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Before The
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554

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FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

In the Matter of)
)
Amendment of Section 73.622(b))
DTV Table of Television Allotments)
(Booneville, Mississippi))

Docket No. _____

To: Chief, Allocations Branch

PETITION FOR RULE MAKING

The Mississippi Authority for Educational television ("MAET"), through its attorneys, hereby petitions, pursuant to Section 73.622(a) of the FCC's rules, for amendment of Section 73.622(B), the DTV Table of Television Allotments, to change DTV Channel *55 to Channel *8 for noncommercial educational use as the paired channel for existing NTSC Channel *12 at Booneville, Mississippi. In support thereof, the following is respectfully shown:

1. MAET is the licensee of public television Station WMAE-TV, Channel *12, Booneville, Mississippi. It has a pending minor modification application, filed January 10, 2000, in order to correct inaccurate elevation data for Station WMAE-TV discovered after a recent tower survey. In addition, on December 17, 1999, MAET filed its notification of intent to maximize DTV facilities for its paired DTV channel at Booneville, Mississippi.

2. MAET is now actively engaged in reviewing the engineering and financial aspects of its project for implementation of DTV facilities paired with NTSC Station WMAE-TV, including its plans for the filing of an appropriate DTV application for

Noted/Discovered OHY
ENCLOSURE
AMB

Booneville, Mississippi in advance of May 1, 2000. Its preliminary engineering review has prompted this request for amendment of the DTV Table of Allotments.

3. MAET's Station WMAE-TV is allotted "out-of-core" UHF DTV Channel *55 as its paired DTV allotment at Booneville, Mississippi. As shown in the attached detailed engineering statement, MAET proposes to operate instead on DTV Channel *8 at Booneville. If the FCC grants the requested change in DTV allotment, MAET will be able to utilize its existing antenna, transmitter and transmission line during the DTV transition. It will also be able to utilize this existing equipment after the DTV transition when MAET relocates back to Channel *12. Otherwise, MAET will be required to purchase an extremely expensive high powered UHF DTV transmitter, a new DTV high gain antenna and transmission line much greater in diameter than its existing line. Furthermore, the existing antenna structure would require extensive strengthening in order to support the larger transmission line and antenna. Following the DTV transition in such circumstances, MAET would revert back to its licensed Channel *12 facilities for permanent operation and would be left with a superabundance of relatively new, high dollar UHF DTV transmitting equipment that will be extremely costly to decommission and completely useless for further use.

4. The attached engineering statement abundantly confirms that MAET's Station WMAE-DT can operate on DTV Channel *8 using a non-directional antenna with a maximum effective ERP of 2.1 kW at 224 meters AAT without causing above de minimis interference to any of the applicable surrounding stations. This study demonstrates that the proposed Station WMAE-DT Channel *8 Noise Limited Contour

completely encompasses the licensed Station WMAE-TV Grade B contour and is in fact a closer replication of the associated NTSC pattern than the existing allotted DTV Channel *55.

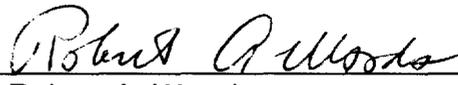
5. For all of the foregoing reasons, and for all of the reasons set forth in the attached engineering statement, MAET submits that the public interest, convenience and necessity will be amply served by expeditious and favorable consideration of this petition for rule making. Such action by the FCC will allow MAET to construct and operate efficient and economical NTSC and DTV facilities from a common antenna, thereby maximizing service to the areas and populations in the northeast Mississippi area. Adoption of this change in the DTV reserved allocation at Booneville will provide allocations flexibility and an assurance that an appropriate "in-core" reserved channel capacity will be guaranteed for this important region of the State. MAET will be able to conserve scarce funding dollars and resources in its implementation of its Statewide DTV system. As shown in the attached engineering statement, this change in DTV reserved allocation can be readily accomplished in a manner that is fair and equal and without adverse impact upon area NTSC and DTV authorizations and allotments.

6. Accordingly, MAET respectfully urges the FCC to issue forthwith a Notice of Proposed Rule Making to substitute DTV Channel *8 for DTV Channel *55 at Booneville, Mississippi. MAET is now in the process of preparing its application for DTV maximization of facilities for the Booneville, Mississippi area. In view of time and other constraints, MAET is planning to submit that application in advance of the existing deadline date of May 1, 2000, utilizing proposed DTV Channel *8 and requesting any

appropriate waiver or other policy determination by the FCC in order to permit expeditious processing and grant of MAET's minor modification application for Station WMAE-DT on Channel *8, Booneville, Mississippi, to permit early and effective public television service to this important region of the State of Mississippi through MAET's statewide public television network.

Respectfully submitted,

MISSISSIPPI AUTHORITY FOR
EDUCATIONAL TELEVISION

By: 
Robert A. Woods

SCHWARTZ, WOODS & MILLER
1350 Connecticut Avenue, N.W.
Suite 300
Washington, D.C. 20036-1717

202/833-1700

Its Attorneys

February 4, 2000

PETITION FOR RULE MAKING TO AMEND THE DTV TABLE OF ALLOTMENTS
MISSISSIPPI AUTHORITY FOR EDUCATIONAL TELEVISION (MAET)
LICENSEE OF TV BROADCAST STATION WMAE-TV
BOONEVILLE, MS.

The Mississippi Authority for Educational Television (MAET) is licensed to operate WMAE-TV on VHF Channel 12 with an ERP of 100.0kW at an antenna height radiation center (R/C) of 229 meters above average terrain (AAT) in the vicinity of Booneville, Mississippi. According to the DTV Table of Allotments located in Table 1 of Appendix B in the Memorandum Opinion and Order on Reconsideration of the Sixth Report and Order, WMAE is allotted the "out-of-core" UHF DTV Channel 55 at an antenna height above average terrain (HAAT) of 229 meters with an ERP of 501.9kW in order to replicate their licensed VHF Channel 12 Grade B Contour.

The Mississippi Authority for Educational Television is respectfully proposing to depart from their allotted DTV Channel 55 in order to operate on DTV Channel 8. If the MAET is authorized to operate on the requested DTV Channel 8, they will be able to use their existing antenna, transmitter, and transmission line during the DTV transition. They will also be able to use their existing equipment after the DTV transition when they relocate back to Channel 12. If the MAET is not authorized to exchange their allotted out-of-core channel with the requested DTV Channel 8, they will be required to purchase an extremely expensive high powered, UHF DTV transmitter, a new DTV high gain antenna, and transmission line much greater in diameter than their existing line. The antenna structure would also require extensive strengthening in order to support the larger transmission line and antenna. Furthermore, following the DTV transition the MAET will revert back to their licensed Channel 12 for their permanent DTV operation and will be left with a superabundance of relatively new, high dollar UHF DTV transmitting equipment that will be extremely costly to decommission and will be completely useless to them.

Detailed spacing and interference studies confirm that WMAE-DT can operate on DTV Channel 8 using a non-directional antenna with a maximum effective ERP of 2.1kW at 224 meters AAT without causing above *de minimis* interference to any of the applicable surrounding stations. Initially, a spacing study was performed in accordance with 47 C.F.R. §73.623(d) in order to determine the best possible "in-core" channel that may be available. The spacing study identified Channel 8 as the channel with the most potential for success. Exhibit 7 (Exhibits 1-6 are not included in this petition) depicts the WMAE-TV Channel 12, 56dBu Grade B Contour, the allotted WMAE-DT Channel 55, 42.4dBu Noise Limited Contour, and the proposed WMAE-DT Channel 8, 36dBu Noise Limited Contour (NLC). As you can see, the proposed WMAE-DT Channel 8 NLC completely encompasses the licensed WMAE-TV Grade B Contour. In fact, the proposed WMAE-DT Channel 8 is a closer replication of their associated NTSC pattern than the allotted WMAE-DT Channel 55. After identifying Channel 8 as a possibility, we performed extensive studies (Exhibits 8-29) to determine how much interference WMAE-DT Channel 8, at the aforementioned parameters, would cause to all the applicable surrounding stations. As you can see from all the enclosed exhibits, the proposed WMAE-DT Channel 8 does not cause above *de minimis* interference to any of the applicable surrounding stations.

Explanation of Exhibits:

Exhibits 8 and 9 identified all desired stations that required interference studies.

Exhibits 10-12 are interference studies using construction permits (CP) and licenses. These studies verify that WMAE-DT (proposed) Channel 8 only causes $1.51\% \leq 2.0\%$ interference to KAIT-TV. They also show that the total amount of interference caused to KAIT-TV from all applicable surrounding stations is $1.51\% \leq 10\%$.

Exhibits 13 and 14 are interference studies using applications (APP), CP, and licenses. These studies are the same as the studies in Exhibits 10-12 except this time, applications were also considered. These studies verified that the interference remained the same as the interference depicted in Exhibits 10-12.

Exhibits 15-17 are interference studies using CP and licenses. These studies verify that WMAE-DT (proposed) Channel 8 only causes $0.29\% \leq 2.0\%$ interference to WDCN-TV. They also show that the total amount of interference caused to WDCN-TV from all applicable surrounding stations is $0.29\% \leq 10\%$.

Exhibits 18 and 19 are interference studies using APP, CP, and licenses. These studies are the same as the studies in Exhibits 15-17 except this time, applications were also considered. These studies verify that WMAE-DT (proposed) Channel 8 causes $0.22\% \leq 2.0\%$ interference to WDCN-TV. They also show that the total amount of interference caused to WDCN-TV from all applicable surrounding stations is $1.97\% \leq 10\%$.

Exhibits 20-22 are interference studies using CP and licenses. These studies verify that WMAE-DT (proposed) Channel 8 only causes $0.66\% \leq 2.0\%$ interference to WTVA-TV. They also show that the total amount of interference caused to WTVA-TV from all applicable surrounding stations is $0.66\% \leq 10\%$.

Exhibits 23 and 24 are interference studies using APP, CP, and licenses. These studies are the same as the studies in Exhibits 20-22 except this time, applications were also considered. These studies verify that WMAE-DT (proposed) Channel 8 causes $0.66\% \leq 2.0\%$ interference to WTVA-TV. They also show that the total amount of interference caused to WTVA-TV from all applicable surrounding stations is $2.13\% \leq 10\%$.

Exhibits 25-27 are interference studies using CP and licenses. These studies verify that WMAE-DT (proposed) Channel 8 only causes $0.40\% \leq 2.0\%$ interference to WBBJ-TV. They also show that the total amount of interference caused to WBBJ-TV from all applicable surrounding stations is $0.40\% \leq 10\%$.

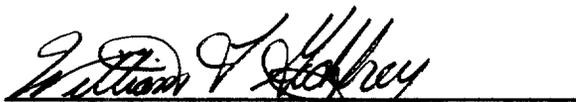
Exhibits 28 and 29 are interference studies using APP, CP, and licenses. These studies are the same as the studies in Exhibits 25-27 except, this time applications were also considered. These studies verified that the interference remained the same as the interference depicted in Exhibits 25-27.

As you can see from the Exhibits, the most interference that the proposed WMAE-DT Channel 8 causes to any applicable surrounding station is 1.51%. This is well below the 2.0% *de minimis* standard. You can also see from the Exhibits that the proposed WMAE-DT Channel 8 does not cause any of the applicable surrounding stations to come even close to having a combined total interference of 10.0% or more.

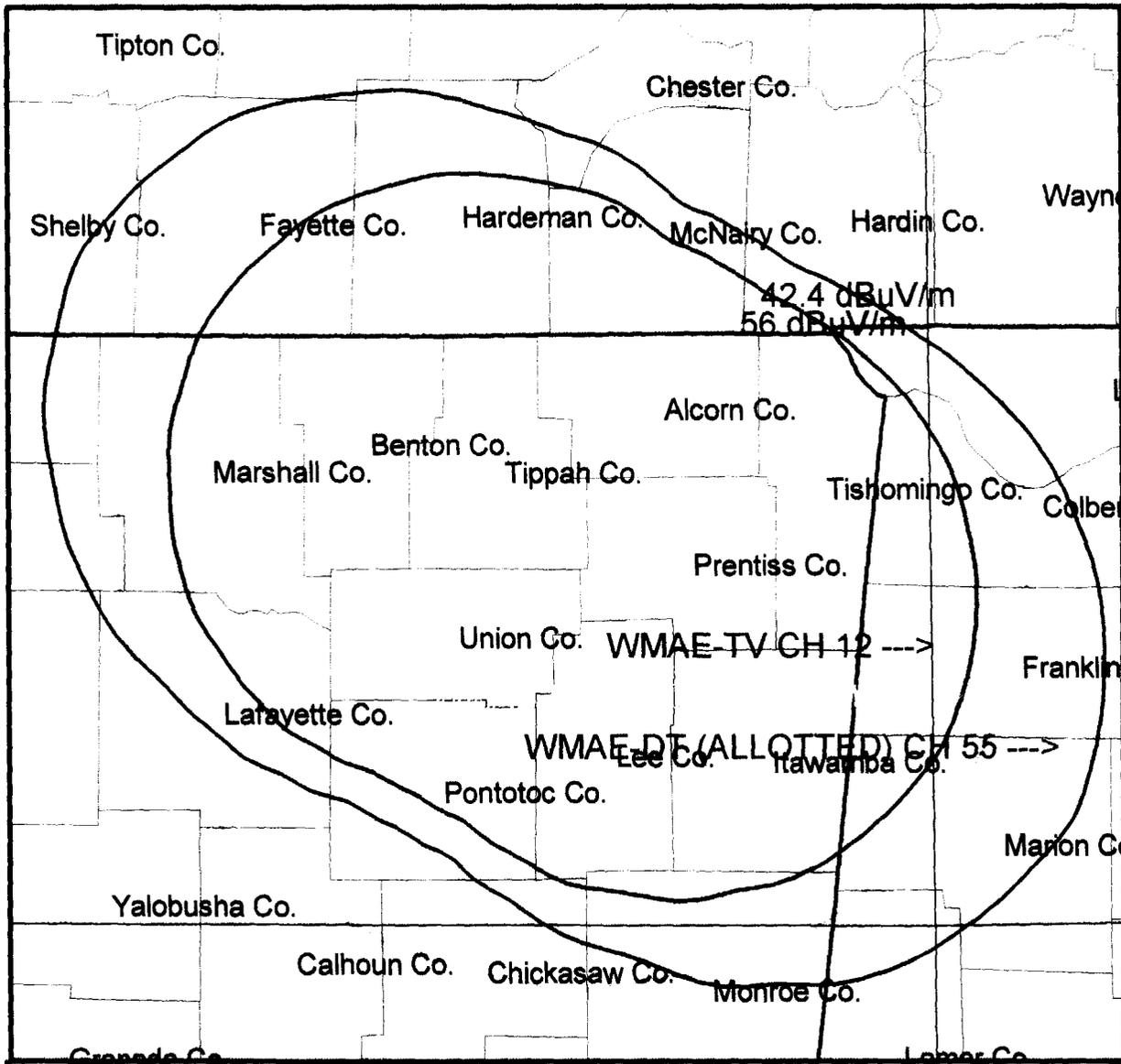
It has been demonstrated that WMAE-DT can operate on DTV channel 8 at 2.1kW, using a non-directional antenna at an antenna height of 224 meters AAT without causing above *de minimis* interference to any of the applicable surrounding stations. Therefore, the Mississippi Authority for Educational Television is respectfully requesting for the FCC to change their allotted DTV Channel from Channel 55 to Channel 8.

This Petition for Rule Making to Amend the DTV Table of Allotments was prepared by William T. Godfrey, Telecommunications Consultant with Kessler and Gehman Associates, Inc., having offices in Gainesville, Florida. He states under penalty of perjury that the information contained in this report is true and correct to the best of his knowledge and belief.


KESLER AND GEHMAN ASSOCIATES, INC.

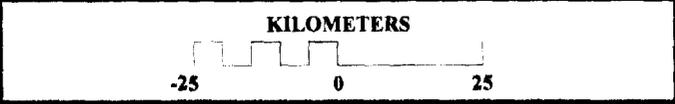

WILLIAM T. GODFREY
Consultant

3 February, 2000



SIGNAL™: wmae-dt.map

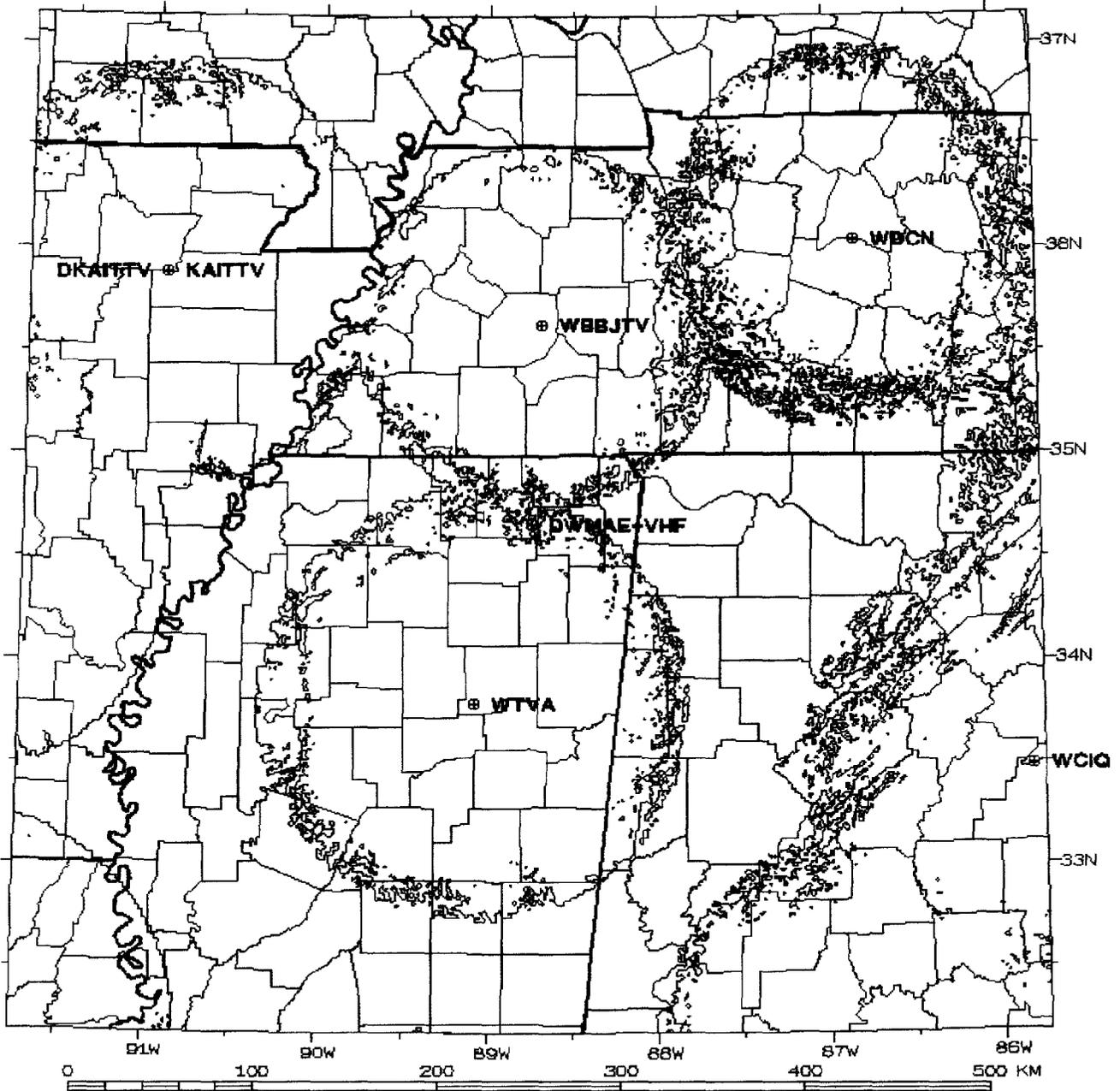
Notes
 RED = WMAE-DT (Proposed) CH 8
 BLUE = WMAE-DT (ALLOTTED) CH 55
 GREEN = WMAE-TV (LICENSED) CH 12



GRADE B CONTOUR DEPICTIONS
 PREPARED BY WILLIAM T. GODFREY

KESSLER & GEHMAN
 TELECOMMUNICATIONS CONSULTING ENGINEERS
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 Gainesville, Florida 32607

WMAE-DT CHANNEL 8
BOONEVILLE, MISSISSIPPI
 2/2/2000
 EXHIBIT 7



No Interference
 Area: 181950. sq km
 Population: 5374000.
 Households: 1853000.

Interference
 Area: 1140. sq km
 Population: 43000.
 Households: 12000.

Signal below minimum
 Area: 120330. sq km
 Population: 3829000.
 Households: 1333000.

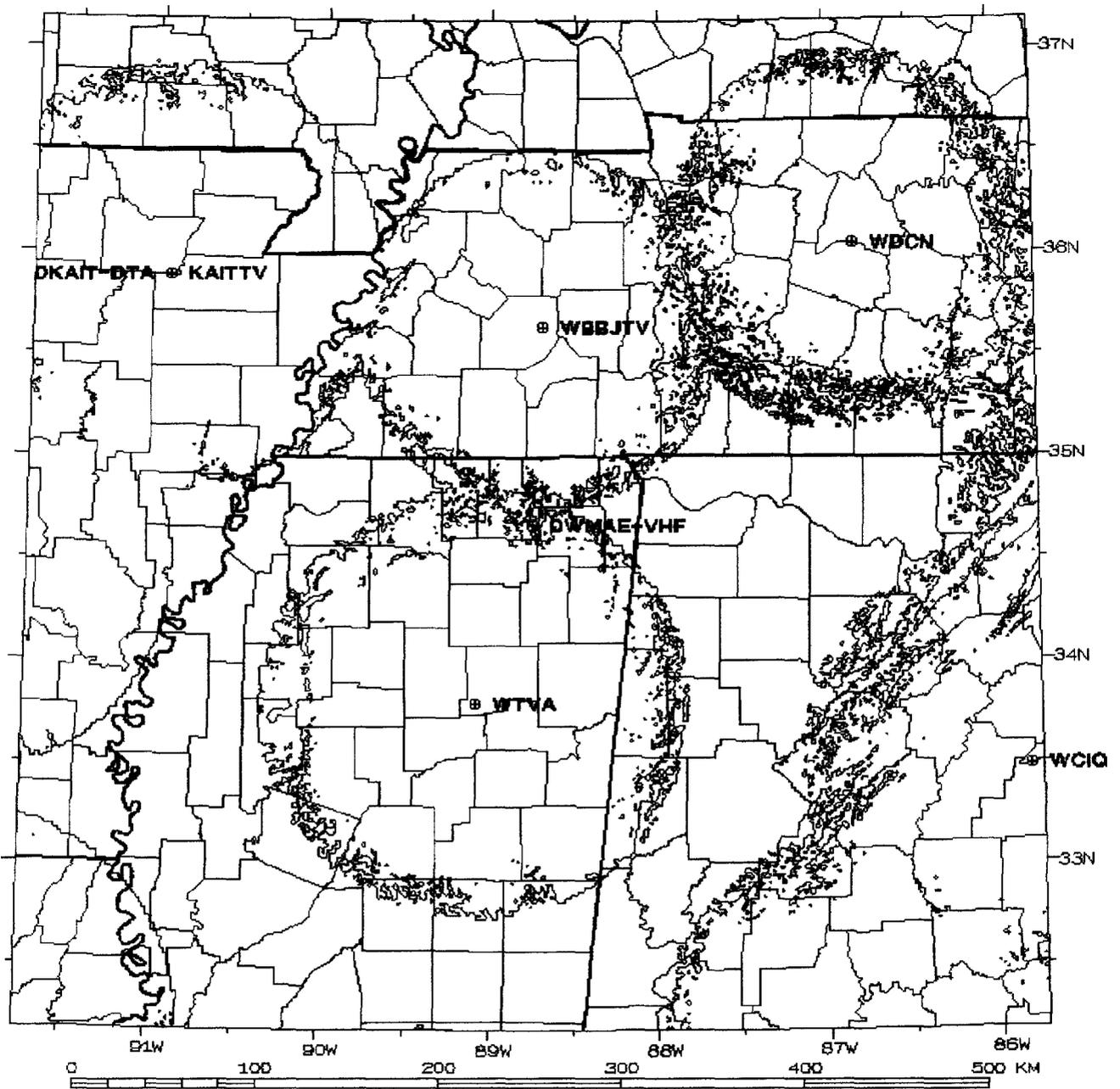
INTERFERENCE FROM WMAE-DT (VHF) @ 3KW TO ALL STATIONS (CP STUDY).

KESSLER & GEHMAN
 TELECOMMUNICATIONS CONSULTING ENGINEERS
 507 N.W. 60th Street, Suite C
 Gainesville, Florida 32607

WMAE-DT CHANNEL 20
BOONEVILLE, MS

2-Feb-00

EXHIBIT 8



No Interference
 Area: 182330. sq km
 Population: 5378000.
 Households: 1855000.

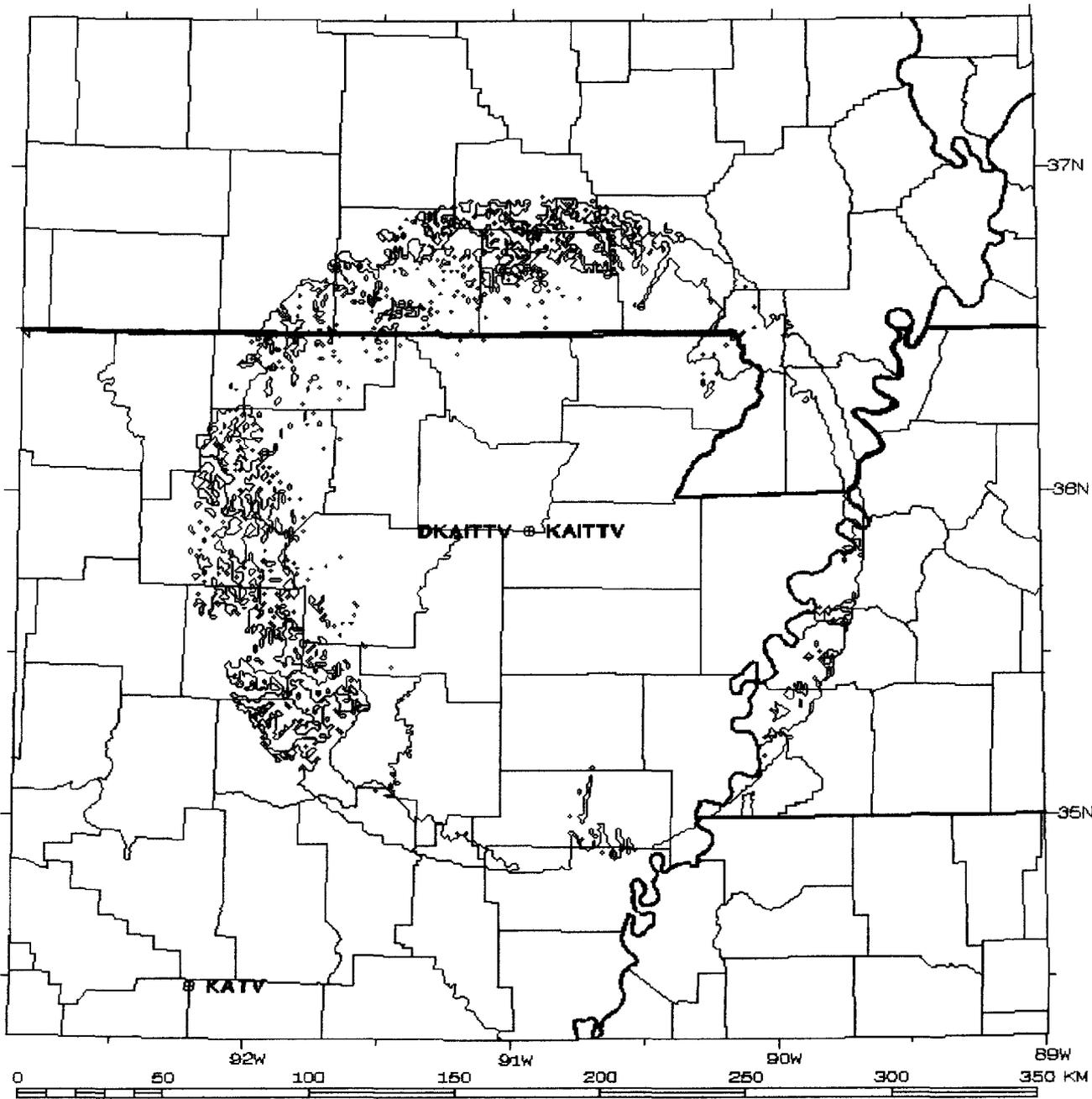
Interference
 Area: 1140. sq km
 Population: 43000.
 Households: 12000.

Signal below minimum
 Area: 119940. sq km
 Population: 3825000.
 Households: 1331000.

INTERFERENCE FROM WMAE-DT (VHF) @ 3KW TO ALL STATIONS (APP STUDY).

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WMAE-DT CHANNEL 20
BOONEVILLE, MS
 2-Feb-00 EXHIBIT 9

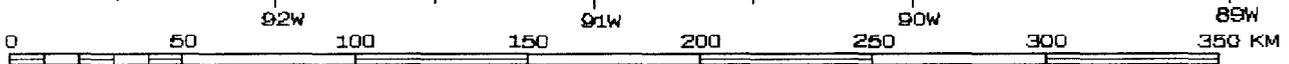
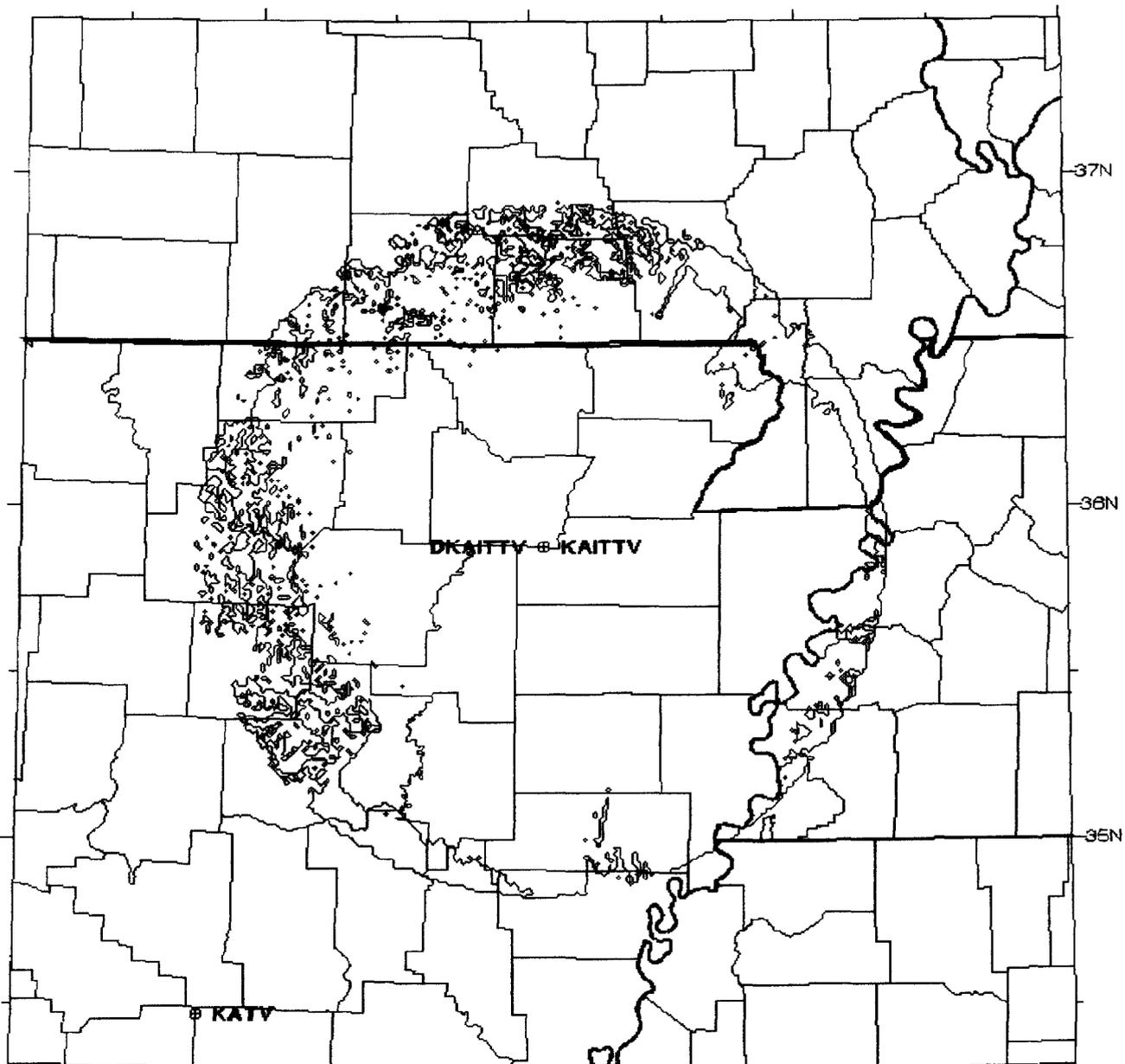


<p>□ No Interference Area: 34660. sq km Population: 605000. Households: 223000.</p>	<p>NTSC Interference Area: 3750. sq km Population: 70000. Households: 27000.</p>
<p>HDTV Interference Area: 0. sq km Population: 0. Households: 0.</p>	<p>Signal below minimum Area: 84460. sq km Population: 2239000. Households: 839000.</p>

INTERFERENCE FROM ALL STATIONS TO KAIT-TV WITHOUT WMAE-DT VHF (CP STUDY)

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 Gainesville, Florida 32607

WMAE-DT CHANNEL 20
BOONEVILLE, MS
 2-Feb-00 EXHIBIT 10

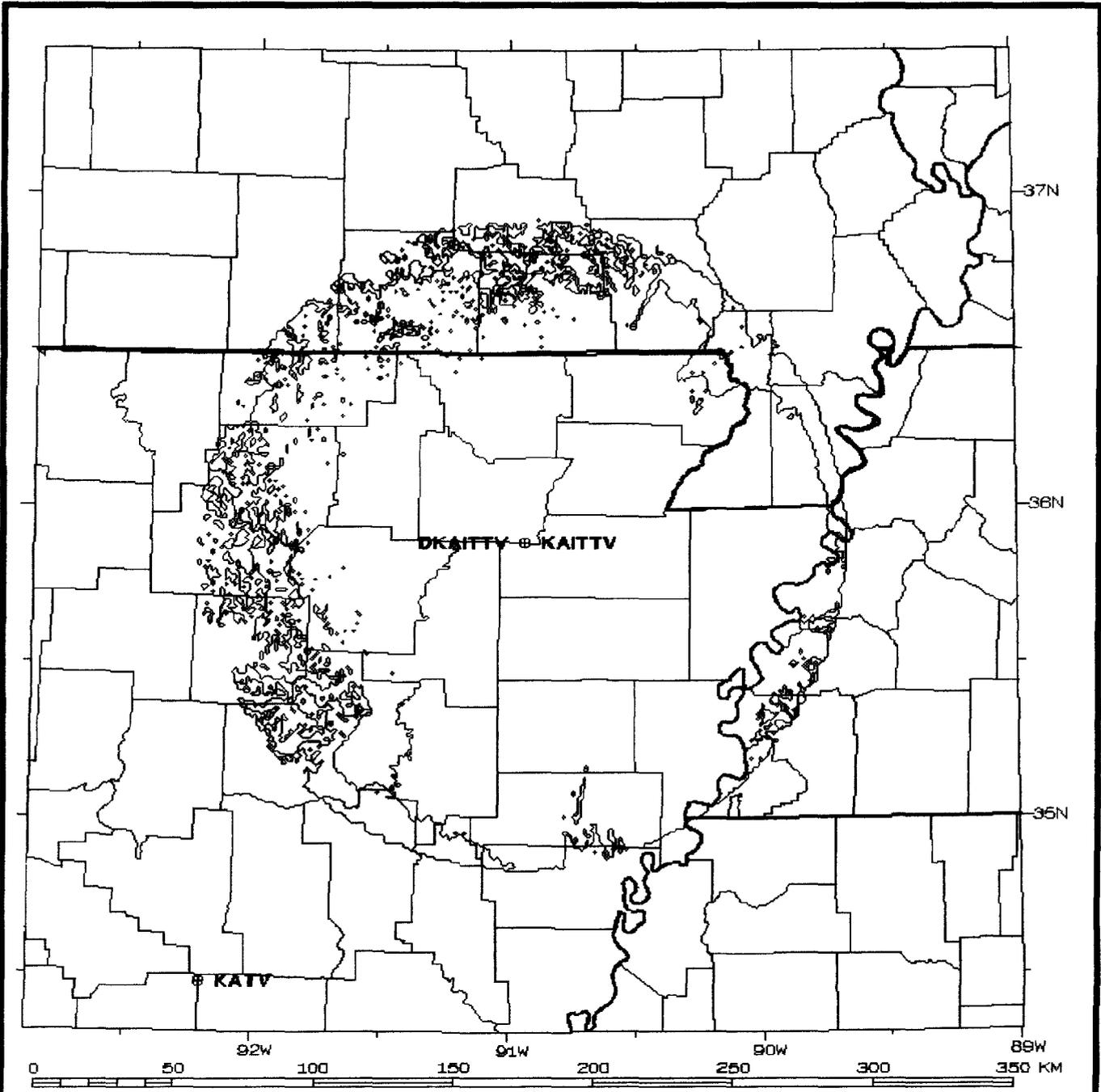


<input type="checkbox"/> No Interference Area: 34860. sq km Population: 805000. Households: 223000.	<input type="checkbox"/> NTSC Interference Area: 3750. sq km Population: 70000. Households: 27000.
<input type="checkbox"/> HDTV Interference Area: 0. sq km Population: 0. Households: 0.	<input type="checkbox"/> Signal below minimum Area: 84460. sq km Population: 2239000. Households: 839000.

KAIT-TV BASELINE

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WMAE-DT CHANNEL 20
BOONEVILLE, MS
 2-Feb-00 EXHIBIT 11

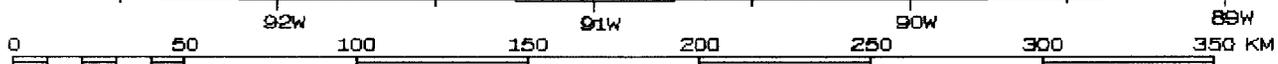
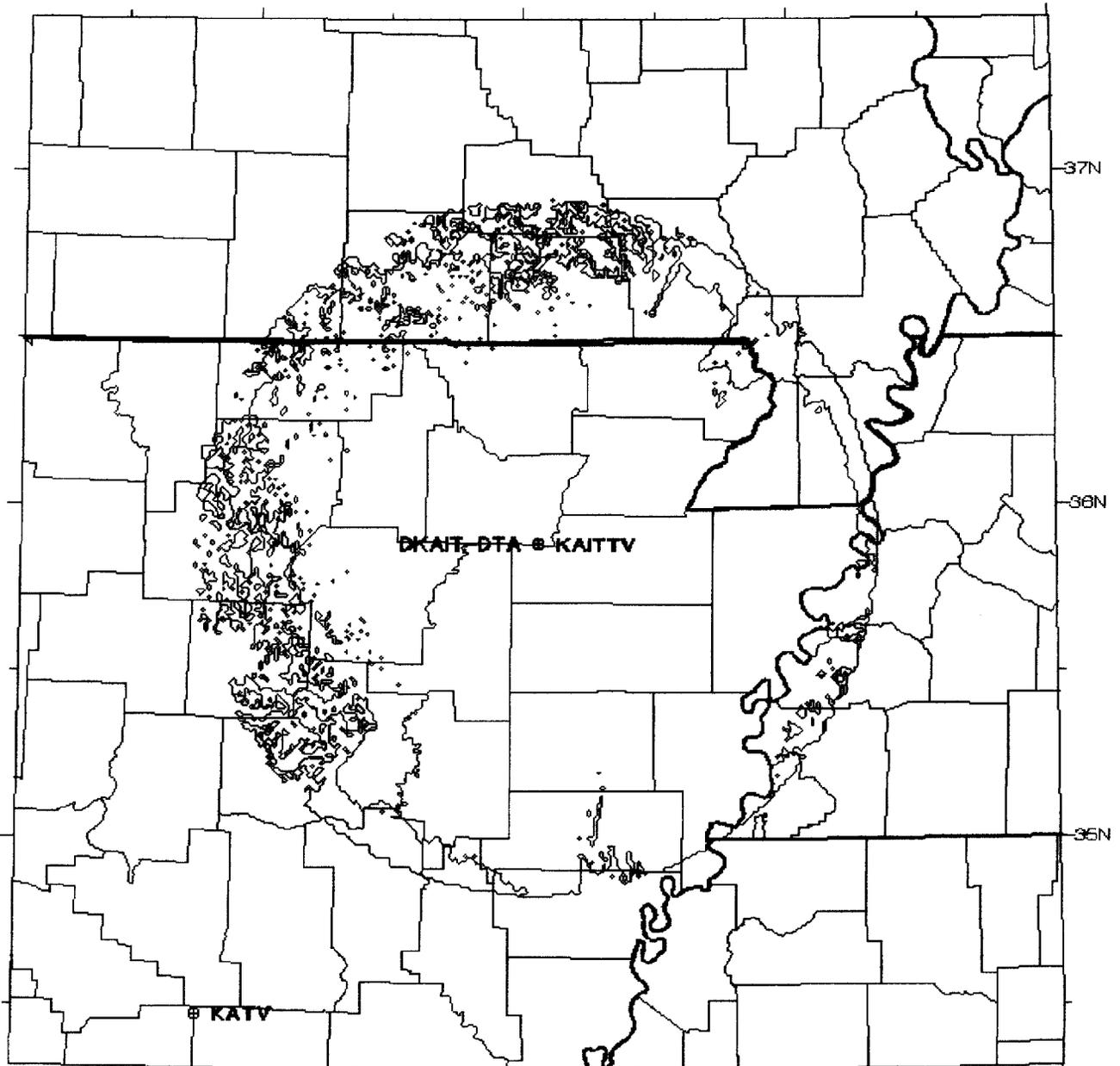


<p>□ No Interference Area: 34600. sq km Population: 598000. Households: 220000.</p>	<p>NTSC Interference Area: 3750. sq km Population: 70000. Households: 27000.</p>
<p>HDTV Interference Area: 50. sq km Population: 10000. Households: 2000.</p>	<p>Signal below minimum Area: 84460. sq km Population: 2239000. Households: 839000.</p>

INTERFERENCE FROM ALL STATIONS TO KAIT-TV WITH WMAE-DT VHF @ 2.1KW (CP STUDY)

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 TELECOMMUNICATIONS CONSULTING ENGINEERS
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 Gainesville, Florida 32607

WMAE-DT CHANNEL 20
BOONEVILLE, MS
 2-Feb-00 EXHIBIT 12

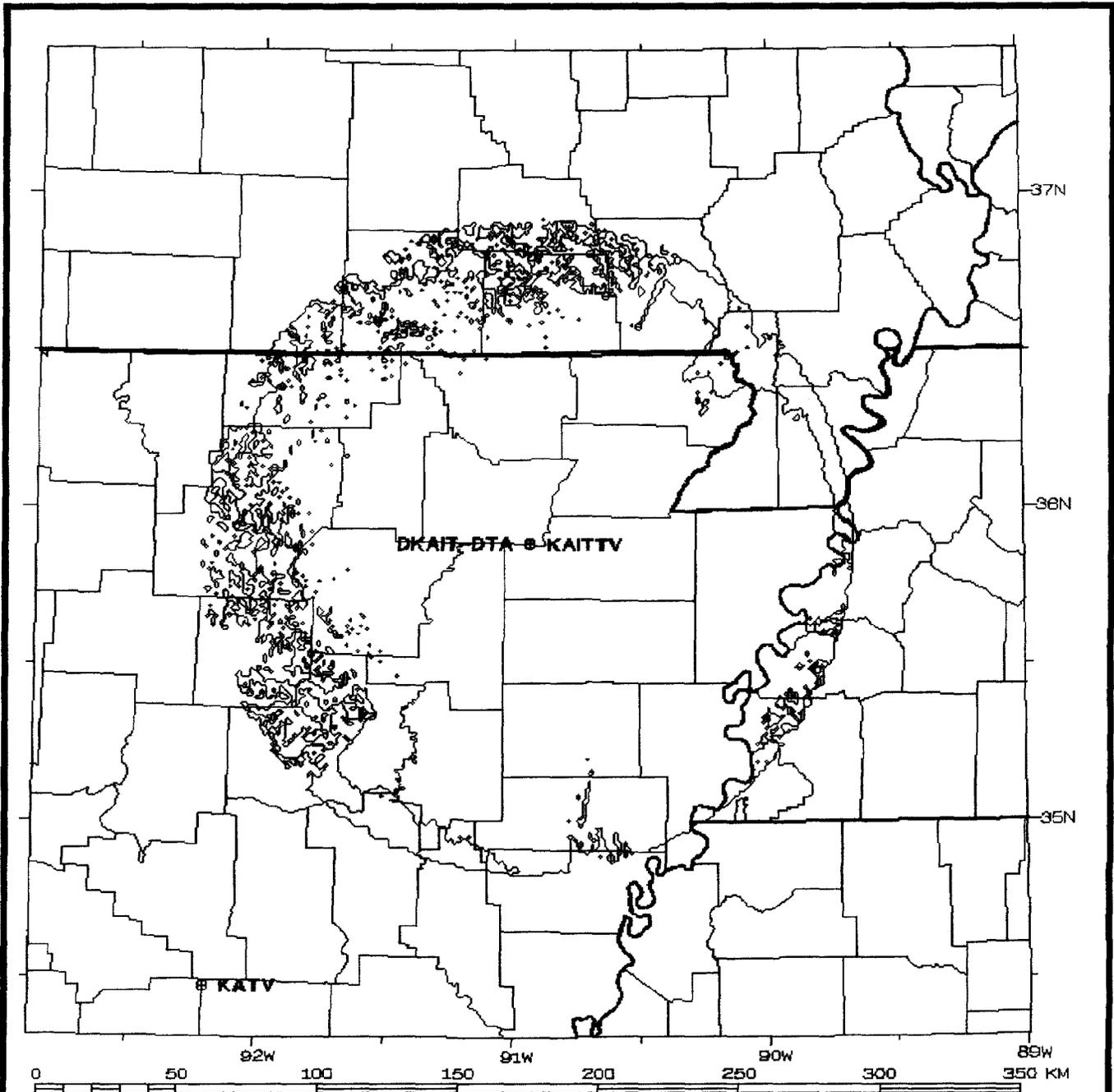


<input type="checkbox"/> No Interference Area: 34630. sq km Population: 605000. Households: 223000.	<input type="checkbox"/> NTSC Interference Area: 3750. sq km Population: 70000. Households: 27000.
<input type="checkbox"/> HDTV Interference Area: 20. sq km Population: 0. Households: 0.	<input type="checkbox"/> Signal below minimum Area: 84460. sq km Population: 2239000. Households: 839000.

INTERFERENCE FROM ALL STATIONS TO KAIT-TV WITHOUT WMAE-DT (APP STUDY)

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WMAE-DT CHANNEL 20
BOONEVILLE, MS
 2-Feb-00 EXHIBIT 13

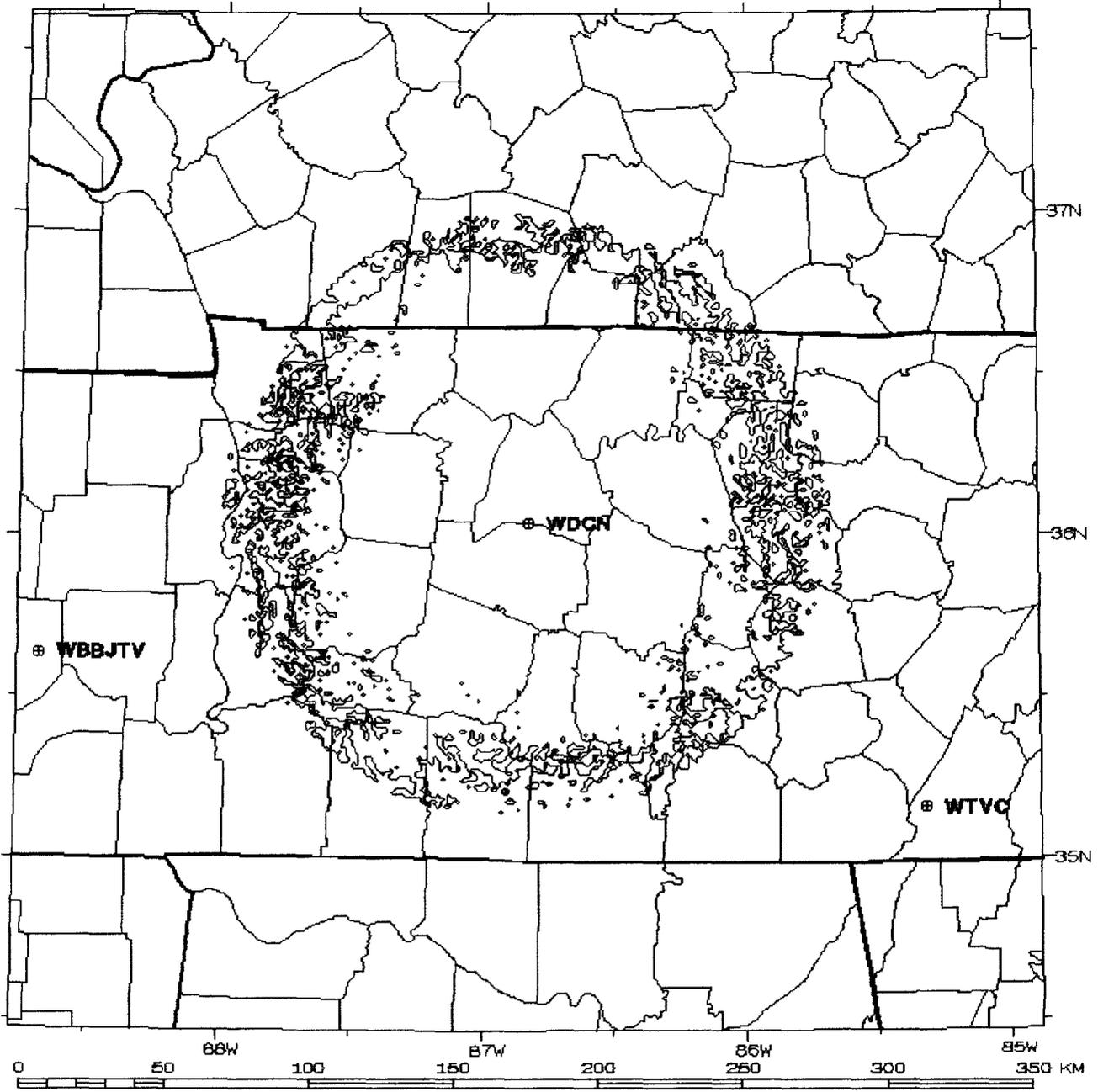


<p>□ No Interference Area: 34580. sq km Population: 595000. Households: 220000.</p>	<p>NTSC Interference Area: 3750. sq km Population: 70000. Households: 27000.</p>
<p>HDTV Interference Area: 70. sq km Population: 10000. Households: 2000.</p>	<p>Signal below minimum Area: 84460. sq km Population: 2239000. Households: 839000.</p>

INTERFERENCE FROM ALL STATIONS TO KAIT-TV WITH WMAE-DT (APP STUDY)

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WMAE-DT CHANNEL 20
BOONEVILLE, MS
 2-Feb-00 EXHIBIT 14

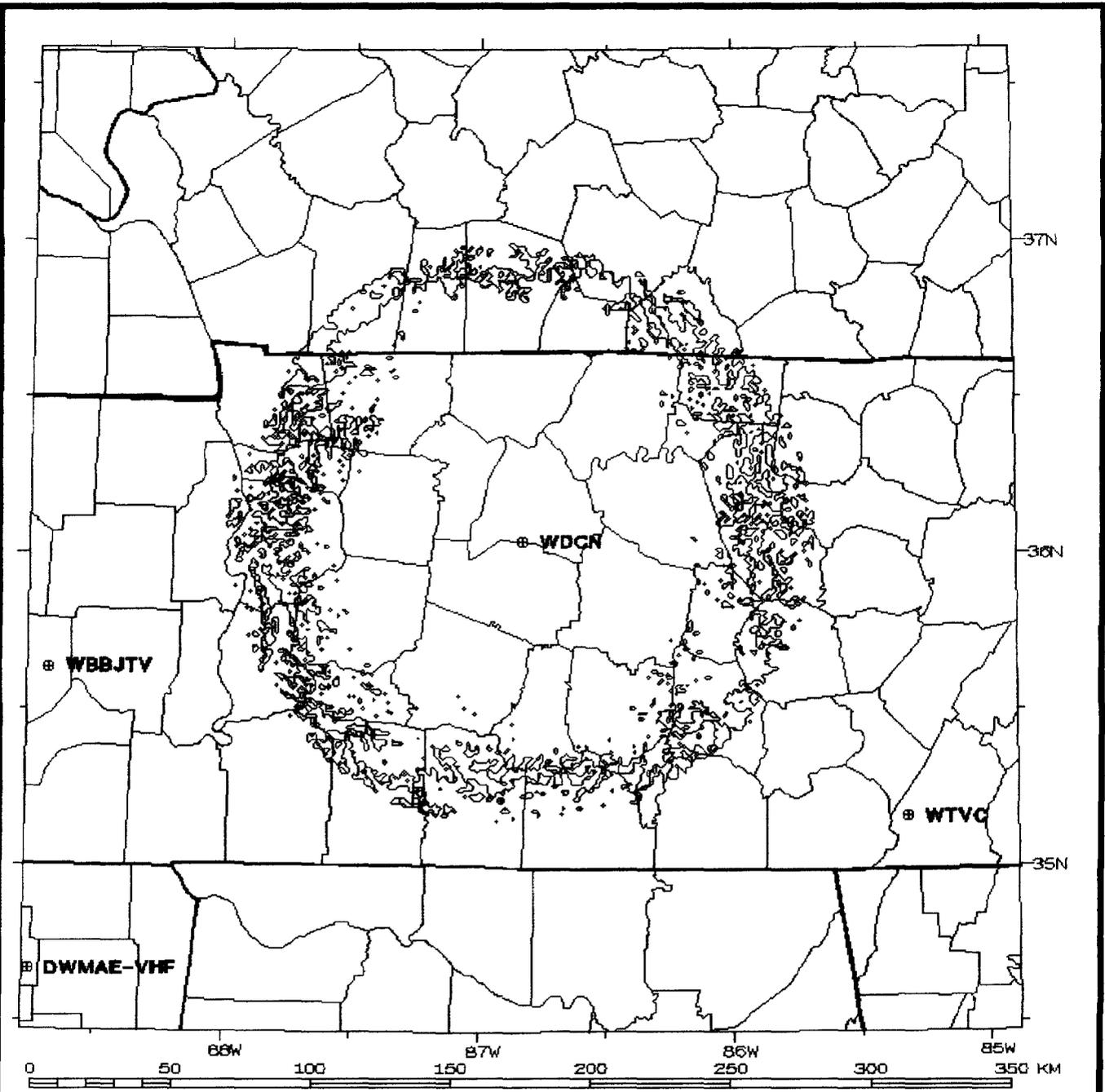


<p>□ No Interference Area: 25760. sq km Population: 1370000. Households: 514000.</p>	<p>NTSC Interference Area: 2050. sq km Population: 64000. Households: 24000.</p>
<p>HDTV Interference Area: 0. sq km Population: 0. Households: 0.</p>	<p>Signal below minimum Area: 94900. sq km Population: 2538000. Households: 971000.</p>

INTERFERENCE FROM ALL STATIONS TO WDCN-TV WITHOUT WMAE-DT (CP STUDY)

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WMAE-DT CHANNEL 20
BOONEVILLE, MS
 2-Feb-00 EXHIBIT 15



No Interference
 Area: 25610. sq km
 Population: 1368000.
 Households: 512000.

NTSC Interference
 Area: 2050. sq km
 Population: 64000.
 Households: 24000.

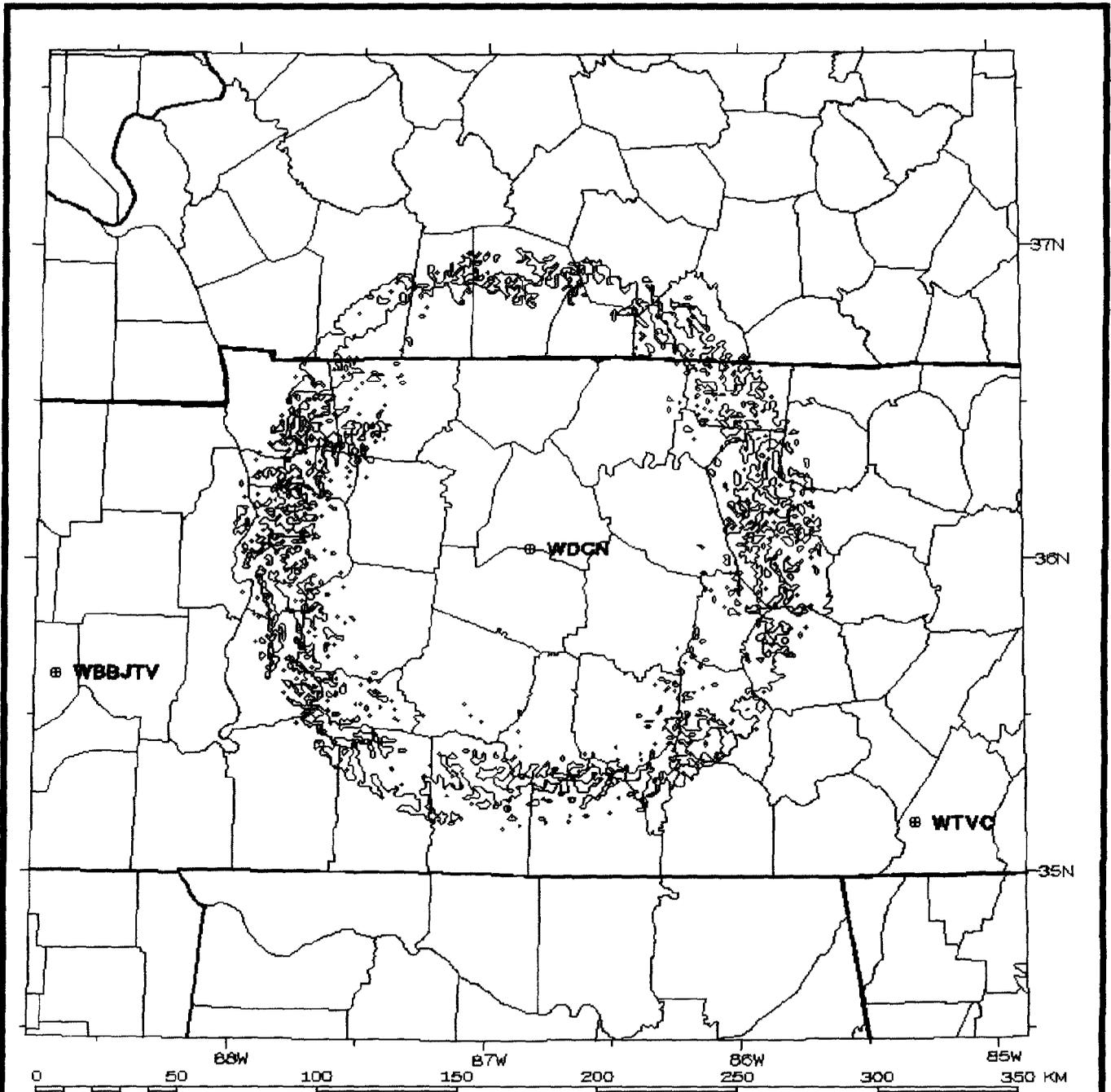
HDTV Interference
 Area: 140. sq km
 Population: 4000.
 Households: 1000.

Signal below minimum
 Area: 94900. sq km
 Population: 2538000.
 Households: 971000.

INTERFERENCE FROM ALL STATIONS TO WDCN-TV WITH WMAE-DT (CP STUDY)

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WMAE-DT CHANNEL 20
BOONEVILLE, MS
 2-Feb-00 EXHIBIT 16



No Interference
 Area: 25760. sq km
 Population: 1370000.
 Households: 514000.

NTSC Interference
 Area: 2050. sq km
 Population: 64000.
 Households: 24000.

HDTV Interference
 Area: 0. sq km
 Population: 0.
 Households: 0.

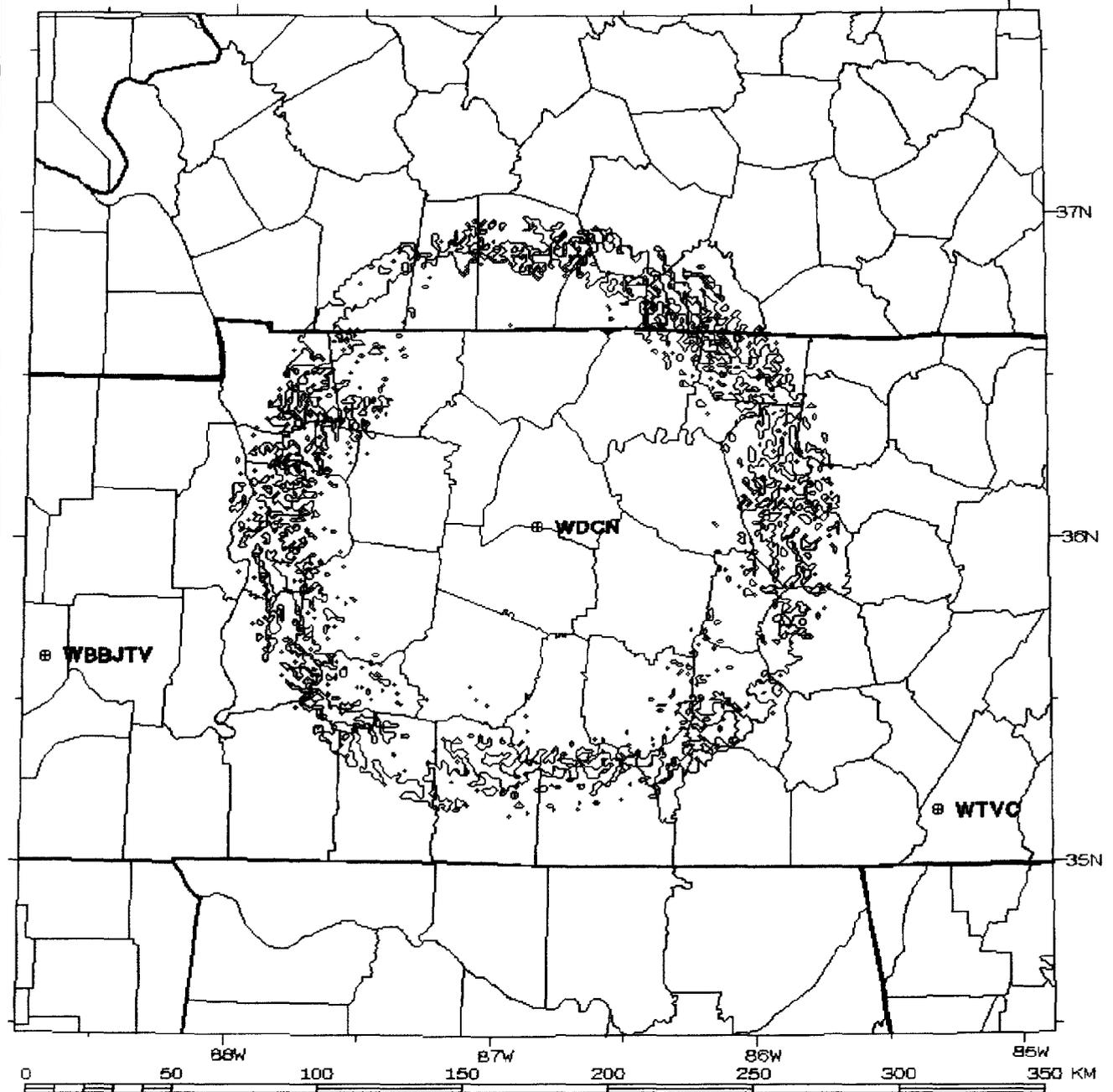
Signal below minimum
 Area: 94900. sq km
 Population: 2538000.
 Households: 971000.

WDCN-TV BASELINE

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WMAE-DT CHANNEL 20
BOONEVILLE, MS
 2-Feb-00 EXHIBIT 17



No Interference
 Area: 24780. sq km
 Population: 1348000.
 Households: 505000.

HDTV Interference
 Area: 970. sq km
 Population: 24000.
 Households: 9000.

NTSC Interference
 Area: 2050. sq km
 Population: 64000.
 Households: 24000.

Signal below minimum
 Area: 94900. sq km
 Population: 2538000.
 Households: 971000.

INTERFERENCE FROM ALL STATIONS TO WDCN-TV WITHOUT WMAE-DT CH 8 (APP STUDY)

KESSLER & GEHMAN

TELECOMMUNICATIONS CONSULTING ENGINEERS

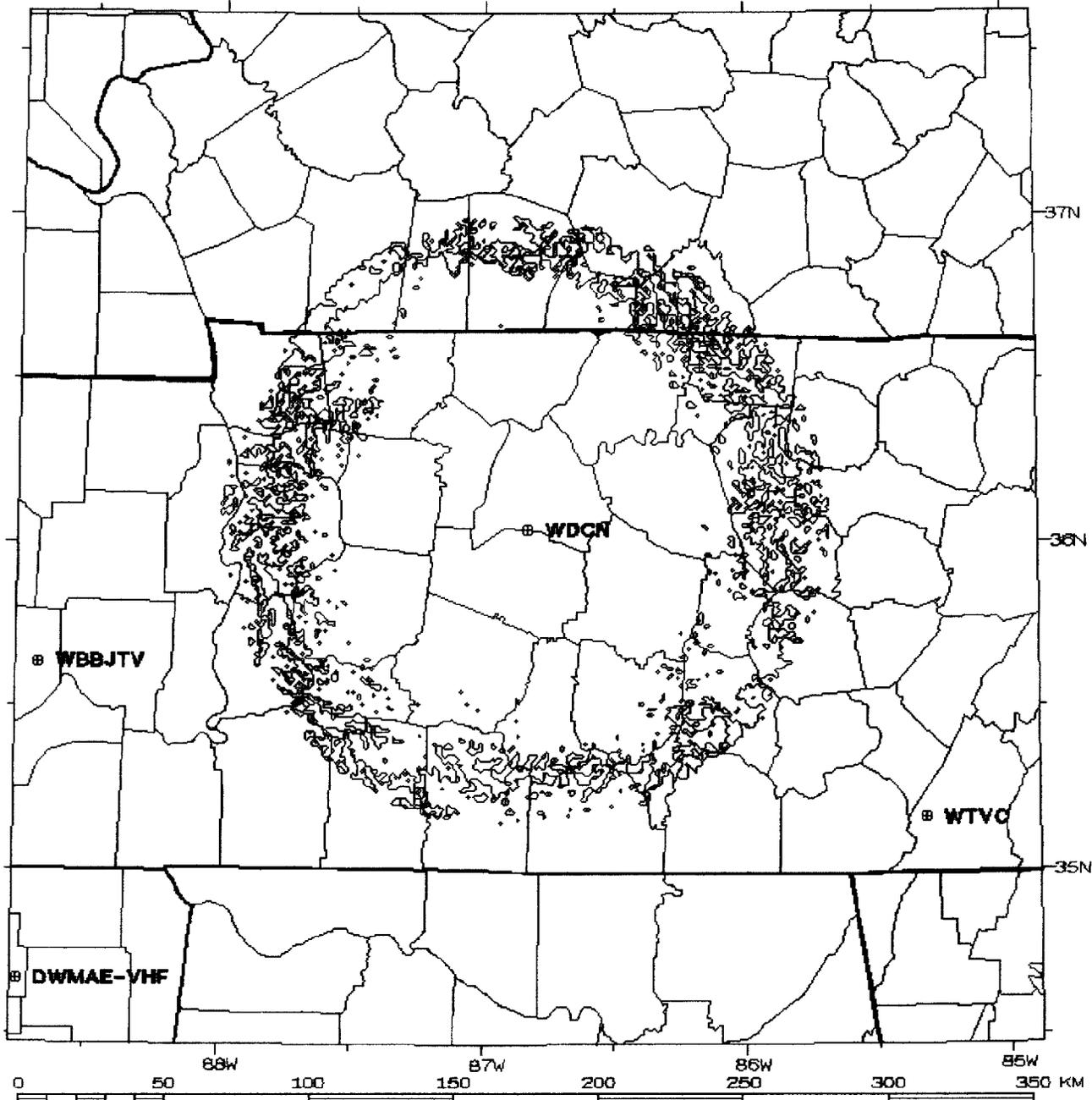
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Gainesville, Florida 32607

WMAE-DT CHANNEL 20

BOONEVILLE, MS

2-Feb-00

EXHIBIT 18



No Interference
 Area: 24840. sq km
 Population: 1343000.
 Households: 503000.

HDTV Interference
 Area: 1110. sq km
 Population: 27000.
 Households: 10000.

NTSC Interference
 Area: 2050. sq km
 Population: 64000.
 Households: 24000.

Signal below minimum
 Area: 94900. sq km
 Population: 2538000.
 Households: 971000.

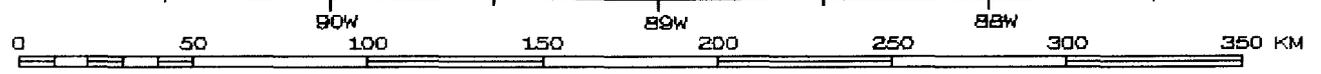
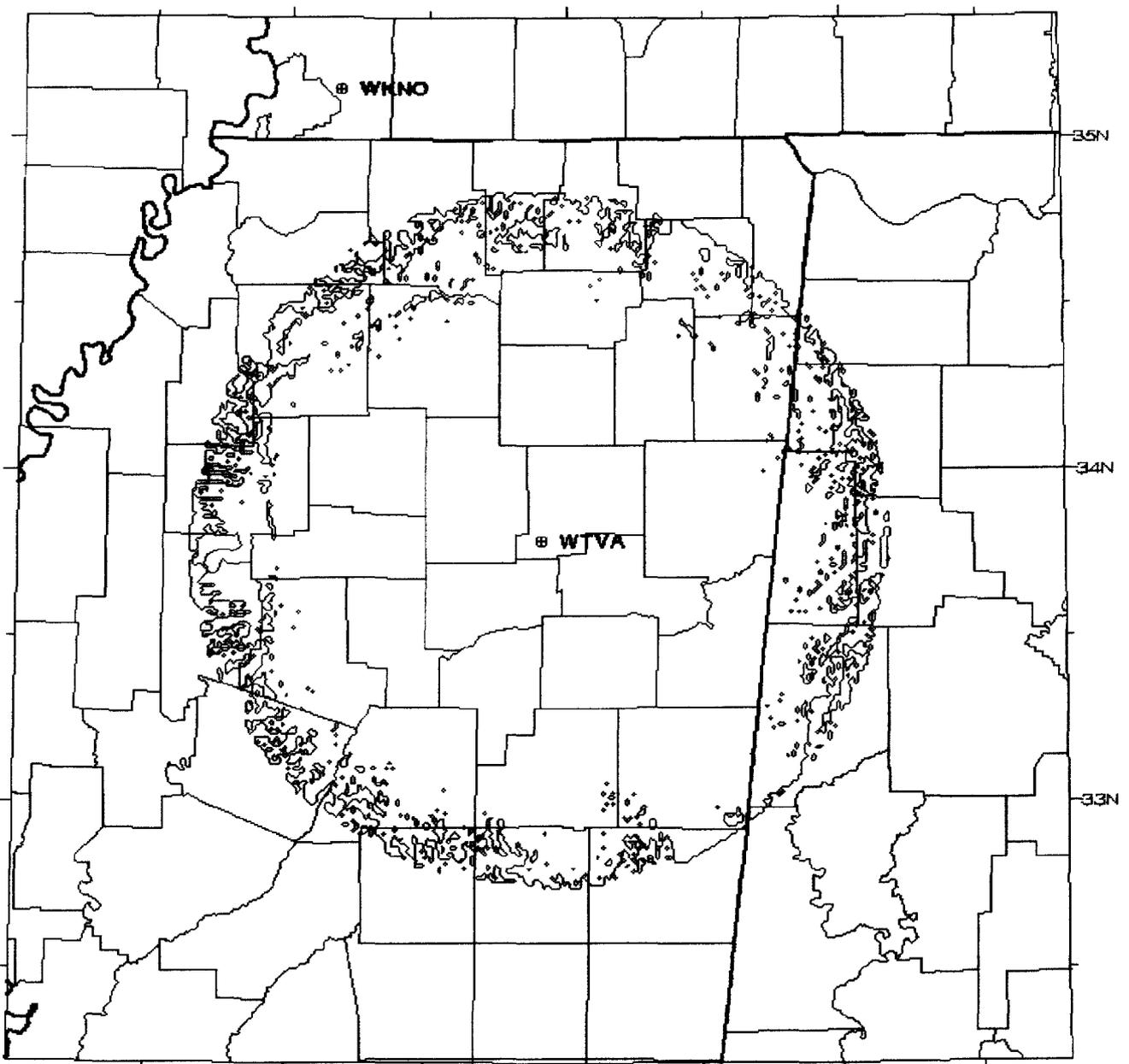
INTERFERENCE FROM ALL STATIONS TO WDCN-TV WITH WMAE-DT CH 8 (APP STUDY)

KESSLER & GEHMAN
 TELECOMMUNICATIONS CONSULTING ENGINEERS
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 Gainesville, Florida 32607

WMAE-DT CHANNEL 20
BOONEVILLE, MS

2-Feb-00

EXHIBIT 19

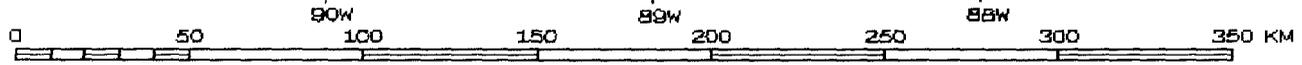
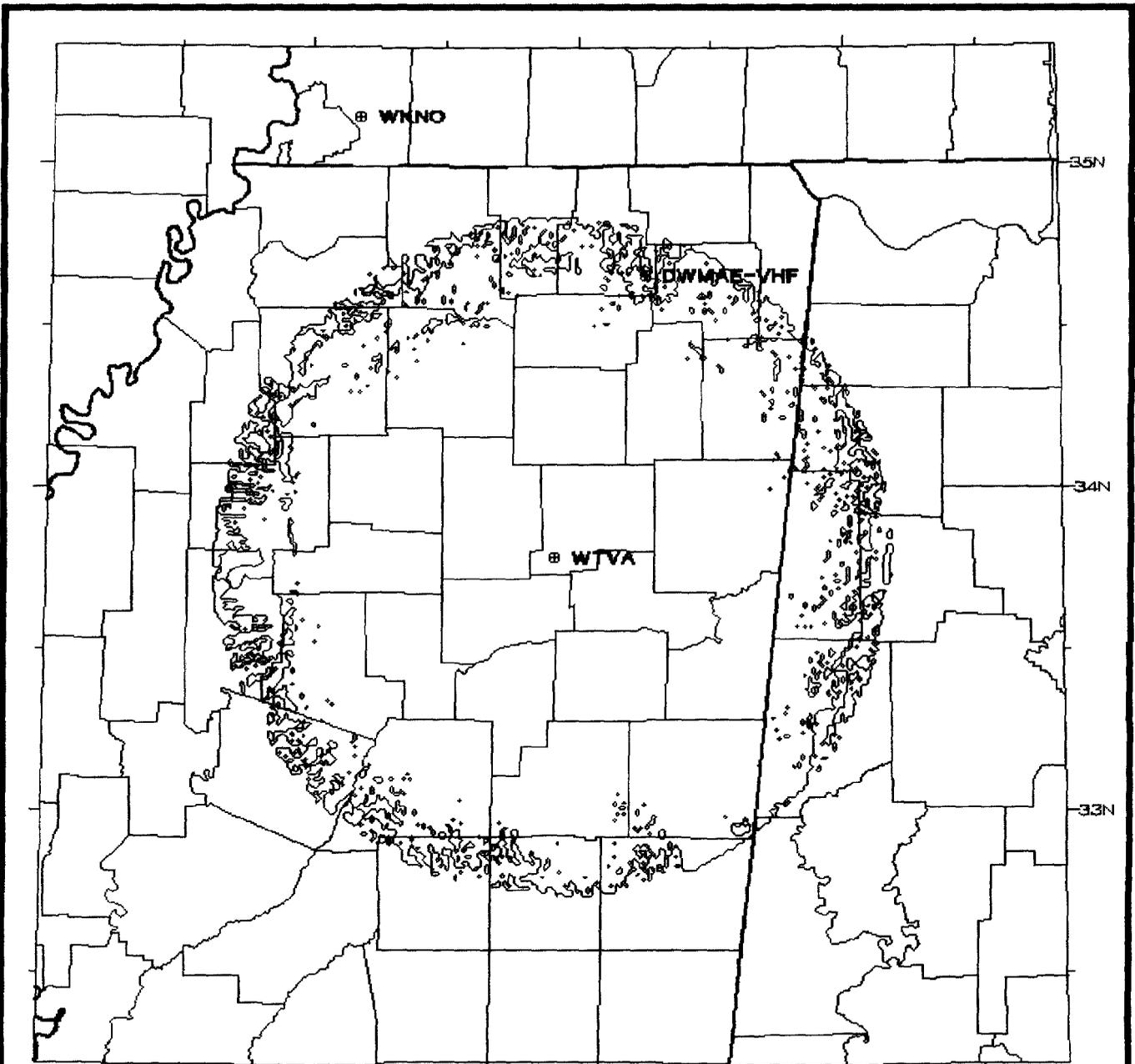


<input type="checkbox"/> No Interference Area: 37720. sq km Population: 609000. Households: 220000.	<input type="checkbox"/> NTSC Interference Area: 960. sq km Population: 27000. Households: 9000.
<input type="checkbox"/> HDTV Interference Area: 60. sq km Population: 0. Households: 0.	<input type="checkbox"/> Signal below minimum Area: 84010. sq km Population: 2562000. Households: 928000.

INTERFERENCE FROM ALL STATIONS TO WTVA-TV WITHOUT WMAE-DT CH 8 (CP STUDY)

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WMAE-DT CHANNEL 20
BOONEVILLE, MS
 2-Feb-00 EXHIBIT 20

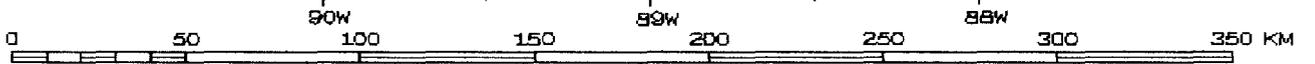
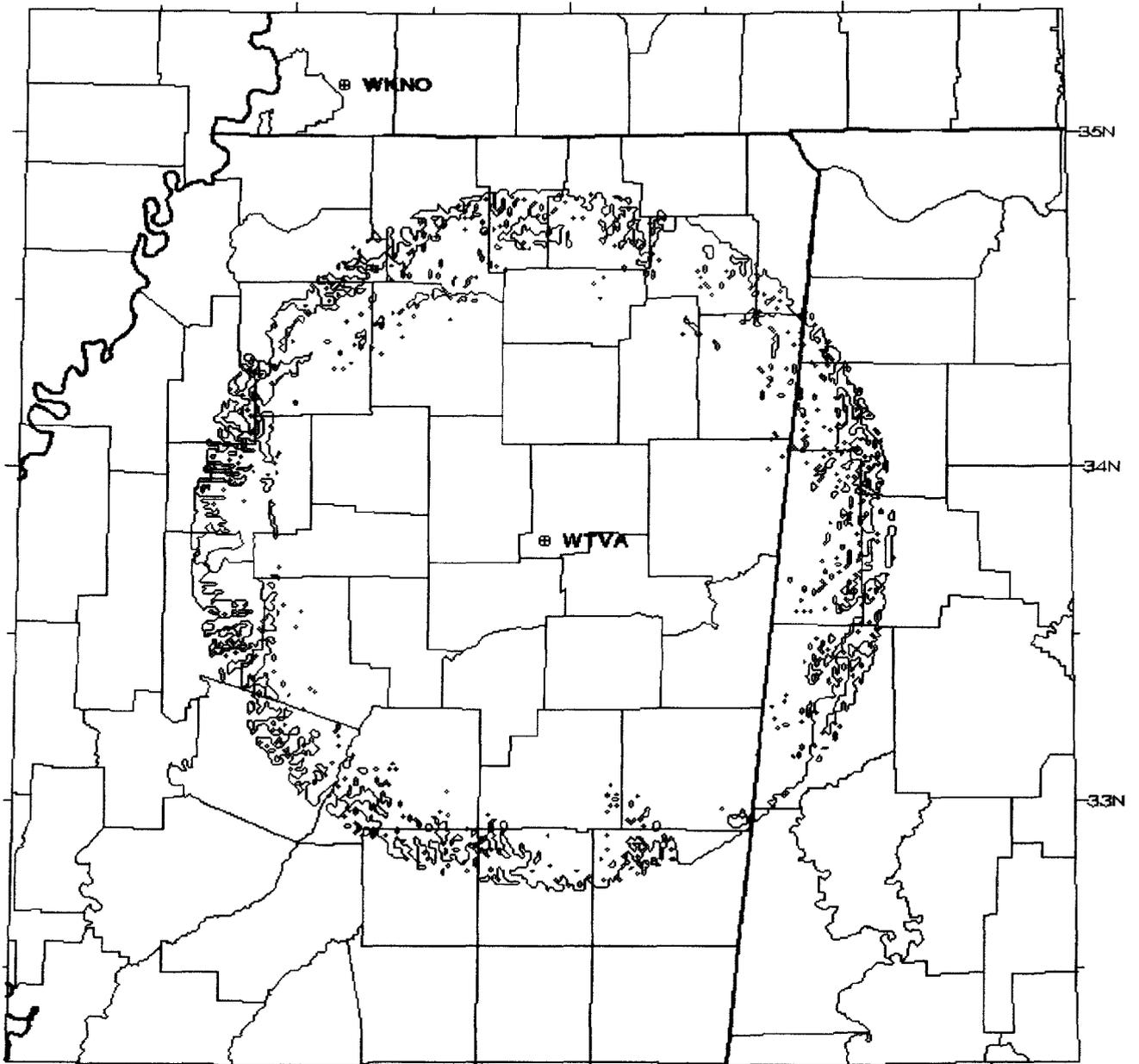


<p>□ No Interference Area: 37380. sq km Population: 605000. Households: 219000.</p>	<p>NTSC Interference Area: 980. sq km Population: 27000. Households: 9000.</p>
<p>HDTV Interference Area: 400. sq km Population: 4000. Households: 1000.</p>	<p>Signal below minimum Area: 84010. sq km Population: 2562000. Households: 928000.</p>

INTERFERENCE FROM ALL STATIONS TO WTVA-TV WITH WMAE-DT CH 8 (CP STUDY)

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 TELECOMMUNICATIONS CONSULTING ENGINEERS
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 Gainesville, Florida 32607

WMAE-DT CHANNEL 20
BOONEVILLE, MS
 2-Feb-00 EXHIBIT 21

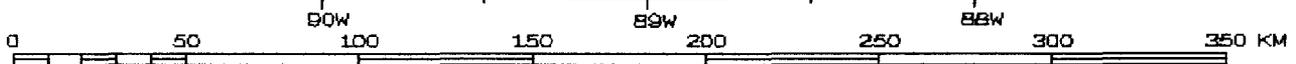
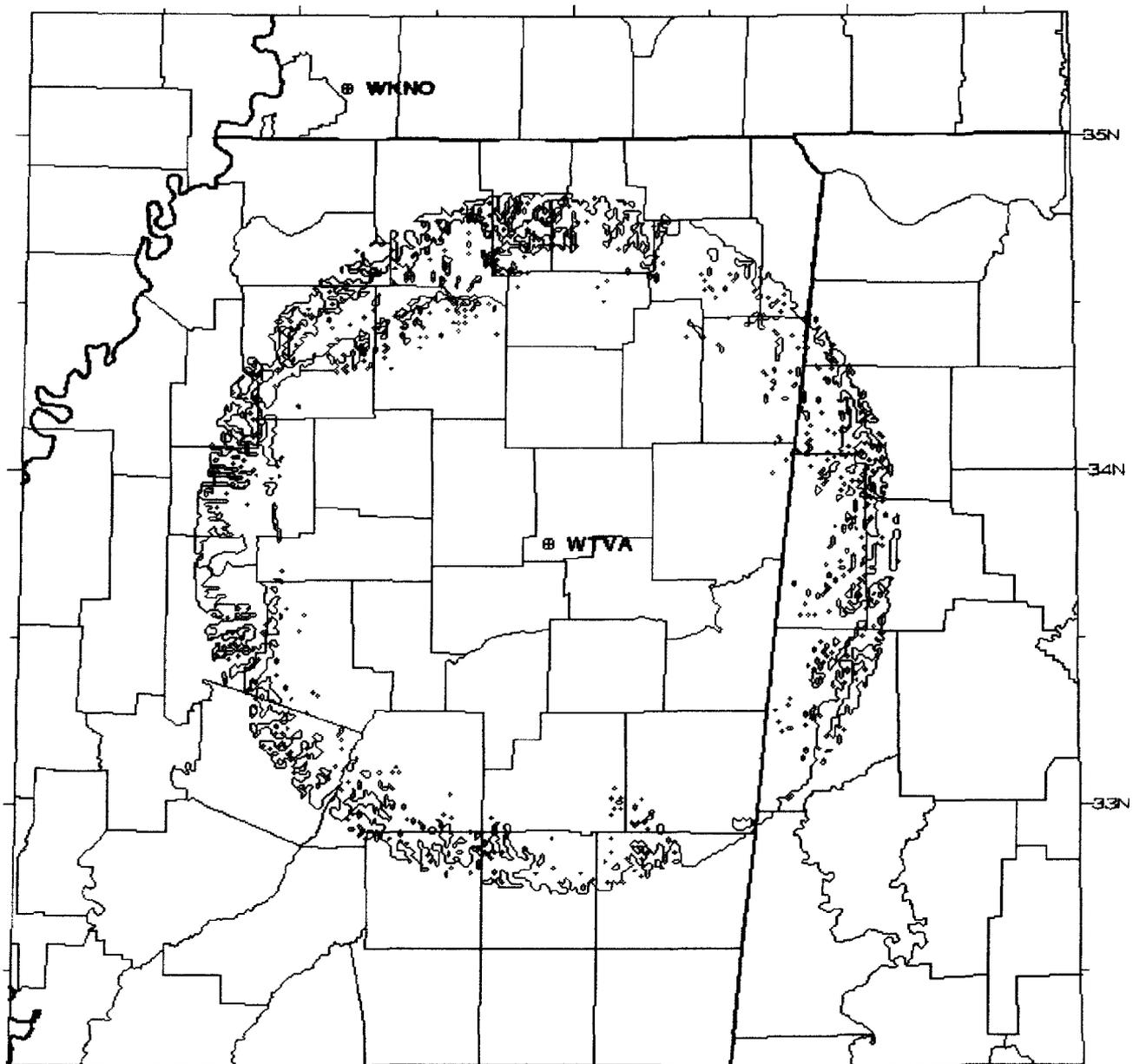


<p>□ No Interference Area: 37720. sq km Population: 608000. Households: 220000.</p>	<p>NTSC Interference Area: 980. sq km Population: 27000. Households: 9000.</p>
<p>HDTV Interference Area: 60. sq km Population: 0. Households: 0.</p>	<p>Signal below minimum Area: 84010. sq km Population: 2562000. Households: 928000.</p>

WTVA-TV BASELINE

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WMAE-DT CHANNEL 20
BOONEVILLE, MS
 2-Feb-00 EXHIBIT 22



No Interference
 Area: 37240. sq km
 Population: 600000.
 Households: 217000.

NTSC Interference
 Area: 980. sq km
 Population: 27000.
 Households: 9000.

HDTV Interference
 Area: 540. sq km
 Population: 10000.
 Households: 3000.

Signal below minimum
 Area: 84010. sq km
 Population: 2562000.
 Households: 928000.

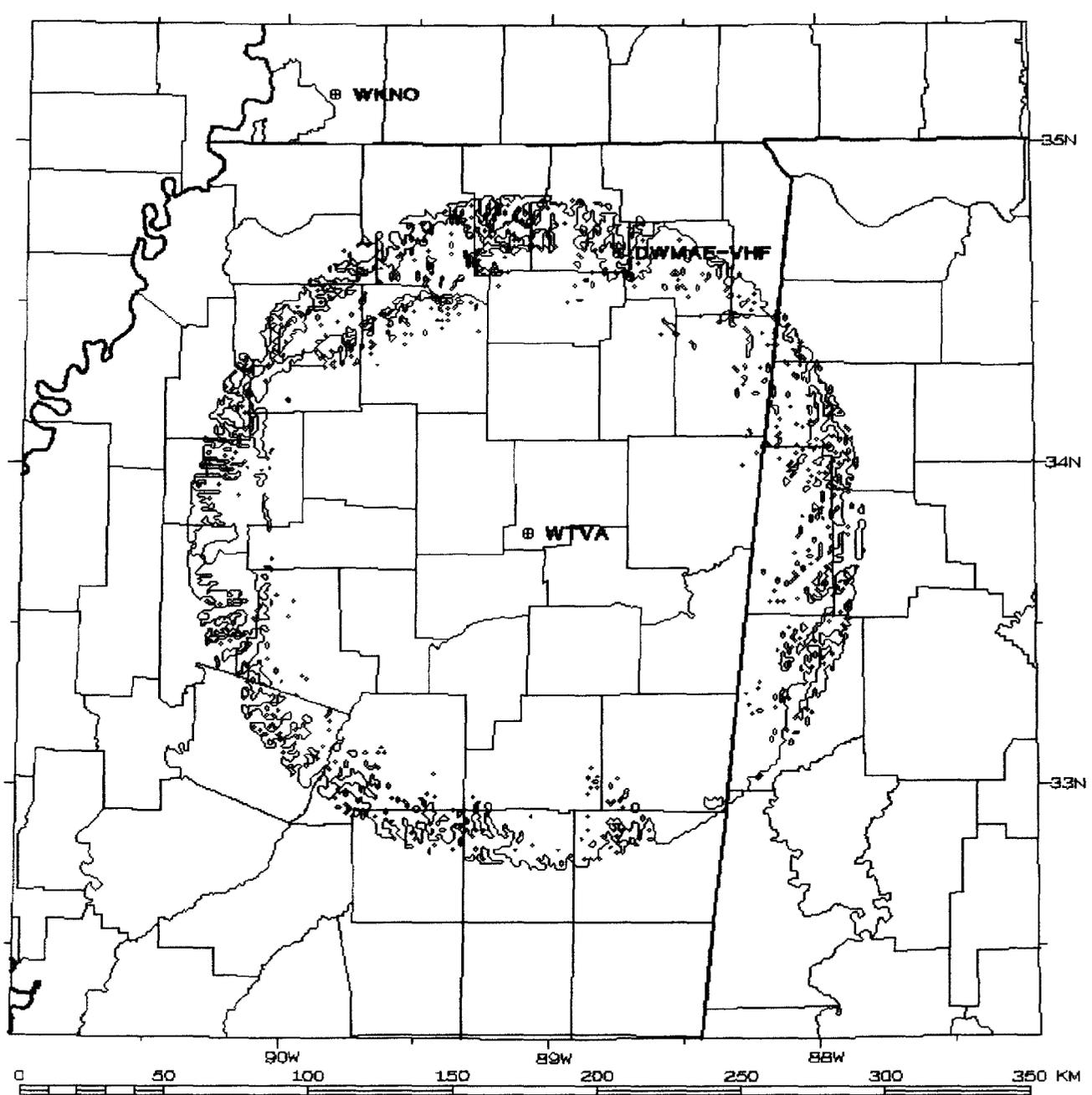
INTERFERENCE FROM ALL STATIONS TO WTVA-TV WITHOUT WMAE-DT CH 8 (APP STUDY)

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 TELECOMMUNICATIONS CONSULTING ENGINEERS
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 Gainesville, Florida 32607

WMAE-DT CHANNEL 20
BOONEVILLE, MS

2-Feb-00

EXHIBIT 23

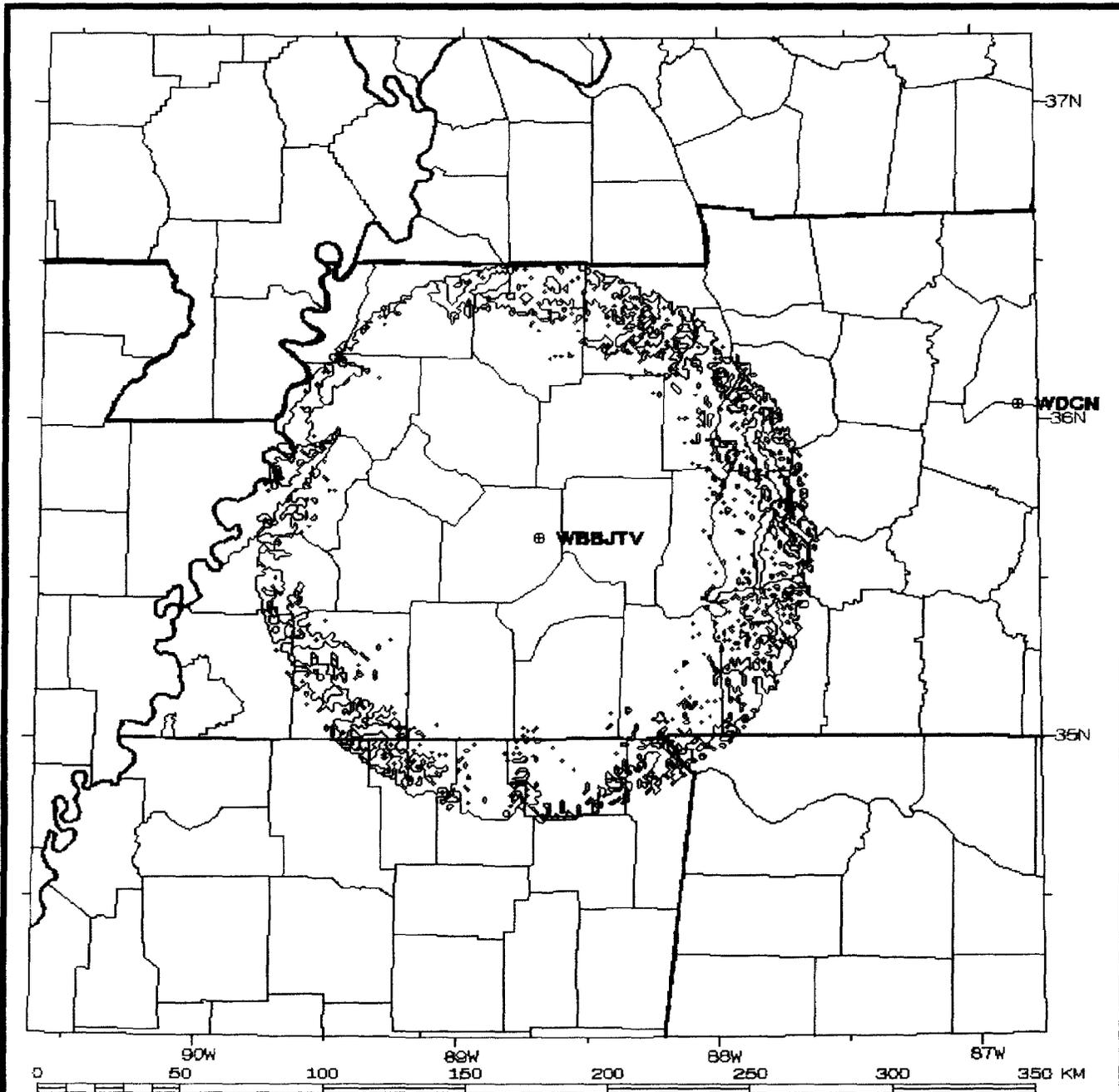


<p>□ No Interference Area: 36900. sq km Population: 596000. Households: 216000.</p>	<p>NTSC Interference Area: 980. sq km Population: 27000. Households: 9000.</p>
<p>HDTV Interference Area: 890. sq km Population: 13000. Households: 4000.</p>	<p>Signal below minimum Area: 84010. sq km Population: 2562000. Households: 928000.</p>

INTERFERENCE FROM ALL STATIONS TO WTVA-TV WITH WMAE-DT CH 8 (APP STUDY)

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WMAE-DT CHANNEL 20
BOONEVILLE, MS
 2-Feb-00 EXHIBIT 24

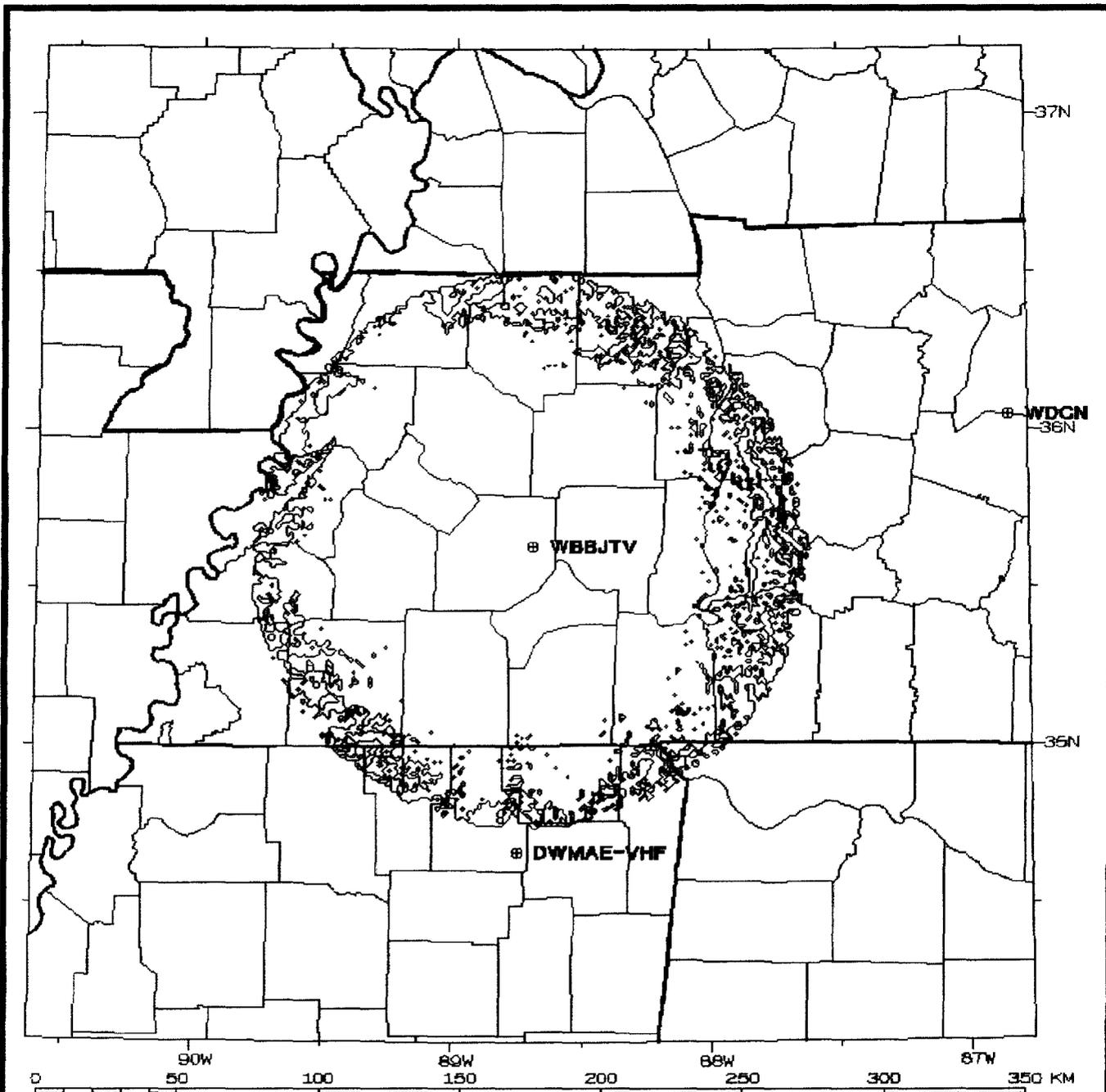


<p>□ No Interference Area: 24240. sq km Population: 497000 Households: 189000.</p>	<p>NTSC Interference Area: 3120. sq km Population: 45000. Households: 17000.</p>
<p>HDTV Interference Area: 0. sq km Population: 0. Households: 0.</p>	<p>Signal below minimum Area: 95420. sq km Population: 3188000. Households: 1183000.</p>

INTERFERENCE FROM ALL STATIONS TO WBBJ-TV WITHOUT WMAE-DT CH 8 (CP STUDY)

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WMAE-DT CHANNEL 20
BOONEVILLE, MS
 2-Feb-00 EXHIBIT 25

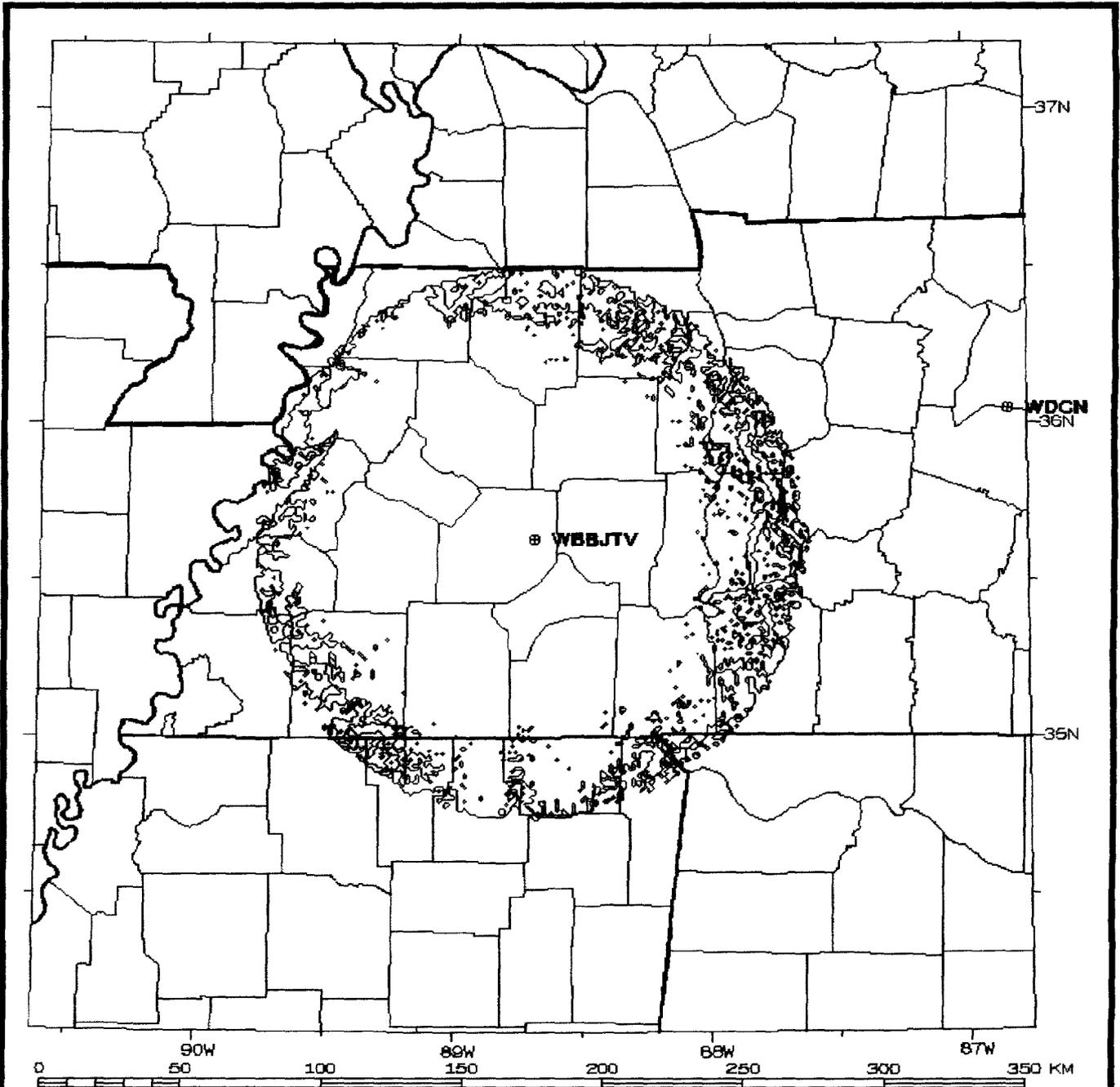


<input type="checkbox"/> No Interference Area: 24060. sq km Population: 495000. Households: 188000.	<input type="checkbox"/> NTSC Interference Area: 3120. sq km Population: 45000. Households: 17000.
<input type="checkbox"/> HDTV Interference Area: 180. sq km Population: 2000. Households: 1000.	<input type="checkbox"/> Signal below minimum Area: 95420. sq km Population: 3188000. Households: 1183000.

INTERFERENCE FROM ALL STATIONS TO WBBJ-TV WITH WMAE-DT CH 8 (CP STUDY)

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WMAE-DT CHANNEL 20
BOONEVILLE, MS
 2-Feb-00 EXHIBIT 26



No Interference
 Area: 24240. sq km
 Population: 497000.
 Households: 189000.

NTSC Interference
 Area: 3120. sq km
 Population: 45000.
 Households: 17000.

HDTV Interference
 Area: 0. sq km
 Population: 0.
 Households: 0.

Signal below minimum
 Area: 96420. sq km
 Population: 3188000.
 Households: 1183000.

WBBJ-TV BASELINE

KESSLER & GEHMAN

TELECOMMUNICATIONS CONSULTING ENGINEERS

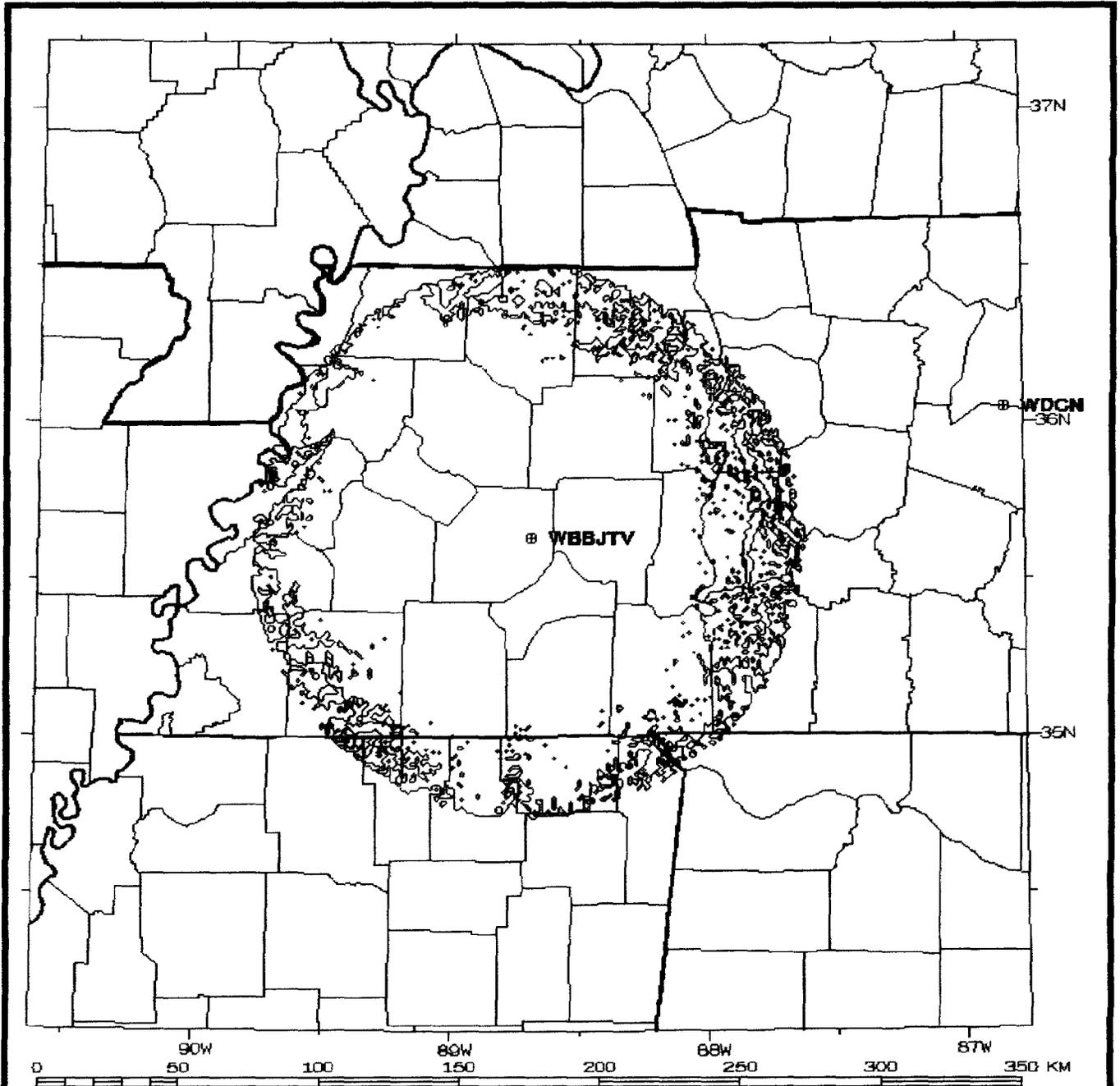
507 N.W. 60th Street, Suite C
 Gainesville, Florida 32607

WMAE-DT CHANNEL 20

BOONEVILLE, MS

2-Feb-00

EXHIBIT 27

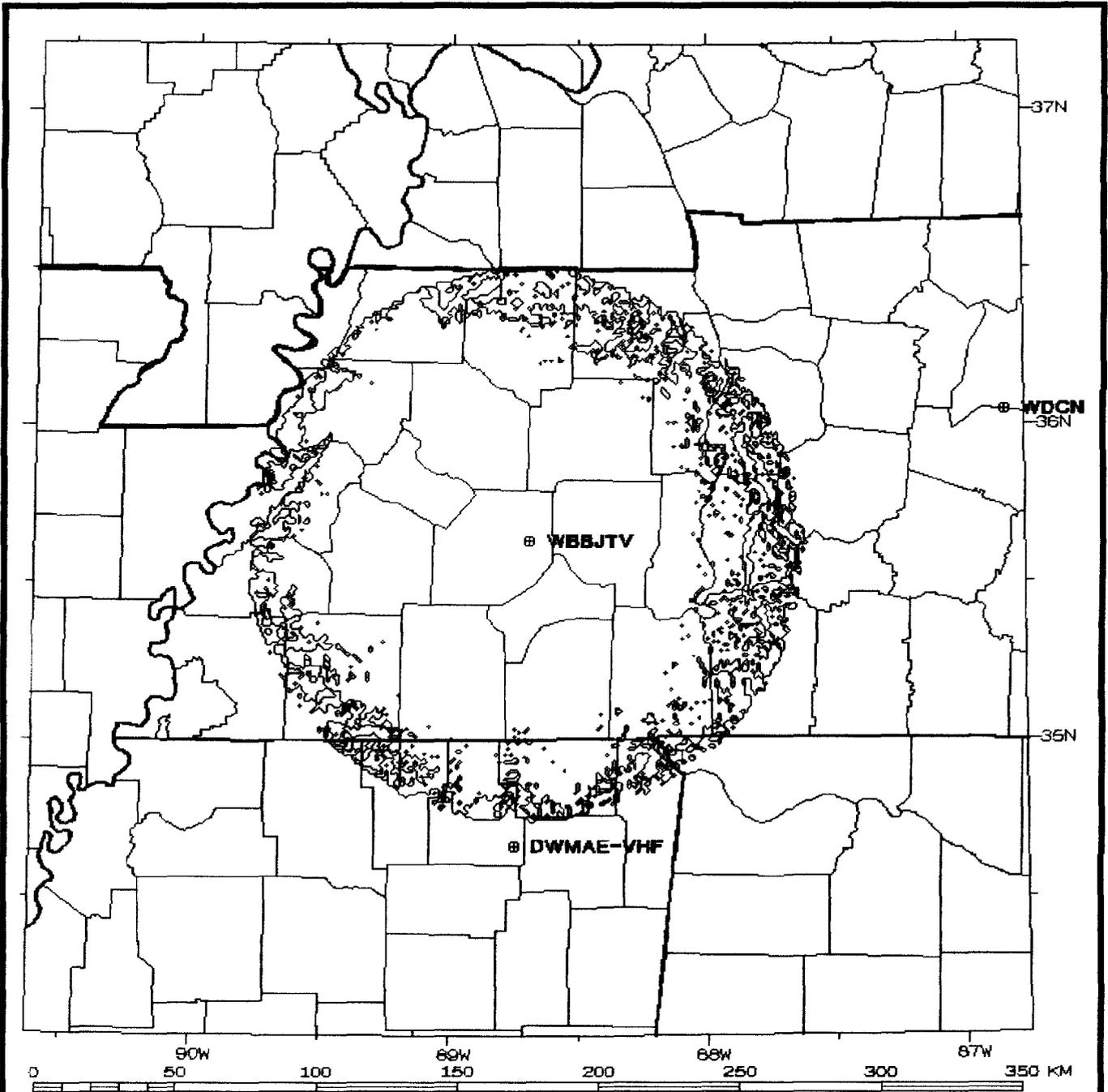


<p>□ No Interference Area: 24240. sq km Population: 497000. Households: 189000.</p>	<p>NTSC Interference Area: 3120. sq km Population: 45000. Households: 17000.</p>
<p>HDTV Interference Area: 0. sq km Population: 0. Households: 0.</p>	<p>Signal below minimum Area: 95420. sq km Population: 3188000. Households: 1183000.</p>

INTERFERENCE FROM ALL STATIONS TO WBBJ-TV WITHOUT WMAE-DT (APP STUDY)

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WMAE-DT CHANNEL 20
BOONEVILLE, MS
 2-Feb-00 EXHIBIT 28



No Interference
 Area: 24060. sq km
 Population: 495000.
 Households: 188000.

NTSC Interference
 Area: 3120. sq km
 Population: 45000.
 Households: 17000.

HDTV Interference
 Area: 180. sq km
 Population: 2000.
 Households: 1000.

Signal below minimum
 Area: 95420. sq km
 Population: 3188000.
 Households: 1183000.

INTERFERENCE FROM ALL STATIONS TO WBBJ-TV WITH WMAE-DT (APP STUDY)

KESSLER & GEHMAN
 TELECOMMUNICATIONS CONSULTING ENGINEERS
 507 N.W. 60th Street, Suite C
 Gainesville, Florida 32607

WMAE-DT CHANNEL 20
BOONEVILLE, MS

2-Feb-00

EXHIBIT 29