

POST-TRANSITION DTV PROTECTION
Delmarva Broadcast Service, LLC
Salisbury, MD

Interference studies were conducted to evaluate the predicted interference, when compared to the WMDT-DT post-transition allotment facilities, to all other post-transition DTV facilities requiring protection consideration from the maximized post-transition facilities proposed for WMDT-DT in the attached application. These interference studies were conducted utilizing the FCC's "FLR" computer program modified to run on a Windows XP platform and recompiled under the Compaq (DEC) Visual Fortran compiler. The version of the "FLR" program utilized in conducting these studies utilized a two kilometer cell size and 2000 census data. This implementation of the "FLR" program was run for several stations utilizing the databases employed by the FCC to generate the benchmark values contained in Appendix B of the December 18, 1998 Second Memorandum Opinion and Order on Reconsideration of the Fifth and Sixth Report and Orders in MM Docket 87-268 and 1990 census data and yielded results essentially identical to those found in Appendix B for these stations. Thus, it is felt that this implementation of the "FLR" program faithfully reproduces the results obtained by the FCC in their implementation of this program.

These interference studies were conducted on all post-transition DTV allotments or authorizations for which the proposed WMDT-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, all NTSC stations were assumed to have ceased operation and all 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

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proposed WMDT-DT operating facilities on the post-transition DTV facilities for five other stations:¹

WBFF-DT	Baltimore, MD	Channel 46
WLNY-DT	Riverhead, NY	Channel 47
WPMT-DT	York, PA	Channel 47
WUPV-DT	Ashland, VA	Channel 47
WRC-DT	Washington, DC	Channel 48

The results of these studies are tabulated in Tables 44.0.0 through 44.0.6. 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 WMDT-DT post-transition DTV allotment facilities and the maximized facilities proposed in the attached application.

As shown by this data, the maximized facilities proposed for WMDT-DT in the attached application, when compared to WMDT-DT’s post transition DTV allotment, would reduce the predicted interference to the post-transition DTV facilities for WPMT-DT. They would result in a slight increase in the predicted interference to the post-transition facilities of WBFF-DT and WUPV-DT, but this additional interference would be less than 0.5% of each station’s benchmark DTV population value, which is permitted by the FCC Rules. No change in interference would be predicted for any of the other stations which required study. Based on this information, it is obvious that the maximized operating facilities proposed for WMDT-DT in the attached application fully comply with the appli-

¹Only the post-transition allotment facilities were studied for WBFF-DT, WPMT-DT, and WUPV-DT, since the authorized post-transition facilities for these three stations are identical to the facilities authorized by their post-transition DTV allotments. Both the post-transition allotment facilities and the authorized post-transition facilities were studied for WLNY-DT and WRC-DT.

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cable post-transition protection requirements to all other stations requiring protection consideration.

TABLE 44.0.0

OET 69 POST-TRANSITION INTERFERENCE
STUDIES - WBFF-DT - BALTIMORE, MD
(POST-TRANSITION ALLOTMENT FACILITIES)

Delmarva Broadcast Service, LLC
Salisbury, MD

STATION BEING STUDIED

<u>Call</u>	<u>Location</u>	<u>Channel</u>	<u>Mode</u>	<u>Status</u>
WBFF-DT	Baltimore, MD	46	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>
WFMZ-DT	Allentown, PA	46	DTV	Licensed	BLCDT-20060621AAU
WKBS-DT	Altoona, PA	46	DTV	Licensed	BLCDT-20060629ACS
WPMT-DT	York, PA	47	DTV	Licensed	BMLCDT-20041025ABI
WUPV-DT	Ashland, VA	47	DTV	Licensed	BLCDT-20060210ABA
WHTJ-DT	Charlottesville, VA	46	DTV	Licensed	BLEDT-20050819ADO
WPXV-DT	Norfolk, VA	46	DTV	Licensed	BLCDT-20020510AAI
WMDT-DT	Salisbury, MD	47	DTV	Applicant	

STUDY RESULTS FOR WMDT-DT POST-TRANSITION ALLOTMENT FACILITIES

	POPULATION	AREA (sq km)
within Noise Limited Contour	8250606	29554.0
not affected by terrain losses	8116733	28607.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	749361	3366.6
lost to ATV IX only	749361	3366.6
lost to all IX	749361	3366.6

STUDY RESULTS FOR PROPOSED WMDT-DT POST-TRANSITION FACILITIES

	POPULATION	AREA (sq km)
within Noise Limited Contour	8250606	29554.0
not affected by terrain losses	8116733	28607.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	751147	3422.9
lost to ATV IX only	751147	3422.9
lost to all IX	751147	3422.9

TABLE 44.0.0(cont'd)

OET 69 POST-TRANSITION INTERFERENCE
STUDIES - WBFF-DT - BALTIMORE, MD
(POST-TRANSITION ALLOTMENT FACILITIES)

SUMMARY OF STUDY RESULTS

	With WMDT-DT Post-Transition <u>Allotment</u>	With Proposed <u>WMDT-DT</u>	<u>Increase/(Decrease)</u>
DTV Service	7,367,372	7,365,586	(1,786)

Note: Based on the benchmark DTV Service Value of 7,062,000 from Appendix B of the *Memorandum Opinion and Order on Reconsideration of the Seventh Report and Order and Eighth Report and Order* in MB Docket 87-268, this new interference to WBFF-DT amounts to only 0.025%, which complies with the limit of 0.5%.

TABLE 44.0.1

OET 69 POST-TRANSITION INTERFERENCE
STUDIES - WLNY-DT - RIVERHEAD, NY
(POST-TRANSITION ALLOTMENT FACILITIES)

Delmarva Broadcast Service, LLC
Salisbury, MD

STATION BEING STUDIED

<u>Call</u>	<u>Location</u>	<u>Channel</u>	<u>Mode</u>	<u>Status</u>
WLNY-DT	Riverhead, NY	47	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>
WUVN-DT	Hartford, CT	46	DTV	Licensed	BLCDT-20060706AED
WYDN-DT	Worcester, MA	47	DTV	Licensed	BLEDT-20050505ABL
WRNN-DT	Kingston, NY	48	DTV	Licensed	BLCDT-20040908AMF
WTVH-DT	Syracuse, NY	47	DTV	Licensed	BLCDT-20060809ACB
WPMT-DT	York, PA	47	DTV	Licensed	BMLCDT-20041025ABI
WMDT-DT	Salisbury, MD	47	DTV	Applicant	

STUDY RESULTS FOR WMDT-DT POST-TRANSITION ALLOTMENT FACILITIES

	POPULATION	AREA (sq km)
within Noise Limited Contour	4666546	14493.9
not affected by terrain losses	4621048	14425.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	48782	28.2
lost to ATV IX only	48782	28.2
lost to all IX	48782	28.2

STUDY RESULTS FOR PROPOSED WMDT-DT POST-TRANSITION FACILITIES

	POPULATION	AREA (sq km)
within Noise Limited Contour	4666546	14493.9
not affected by terrain losses	4621048	14425.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	48782	28.2
lost to ATV IX only	48782	28.2
lost to all IX	48782	28.2

TABLE 44.0.1(cont'd)

OET 69 POST-TRANSITION INTERFERENCE
STUDIES - WLNY-DT - RIVERHEAD, NY
(POST-TRANSITION ALLOTMENT FACILITIES)

SUMMARY OF STUDY RESULTS

	With WMDT-DT Post-Transition <u>Allotment</u>	With Proposed <u>WMDT-DT</u>	<u>Increase/(Decrease)</u>
DTV Service	4,572,266	4,572,266	0

TABLE 44.0.2

OET 69 POST-TRANSITION INTERFERENCE
STUDIES - WLNY-DT - RIVERHEAD, NY
(POST-TRANSITION CP FACILITIES)
Delmarva Broadcast Service, LLC
Salisbury, MD

STATION BEING STUDIED

<u>Call</u>	<u>Location</u>	<u>Channel</u>	<u>Mode</u>	<u>Status</u>	<u>File Number</u>
WLNY-DT	Riverhead, NY	47	DTV	CP	BMPCDT-20080415AAC

STATIONS CONSIDERED IN STUDIES

<u>Call</u>	<u>Location</u>	<u>Channel</u>	<u>Mode</u>	<u>Status</u>	<u>File Number</u>
WUVN-DT	Hartford, CT	46	DTV	Licensed	BLCDT-20060706AED
WYDN-DT	Worcester, MA	47	DTV	Licensed	BLEDT-20050505ABL
WRNN-DT	Kingston, NY	48	DTV	Licensed	BLCDT-20040908AMF
WTVH-DT	Syracuse, NY	47	DTV	Licensed	BLCDT-20060809ACB
WPMT-DT	York, PA	47	DTV	Licensed	BMLCDT-20041025ABI
WMDT-DT	Salisbury, MD	47	DTV	Applicant	

STUDY RESULTS FOR WMDT-DT POST-TRANSITION ALLOTMENT FACILITIES

	POPULATION	AREA (sq km)
within Noise Limited Contour	5810231	14259.5
not affected by terrain losses	5791806	14215.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	41750	28.2
lost to ATV IX only	41750	28.2
lost to all IX	41750	28.2

STUDY RESULTS FOR PROPOSED WMDT-DT POST-TRANSITION FACILITIES

	POPULATION	AREA (sq km)
within Noise Limited Contour	5810231	14259.5
not affected by terrain losses	5791806	14215.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	41750	28.2
lost to ATV IX only	41750	28.2
lost to all IX	41750	28.2

TABLE 44.0.2(cont'd)

OET 69 POST-TRANSITION INTERFERENCE
STUDIES - WLNY-DT - RIVERHEAD, NY
(POST-TRANSITION CP FACILITIES)

SUMMARY OF STUDY RESULTS

	With WMDT-DT Post-Transition <u>Allotment</u>	With Proposed <u>WMDT-DT</u>	<u>Increase/(Decrease)</u>
DTV Service	5,750,056	5,750,056	0

TABLE 44.0.3

OET 69 POST-TRANSITION INTERFERENCE
STUDIES - WPMT-DT - YORK, PA
(POST-TRANSITION ALLOTMENT FACILITIES)

Delmarva Broadcast Service, LLC
Salisbury, MD

STATION BEING STUDIED

<u>Call</u>	<u>Location</u>	<u>Channel</u>	<u>Mode</u>	<u>Status</u>
WPMT-DT	York, PA	47	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>
WRC-DT	Washington, DC	48	DTV	Post-Transition Allotment	
WBFF-DT	Baltimore, MD	46	DTV	CP	BPCDT-19980803KR
WLNY-DT	Riverhead, NY	47	DTV	CP	BMPCDT-20080415AAC
WTVH-DT	Syracuse, NY	47	DTV	Licensed	BLCDT-20060809ACB
WFMZ-DT	Allentown, PA	46	DTV	Licensed	BLCDT-20060621AAU
WKBS-DT	Altoona, PA	46	DTV	Licensed	BLCDT-20060629ACS
WUPV-DT	Ashland, VA	47	DTV	Licensed	BLCDT-20060210ABA
WMDT-DT	Salisbury, MD	47	DTV	Applicant	

STUDY RESULTS FOR WMDT-DT POST-TRANSITION ALLOTMENT FACILITIES

	POPULATION	AREA (sq km)
within Noise Limited Contour	5022356	28271.7
not affected by terrain losses	4478089	25276.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1166752	2426.9
lost to ATV IX only	1166752	2426.9
lost to all IX	1166752	2426.9

STUDY RESULTS FOR PROPOSED WMDT-DT POST-TRANSITION FACILITIES

	POPULATION	AREA (sq km)
within Noise Limited Contour	5022356	28271.7
not affected by terrain losses	4478089	25276.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1143154	2318.0
lost to ATV IX only	1143154	2318.0
lost to all IX	1143154	2318.0

TABLE 44.0.3(cont'd)

OET 69 POST-TRANSITION INTERFERENCE
STUDIES - WPMT-DT - YORK, PA
(POST-TRANSITION ALLOTMENT FACILITIES)

SUMMARY OF STUDY RESULTS

	With WMDT-DT Post-Transition <u>Allotment</u>	With Proposed <u>WMDT-DT</u>	<u>Increase/(Decrease)</u>
DTV Service	3,311,337	3,334,935	23,598

TABLE 44.0.4

OET 69 POST-TRANSITION INTERFERENCE
STUDIES - WUPV-DT - ASHLAND, VA
(POST-TRANSITION ALLOTMENT FACILITIES)
Delmarva Broadcast Service, LLC
Salisbury, MD

STATION BEING STUDIED

<u>Call</u>	<u>Location</u>	<u>Channel</u>	<u>Mode</u>	<u>Status</u>
WUPV-DT	Ashland, VA	47	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>
WRC-DT	Washington, DC	48	DTV	Post-Transition Allotment	
WPMT-DT	York, PA	47	DTV	Licensed	BMLCDT-20041025ABI
WHTJ-DT	Charlottesville, VA	46	DTV	Licensed	BLEDT-20050819ADO
WPXV-DT	Norfolk, VA	46	DTV	Licensed	BLCDDT-20020510AAI
WMDT-DT	Salisbury, MD	47	DTV	Applicant	

STUDY RESULTS FOR WMDT-DT POST-TRANSITION ALLOTMENT FACILITIES

	POPULATION	AREA (sq km)
within Noise Limited Contour	1402497	20521.2
not affected by terrain losses	1401975	20493.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4122	317.6
lost to ATV IX only	4122	317.6
lost to all IX	4122	317.6

STUDY RESULTS FOR PROPOSED WMDT-DT POST-TRANSITION FACILITIES

	POPULATION	AREA (sq km)
within Noise Limited Contour	1402497	20521.2
not affected by terrain losses	1401975	20493.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	7819	546.8
lost to ATV IX only	7819	546.8
lost to all IX	7819	546.8

TABLE 44.0.4(cont'd)

OET 69 POST-TRANSITION INTERFERENCE
STUDIES - WUPV-DT - ASHLAND, VA
(POST-TRANSITION ALLOTMENT FACILITIES)

SUMMARY OF STUDY RESULTS

	With WMDT-DT Post-Transition <u>Allotment</u>	With Proposed <u>WMDT-DT</u>	<u>Increase/(Decrease)</u>
DTV Service	1,397,853	1,394,156	(3,697)

Note: Based on the benchmark DTV Service Value of 1,398,000 from Appendix B of the *Memorandum Opinion and Order on Reconsideration of the Seventh Report and Order and Eighth Report and Order* in MB Docket 87-268, this new interference to WUPV-DT amounts to only 0.26%, which complies with the limit of 0.5%.

TABLE 44.0.5

OET 69 POST-TRANSITION INTERFERENCE
STUDIES - WRC-DT - WASHINGTON, DC
(POST-TRANSITION ALLOTMENT FACILITIES)

Delmarva Broadcast Service, LLC
Salisbury, MD

STATION BEING STUDIED

<u>Call</u>	<u>Location</u>	<u>Channel</u>	<u>Mode</u>	<u>Status</u>
WRC-DT	Washington, DC	48	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>
WYDC-DT	Corning, NY	48	DTV	Post-Transition Allotment	
WPXI-DT	Pittsburgh, PA	48	DTV	Licensed	BLCDT-20050609AAQ
WPMT-DT	York, PA	47	DTV	Licensed	BMLCDT-20041025ABI
WUPV-DT	Ashland, VA	47	DTV	Licensed	BLCDT-20060210ABA
WHSV-DT	Harrisonburg, VA	49	DTV	Licensed	BLCDT-20060413ACO
WMDT-DT	Salisbury, MD	47	DTV	Applicant	

STUDY RESULTS FOR WMDT-DT POST-TRANSITION ALLOTMENT FACILITIES

	POPULATION	AREA (sq km)
within Noise Limited Contour	7118700	23068.0
not affected by terrain losses	7083328	22291.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5034	52.0
lost to ATV IX only	5034	52.0
lost to all IX	5034	52.0

STUDY RESULTS FOR PROPOSED WMDT-DT POST-TRANSITION FACILITIES

	POPULATION	AREA (sq km)
within Noise Limited Contour	7118700	23068.0
not affected by terrain losses	7083328	22291.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5034	52.0
lost to ATV IX only	5034	52.0
lost to all IX	5034	52.0

TABLE 44.0.5(cont'd)

OET 69 POST-TRANSITION INTERFERENCE
STUDIES - WRC-DT - WASHINGTON, DC
(POST-TRANSITION ALLOTMENT FACILITIES)

SUMMARY OF STUDY RESULTS

	With WMDT-DT Post-Transition <u>Allotment</u>	With Proposed <u>WMDT-DT</u>	<u>Increase/(Decrease)</u>
DTV Service	7,078,294	7,078,294	0

TABLE 44.0.6

OET 69 POST-TRANSITION INTERFERENCE
STUDIES - WRC-DT - WASHINGTON, DC
(LICENSED FACILITIES)
Delmarva Broadcast Service, LLC
Salisbury, MD

STATION BEING STUDIED

<u>Call</u>	<u>Location</u>	<u>Channel</u>	<u>Mode</u>	<u>Status</u>	<u>File Number</u>
WRC-DT	Washington, DC	48	DTV	Licensed	BLCDT-20000216AAT

STATIONS CONSIDERED IN STUDIES

<u>Call</u>	<u>Location</u>	<u>Channel</u>	<u>Mode</u>	<u>Status</u>	<u>File Number</u>
WYDC-DT	Corning, NY	48	DTV	Post-Transition Allotment	
WPXI-DT	Pittsburgh, PA	48	DTV	Licensed	BLCDT-20050609AAQ
WPMT-DT	York, PA	47	DTV	Licensed	BMLCDT-20041025ABI
WUPV-DT	Ashland, VA	47	DTV	Licensed	BLCDT-20060210ABA
WHSV-DT	Harrisonburg, VA	49	DTV	Licensed	BLCDT-20060413ACO
WMDT-DT	Salisbury, MD	47	DTV	Applicant	

STUDY RESULTS FOR WMDT-DT POST-TRANSITION ALLOTMENT FACILITIES

	POPULATION	AREA (sq km)
within Noise Limited Contour	7099286	22833.8
not affected by terrain losses	7061021	22065.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4053	36.0
lost to ATV IX only	4053	36.0
lost to all IX	4053	36.0

STUDY RESULTS FOR PROPOSED WMDT-DT POST-TRANSITION FACILITIES

	POPULATION	AREA (sq km)
within Noise Limited Contour	7099286	22833.8
not affected by terrain losses	7061021	22065.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4053	36.0
lost to ATV IX only	4053	36.0
lost to all IX	4053	36.0

TABLE 44.0.6(cont'd)

OET 69 POST-TRANSITION INTERFERENCE
STUDIES - WRC-DT - WASHINGTON, DC
(LICENSED FACILITIES)

SUMMARY OF STUDY RESULTS

	With WMDT-DT Post-Transition <u>Allotment</u>	With Proposed <u>WMDT-DT</u>	<u>Increase/(Decrease)</u>
DTV Service	7,056,968	7,056,968	0