

**A Report To The
Corporation for Public Broadcasting
Regarding
Potential Impacts To
Public Radio Transmission Facilities
From
Post-Auction TV Band Repacking**



**Dennis Wallace
William Meintel
MEINTEL, SGRIGNOLI, & WALLACE, LLC
1282 Smallwood Drive, Suite 372
Waldorf, MD 20603
(202) 251-7589**

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Executive Summary

The firm of Meintel, Sgrignoli, and Wallace, LLC (MSW) is pleased to provide the following report to the Corporation for Public Television (CPB) in response to its Scope of Work to provide Post-Auction Spectrum Planning services to CPB. Specifically, MSW was tasked with studying the potential impacts to Public Radio Station Transmitter Facilities that may result from the TV Band Repack and associated DTV Station channel changes and facility modifications.

With the FCC's Incentive Auction now complete, Digital Television stations will be repacked to channels 2-36. These channel changes are likely to impact some Public Radio stations that share a tower or are near-co-located with a television station.

There are several possible impacts ranging from down-time during rigging and derigging operations to loss of tower space and possible relocation due to tower structural limits. The specific impact is highly dependent upon the specific tower situation as well as the new channel assigned to the co-located TV Station(s).

A. Potentially Impacted Radio Stations

With the completion of the FCC's Incentive Auction, MSW has updated its study to determine the number of CPB Eligible Radio Stations that are co-located on the same tower as one or more TV Stations. The study indicates that approximately 92 CPB-Eligible radio stations are co-located with a Full Power TV station or Class A TV station that will be repacked as part of the FCC's repacking process. This list includes stations being repacked from out-of-core channels 38-51 as well as those stations that are in-core channels 2-36 and are being repacked to accommodate stations moving into the core spectrum. See Appendix A for a list of stations meeting this criterion.

In addition, MSW conducted a study to determine the number of CPB Eligible Radio Stations that are near-co-located (within 250 Meters) of one or more TV Stations that are being repacked. The study indicated that approximately 75 CPB-Eligible radio stations are near-co-located within 250 meters of a full-power or class A TV station that is being repacked to a new channel. These near-co-located stations may also be impacted to a lesser extent. However, there is still some potential for impact to these stations such as reduced power operation to meet RFR compliance requirements. See Appendix B for a list of these stations.

B. Possible Repack Effects

There are a number of possible scenarios and situations that could lead to an impact on a public radio station. These impacts range the gamut from some off-air or reduced power operation to loss of the stations antenna location due to overloading of the tower structure

and the need to remove loads to accommodate the new DTV antennas on the tower structure.

Below we've attempted to list the most likely situations or scenarios that radio stations will likely face with the facility modifications required for the DTV repack.

- **RF Radiation Compliance** – The radio station may need to reduce power or go off the air during rigging and derigging operations on a shared tower structure. Stations may also find that reduced power or off-air time is required for tower crews working in or near the aperture of the FM radio station.
- **Tower Rigging in Aperture of FM Antenna** – Stations may find that gin poles, transmission lines, or other rigging requires the temporary removal of the FM antenna in order to accommodate the construction or installation of the new DTV antenna.
- **Transmission Line Changes** – FM Stations may find that transmission lines for their facilities or those of the DTV station need to be relocated on the tower to accommodate new loads, changes in routing, or other necessary changes.
- **Tower Structural Loading Changes** – Stations may find that new DTV antennas are much larger structural loads (lower frequency) which require the removal of other loads in order to accommodate the new DTV antenna. Several scenarios are possible here such as reduced FM antenna aperture, removal of the FM Antenna in order to free up structural capacity, or possibly the need to change the height or location of the FM antenna in order to meet the structural loading limits of the tower.
- **New Structural Loading Standard** – There are new structural standards in place now that EIA-222-G is the current standard. Many structures will not pass the loading analysis under the new standard and may need to be significantly modified in order to support the new DTV antenna. In the worst case scenario, for some towers it may not be feasible to modify them to meet the new structural standards in which case, they may need to be completely replaced with a new tower. There exist many towers that were built under the EIA-222-C revision and may not be candidates for structural modifications without significant reduction in loading.
- **Removal of Old Antennas and Transmission Lines** – Some TV stations that have “won” in the auction and have agreed to give up their existing TV Channel, may need to remove their decommissioned equipment and this process of equipment removal may impact radio stations significantly.
- **TV Station Auxiliary or Temporary Antennas** – The FCC has a very aggressive schedule for the TV Band Repack. This schedule is broken into 10 phases over 39 months. Many TV Stations are unlikely to be able to complete the construction of the final DTV Facilities within the 39 month (or shorter) construction window. Therefore, many TV stations are likely to build “temporary” facilities with side-mounted antennas. In this case, additional space may be needed on the tower to accommodate the temporary facilities that many TV stations are likely to build.

- **Helicopter Lifts** – For some of the very large community tower structures (such as Willis Tower and others), the most efficient antenna removal and installation technique may involve using Helicopter Cranes for some of the work. These operations generally require stations to go off the air or significantly reduce power during these operations.
- **All Stations on the same tower may not be scheduled together** – The FCC has laid out a 10-phase transition schedule for TV Stations to build their new facilities and place them on the air in a staggered fashion. At this time, however, it is not known if all stations on the same tower would be scheduled in the same phase. Therefore, radio stations may find that they have several stations making changes at different times and therefore may have to accommodate two or three different facility changes that are scheduled months apart.
- **Facility AC Power System Modifications** – Stations may find the in order to accommodate new transmitters, some electrical distribution system modifications are necessary for the site. Consequently, stations may find that some off-air time is required in order to allow electrical system modifications and construction as well as transitioning to new AC circuits.
- **Tower Crew Availability Will Be Limited** – Stations should be prepared for constraints in the availability of tower crews during the 39 month construction period. Tower Crews will likely be unavailable for regular maintenance operations as well as for emergency antenna or transmission line burn outs or repairs. Since most crews will be busy working on the TV station projects, radio stations may find it difficult to find crews to work with on their antenna projects and other tower work. Any tower or antenna work that radio stations anticipate completing in the next three years should be completed immediately or deferred until after the TV Repack is completed. See Appendix C for sample Station Phase Assignment and Construction Schedule.

C. No FCC Reimbursement for Radio Station Costs

The FCC has made it clear that there will be no reimbursement of costs for radio station changes unless there is a written contractual obligation for the TV station to pay for the radio station facility modifications. Consequently, it is not expected that any of the FCC Relocation Funds will be available to radio stations for their expenses.

Consequently, radio stations should prepare for the expenses that are likely to be incurred by them and not reimbursable from the FCC. Budgeting for these scenarios would be prudent, given that the FCC schedule is very aggressive and will not likely be sympathetic to TV or radio stations that cause delays in their repacking schedule.

D. Mitigation of Station Disruption

As noted above, there will be various situations and scenarios that may develop on the shared tower structures occupied by both Radio and TV Stations. Planning for these impacts and potential service disruptions should be undertaken immediately to ensure that stations are prepared. There are some potential options that radio stations should consider to minimize the impact on their operations.

The best mitigation will vary from station-to-station and market-to-market, however, the following solutions may be useful for stations to consider:

- **Off Site Auxiliary or Temporary Operations** – The best logistical solution would be to operate from another site and tower some distance away while construction is underway on the main tower structure.
- **Off Site Auxiliary or Temporary Operations on Combined Antenna** – Another possibility would be to operate temporarily on a combined antenna system that is on another structure away from the main tower site.
- **Auxiliary Antenna Mounted in Location Away from Tower Workers** – If another tower site is not an option, and operations must continue at the existing site. A temporary or Aux antenna mounted at a lower height or in a location that would allow workers to work in the FM Aperture would allow continued operations during modification work. Options such as a single bay mounted on a lower section of the tower may be viable or at least minimize the off-air time.
- **Combine with Other Stations for Temporary / Aux Antenna on the same tower** – Combining with other stations on a temporary antenna on another structure would allow stations to continue to operate without the need to power up/down during the times workers are near the main antenna. By spreading the costs across several stations, this may be an economical solution.

E. Suggested Station Preparation Steps

Stations should be prepared for possible impacts and disruptions from the DTV repack. It is suggested that stations take the following steps to prepare their facilities and stations in case the disruption to station operations becomes unavoidable.

- Research which DTV stations are on your shared tower and where they are located relative to your radio station antenna.
- Understand which stations will be repacked such as stations on channels 38-51 as well as those stations on channels 2-36 that will be changing channels to accommodate stations moving to in-core channels.
- Understand which stations were “winners” in the spectrum auction and will be vacating their existing channel – and antenna aperture.
- Understand that the FCC will repack approximately 987 TV stations as part of the repacking process. Determine which stations on your shared tower will be changing channels.

- Understand the FCC Phase Assignment process and which phases have been assigned to the DTV stations on your shared tower. These are the deadlines the TV Stations must meet for their project. (See Appendix C).
- What is the plan for the DTV station antenna and transmission line change out?
- What is the rigging plan and will there be a requirement to remove any FM Antenna sections?
- What is required of your station to power up/down when workers are on the tower?
- Is relocation of the FM Station antenna or other equipment required?
- Will there be any changes to the AC Power Distribution?

Conclusions:

Based upon the forgoing study, there are a significant number of CPB-Eligible public radio stations that may potentially be impacted by the FCC TV Spectrum Repacking.

The MSW study indicates that approximately 75 CPB-Eligible radio stations are near-co-located (within 250 meters) with a full power or class A TV station that will be repacked.

Furthermore, approximately 92 CPB-Eligible radio stations are co-located on the same tower structure as a full power or class A TV station that is being repacked.

The constraints on tower crews and other resources may make any changes or modifications to radio facilities problematic as tower crews with broadcast experience will likely be otherwise engaged with TV Repack projects.

Public Radio Stations should understand the potential impacts to their operations, develop a plan on how to accommodate those impacts, as well as develop a budget for the expenses that are likely to be incurred and not reimbursed by the FCC.

APPENDIX A

**CPB Eligible Radio Stations Co-Located
With Full Power or Class A TV Stations
That Are Being Repacked**

POTENTIAL INCENTIVE AUCTION REPACK IMPACT ON CPB ELIGIBLE FM STATIONS

POTENTIALLY IMPACTED CPB ELIGIBLE FM

REPACKED DTV STATIONS

Site Proximity	Channel	City	State	Call	Facility			Facility			Separation Distance (km)	ASR Number
					ID	Channel	City	State	Call	ID		
Same Tower	210	SHREVEPORT	LA	KDAQ	4317	17	SHREVEPORT	LA	KLTS-TV	38591	0.00	1020314
Same Tower	214	ALEXANDRIA	LA	KLSA	4218	33	ALEXANDRIA	LA	KLPA-TV	38590	0.00	1020313
Same Tower	208	AUSTIN	TX	KMFA	8685	24	AUSTIN	TX	KXLK-CD	48836	0.00	1013180
Same Tower	206	GRESHAM	OR	KMHD	46719	24	PORTLAND	OR	KATU	21649	0.00	1207367
Same Tower	206	GRESHAM	OR	KMHD	46719	25	PORTLAND	OR	KOIN	35380	0.00	1207367
Same Tower	206	GRESHAM	OR	KMHD	46719	32	PORTLAND	OR	KNMT	47707	0.00	1207367
Same Tower	206	WICHITA	KS	KMUW	72364	15	WICHITA	KS	KSNW	72358	0.00	1244913
Same Tower	217	KILLEEN	TX	KNCT-FM	9977	17	BELTON	TX	KNCT	9754	0.00	1058073
Same Tower	218	PORTLAND	OR	KOPB-FM	50607	36	PORTLAND	OR	KKEI-CD	71078	0.00	1204059
Same Tower	218	PORTLAND	OR	KOPB-FM	50607	15	VANCOUVER	WA	KOXO-CD	71080	0.00	1204059
Same Tower	210	PORTLAND	OR	KQAC	59343	24	PORTLAND	OR	KATU	21649	0.00	1207367
Same Tower	210	PORTLAND	OR	KQAC	59343	25	PORTLAND	OR	KOIN	35380	0.00	1207367
Same Tower	210	PORTLAND	OR	KQAC	59343	32	PORTLAND	OR	KNMT	47707	0.00	1207367
Same Tower	214	OMAHA	NE	KVNO	69395	31	OMAHA	NE	KMTV-TV	35190	0.00	1025131
Same Tower	208	TULSA	OK	KWGS	66586	26	TULSA	OK	KOTV-DT	35434	0.00	1011355
Same Tower	208	TULSA	OK	KWGS	66586	16	TULSA	OK	KWHB	37099	0.00	1011355
Same Tower	204	TULSA	OK	KWTU	81517	26	TULSA	OK	KOTV-DT	35434	0.00	1011355
Same Tower	204	TULSA	OK	KWTU	81517	16	TULSA	OK	KWHB	37099	0.00	1011355
Same Tower	216	LA CRESCENT	MIN	KXLC	42918	33	LA CROSSE	WI	WLAX	2710	0.00	1264312
Same Tower	217	ODESSA	TX	KXWT	50038	15	ODESSA	TX	KMLM-DT	53541	0.00	1053974
Same Tower	217	AKRON	OH	WAPS	6051	22	AKRON	OH	WVPX-TV	70491	0.00	1047963
Same Tower	258	NEW YORK	NY	WBAI	51249	36	NEW YORK	NY	WCBS-TV	9610	0.00	1007048
Same Tower	258	NEW YORK	NY	WBAI	51249	12	NEWARK	NJ	WNET	18795	0.00	1007048
Same Tower	258	NEW YORK	NY	WBAI	51249	27	NEW YORK	NY	WNYW	22206	0.00	1007048
Same Tower	258	NEW YORK	NY	WBAI	51249	26	NEWARK	NJ	WFUT-DT	60555	0.00	1007048
Same Tower	258	NEW YORK	NY	WBAI	51249	35	LINDEN	NJ	WNJU	73333	0.00	1007048
Same Tower	258	NEW YORK	NY	WBAI	51249	34	NEW YORK	NY	WPXN-TV	73356	0.00	1007048
Same Tower	258	NEW YORK	NY	WBAI	51249	25	SECAUCUS	NJ	WWOR-TV	74197	0.00	1007048
Same Tower	212	BATON ROUGE	LA	WBRH	18185	32	BATON ROUGE	LA	WBXH-CD	51806	0.00	1020429
Same Tower	215	BOSTON	MA	WBUR-FM	68241	22	BOSTON	MA	WBPX-TV	7692	0.00	1004623
Same Tower	215	BOSTON	MA	WBUR-FM	68241	20	BOSTON	MA	WBZ-TV	25456	0.00	1003433
Same Tower	215	BOSTON	MA	WBUR-FM	68241	33	BOSTON	MA	WCVB-TV	65684	0.00	1003433
Same Tower	215	BOSTON	MA	WBUR-FM	68241	32	BOSTON	MA	WGBX-TV	72098	0.00	1003433
Same Tower	215	BOSTON	MA	WBUR-FM	68241	5	BOSTON	MA	WGBH-TV	72099	0.00	1003433
Same Tower	215	BOSTON	MA	WBUR-FM	68241	21	BOSTON	MA	WSBK-TV	73982	0.00	1003433
Same Tower	210	PEORIA	IL	WGBU	6610	35	PEORIA	IL	WTVP	28311	0.00	1009377
Same Tower	220	ATLANTA	GA	WCLK	11675	36	ATLANTA	GA	WUPA	6900	0.00	1223132
Same Tower	220	ATLANTA	GA	WCLK	11675	18	ATHENS	GA	WUVG-DT	48813	0.00	1223132
Same Tower	220	ATLANTA	GA	WCLK	11675	31	ATLANTA	GA	WPCH-TV	64033	0.00	1223132
Same Tower	220	ATLANTA	GA	WCLK	11675	22	MONROE	GA	WHSG-TV	68058	0.00	1223132
Same Tower	220	ATLANTA	GA	WCLK	11675	20	ATLANTA	GA	WANN-CD	168812	0.00	1223132

Same Tower	205	RICHMOND	VA	WCVF-FM	10016	24	RICHMOND	VA	WRLH-TV	412	0.00	1018227
Same Tower	205	RICHMOND	VA	WCVF-FM	10016	22	RICHMOND	VA	WCVF-TV	9987	0.00	1018227
Same Tower	205	RICHMOND	VA	WCVF-FM	10016	29	RICHMOND	VA	WCVW	9989	0.00	1018227
Same Tower	205	RICHMOND	VA	WCVF-FM	10016	23	RICHMOND	VA	WTVR-TV	57832	0.00	1018227
Same Tower	205	RICHMOND	VA	WCVF-FM	10016	28	PETERSBURG	VA	WRIC-TV	74416	0.00	1018227
Same Tower	205	MIAMI	FL	WDNA	4030	33	MIAMI	FL	WJAN-CD	60165	0.00	1024985
Same Tower	201	DAYTON	OH	WDPR	61582	35	DAYTON	OH	WPTD	25067	0.00	1011760
Same Tower	215	HAZARD	KY	WEKH	18306	33	HAZARD	KY	WKHA	34196	0.00	1044020
Same Tower	205	RICHMOND	KY	WEKU-FM	18307	35	LEXINGTON	KY	WKLE	34207	0.00	1044040
Same Tower	211	GREENVILLE	SC	WEPR	60926	8	GREENVILLE	SC	WNTV	61010	0.00	1059181
Same Tower	214	KEENE	NH	WEVN	48440	22	CLAREMONT	NH	WVMA-CD	48413	0.00	1034694
Same Tower	214	KEENE	NH	WEVN	48440	18	KEENE	NH	WEKW-TV	69271	0.00	1034694
Same Tower	220	LITTLETON	NH	WEVQ 1	73546	23	LITTLETON	NH	WLED-TV	69328	0.00	1034698
Same Tower	220	LITTLETON	NH	WEVQ 1	73546	23	LITTLETON	NH	WLED-TV	69328	0.00	1034698
Same Tower	249	AMSTERDAM	NY	WEXT	23457	19	AMSTERDAM	NY	WYPX-TV	13933	0.00	1028659
Same Tower	214	CHARLOTTE	NC	WFAE	69436	9	CHARLOTTE	NC	WTVI	10645	0.00	1005065
Same Tower	279	BLOOMINGTON	IN	WFUI	68269	33	BLOOMINGTON	IN	WTIU	66536	0.00	1234684
Same Tower	220	LOUISVILLE	KY	WFPK	38621	18	LOUISVILLE	KY	WKYI-CD	25078	0.00	1028414
Same Tower	207	LOUISVILLE	KY	WFPL	4258	18	LOUISVILLE	KY	WKYI-CD	25078	0.00	1028414
Same Tower	211	FORT MYERS	FL	WGCU-FM	69042	22	FORT MYERS	FL	WGCU	62388	0.00	1020483
Same Tower	215	CINCINNATI	OH	WGUC	6126	26	CINCINNATI	OH	WCPO-TV	59438	0.00	1013618
Same Tower	217	MOBILE	AL	WHIL-FM	61999	20	MOBILE	AL	WKRG-TV	73187	0.00	1035771
Same Tower	212	LA CROSSE	WI	WHLA	63055	15	LA CROSSE	WI	WHLA-TV	18780	0.00	1024862
Same Tower	211	CONWAY	SC	WHMC-FM	60998	11	CONWAY	SC	WHMC	61004	0.00	1059179
Same Tower	217	WILMINGTON	NC	WHQR	22656	24	WILMINGTON	NC	WWAY	12033	0.00	1008242
Same Tower	217	WILMINGTON	NC	WHQR	22656	23	WILMINGTON	NC	WECT	48666	0.00	1008242
Same Tower	217	WILMINGTON	NC	WHQR	22656	29	WILMINGTON	NC	WSFX-TV	72871	0.00	1008242
Same Tower	212	NORFOLK	VA	WHRO-FM	25940	31	HAMPTON-NORFOLK	VA	WHRO-TV	25932	0.00	1057874
Same Tower	212	NORFOLK	VA	WHRO-FM	25940	16	NORFOLK	VA	WTKR	47401	0.00	1057874
Same Tower	212	NORFOLK	VA	WHRO-FM	25940	32	NORFOLK	VA	WPXV-TV	67077	0.00	1057874
Same Tower	215	PHILADELPHIA	PA	WHYY-FM	72336	13	WILMINGTON	DE	WHYY-TV	72338	0.00	1027110
Same Tower	210	JACKSONVILLE	FL	WJCT-FM	73125	11	JACKSONVILLE	FL	WJKF-CD	4754	0.00	1235223
Same Tower	210	JACKSONVILLE	FL	WJCT-FM	73125	14	JACKSONVILLE	FL	WFOX-TV	11909	0.00	1235223
Same Tower	210	JACKSONVILLE	FL	WJCT-FM	73125	9	JACKSONVILLE	FL	WJCT	73130	0.00	1235223
Same Tower	201	WARM SPRINGS	GA	WJSP-FM	23927	5	COLUMBUS	GA	WJSP-TV	23918	0.00	1018795
Same Tower	210	BEAUFORT	SC	WJWJ-FM	61006	32	BEAUFORT	SC	WJWJ-TV	61007	0.00	1059178
Same Tower	213	EAST LANSING	MI	WKAR-FM	41683	33	EAST LANSING	MI	WKAR-TV	6104	0.00	1265362
Same Tower	209	KENT	OH	WKSU-FM	34045	24	AKRON	OH	WEAO	49421	0.00	1018464
Same Tower	205	BOWLING GREEN	KY	WKYU-FM	71856	29	BOWLING GREEN	KY	WKGB-TV	34177	0.00	1044046
Same Tower	217	MIAMI	FL	WLRN-FM	66339	26	MIAMI	FL	WLRN-TV	66358	0.00	1041402
Same Tower	205	LA CROSSE	WI	WLSU	4327	15	LA CROSSE	WI	WHLA-TV	18780	0.00	1024862
Same Tower	217	COLUMBIA	SC	WLTR	60984	33	COLUMBIA	SC	WLTK-TV	61013	0.00	1059176
Same Tower	210	MISSISSIPPI STATE	MS	WMAB-FM	43212	8	MISSISSIPPI STATE	MS	WMAB-TV	43192	0.00	1041039
Same Tower	208	BOONEVILLE	MS	WMAE-FM	43190	9	BOONEVILLE	MS	WMAE-TV	43170	0.00	1041045
Same Tower	201	MERIDIAN	MS	WMAW-FM	43188	28	MERIDIAN	MS	WMAW-TV	43169	0.00	1041037
Same Tower	211	PORTLAND	ME	WMEA	39655	31	PORTLAND	ME	WCSH	39664	0.00	1055705
Same Tower	206	SCHENECTADY	NY	WMHT-FM	73266	8	ALBANY	NY	WXXA-TV	11970	0.00	1231728

Same Tower	206	SCHENECTADY	NY	WMHT-FM	73266	25	SCHENECTADY	NY	WMHT	73263	0.00	1231728
Same Tower	206	SCHENECTADY	NY	WMHT-FM	73266	22	SCHENECTADY	NY	WCWN	73264	0.00	1231728
Same Tower	206	SCHENECTADY	NY	WMHT-FM	73266	24	ALBANY	NY	WTEN	74422	0.00	1231728
Same Tower	212	MOREHEAD	KY	WMKY	43765	30	MOREHEAD	KY	WKMR	34202	0.00	1044041
Same Tower	203	TAMPA	FL	WMNF	47459	29	BRADENTON	FL	WXPX-TV	6601	0.00	1057473
Same Tower	203	TAMPA	FL	WMNF	47459	18	LAKELAND	FL	WMOR-TV	53819	0.00	1057473
Same Tower	209	COCHRAN	GA	WMUM-FM	23939	9	COCHRAN	GA	WMUM-TV	23935	0.00	1018798
Same Tower	255	CHATSWORTH	GA	WNGH-FM	2309	4	CHATSWORTH	GA	WNGH-TV	23942	0.00	1018797
Same Tower	201	BERLIN	NJ	WNJS-FM	48486	23	CAMDEN	NJ	WNJS	48481	0.00	1045125
Same Tower	201	BERLIN	NJ	WNJS-FM	48486	27	HAMMONTON	NJ	WPSJ-CD	167543	0.00	1045125
Same Tower	211	MARQUETTE	MI	WNMU-FM	49572	8	MARQUETTE	MI	WNMU	4318	0.00	1023010
Same Tower	205	ROCK HILL	SC	WNMC-FM	60962	34	ROCK HILL	SC	WNMC-TV	61009	0.00	1059182
Same Tower	230	NEW YORK	NY	WNYC-FM	73355	36	NEW YORK	NY	WCBS-TV	9610	0.00	1007048
Same Tower	230	NEW YORK	NY	WNYC-FM	73355	12	NEWARK	NJ	WNET	18795	0.00	1007048
Same Tower	230	NEW YORK	NY	WNYC-FM	73355	27	NEW YORK	NY	WNYW	22206	0.00	1007048
Same Tower	230	NEW YORK	NY	WNYC-FM	73355	26	NEWARK	NJ	WFUT-DT	60555	0.00	1007048
Same Tower	230	NEW YORK	NY	WNYC-FM	73355	35	LINDEN	NJ	WNJU	73333	0.00	1007048
Same Tower	230	NEW YORK	NY	WNYC-FM	73355	34	NEW YORK	NY	WPXN-TV	73356	0.00	1007048
Same Tower	230	NEW YORK	NY	WNYC-FM	73355	25	SECAUCUS	NJ	WWOR-TV	74197	0.00	1007048
Same Tower	217	ATHENS	OH	WOUB-FM	50149	32	ATHENS	OH	WOUB-TV	50147	0.00	1041734
Same Tower	206	CAMBRIDGE	OH	WOUC-FM	50142	6	CAMBRIDGE	OH	WOUC-TV	50141	0.00	1008520
Same Tower	207	GREEN BAY	WI	WPNE-FM	63060	25	GREEN BAY	WI	WPNE-TV	18798	0.00	1035536
Same Tower	207	PITTSBURGH	PA	WQED-FM	54002	16	PITTSBURGH	PA	WINP-TV	41314	0.00	1022324
Same Tower	207	PITTSBURGH	PA	WQED-FM	54002	2	PITTSBURGH	PA	WQED	41315	0.00	1022324
Same Tower	207	PITTSBURGH	PA	WQED-FM	54002	30	JOHNSTOWN	PA	WBYD-CD	68395	0.00	1022324
Same Tower	209	JOHNSTOWN	PA	WQEJ	54003	35	JOHNSTOWN	PA	WJAC-TV	73120	0.00	1226360
Same Tower	290	NEWARK	NJ	WQXR-FM	46978	36	NEW YORK	NY	WCBS-TV	9610	0.00	1007048
Same Tower	290	NEWARK	NJ	WQXR-FM	46978	12	NEWARK	NJ	WNET	18795	0.00	1007048
Same Tower	290	NEWARK	NJ	WQXR-FM	46978	27	NEW YORK	NY	WNYW	22206	0.00	1007048
Same Tower	290	NEWARK	NJ	WQXR-FM	46978	26	NEWARK	NJ	WFUT-DT	60555	0.00	1007048
Same Tower	290	NEWARK	NJ	WQXR-FM	46978	35	LINDEN	NJ	WNJU	73333	0.00	1007048
Same Tower	290	NEWARK	NJ	WQXR-FM	46978	34	NEW YORK	NY	WPXN-TV	73356	0.00	1007048
Same Tower	290	NEWARK	NJ	WQXR-FM	46978	25	SECAUCUS	NJ	WWOR-TV	74197	0.00	1007048
Same Tower	215	DETROIT	MI	WRCJ-FM	6056	20	DETROIT	MI	WTVS	16817	0.00	1003429
Same Tower	215	DETROIT	MI	WRCJ-FM	6056	21	DETROIT	MI	WWJ-TV	72123	0.00	1003429
Same Tower	215	DETROIT	MI	WRCJ-FM	6056	31	DETROIT	MI	WMYD	74211	0.00	1003429
Same Tower	211	PHILADELPHIA	PA	WRTI	65190	33	PHILADELPHIA	PA	WPSG	12499	0.00	1231524
Same Tower	211	PHILADELPHIA	PA	WRTI	65190	34	WILMINGTON	DE	WPPX-TV	51984	0.00	1231524
Same Tower	211	PHILADELPHIA	PA	WRTI	65190	28	PHILADELPHIA	PA	WCAU	63153	0.00	1231524
Same Tower	211	PHILADELPHIA	PA	WRTI	65190	35	PHILADELPHIA	PA	WFPA-CD	74216	0.00	1231524
Same Tower	203	ROCHESTER	NY	WRUR-FM	69138	22	ROCHESTER	NY	WXXI-TV	57274	0.00	1003958
Same Tower	204	RUTLAND	VT	WRVT	69953	10	RUTLAND	VT	WVER	69946	0.00	1210439
Same Tower	207	CHARLESTON	SC	WSCI	60950	9	CHARLESTON	SC	WTV	61005	0.00	1051231
Same Tower	207	CHARLESTON	SC	WSCI	60950	19	CHARLESTON	SC	WCSC-TV	71297	0.00	1051231
Same Tower	208	SALISBURY	MD	WSCL	58660	24	SEAFORD	DE	WDPB	72335	0.00	1032913
Same Tower	216	FAIRFIELD	CT	WSHU-FM	58515	21	BRIDGEPORT	CT	WEDW	13594	0.00	1205267
Same Tower	207	BINGHAMTON	NY	WSKG-FM	74039	31	BINGHAMTON	NY	WSKG-TV	74034	0.00	1236974

Same Tower	209	TOWSON	MD	WTMD	67461	23	TOWSON	MD	WMJF-CD	191262	0.00	1037283
Same Tower	217	LEXINGTON	KY	WKY	4303	35	LEXINGTON	KY	WKLE	34207	0.00	1044040
Same Tower	205	MANTEO	NC	WUND-FM	89274	29	EDENTON	NC	WUND-TV	69292	0.00	1063239
Same Tower	213	LOUISVILLE	KY	WUOL-FM	69113	18	LOUISVILLE	KY	WKYI-CD	25078	0.00	1028414
Same Tower	201	PENSACOLA	FL	WUWF	66570	31	FORT WALTON BEACH	FL	WPAN	31570	0.00	1058824
Same Tower	209	MILWAUKEE	WI	WUWM	4285	31	MILWAUKEE	WI	WITI	73107	0.00	1056835
Same Tower	219	BECKLEY	WV	WVPB	71689	8	GRANDVIEW	WV	WSWP-TV	71680	0.00	1035131
Same Tower	201	ELKHART	IN	WVPE	19365	31	SOUTH BEND	IN	WNIT	41671	0.00	1237678
Same Tower	215	MORGANTOWN	WV	WVPM	70645	34	MORGANTOWN	WV	WNPB-TV	71676	0.00	1035128
Same Tower	216	VINCENNES	IN	WVUB	70241	31	VINCENNES	IN	WVUT	4329	0.00	1028983
Same Tower	210	HUNTINGTON	WV	WVWV	71656	20	HUNTINGTON	WV	WVPB-TV	71657	0.00	1045615
Same Tower	219	CINCINNATI	OH	WXU	74302	26	CINCINNATI	OH	WCPO-TV	59438	0.00	1013618
Same Tower	210	NEW ORLEANS	LA	WWNO	38607	17	SLIDELL	LA	WUPL	13938	0.00	1020780
Same Tower	210	NEW ORLEANS	LA	WWNO	38607	33	NEW ORLEANS	LA	WPXL-TV	21729	0.00	1020780
Same Tower	211	WAYCROSS	GA	WXVS	23923	7	WAYCROSS	GA	WXGA-TV	23929	0.00	1018780
Same Tower	218	ROCHESTER	NY	WXXI-FM	74218	22	ROCHESTER	NY	WXXI-TV	57274	0.00	1003958
Same Tower	205	MILWAUKEE	WI	WYMS	42669	31	MILWAUKEE	WI	WITI	73107	0.00	1056835

92 Bystander FM Stations Colocated with Repack TV Stations

APPENDIX B

**CPB-Eligible Radio Stations Near Co-Located
(Within 250 Meters)
With Full Power or Class A TV Stations
That Are Being Repacked**

POTENTIAL INCENTIVE AUCTION REPACK IMPACT ON CPB ELIGIBLE FM STATIONS

REPACKED DTV STATIONS

POTENTIALLY IMPACTED CPB ELIGIBLE FM

Site Proximity	Channel	City	State	Call	Facility ID	Channel	City	State	Call	Facility ID	State	City	State	Call	Facility ID	Separation Distance (km)
Near Tower	206	ALBUQUERQUE	NM	KANW	4273	16	ALBUQUERQUE	NM	KLUZ-TV	35084	NM	ALBUQUERQUE	NM	KLUZ-TV	35084	0.12
Near Tower	206	ALBUQUERQUE	NM	KANW	4273	36	ALBUQUERQUE	NM	KASY-TV	55049	NM	ALBUQUERQUE	NM	KASY-TV	55049	0.19
Near Tower	215	EL DORADO	AR	KBSA	4217	18	CAMDEN	AR	KMYA-DT	86534	AR	CAMDEN	AR	KMYA-DT	86534	0.13
Near Tower	211	SAN LUIS OBISPO	CA	KCBX	33705	32	SAN LUIS OBISPO	CA	K50LZ-D	29885	CA	SAN LUIS OBISPO	CA	K50LZ-D	29885	0.07
Near Tower	211	SAN LUIS OBISPO	CA	KCBX	33705	36	SAN LUIS OBISPO	CA	KSBO-CD	31354	CA	SAN LUIS OBISPO	CA	KSBO-CD	31354	0.09
Near Tower	201	LAS VEGAS	NV	KCEP	50390	36	LAS VEGAS	NV	K43FO-D	14302	NV	LAS VEGAS	NV	K43FO-D	14302	0.20
Near Tower	201	LAS VEGAS	NV	KCEP	50390	20	PARADISE	NV	KBLR	63768	NV	PARADISE	NV	KBLR	63768	0.18
Near Tower	220	PUEBLO	CO	KCFP	12326	21	"PUEBLO, ETC."	CO	KGHB-CD	24515	CO	"PUEBLO, ETC."	CO	KGHB-CD	24515	0.16
Near Tower	211	DENVER	CO	KCFR-FM	53777	33	DENVER	CO	KRMA-TV	14040	CO	DENVER	CO	KRMA-TV	14040	0.22
Near Tower	211	DENVER	CO	KCFR-FM	53777	15	CASTLE ROCK	CO	KETD	37101	CO	CASTLE ROCK	CO	KETD	37101	0.22
Near Tower	211	DENVER	CO	KCFR-FM	53777	32	BOULDER	CO	KTFD-DT	57219	CO	BOULDER	CO	KTFD-DT	57219	0.22
Near Tower	219	CHICO	CA	KGHO	68938	36	CHICO	CA	KHSL-TV	24508	CA	CHICO	CA	KHSL-TV	24508	0.08
Near Tower	204	MANITOU SPRINGS	CO	KCME	10791	26	COLORADO SPRINGS	CO	KKTV	35037	CO	COLORADO SPRINGS	CO	KKTV	35037	0.06
Near Tower	204	MANITOU SPRINGS	CO	KCME	10791	28	PUEBLO	CO	KOAA-TV	59014	CO	PUEBLO	CO	KOAA-TV	59014	0.11
Near Tower	204	MANITOU SPRINGS	CO	KCME	10791	25	PUEBLO	CO	KVSN-DT	166331	CO	PUEBLO	CO	KVSN-DT	166331	0.16
Near Tower	201	ST. LOUIS	MO	KDHX	17380	21	ST. LOUIS	MO	KEFN-CD	9375	MO	ST. LOUIS	MO	KEFN-CD	9375	0.00
Near Tower	259	MORRO BAY	CA	KESC	58653	32	SAN LUIS OBISPO	CA	K50LZ-D	29885	CA	SAN LUIS OBISPO	CA	K50LZ-D	29885	0.20
Near Tower	259	MORRO BAY	CA	KESC	58653	36	SAN LUIS OBISPO	CA	KSBO-CD	31354	CA	SAN LUIS OBISPO	CA	KSBO-CD	31354	0.10
Near Tower	212	SEATTLE	WA	KEXP-FM	68668	16	SEATTLE	WA	KFFV	49264	WA	SEATTLE	WA	KFFV	49264	0.07
Near Tower	212	SEATTLE	WA	KEXP-FM	68668	36	SEATTLE	WA	KZJO	69571	WA	SEATTLE	WA	KZJO	69571	0.13
Near Tower	204	MODESTO	CA	KMPO	54493	19	MERCED-MARIPOSA	CA	KMPH-CD	168338	CA	MERCED-MARIPOSA	CA	KMPH-CD	168338	0.03
Near Tower	201	ROSEBURG	OR	KMPQ	89864	36	ROSEBURG	OR	KTCW	35187	OR	ROSEBURG	OR	KTCW	35187	0.05
Near Tower	205	MINOT	ND	KMPR	53319	15	MINOT	ND	KSRE	53313	ND	MINOT	ND	KSRE	53313	0.04
Near Tower	216	MINNEAPOLIS-ST. PAUL	MN	KNOW-FM	42949	30	MINNEAPOLIS	MN	KSTC-TV	35843	MN	MINNEAPOLIS	MN	KSTC-TV	35843	0.04
Near Tower	208	SAN DIEGO	CA	KPBS-FM	58823	24	SAN DIEGO	CA	KBNT-CD	4035	CA	SAN DIEGO	CA	KBNT-CD	4035	0.14
Near Tower	207	PASADENA	CA	KPCC	51701	31	LOS ANGELES	CA	KCBS-TV	9628	CA	LOS ANGELES	CA	KCBS-TV	9628	0.07
Near Tower	207	PASADENA	CA	KPCC	51701	12	ANAHEIM	CA	KDOC-TV	24518	CA	ANAHEIM	CA	KDOC-TV	24518	0.08
Near Tower	207	PASADENA	CA	KPCC	51701	35	LOS ANGELES	CA	KTLA	35670	CA	LOS ANGELES	CA	KTLA	35670	0.13
Near Tower	207	PASADENA	CA	KPCC	51701	30	RANCHO PALOS VERICA	CA	KXLA	55083	CA	RANCHO PALOS VERICA	CA	KXLA	55083	0.08
Near Tower	203	PALM SPRINGS	CA	KPSC	69394	18	CATHEDRAL CITY	CA	KPSP-CD	10535	CA	CATHEDRAL CITY	CA	KPSP-CD	10535	0.23
Near Tower	203	PALM SPRINGS	CA	KPSC	69394	26	PALM SPRINGS	CA	KMIR-TV	16749	CA	PALM SPRINGS	CA	KMIR-TV	16749	0.24
Near Tower	203	PALM SPRINGS	CA	KPSC	69394	28	PALM SPRINGS	CA	KESQ-TV	25577	CA	PALM SPRINGS	CA	KESQ-TV	25577	0.07
Near Tower	203	PALM SPRINGS	CA	KPSC	69394	33	INDIO/PALM SPRINGS	CA	KDFX-CD	51207	CA	INDIO/PALM SPRINGS	CA	KDFX-CD	51207	0.14
Near Tower	203	PALM SPRINGS	CA	KPSC	69394	27	INDIO	CA	KVER-CD	69753	CA	INDIO	CA	KVER-CD	69753	0.23
Near Tower	218	COLORADO SPRINGS	CO	KRCC	65563	26	COLORADO SPRINGS	CO	KKTV	35037	CO	COLORADO SPRINGS	CO	KKTV	35037	0.04
Near Tower	218	COLORADO SPRINGS	CO	KRCC	65563	28	PUEBLO	CO	KOAA-TV	59014	CO	PUEBLO	CO	KOAA-TV	59014	0.12
Near Tower	218	COLORADO SPRINGS	CO	KRCC	65563	25	PUEBLO	CO	KVSN-DT	166331	CO	PUEBLO	CO	KVSN-DT	166331	0.17
Near Tower	215	SALT LAKE CITY	UT	KRCL	37766	35	OGDEN	UT	KUCW	1136	UT	OGDEN	UT	KUCW	1136	0.04

Near Tower	215	SALT LAKE CITY	UT	KRCL	37766	23	SALT LAKE CITY	UT	KSL-TV	6359	0.04
Near Tower	215	SALT LAKE CITY	UT	KRCL	37766	17	PROVO	UT	KBYU-TV	6823	0.04
Near Tower	215	SALT LAKE CITY	UT	KRCL	37766	19	SALT LAKE CITY	UT	KJZZ-TV	36607	0.04
Near Tower	215	SALT LAKE CITY	UT	KRCL	37766	21	SALT LAKE CITY	UT	KEJT-CD	64974	0.12
Near Tower	215	SALT LAKE CITY	UT	KRCL	37766	30	SALT LAKE CITY	UT	KTVX	68889	0.04
Near Tower	215	SALT LAKE CITY	UT	KRCL	37766	15	SALT LAKE CITY	UT	KUED	69396	0.04
Near Tower	290	FRESNO	CA	KRNC	26933	35	FRESNO	CA	KZMM-CD	18740	0.17
Near Tower	290	FRESNO	CA	KRNC	26933	21	HANFORD	CA	KFTV-DT	34439	0.10
Near Tower	290	FRESNO	CA	KRNC	26933	16	FRESNO	CA	KSEE	35594	0.17
Near Tower	218	ROSEBURG	OR	KSRS	62158	36	ROSEBURG	OR	KTCW	35187	0.09
Near Tower	211	BAKERSFIELD	CA	KTQX	54494	35	BAKERSFIELD	CA	KABE-CD	18747	0.25
Near Tower	201	LUBBOCK	TX	KTXI-FM	65352	25	LUBBOCK	TX	KTTZ-TV	65355	0.05
Near Tower	213	TUCSON	AZ	KUAT-FM	2732	34	GREEN VALLEY	AZ	KUVE-DT	63927	0.06
Near Tower	211	SALT LAKE CITY	UT	KUER-FM	69171	35	OGDEN	UT	KUCW	1136	0.07
Near Tower	211	SALT LAKE CITY	UT	KUER-FM	69171	23	SALT LAKE CITY	UT	KSL-TV	6359	0.07
Near Tower	211	SALT LAKE CITY	UT	KUER-FM	69171	17	PROVO	UT	KBYU-TV	6823	0.07
Near Tower	211	SALT LAKE CITY	UT	KUER-FM	69171	19	SALT LAKE CITY	UT	KJZZ-TV	36607	0.07
Near Tower	211	SALT LAKE CITY	UT	KUER-FM	69171	21	SALT LAKE CITY	UT	KEJT-CD	64974	0.09
Near Tower	211	SALT LAKE CITY	UT	KUER-FM	69171	30	SALT LAKE CITY	UT	KTVX	68889	0.07
Near Tower	211	SALT LAKE CITY	UT	KUER-FM	69171	15	SALT LAKE CITY	UT	KUED	69396	0.07
Near Tower	213	WOODLAKE	CA	KUFW	21210	22	VISALIA	CA	KNXT	16950	0.16
Near Tower	213	WOODLAKE	CA	KUFW	21210	23	PORTERVILLE	CA	KTFE-DT	35512	0.16
Near Tower	210	ALBUQUERQUE	NM	KUNM	6083	16	ALBUQUERQUE	NM	KLUZ-TV	35084	0.12
Near Tower	210	ALBUQUERQUE	NM	KUNM	6083	36	ALBUQUERQUE	NM	KASY-TV	55049	0.19
Near Tower	204	RENO	NV	KUNR	69001	18	RENO	NV	KRNS-CD	34577	0.12
Near Tower	235	SEATTLE	WA	KUOW	66571	16	SEATTLE	WA	KFFV	49264	0.07
Near Tower	235	SEATTLE	WA	KUOW	66571	36	SEATTLE	WA	KZJO	69571	0.13
Near Tower	218	LOS ANGELES	CA	KUSC	69318	25	CORONA	CA	KVEA	19783	0.08
Near Tower	218	LOS ANGELES	CA	KUSC	69318	4	LOS ANGELES	CA	KWHY-TV	26231	0.08
Near Tower	218	LOS ANGELES	CA	KUSC	69318	24	SAN BERNARDINO	CA	KPXN-TV	58978	0.10
Near Tower	218	LOS ANGELES	CA	KUSC	69318	22	LOS ANGELES	CA	KHTV-CD	60026	0.08
Near Tower	201	LAKEWOOD	CO	KVOD	83535	33	DENVER	CO	KRMA-TV	14040	0.04
Near Tower	201	LAKEWOOD	CO	KVOD	83535	15	CASTLE ROCK	CO	KETD	37101	0.04
Near Tower	201	LAKEWOOD	CO	KVOD	83535	32	BOULDER	CO	KTFD-DT	57219	0.04
Near Tower	201	LAKEWOOD	CO	KVOD	83535	33	DENVER	CO	KRMA-TV	14040	0.22
Near Tower	201	LAKEWOOD	CO	KVOD	83535	15	CASTLE ROCK	CO	KETD	37101	0.22
Near Tower	201	LAKEWOOD	CO	KVOD	83535	32	BOULDER	CO	KTFD-DT	57219	0.22
Near Tower	207	FRESNO	CA	KVPR	72188	35	FRESNO	CA	KZMM-CD	18740	0.24
Near Tower	207	FRESNO	CA	KVPR	72188	21	HANFORD	CA	KFTV-DT	34439	0.15
Near Tower	207	FRESNO	CA	KVPR	72188	16	FRESNO	CA	KSEE	35594	0.24
Near Tower	217	TUCSON	AZ	KXCI	22167	34	GREEN VALLEY	AZ	KUVE-DT	63927	0.05
Near Tower	205	SACRAMENTO	CA	KXJZ	8358	33	SACRAMENTO	CA	KTXL	10205	0.23
Near Tower	258	NEW YORK	NY	WBAI	51249	22	EDISON	NJ	WDVB-CD	168834	0.05
Near Tower	218	CHICAGO	IL	WBEZ	66649	35	JOLIET	IL	WGBO-DT	12498	0.00

Near Tower	212	BIRMINGHAM	AL	WBHM	4240	29	BIRMINGHAM	AL	WBRC	71221	0.00
Near Tower	211	GREENVILLE	SC	WEPR	60926	2	GREENVILLE	SC	WGG5-TV	9064	0.14
Near Tower	204	MADISON	WI	WERN	63030	18	MADISON	WI	WMSN-TV	10221	0.00
Near Tower	204	MADISON	WI	WERN	63030	11	MADISON	WI	WISC-TV	65143	0.00
Near Tower	205	TALLAHASSEE	FL	WFSU-FM	21799	20	THOMASVILLE	GA	WCTV	31590	0.03
Near Tower	206	PANAMA CITY	FL	WFSW	21798	28	PANAMA CITY	FL	WFSG	6093	0.04
Near Tower	212	LA CROSSE	WI	WHLA	63055	28	LA CROSSE	WI	WXOW	64549	0.18
Near Tower	208	NORFOLK	VA	WHRV	25933	31	HAMPTON-NORFOLK	VA	WHRO-TV	25932	0.06
Near Tower	208	NORFOLK	VA	WHRV	25933	16	NORFOLK	VA	WTKR	47401	0.07
Near Tower	208	NORFOLK	VA	WHRV	25933	32	NORFOLK	VA	WPXV-TV	67077	0.07
Near Tower	215	PHILADELPHIA	PA	WHYY-FM	72336	31	PHILADELPHIA	PA	WTFX-TV	51568	0.16
Near Tower	217	SAN JUAN	PR	WIPR-FM	53860	26	SAN JUAN	PR	WIPR-TV	53859	0.22
Near Tower	208	HARRISBURG	PA	WTF-FM	73084	32	HARRISBURG	PA	WHP-TV	72313	0.08
Near Tower	215	WATERTOWN	NY	WJNY	53729	26	WATERTOWN	NY	WPBS-DT	62136	0.06
Near Tower	208	HENDERSON	KY	WKPB	71864	17	OWENSBORO	KY	WKOH	34205	0.04
Near Tower	205	LA CROSSE	WI	WLSU	4327	28	LA CROSSE	WI	WXOW	64549	0.22
Near Tower	214	ORLANDO	FL	WMFE-FM	12857	34	ORLANDO	FL	WUCF-TV	12855	0.04
Near Tower	220	CHARLOTTESVILLE	VA	WNRN	8710	26	CHARLOTTESVILLE	VA	WHTJ	9990	0.09
Near Tower	220	CHARLOTTESVILLE	VA	WNRN	8710	26	CHARLOTTESVILLE	VA	WHTJ	9990	0.09
Near Tower	230	NEW YORK	NY	WNYC-FM	73355	22	EDISON	NJ	WDVB-CD	168834	0.05
Near Tower	210	MADISON	WI	WORT	3596	21	JANESVILLE	WI	WFS	26025	0.00
Near Tower	217	ERIE	PA	WQLN-FM	53720	27	ERIE	PA	WQLN	53716	0.09
Near Tower	290	NEWARK	NJ	WQXR-FM	46978	22	EDISON	NJ	WDVB-CD	168834	0.05
Near Tower	242	NEW YORK	NY	WQXR-FM	29022	36	NEW YORK	NY	WCBS-TV	9610	0.05
Near Tower	242	NEW YORK	NY	WQXR-FM	29022	12	NEWARK	NJ	WNET	18795	0.05
Near Tower	242	NEW YORK	NY	WQXR-FM	29022	27	NEW YORK	NY	WNYW	22206	0.05
Near Tower	242	NEW YORK	NY	WQXR-FM	29022	26	NEWARK	NJ	WFUT-DT	60555	0.05
Near Tower	242	NEW YORK	NY	WQXR-FM	29022	35	LINDEN	NJ	WNJU	73333	0.07
Near Tower	242	NEW YORK	NY	WQXR-FM	29022	34	NEW YORK	NY	WPXN-TV	73356	0.05
Near Tower	242	NEW YORK	NY	WQXR-FM	29022	25	SECAUCUS	NJ	WWOR-TV	74197	0.05
Near Tower	242	NEW YORK	NY	WQXR-FM	29022	22	EDISON	NJ	WDVB-CD	168834	0.05
Near Tower	201	SUMTER	SC	WRJA-FM	60974	29	SUMTER	SC	WRJA-TV	61012	0.08
Near Tower	211	PHILADELPHIA	PA	WRTI	65190	31	PHILADELPHIA	PA	WTFX-TV	51568	0.23
Near Tower	203	ROCHESTER	NY	WRUR-FM	69138	9	ROCHESTER	NY	WHAM-TV	73371	0.02
Near Tower	203	ROCHESTER	NY	WRUR-FM	69138	21	ROCHESTER	NY	WROC-TV	73964	0.03
Near Tower	219	WATERTOWN	NY	WRVJ	63108	26	WATERTOWN	NY	WPBS-DT	62136	0.06
Near Tower	207	BINGHAMTON	NY	WSKG-FM	74039	27	BINGHAMTON	NY	WVT	11260	0.21
Near Tower	213	SARANAC LAKE	NY	WSLL	66435	17	SARANAC LAKE	NY	WYCI	77515	0.02
Near Tower	216	CORNING	NY	WSQE	74030	23	ELMIRA	NY	WETM-TV	60653	0.07
Near Tower	216	SAVANNAH	GA	WSVH	23926	8	SAVANNAH	GA	WVAN-TV	23947	0.04
Near Tower	216	CHARLOTTESVILLE	VA	WTJU	69145	26	CHARLOTTESVILLE	VA	WHTJ	9990	0.09
Near Tower	216	CHARLOTTESVILLE	VA	WTJU	69145	32	CHARLOTTESVILLE	VA	WCAV	363	0.22
Near Tower	216	CHARLOTTESVILLE	VA	WTJU	69145	35	CHARLOTTESVILLE	VA	WAHU-CD	47705	0.22
Near Tower	209	EAU CLAIRE	WI	WUEC	4282	25	EAU CLAIRE	WI	WQOW	64550	0.09

Near Tower	218	CHAPEL HILL	NC	WUNC	66581	20	CHAPEL HILL	NC	WUNC-TV	69080	0.04
Near Tower	208	UTICA	NY	WUNY	53735	34	UTICA	NY	WFXV	43424	0.18
Near Tower	209	TAMPA	FL	WUSF	69122	20	TAMPA	FL	WFTT-DT	60559	0.20
Near Tower	212	OLNEY	IL	WUSI	6108	23	OLNEY	IL	WUSI-TV	4301	0.04
Near Tower	201	CHATTANOOGA	TN	WUTC	69325	35	CHATTANOOGA	TN	WTCI	65667	0.00
Near Tower	210	SCRANTON	PA	WVIA-FM	49436	12	SCRANTON	PA	WYOU	17010	0.25
Near Tower	210	SCRANTON	PA	WVIA-FM	49436	16	SCRANTON	PA	WNEP-TV	73318	0.07
Near Tower	210	SCRANTON	PA	WVIA-FM	49436	22	HAZLETON	PA	WOLF-TV	73375	0.12
Near Tower	203	ST. JOHNSBURY	VT	WVPA	85029	28	ST. JOHNSBURY	VT	WWTB	69940	0.07
Near Tower	300	BURLINGTON	VT	WVPS	69952	16	BURLINGTON	VT	WFFF-TV	10132	0.04
Near Tower	300	BURLINGTON	VT	WVPS	69952	7	BURLINGTON	VT	WVNY	11259	0.04
Near Tower	300	BURLINGTON	VT	WVPS	69952	20	BURLINGTON	VT	WCAX-TV	46728	0.04
Near Tower	203	CHARLOTTESVILLE	VA	WVTW	63547	26	CHARLOTTESVILLE	VA	WHTJ	9990	0.09
Near Tower	218	ROCHESTER	NY	WXXI-FM	74218	9	ROCHESTER	NY	WHAM-TV	73371	0.02
Near Tower	218	ROCHESTER	NY	WXXI-FM	74218	21	ROCHESTER	NY	WROC-TV	73964	0.03

75 Bystander FM Stations Near Co-located

APPENDIX C

**DTV REPACK PHASED
TRANSITION SCHEDULE**

