN ELEV = 786
MAX ELEV = 984

Exhibit E-8 - Figure 1
Faith Christian Academy
Berne, Indiana
NCE-FM To TV-06 Interference
WRTV Indianapolis, Indiana

Exhibit E-8 - Figure 1
Faith Christian Academy
Berne Indiana
WRTV INDIANAPOLIS IN RD-16 WRTV7 WRTVC
TABULATION OF TV/FM CONTOUR CALCULATIONS ON CHANNEL 6

AZIMUTH	ERP, KW.	HAAT (M)	74/50%	68/50%	47/50%
0	100	282.86	41.318	53.215	102.32
45	100	300.54	42.405	54.494	103.95
90	100	310.59	42.974	55.175	104.77
135	100	315.78	43.251	55.508	105.15
180	100	332.85	44.164	56.607	106.41
225	100	305.41	42.699	54.843	104.38
270	100	286.21	41.524	53.456	102.63
315	100	283.16	41.338	53.237	102.35
43	100	298.4	42.273	54.34	103.76
	AREAS, Sq. Km. :		5666.6	9358.4	33982

OVERALL HEIGHT ABOVE AVERAGE TERRAIN = 302.18 (M)

ALL HEIGHTS IN METERS. ALL CONTOUR DISTANCES IN KILOMETERS.

ALL CONTOURS IN DBU AS DETERMINED BY BIVARIATE INTERPOLATION
USING VALUES FROM APPROPRIATE FCC F(50,50) AND F(50,10) CURVES.

WRTV is 128.4 kilometers from the proposed new NCE-FM 217B1 facility at Berne, Indiana. The WRTV 47 dBu contour extends a maximum of 106.41 kilometers. The proposed new NCE-FM 76 dBu contour extends a maximum of 12.522 kilometers. There is, therefore, no overlap of these contours, and no area of interference will be created. See Exhibit E-8 - Figure 3, which is a plot of the WRTV 47 dBu contour and the proposed new NCE-FM 217B1 76 dBu contour.

Exhibit E-8 - Figure 2
Faith Christian Academy
Berne, Indiana
Terrain Averaging Program
WRTV Indianapolis, Indiana
BASED ON NGDC 30 SECOND DATABASE

1726 BERNE IN | WRTV INDIANAPOLIS IN | 013089 |

N LAT: 395359
W LNG: 861202

BEARING DEG.	2-10 MI. ELEVATION METERS	FEET
0	272	891
45	254	833
90	244	800
135	239	783
180	222	727
225	249	817
270	268	880
315	271	890
43	256	840
AVERAGE:	252	828

NEW BERNE IN Channel 217B1 Ref. N404450 W851021

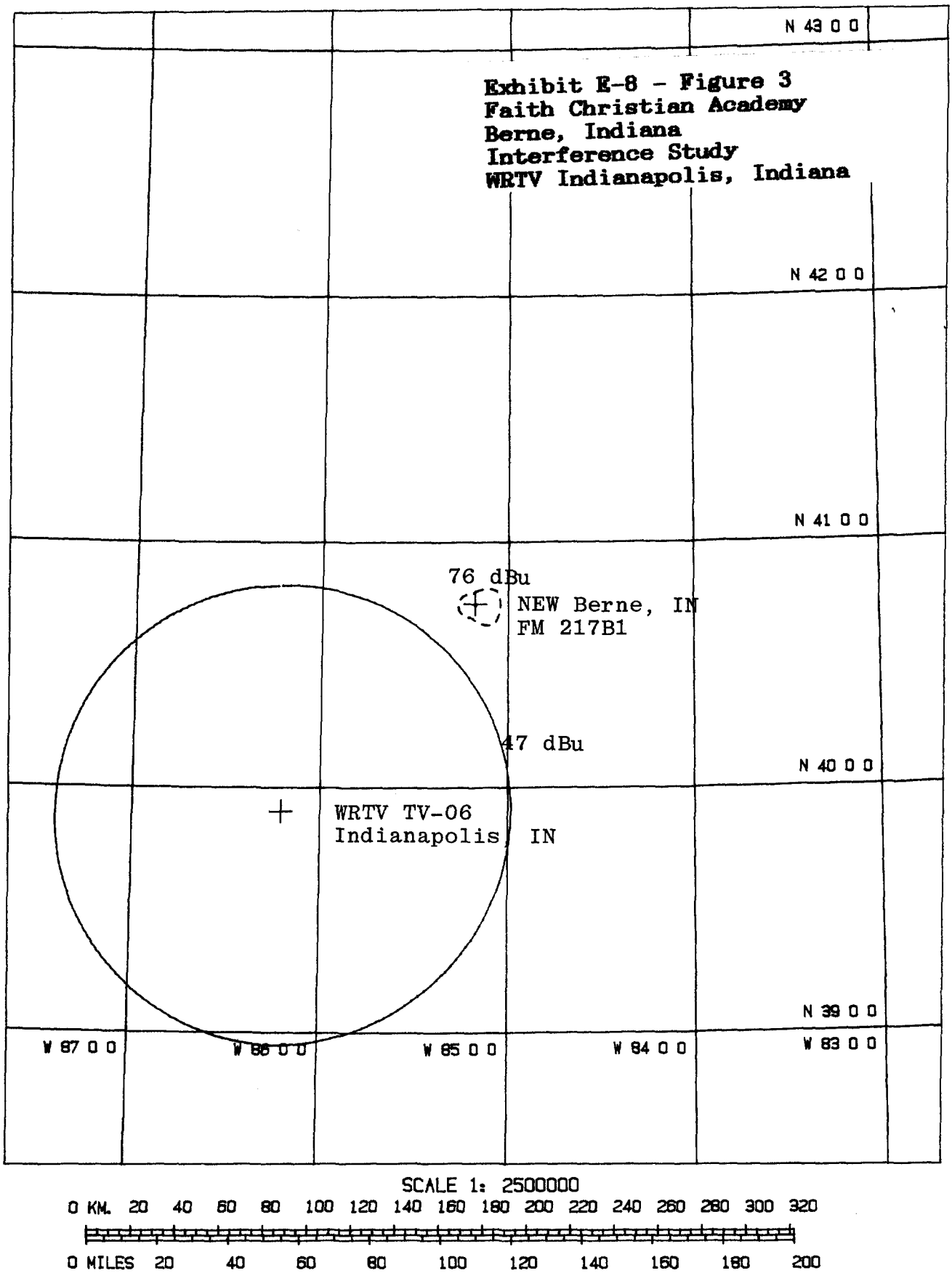


Exhibit E-8 - Figure 3
Faith Christian Academy
Berne, Indiana
Interference Study
WRTV Indianapolis, Indiana