

FEDERAL COMMUNICATIONS COMMISSION  
**FEE PROCESSING FORM**

FCC  
USE  
ONLY

REC'D MASS MED BUR  
JUN 6 1991  
VIDEO SERVICES

Please read instructions on back of this form before completing it. Section I MUST be completed. If you are applying for concurrent actions which require you to list more than one Fee Type Code, you must also complete Section II. This form must accompany all payments. Only one Fee Processing Form may be submitted per application or filing. Please type or print legibly. All required blocks must be completed or application/filing will be returned without action.

**SECTION I**

APPLICANT NAME (Last, first, middle initial)  
Scripps Howard Broadcasting Company

MAILING ADDRESS (Line 1) (Maximum 35 characters - refer to Instruction (2) on reverse of form)  
c/o Don Zeifang, Baker&Hostetler

MAILING ADDRESS (Line 2) (if required) (Maximum 35 characters)  
1050 Connecticut Ave, NW, #1100

CITY  
Washington

STATE OR COUNTRY (if foreign address) ZIP CODE CALL SIGN OR FCC IDENTIFIER (if applicable)  
DC 20036 WMAR-TV

Enter in Column (A) the correct Fee Type Code for the service you are applying for. Fee Type Codes may be found in FCC Fee Filing Guides. Enter in Column (B) the Fee Multiple, if applicable. Enter in Column (C) the result obtained from multiplying the value of the Fee Type Code in Column (A) by the number entered in Column (B), if any.

(A)	(B)	(C)	
FEE TYPE CODE	FEE MULTIPLE (if required)	FEE DUE FOR FEE TYPE CODE IN COLUMN (A)	FOR FCC USE ONLY
(1) M G T		\$100.00	

**SECTION II** — To be used only when you are requesting concurrent actions which result in a requirement to list more than one Fee Type Code.

(A)	(B)	(C)	
FEE TYPE CODE	FEE MULTIPLE (if required)	FEE DUE FOR FEE TYPE CODE IN COLUMN (A)	FOR FCC USE ONLY
(2) <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		\$	
(3) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		\$	
(4) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		\$	
(5) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		\$	

ADD ALL AMOUNTS SHOWN IN COLUMN C, LINES (1) THROUGH (5), AND ENTER THE TOTAL HERE. THIS AMOUNT SHOULD EQUAL YOUR ENCLOSED REMITTANCE. →

TOTAL AMOUNT REMITTED WITH THIS APPLICATION OR FILING  
\$100.00

FOR FCC USE ONLY

SOVRAN  
BANK  
DC NATIONAL  
MAIN OFFICE  
1801 K STREET, NW  
WASHINGTON, D.C. 20006

# BAKER & HOSTETLER

ATTORNEYS-AT-LAW

1050 CONN. AVE., N.W. WASHINGTON, D.C. 20036

15-120 D01  
540

## No. 22313

MO.	DA.	YR.
06	03	91

DOLLARS	CENTS
*****	100.00

ONE HUNDRED AND 00/100 DOLLARS

VOID AFTER 90 DAYS

PAY TO  
THE  
ORDER  
OF

Federal Communication Commission

BY *Robert L. ...*  
AUTHORIZED SIGNATURE

⑈022818⑈ ⑆054001204⑆ ⑈714412 1⑈

BAKER  
&  
HOSTETLER  
COUNSELLORS AT LAW

WASHINGTON SQUARE, SUITE 1100 • 1050 CONNECTICUT AVENUE, N.W. • WASHINGTON, D.C. 20036 • (202) 861-1500  
FAX (202) 861-1783 • TELEX (650) 2357276  
WRITER'S DIRECT DIAL NUMBER (202)  
(202) 861-1624

June 3, 1991

Ms. Donna R. Searcy  
Secretary  
Federal Communications Commission  
1919 M Street, N.W.  
Washington, D.C. 20554

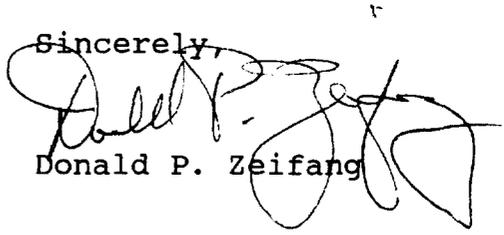
Re: Renewal Application  
WMAR-TV Baltimore Maryland

Dear Ms. Searcy:

Enclosed on behalf of Scripps Howard Broadcasting Company, in duplicate, is an "Application for Renewal of License" (FCC Form 303-S) and an RF Report for Station WMAR-TV. Also enclosed, in triplicate, is a "Broadcast Equal Employment Opportunity Program Report" (FCC Form 396) for Station WMAR-TV. Finally, a check for \$100.00 is enclosed to cover the processing fee.

Should there be any questions, kindly contact the undersigned.

Sincerely,

  
Donald P. Zeifang

Enclosures  
95080-90006

cc: WMAR-TV Public Inspection Files

For <u>Commission Fee Use Only</u>	FEE NO:  FEE TYPE:  FEE AMT:  ID SEQ:	For <u>Applicant Fee Use Only</u> <b>FCC/MELLON JUN 03 1991</b> Is a fee submitted with this application? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  If No, indicate reason therefor (check one box): <input type="checkbox"/> Nonfeeable application Fee Exempt (See 47 C.F.R. Section 1.1112) <input type="checkbox"/> Noncommercial educational licensee <input type="checkbox"/> Governmental entity
For <u>Commission Use Only</u> : File No. <b>BRCT-910603KX</b>		

1. Name of Applicant  
**Scripps Howard Broadcasting Company**

Mailing Address  
**6400 York Road**

City <b>Baltimore</b>	State <b>MD</b>	ZIP Code <b>21212</b>
--------------------------	--------------------	--------------------------

2. This application is for:  AM  FM  TV

(a) Call Letters: <b>WMAR-TV</b>	(b) Principal Community: City <b>Baltimore</b> State <b>MD</b>
-------------------------------------	---

3. Attach as Exhibit No. N/A an identification of any FM booster or TV booster station for which renewal of license is also requested.

4. Have the following reports been filed with the Commission:

(a) The Broadcast Station Annual Employment Reports (FCC Form 395-B) as required by 47 C.F.R. Section 73.3612?  Yes  No  
 If No, attach as Exhibit No. \_\_\_\_\_ an explanation.

(b) The applicant's Ownership Report (FCC Form 323 or 323-E) as required by 47 C.F.R. Section 73.3615?  Yes  No  
 If No, give the following information:  
 Date last ownership report was filed \_\_\_\_\_  
 Call letters of station for which it was filed \_\_\_\_\_

FCC 323-S  
May 1989

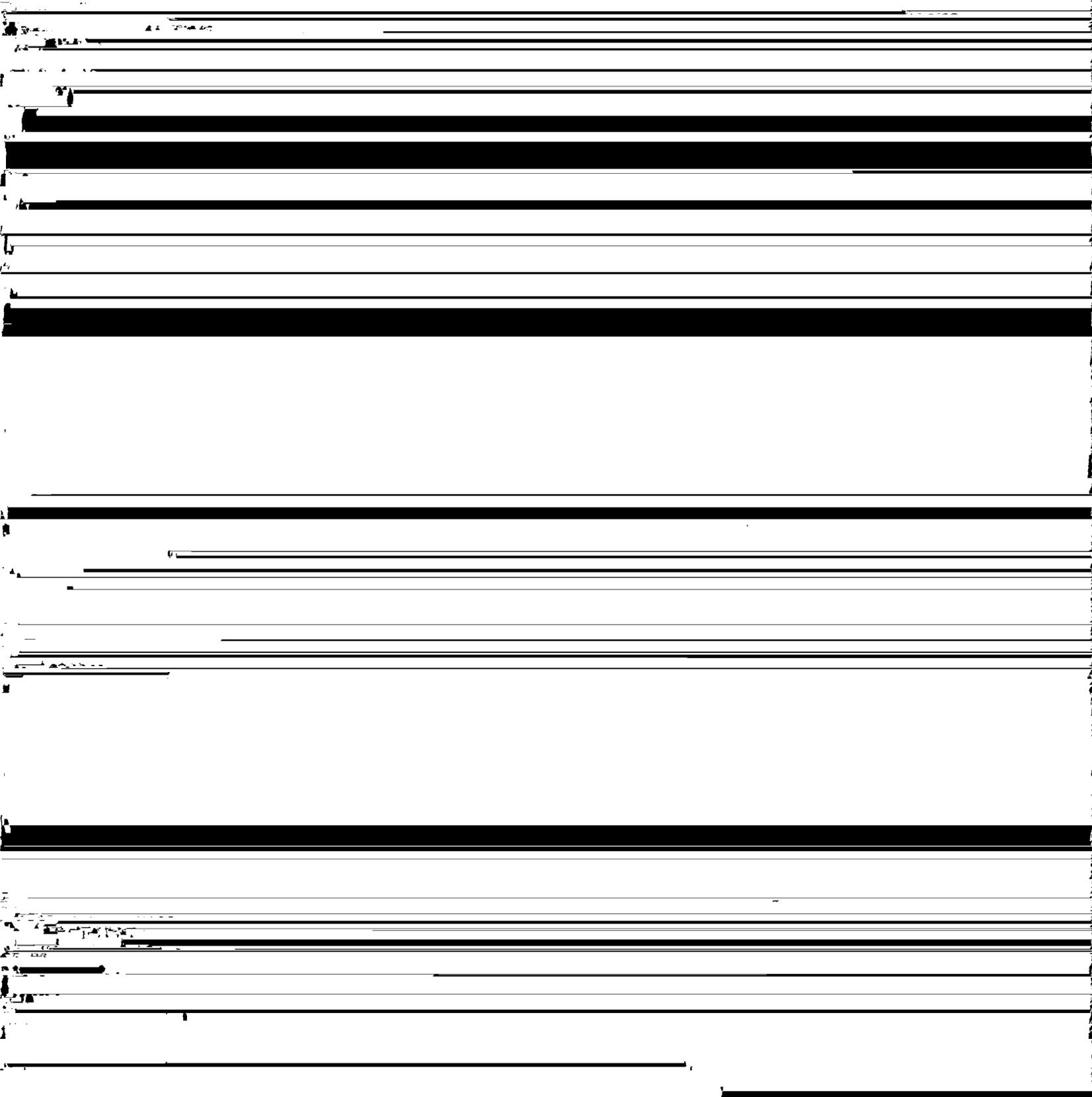
**REC'D MASS MED BUR  
JUN 6 1991  
VIDEO SERVICES**

5. Is the applicant in compliance with the provisions of Section 310 of the Communications Act of 1934, as amended, relating to interests of aliens and foreign governments?  Yes  No

If No, attach as Exhibit No. \_\_\_\_\_ an explanation.

6. Since the filing of the applicant's last renewal application for this station or other major application, has an adverse finding been made or final action been taken by any court or administrative body with respect to the applicant or parties to the application in a civil or criminal proceeding, brought under the provisions of any law relating to the following: any felony; broadcast related antitrust or unfair competition; criminal fraud or fraud before another governmental unit; or discrimination?  Yes  No

If Yes, attach as Exhibit No. \_\_\_\_\_ a full description of the persons and matters involved, including an



RADIO FREQUENCY ENERGY LEVEL STATEMENT WMAR-TV BALTIMORE, MARYLAND  
SCRIPPS HOWARD BROADCASTING COMPANY

This Radio Frequency (RF) Energy Statement was prepared by Warren P. Happel P.E., Vice President Engineering, Scripps Howard Broadcasting Company, and is based on actual RF energy measurements taken by the engineering consulting firm, Cohen, Dippell and Everist (CD&E). The measurements were first taken in March 1986. The measurements were again taken in March 1989, to determine any change in RF energy levels because of a nearby tower, constructed after 1986, which supports a UHF and a FM antenna. A copy of the 1986 and 1989 Engineering Reports, signed by Julius Cohen P.E. and Sudhir K. Khanna P.E., are made part of the instant Statement. I have reviewed the two CD&E reports. The broadband field strength meters used for the measurements are of the type typically used for accurate RF measurements. The meters and the measurements are adequately documented to support the instant Statement.

The RF energy from the main TV and FM antennas which are located on the tower (known as the TTI tower) were included in the CD&E measurements. The following tables list the channels included in the measurements.

WMAR-TV ENERGY LEVEL Statement. continued:

From the report it is evident that energy levels do not exceed the exposure levels in the guideline. ANSI C95.1-1982, published by the American National Standards Institute (ANSI), at or near ground level. Neither the public nor employees are exposed to levels anywhere close to the ANSI guideline maximums.

The tower is surrounded by a fence which is 17 feet or more from the base of the tower. Appropriate warning signs are posted. Secondary fences surround the WMAR-TV and the WBAL-TV properties: a fence partially surrounds the WJZ property.

Anyone who must work on the TTI tower, is protected from exposure to RF levels in excess of ANSI levels. Warning signs are posted at the entrance point to all catwalks on the tower. Additionally, warning signs are posted on all areas of the tower structure where RF levels normally exceed ANSI guidelines. Instructions are posted notifying personnel to call the transmitter control points of WMAR-TV, WBAL-TV, and WJZ-TV if they need to enter an area which normally has a high RF energy. These control points have associated power reduction tables which the transmitter operators are instructed to follow in-order-to reduce the RF to a safe energy level for the particular area to be occupied.

WMAR-TV ENERGY LEVEL Statement. continued:

As required by Paragraph 1.1307(b) of the Commission's Rules, the continued operation of WMAR-TV and the TV and FM facilities identified in the tables on page one, will not cause exposure of workers or the general public to levels of radiofrequency radiation in excess of the "Radio Frequency Protection recommended in "American National Standard Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields 300 kHz to 100 GHz". (ANSI C95.1-1982). issued by the American National Standards Institute.

Warren P. Happel P. E.



Vice President Engineering  
Scripps Howard Broadcasting  
1100 Central Trust Tower



COHEN, DIPPELL AND EVERIST, P. C.

ENGINEERING REPORT  
RE RF RADIATION MEASUREMENTS  
ON TTI TOWER, BALTIMORE, MARYLAND  
MARCH 1989



COHEN, DIPPELL AND EVERIST, P. C.

City of Washington )  
 ) ss  
District of Columbia )

Sudhir K. Khanna, being duly sworn upon his oath, deposes and states:

That he is a graduate electrical engineer, a registered professional engineer in the District of Columbia, and is a Vice President of Cohen, Dippell and Everist, P.C., Consulting Engineers, Radio - Television, with offices at 1015 15th Street, N.W., Suite 703, Washington, D.C. 20005;

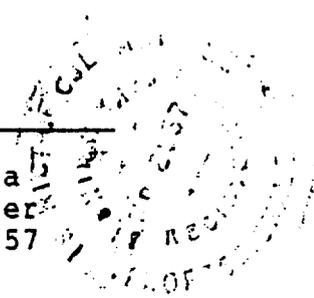
That his qualifications are a matter of record in the Federal Communications Commission;

That he assisted in the making and analysis of the measurements; and

That the facts stated herein are true of his own knowledge, except such facts as are stated to be on information and belief, and as to such facts, he believes them to be true.

*S.K. Khanna*

Sudhir K. Khanna  
District of Columbia  
Professional Engineer  
Registration No. 8057

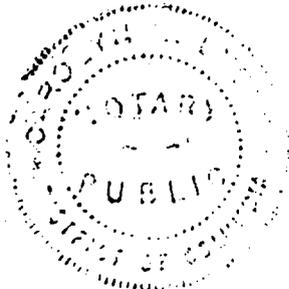


Subscribed and sworn to before me this 29<sup>th</sup> day of March, 1989.

*Carol L. Lyons*  
Notary Public

My Commission Expires:

2/28/93



COHEN, DIPPELL AND EVERIST, P. C.

This engineering report has been prepared on behalf of Television Tower, Inc. (TTI) to provide the results of broadband RF radiation measurements made on March 22, 1989, on and in the vicinity of the candelabra tower located at 3800 Hooper Avenue in Baltimore, Maryland. Similar RF radiation measurements were made earlier on the candelabra in March 1986 and August 1987. The recent measurements made on March 22, 1989, were repeated on most of the same locations measured in March 1986.

At the time of measurements, weather was mostly sunny, and the temperature was in the high thirties.

TTI tower supports antennas for three VHF-TV stations, one FM broadcast station (WIYY) and number of other various communication operations. Station WIYY has recently installed a new circularly polarized two-bay FM antenna replacing the old antenna. A nearby tower, approximately 600 feet northeast of the TTI tower, supports a UHF-TV and an FM station's antennas. The attached Table I lists the FCC authorized facilities of each TV and FM broadcast station located on the TTI and the nearby tower.

The RF radiation measurements were made with two broadband field strength meters using isotropic electric and magnetic probes. The broadband field strength meters provide the combined RF field of all signals at the measuring location

within the meter's frequency range. The isotropic broadband field strength meters used for the TTI tower measurements were manufactured by Holaday Industries, Inc., Eden Prairie, Minnesota. Two isotropic broadband meters, Holaday, Model HI-3001, Serial Number 33263 and Model HI-3004, Serial Number 39179 were used in the measurements. The meter HI-3001 depending on the probe measures the electric field in  $V^2/m^2$  and magnetic field in  $A^2/m^2$  while Model HI-3004 measures the electric field in V/m. Both meters were calibrated by the manufacturer in May, 1988. The measured value in far field areas can be converted into equivalent power density by applying the impedance of free space (377 ohms). Three different probes were used with Model HI-3001 depending on the range of measured field and whether electric or magnetic field were measured. Model HI-3001 covers the frequency range of 0.5 MHz to 6000 MHz while Model HI-3004 covers the frequency range of 0.5 MHz to 3000 MHz. All TV and FM stations operate within the frequency range of both meters.

The electric field strength measurements were made at several locations on the top platform of TTI candelabra and also on the microwave platforms located at the 638 and 300 foot levels. The measurements were made on catwalks leading to each antenna platform, inside the tower control and equipment room

located on the top platform of the tower. Measurements were also made on the second platform in this room.

The attached Table II lists the measured electric field strengths recorded on the tower and the equivalent RF power density.

The electric field exceeded the ANSI standard of  $4000 \text{ V}^2/\text{m}^2$ , (equivalent to 1 milliwatt per square centimeter ( $\text{mw}/\text{cm}^2$ ) in power density) at some locations including those recorded above ANSI values in March 1986. The highest electric field was again observed on the platform immediately under the main WMAR-TV antenna. Under the other TV antennas at similar locations, the electric field strengths were measured higher than the ANSI standard. The electric field was observed higher than  $4,000 \text{ V}^2/\text{m}^2$  on a few new locations as shown on the attached Table II. These new locations include entrance to the catwalk to WBAL-TV main antenna, middle, left and right side of WBAL-TV auxiliary antenna platform and WJZ-TV aural antenna platform and the catwalk.

The magnetic field was also measured under the three main antennas and on the catwalk leading to the antenna (Table III). The highest magnetic field of  $3.393 \text{ mW}/\text{cm}^2$  was observed under the WMAR-TV main antenna which exceeds the ANSI standard.

The measured electric field strengths were below the ANSI standard in the tower control room and at the second platform of the control room. The electric field strength measured on the platforms at the 638 and 300 foot levels were also substantially less than  $1 \text{ mW/cm}^2$  as shown on Table II.

The main contributing factors of RF energy levels on the TTI tower are due to the operation of TV and FM broadcast stations on the TTI tower. The recent (March 1989) measurements indicate new areas on the TTI tower where RF radiation level exceeds the ANSI standards of  $1 \text{ mW/cm}^2$ . These changes can be attributed to the new broadbeam WIYY(FM) two-bay antenna. The measurements made on the ground in the vicinity of the tower indicate the RF radiation levels are substantially below the ANSI standards.

The attached Table V shows the complete ANSI standards for frequencies ranging from 0.3 MHz to 100,000 MHz. The ANSI standards are for power densities not to be exceeded averaged over any six minute period.

According to ANSI standards, a higher level of RF exposure than  $1 \text{ mW/cm}^2$  can be tolerated for lesser period of time than six minutes. For example, on a short-term basis, exposure to  $6 \text{ mW/cm}^2$  is permitted for one minute as long as there is no additional exposure during the remaining time within the

six-minute period. Therefore, the maintenance personnel while working on the tower should limit their exposure time so that the product of the power density ( $\text{mW}/\text{cm}^2$ ) and time does not exceed  $6 \text{ mW-minute}/\text{cm}^2$ . Walking through the catwalks, an individual would not be exposed to above ANSI radiation levels considering the time of passage. However, additional signs should be posted at new locations measured in the survey which show RF radiation levels exceeding the ANSI standards.

COHEN, DIPPELL AND EVERIST, P. C.

TABLE I  
LIST OF BROADCAST STATION'S ANTENNAS  
LOCATED ON TTI TOWER

<u>Call</u>	<u>City/State</u>	<u>Channel (Frequency)</u> mHz		<u>Effective Radiated Power</u>	<u>Height Above Average Terrain</u> meters
WMAR-TV	Baltimore Maryland	2	(54-60)	100	305
WBAL-TV	Baltimore Maryland	11	(198-204)	316	305
WJZ-TV	Baltimore Maryland	13	(210-216)	316	302
WIYY(FM)	Baltimore Maryland	250B	(97.9)	13.5	288

LOCATED ON NEW TOWER  
(APPROXIMATELY 600 FEET NORTHEAST OF TTI TOWER)

WBFF(TV) CP	Baltimore Maryland	45	(656-662)	1290	386
WMMX(FM)	Baltimore Maryland	293B	(106.5)	7.4	371

COHEN, DIPPELL AND EVERIST, P. C.

TABLE II

BROADBAND RF RADIATION MEASUREMENTS  
ON TTI CANDELABRA TOWER  
BALTIMORE, MARYLAND

(Page 1)

Date: March 22, 1989  
 Meter: Holaday Industries, Inc.  
 Model: HI-3001

<u>Point Number</u>	<u>Electric Field</u> V <sup>2</sup> /m <sup>2</sup>	<u>Equivalent Power Density</u> mw/cm <sup>2</sup>	<u>Location</u>
			<u>WBAL-TV Main Antenna</u>
1	10,000	2.653	entrance of catwalk
2	2,400	0.637	near 1st brace on catwalk
3	2,300	0.610	near 2nd brace on catwalk
4	1,200	0.318	near 3rd brace on catwalk
5	5,500	1.459	on platform under the main antenna
			<u>WJZ-TV Main Antenna</u>
6	750	0.199	entrance of catwalk
7	1,900	0.504	near 1st brace on catwalk
8	2,300	0.610	near 2nd brace on catwalk
9	3,000	0.796	near 3rd brace on catwalk
10	9,500	2.520	on platform under the main antenna

COHEN, DIPPELL AND EVERIST, P. C.

TABLE II

BROADBAND RF RADIATION MEASUREMENTS  
ON TTI CANDELABRA TOWER  
BALTIMORE, MARYLAND  
 (Page 2)

Date: March 22, 1989  
 Meter: Holaday Industries, Inc.  
 Model: HI-3001

<u>Point Number</u>	<u>Electric Field</u> v <sup>2</sup> /m <sup>2</sup>	<u>Equivalent Power Density</u> mw/cm <sup>2</sup>	<u>Location</u>
			<u>WMAR-TV Main Antenna</u>
11	3,300	0.875	entrance of catwalk
12	3,700	0.981	near 1st brace on catwalk
13	580	0.154	near 2nd brace on catwalk
14	3,500	0.928	near 3rd brace on catwalk
15	10,000	2.653	at the platform entrance
16	25,000	6.631	on platform under the main antenna
			<u>WBAL-TV Auxiliary Antenna</u>
17	2,000	0.531	entrance of catwalk
18	3,300	0.875	middle of catwalk
19	9,500	2.520	middle of antenna platform
20	10,000	2.653	left side of antenna platform
21	2,800	0.743	right side of antenna platform

COHEN, DIPPELL AND EVERIST, P. C.

TABLE II

BROADBAND RF RADIATION MEASUREMENTS  
ON TTI CANDELABRA TOWER  
BALTIMORE, MARYLAND  
 (Page 3)

Date: March 22, 1989  
 Meter: Holaday Industries, Inc.  
 Model: HI-3001

<u>Point Number</u>	<u>Electric Field</u> V <sup>2</sup> /m <sup>2</sup>	<u>Equivalent Power Density</u> mw/cm <sup>2</sup>	<u>Location</u>
			<u>WJZ-TV Auxiliary Antenna</u>
22	9,500	2.520	entrance of catwalk
23	15,000	3.979	middle of catwalk
24	5,000	1.326	middle of antenna platform
25	5,300	1.406	left side of antenna platform
26	5,500	1.459	right side of antenna platform
			<u>WMAR-TV Auxiliary Antenna</u>
27	3,300	0.875	entrance of catwalk
28	2,500	0.663	middle of catwalk
29	1,500	0.398	middle of antenna platform
30	1,000	0.265	left side of antenna platform
31	900	0.239	right side of antenna platform
32	3,300	0.875	WMAR-TV line coming out of tower control room

COHEN, DIPPELL AND EVERIST, P. C.

TABLE II

BROADBAND RF RADIATION MEASUREMENTS  
ON TTI CANDELABRA TOWER  
BALTIMORE, MARYLAND

(Page 4)

Date: March 22, 1989  
 Meter: Holaday Industries, Inc.  
 Model: HI-3001

<u>Point Number</u>	<u>Electric Field</u> V <sup>2</sup> /m <sup>2</sup>	<u>Equivalent Power Density</u> mw/cm <sup>2</sup>	<u>Location</u>
			<u>Inside the Tower Control Room</u>
33	200	0.053	across from WMAR-TV auxiliary antenna
34	250	0.066	near WMAR-TV line
35	600	0.159	near WMAR-TV controls
36	540	0.143	across from WJZ-TV aural antenna
37	240	0.064	across from WBAL-TV auxiliary antenna
			<u>On Second Platform Inside Tower Control Room</u>
38	370	0.098	across WJZ-TV aural antenna
39	2,200	0.584	back of cabinet
40	2,500	0.663	across from WMAR-TV auxiliary antenna near line
41	350	0.093	across from WBAL-TV auxiliary antenna

COHEN, DIPPELL AND EVERIST, P. C.

TABLE II

BROADBAND RF RADIATION MEASUREMENTS  
ON TTI CANDELABRA TOWER  
BALTIMORE, MARYLAND  
 (Page 5)

Date: March 22, 1989  
 Meter: Holaday Industries, Inc.  
 Model: HI-3001

<u>Point Number</u>	<u>Electric Field</u> V <sup>2</sup> /m <sup>2</sup>	<u>Equivalent Power Density</u> mw/cm <sup>2</sup>	<u>Location</u>
			<u>Platform at 300 Feet Level</u>
42	280	0.074	facing north
43	70	0.019	facing west
44	65	0.017	facing east
			<u>Platform at 638 Feet Level</u>
45	250	0.066	maximum
46	180	0.048	near the microwave antenna

COHEN, DIPPELL AND EVERIST, P. C.

TABLE III

BROADBAND RF RADIATION MEASUREMENTS  
ON TTI CANDELABRA TOWER  
BALTIMORE, MARYLAND

Date: March 22, 1989  
 Meter: Holaday Industries, Inc.  
 Model: HI-3001

<u>Point Number</u>	<u>Magnetic Field</u> A <sup>2</sup> /m <sup>2</sup>	<u>Equivalent Power Density</u> mw/cm <sup>2</sup>	<u>Location</u>
5	0.012	0.452	on platform under WBAL-TV main antenna
10	0.004	0.151	on platform under WJZ-TV main antenna
12	0.005	0.189	near 1st brace to WMAR-TV main antenna catwalk
13	0.015	0.566	near the 2nd brace to WMAR-TV main antenna catwalk
16	0.09	3.393	on platform under WMAR-TV main antenna

COHEN, DIPPELL AND EVERIST, P. C.

TABLE IV

BROADBAND RF RADIATION MEASUREMENTS  
IN THE VICINITY OF  
TTI CANDELABRA TOWER  
BALTIMORE, MARYLAND

(Page 1)

Date: March 22, 1989  
 Meter: Holaday Industries, Inc.  
 Model: HI-3004

<u>Point Number</u>	<u>Electric Field</u> V/m	<u>Equivalent Power Density</u> Microwatts/cm <sup>2</sup> (uW/cm <sup>2</sup> )	<u>Location</u>
1	3	2.39	around the tower base
2	1.8	0.86	at the gate near tower
3	2.4	1.53	in front of WJZ-TV studio right side of building
4	3.4	3.07	in front of WJZ-TV studio left side of building
5	3.9	4.03	WJZ-TV left side parking lot entrance
6	4.0	4.24	far left side of parking lot
7	2.9	2.23	back of WMAR-TV transmitter building
8	3.2	2.72	WBAL-TV studio parking lot opposite main entrance
9	1.5	0.60	WBAL-TV studio front steps
10	4.0	4.24	WBAL-TV studio on the landing in front of main entrance
11	7.0	13.0	WBAL-TV studio driveway in x front of stairs
12	4.5	5.37	WBAL-TV studio driveway gate x

COHEN, DIPPELL AND EVERIST, P. C.

TABLE V

ANSI STANDARDS  
RADIO FREQUENCY PROTECTION GUIDES

<u>Frequency(f)</u> mHz	<u>Field Strength</u> $V^2/m^2$	<u>Field Strength</u> $A^2/m^2$	<u>Power Density</u> $\mu W/cm^2$
0.3-3	400,000	2.5	100.000
3-30	4,000 ( $900/f^2$ )	0.025 ( $900/f^2$ )	$900/f^2$
30-300	4,000	0.025	1,000
300-1500	4,000 ( $f/300$ )	0.25 ( $f/300$ )	$f/300$