

POST-TRANSITION DTV PROTECTION

Christian Faith Broadcast, Inc.
Sandusky, OH

Additional interference studies were conducted to evaluate the predicted interference, when compared to the 700 kilowatt WGGN-DT post-transition allotment facilities, to other all post-transition DTV allotments requiring protection consideration from the facilities proposed for WGGN-DT in the attached application. These interference studies were also conducted utilizing the procedures outlined in FCC OET Bulletin 69 and the modified version of the FCC's "FLR" computer program described in Exhibit 44.0. These studies employed a 2 kilometer cell size and 2000 census data.

These interference studies were conducted on all post-transition DTV allotments for which the proposed WGGN-DT site is located within the distances outlined in Table 7 of OET Bulletin 69 of the Noise Limited contour. In conducting these interference studies, interfering NTSC stations holding a construction permit were considered to be operating with their construction permit facilities, while interfering NTSC stations not holding a construction permit were considered to be operating with their licensed facilities.¹ Interfering DTV facilities were considered to be operating with their authorized post-transition allotment facilities.

These studies were conducted to evaluate the impact of the proposed WGGN-DT operating facilities on the post-transition DTV allotment facilities for six other stations:

WXYZ-DT	Detroit, MI	Channel 41
WKBN-DT	Youngstown, OH	Channel 41
WCLJ-DT	Bloomington, IN	Channel 42
WNDU-DT	South Bend, IN	Channel 42
WCWB-DT	Pittsburgh, PA	Channel 42
WTVS-DT	Detroit, MI	Channel 43

¹The only exceptions are when a station's post-transition DTV allotment is on its presently authorized NTSC channel. In these situations, the station's post-transition DTV allotment facilities were used in lieu of the station's NTSC facilities.

EXHIBIT 44.1
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The results of these studies are tabulated in Tables 44.1.0 through 44.1.5. These tables contain a complete listing of the stations which were included in each study and the facilities which were considered for each station included in the study. They also contain the output of the "FLR" program for the station being studied for both the WGGN-DT post-transition DTV allotment facilities and the facilities proposed in the attached application.

As shown by this data, the facilities proposed for WGGN-DT in the attached application, when compared to WGGN-DT's 700 kilowatt post transition DTV allotment, would not result in additional predicted interference to the post-transition DTV allotments for any of these other stations.² Based on this information, the operating facilities proposed for WGGN-DT in the attached application fully comply with the applicable post-transition protection requirements to all other stations requiring protection consideration.

²No additional interference would be predicted to the post-transition DTV allotments for WKBN-DT, WCLJ-DT, or WTVS-DT. The proposed WGGN-DT facilities would actually slightly reduce the predicted interference to the post-transition DTV allotments for WXYZ-DT, WNDU-DT, and WPMY-DT.

TABLE 44.1.0

OET 69 POST-TRANSITION INTERFERENCE
STUDIES - WXYZ-DT - DETROIT, MI

Christian Faith Broadcast, Inc.
Sandusky, OH

STATION BEING STUDIED

<u>Call</u>	<u>Location</u>	<u>Channel</u>	<u>Mode</u>	
WXYZ-DT	Detroit, MI	41	DTV	Post-Transition Allotment

STATIONS CONSIDERED IN STUDIES

<u>Call</u>	<u>Location</u>	<u>Channel</u>	<u>Mode</u>	<u>Status</u>	<u>File Number</u>
WOTV	Battle Creek, MI	41	NTSC	Licensed	BLCT-19961120KE
WLMB	Toledo, OH	40	NTSC	Licensed	BLCT-19981029KE
WHIO-DT	Dayton, OH	41	DTV	Post-Transition Allotment	
WKBN-DT	Youngstown, OH	41	DTV	Post-Transition Allotment	
WGGN-DT	Sandusky, OH	42	DTV	Applicant	

STUDY RESULTS FOR WGGN-DT POST-TRANSITION ALLOTMENT FACILITIES

	POPULATION	AREA (sq km)
within Noise Limited Contour	5786108	27604.0
not affected by terrain losses	5785956	27596.0
lost to NTSC IX	77674	1492.7
lost to additional IX by ATV	2	12.1
lost to ATV IX only	2	12.1
lost to all IX	77676	1504.7

STUDY RESULTS FOR PROPOSED WGGN-DT FACILITIES

	POPULATION	AREA (sq km)
within Noise Limited Contour	5786108	27604.0
not affected by terrain losses	5785956	27596.0
lost to NTSC IX	77674	1492.7
lost to additional IX by ATV	0	8.0
lost to ATV IX only	0	8.0
lost to all IX	77674	1500.7

TABLE 44.1.0(cont'd)

OET 69 POST-TRANSITION INTERFERENCE
STUDIES - WXYZ-DT - DETROIT, MI

SUMMARY OF STUDY RESULTS

	With WGGN-DT Post-Transition <u>Allotment</u>	With Proposed <u>WGGN-DT</u>	<u>Increase/(Decrease)</u>
DTV Service	5,708,280	5,708,282	2

TABLE 44.1.1

OET 69 POST-TRANSITION INTERFERENCE
STUDIES - WKBN-DT - YOUNGSTOWN, OH

Christian Faith Broadcast, Inc.
Sandusky, OH

STATION BEING STUDIED

<u>Call</u>	<u>Location</u>	<u>Channel</u>	<u>Mode</u>	<u>Status</u>	<u>File Number</u>
WKBN-DT	Youngstown, OH	41	DTV	Post-Transition Allotment	

STATIONS CONSIDERED IN STUDIES

<u>Call</u>	<u>Location</u>	<u>Channel</u>	<u>Mode</u>	<u>Status</u>	<u>File Number</u>
WPCB-TV	Greensburg, PA	40	NTSC	Licensed	BLCT-19990706KF
WHTJ	Charlottesville, VA	41	NTSC	Licensed	BLET-19890421KE
WUTB-DT	Baltimore, MD	41	DTV	Post-Transition Allotment	
WXYZ-DT	Detroit, MI	41	DTV	Post-Transition Allotment	
WHIO-DT	Dayton, OH	41	DTV	Post-Transition Allotment	
WHIZ-DT	Zanesville, OH	40	DTV	Post-Transition Allotment	
WPMY-DT	Pittsburgh, PA	42	DTV	Post-Transition Allotment	
WVIA-DT	Scranton, PA	41	DTV	Post-Transition Allotment	
WCHS-DT	Charleston, WV	41	DTV	Post-Transition Allotment	
WGGN-DT	Sandusky, OH	42	DTV	Applicant	

STUDY RESULTS FOR WGGN-DT POST-TRANSITION ALLOTMENT FACILITIES

	POPULATION	AREA (sq km)
within Noise Limited Contour	5718067	33772.3
not affected by terrain losses	5185034	32338.0
lost to NTSC IX	184264	261.1
lost to additional IX by ATV	1161340	2478.9
lost to ATV IX only	1322587	2687.8
lost to all IX	1345604	2740.0

STUDY RESULTS FOR PROPOSED WGGN-DT FACILITIES

	POPULATION	AREA (sq km)
within Noise Limited Contour	5718067	33772.3
not affected by terrain losses	5185034	32338.0
lost to NTSC IX	184264	261.1
lost to additional IX by ATV	1161340	2478.9
lost to ATV IX only	1322587	2687.8
lost to all IX	1345604	2740.0

TABLE 44.1.1(cont'd)

OET 69 POST-TRANSITION INTERFERENCE
STUDIES - WKBN-DT - YOUNGSTOWN, OH

SUMMARY OF STUDY RESULTS

	With WGGN-DT Post-Transition <u>Allotment</u>	With Proposed <u>WGGN-DT</u>	<u>Increase/(Decrease)</u>
DTV Service	3,839,430	3,839,430	0

TABLE 44.1.2

OET 69 POST-TRANSITION INTERFERENCE
STUDIES - WCLJ-DT - BLOOMINGTON, IN

Christian Faith Broadcast, Inc.
 Sandusky, OH

STATION BEING STUDIED

<u>Call</u>	<u>Location</u>	<u>Channel</u>	<u>Mode</u>	<u>Status</u>	<u>File Number</u>
WCLJ-DT	Bloomington, IN	42	DTV	Post-Transition Allotment	

STATIONS CONSIDERED IN STUDIES

<u>Call</u>	<u>Location</u>	<u>Channel</u>	<u>Mode</u>	<u>Status</u>	<u>File Number</u>
WKOI	Richmond, IN	43	NTSC	Licensed	BLCT-19820517KJ
WDRB	Louisville, KY	41	NTSC	CP	BPCT-20050722ACB
WPBO	Portsmouth, OH	42	NTSC	Licensed	BLET-19930707KE
WICD-DT	Champaign, IL	41	DTV	Post-Transition Allotment	
WICS-DT	Springfield, IL	42	DTV	Post-Transition Allotment	
WNDU-DT	South Bend, IN	42	DTV	Post-Transition Allotment	
WKLE-DT	Lexington, KY	42	DTV	Post-Transition Allotment	
WKMA-DT	Madisonville, KY	42	DTV	Post-Transition Allotment	
WHIO-DT	Dayton, OH	41	DTV	Post-Transition Allotment	
WGGN-DT	Sandusky, OH	42	DTV	Applicant	

STUDY RESULTS FOR WGGN-DT POST-TRANSITION ALLOTMENT FACILITIES

	POPULATION	AREA (sq km)
within Noise Limited Contour	2069502	23637.1
not affected by terrain losses	2067555	23504.4
lost to NTSC IX	685	44.2
lost to additional IX by ATV	2454	176.9
lost to ATV IX only	2733	189.0
lost to all IX	3139	221.2

TABLE 44.1.2(cont'd)

OET 69 POST-TRANSITION INTERFERENCE
STUDIES - WCLJ-DT - BLOOMINGTON, IN

STUDY RESULTS FOR PROPOSED WGGN-DT FACILITIES

	POPULATION	AREA (sq km)
within Noise Limited Contour	2069502	23637.1
not affected by terrain losses	2067555	23504.4
lost to NTSC IX	685	44.2
lost to additional IX by ATV	2454	176.9
lost to ATV IX only	2733	189.0
lost to all IX	3139	221.2

SUMMARY OF STUDY RESULTS

	With WGGN-DT Post-Transition <u>Allotment</u>	With Proposed <u>WGGN-DT</u>	<u>Increase/(Decrease)</u>
DTV Service	2,064,416	2,064,416	0

TABLE 44.1.3

OET 69 POST-TRANSITION INTERFERENCE
STUDIES - WNDU-DT - SOUTH BEND, IN

Christian Faith Broadcast, Inc.
Sandusky, OH

STATION BEING STUDIED

<u>Call</u>	<u>Location</u>	<u>Channel</u>	<u>Mode</u>	<u>Status</u>	<u>File Number</u>
WNDU-DT	South Bend, IN	42	DTV	Post-Transition Allotment	

STATIONS CONSIDERED IN STUDIES

<u>Call</u>	<u>Location</u>	<u>Channel</u>	<u>Mode</u>	<u>Status</u>	<u>File Number</u>
WOTV	Battle Creek, MI	41	NTSC	Licensed	BLCT-19961120KE
WZPX	Battle Creek, MI	43	NTSC	Licensed	BLCT-19961017KE
WCPX-DT	Chicago, IL	43	DTV	Post-Transition Allotment	
WQRF-DT	Rockford, IL	42	DTV	Post-Transition Allotment	
WICS-DT	Springfield, IL	42	DTV	Post-Transition Allotment	
WCLJ-DT	Bloomington, IN	42	DTV	Post-Transition Allotment	
WPNE-DT	Green Bay, WI	42	DTV	Post-Transition Allotment	
WGGN-DT	Sandusky, OH	42	DTV	Applicant	

STUDY RESULTS FOR WGGN-DT POST-TRANSITION ALLOTMENT FACILITIES

	POPULATION	AREA (sq km)
within Noise Limited Contour	1660737	26557.6
not affected by terrain losses	1646650	26529.4
lost to NTSC IX	10110	36.3
lost to additional IX by ATV	13930	241.8
lost to ATV IX only	13930	241.8
lost to all IX	24040	278.1

STUDY RESULTS FOR PROPOSED WGGN-DT FACILITIES

	POPULATION	AREA (sq km)
within Noise Limited Contour	1660737	26557.6
not affected by terrain losses	1646650	26529.4
lost to NTSC IX	10110	36.3
lost to additional IX by ATV	13759	233.7
lost to ATV IX only	13759	233.7
lost to all IX	23869	270.0

TABLE 44.1.3(cont'd)

OET 69 POST-TRANSITION INTERFERENCE
STUDIES - WNDU-DT - SOUTH BEND, IN

SUMMARY OF STUDY RESULTS

	With WGGN-DT Post-Transition <u>Allotment</u>	With Proposed <u>WGGN-DT</u>	<u>Increase/(Decrease)</u>
DTV Service	1,622,610	1,622,781	171

TABLE 44.1.4

OET 69 POST-TRANSITION INTERFERENCE
STUDIES - WPMY-DT - PITTSBURGH, PA

Christian Faith Broadcast, Inc.
 Sandusky, OH

STATION BEING STUDIED

<u>Call</u>	<u>Location</u>	<u>Channel</u>	<u>Mode</u>	<u>Status</u>	<u>File Number</u>
WPMY-DT	Pittsburgh, PA	42	DTV	Post-Transition Allotment	

STATIONS CONSIDERED IN STUDIES

<u>Call</u>	<u>Location</u>	<u>Channel</u>	<u>Mode</u>	<u>Status</u>	<u>File Number</u>
WUAB	Lorain, OH	43	NTSC	Licensed	BLCT-20020517AAH
WPBO	Portsmouth, OH	42	NTSC	Licensed	BLET-19930707KE
WVPY	Front Royal, VA	42	NTSC	Licensed	BLET-20070226AEU
WMPT-DT	Annapolis, MD	42	DTV	Post-Transition Allotment	
WKBN-DT	Youngstown, OH	41	DTV	Post-Transition Allotment	
WPGH-DT	Pittsburgh, PA	43	DTV	Post-Transition Allotment	
WCVE-DT	Richmond, VA	42	DTV	Post-Transition Allotment	
WGGN-DT	Sandusky, OH	42	DTV	Applicant	

STUDY RESULTS FOR WGGN-DT POST-TRANSITION ALLOTMENT FACILITIES

	POPULATION	AREA (sq km)
within Noise Limited Contour	3235932	25496.5
not affected by terrain losses	3085587	23527.2
lost to NTSC IX	1411	56.2
lost to additional IX by ATV	128402	1203.2
lost to ATV IX only	129759	1251.4
lost to all IX	129813	1259.4

STUDY RESULTS FOR PROPOSED WGGN-DT FACILITIES

	POPULATION	AREA (sq km)
within Noise Limited Contour	3235932	25496.5
not affected by terrain losses	3085587	23527.2
lost to NTSC IX	1411	56.2
lost to additional IX by ATV	126075	1143.1
lost to ATV IX only	127408	1187.2
lost to all IX	127486	1199.2

TABLE 44.1.4(cont'd)

OET 69 POST-TRANSITION INTERFERENCE
STUDIES - WPMY-DT - PITTSBURGH, PA

SUMMARY OF STUDY RESULTS

	With WGGN-DT Post-Transition <u>Allotment</u>	With Proposed <u>WGGN-DT</u>	<u>Increase/(Decrease)</u>
DTV Service	2,955,774	2,958,101	2,327

TABLE 44.1.5

OET 69 POST-TRANSITION INTERFERENCE
STUDIES - WTVS-DT - DETROIT, MI

Christian Faith Broadcast, Inc.
Sandusky, OH

STATION BEING STUDIED

<u>Call</u>	<u>Location</u>	<u>Channel</u>	<u>Mode</u>	<u>Status</u>	<u>File Number</u>
WTVS-DT	Detroit, MI	43	DTV	Post-Transition Allotment	

STATIONS CONSIDERED IN STUDIES

<u>Call</u>	<u>Location</u>	<u>Channel</u>	<u>Mode</u>	<u>Status</u>	<u>File Number</u>
WKOI	Richmond, IN	43	NTSC	Licensed	BLCT-19820517KJ
WZPX	Battle Creek, MI	43	NTSC	Licensed	BLCT-19961017KE
WUAB	Lorain, OH	43	NTSC	Licensed	BLCT-20020517AAH
WCPX-DT	Chicago, IL	43	DTV	Post-Transition Allotment	
WZPX-DT	Battle Creek, MI	44	DTV	Post-Transition Allotment	
WWJ-DT	Detroit, MI	44	DTV	Post-Transition Allotment	
WNED-DT	Buffalo, NY	43	DTV	Post-Transition Allotment	
WPGH-DT	Pittsburgh, PA	43	DTV	Post-Transition Allotment	
WGGN-DT	Sandusky, OH	42	DTV	Applicant	

STUDY RESULTS FOR WGGN-DT POST-TRANSITION ALLOTMENT FACILITIES

	POPULATION	AREA (sq km)
within Noise Limited Contour	5247491	22367.4
not affected by terrain losses	5247091	22351.3
lost to NTSC IX	333990	3010.2
lost to additional IX by ATV	0	0.0
lost to ATV IX only	33	4.0
lost to all IX	333990	3010.2

STUDY RESULTS FOR PROPOSED WGGN-DT FACILITIES

	POPULATION	AREA (sq km)
within Noise Limited Contour	5247491	22367.4
not affected by terrain losses	5247091	22351.3
lost to NTSC IX	333990	3010.2
lost to additional IX by ATV	0	0.0
lost to ATV IX only	33	4.0
lost to all IX	333990	3010.2

TABLE 44.1.5(cont'd)

OET 69 POST-TRANSITION INTERFERENCE
STUDIES - WTVS-DT - DETROIT, MI

SUMMARY OF STUDY RESULTS

	With WGGN-DT Post-Transition <u>Allotment</u>	With Proposed <u>WGGN-DT</u>	<u>Increase/(Decrease)</u>
DTV Service	4,913,101	4,913,101	0