

10 27570

KAYE, SCHOLER, FIERMAN, HAYS & HANDLER, LLP

A NEW YORK LIMITED LIABILITY PARTNERSHIP

THE MCPHERSON BUILDING

901 FIFTEENTH STREET, N.W., SUITE 1100

WASHINGTON, D.C. 20005-2327

425 PARK AVENUE
NEW YORK, NY 10022-3598

1999 AVENUE OF THE STARS
SUITE 1600
LOS ANGELES, CA 90067-6048

SHANGHAI CENTRE
SUITE 405
1376 NANJING XI LU
PEOPLE'S REPUBLIC OF CHINA

(202) 682-3500

FAX (202) 682-3580

amoskowitz@kayescholer.com

PHILLIPS POINT WEST TOWER
SUITE 1002
777 S. FLAGLER DRIVE
WEST PALM BEACH, FL 33401

NINE QUEEN'S ROAD CENTRAL
HONG KONG

RECEIVED

FEB 15 2000

WRITER & DIRECT DIAL NUMBER
(202) 682-3501

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

February 15, 2000

Ms. Magalie Roman Salas
Secretary
Federal Communications Commission
445 Twelfth Street, NW
Washington, DC 20554

Re: Amendment to Pending Application
File No. BL-19991201AAQ
Radio Station WTKZ(AM)
Allentown, Pennsylvania
The Holt Corporation of Pennsylvania, Inc.

Dear Ms. Salas:

On behalf of The Holt Corporation of Pennsylvania, Inc., licensee of Radio Station WTKZ(AM), Allentown, Pennsylvania, and above-referenced applicant for license to cover Construction Permit BP-961105AD, we are herewith responding to the Commission's letter of December 15, 1999 with respect to the above-referenced application by amending the application with the required material.

The licensee has previously filed the required before/after partial proof of performances on Radio Station WKAP(AM). We are herewith filing the before/after partial proof of performance on Radio Station WHOL(AM), the spurious study on WHOL(AM), and radio frequency hazard measurement data.

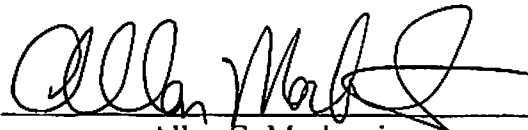
Furthermore, the amendment corrects the deficiencies listed in the Commission's December 15, 1999 letter.

Ms. Magalie Roman Salas
February 15, 2000
Page 2

Should any question arise with respect to this matter, please contact the undersigned counsel.

Respectfully submitted,

KAYE, SCHOLER, FIERMAN, HAYS & HANDLER, LLP

By: 
Allan G. Moskowitz

AGM/lis

cc: Edward A. Lubetzky
FCC, 2-A441

Feb-14-00 12:05pm From-KAYE SCHOLER LLP

The Holt Corporation of Pennsylvania, Inc.

Ms. Magalie Roman Salas
Federal Communications Commission
445 Twelfth Street, SW
Washington, DC 20554


Re: File No. BL-19991201AAQ
Application for License to Cover Construction Permit
BP-961105AD
Radio Station WTKZ(AM)
Allentown, Pennsylvania

Dear Ms. Salas

On behalf of The Holt Corporation of Pennsylvania, Inc., we are herewith amending the above-referenced application for license to cover construction permit with the attached material.

Respectfully submitted,

The Holt Corporation of Pennsylvania, Inc.


Arthur Holt

Doc 011000552.wpd

SECTION-III LICENSE APPLICATION ENGINEERING DATA

Name of Applicant

The Holt Corporation of Pennsylvania, Inc.

PURPOSE OF AUTHORIZATION APPLIED FOR (check one)



Station License



Direct Measurement of Power

1 Facilities authorized in construction permit

Call Sign	file No of Construction Permit (if applicable)	frequency (kHz)	Hours of Operation	Power in kilowatts	
				Night	Day
WTKZ	BP-961105AD	1320	U	0.195	0.750

2 Station location

State	City or Town
PA	Allentown

3 Transmitter location

State	County	City or Town	Street address (or other identification)
PA	Lehigh	Allentown	1125 Colorado Ave

4 Main studio location

State	County	City or Town	Street address (or other identification)
PA	Lehigh	Allentown	961 Marcon Blvd.

5 Remote control point location (specify only if authorized directional antennas)

State	County	City or Town	Street address (or other identifications)
PA	Lehigh	Allentown	961 Marcon Blvd.

6 Has type-approved stereo generating equipment been installed



Yes



No

7 Does the sampling system meet the requirements of 47 C.F. R Section 73. 68?



Yes



No



Not Applicable

Attach as an Exhibit a detailed description of the sampling system as installed

Exhibit No
Narrative

8. Operating constants:

RF common point or antenna current (In amperes without modulation for night system)		RF common point or antenna current (in amperes) without modulation for day system	
2.05		3.3	
Measured antenna or common point resistance (In ohms) at operating frequency		Measured antenna or common point reactance (in ohms at operating frequency	
Night	Day	Night	Day
50	69	-9.0	+53

Antenna indications for directional operation

Towers	Antenna monitor Phase reading(s) in degrees		Antenna monitor sample current ratings		Antenna base currents	
	Night	Day	Night	Day	Night	Day
1	-164		83		3.6	
2	±0		100		4.4	

Manufacturer and type of antenna monitor

Potomac Instruments AM-19 (204)

9. Description of antenna system (if directional antenna is used, the information requested below should be given for each Element of the array. Use separate sheets if necessary.)

Type Radiator	Overall height in meters of radiator above base insulator, or above base, if grounded.	Overall height in meters above ground (Without obstruction lighting)	Overall height in meters above ground (include obstruction lighting)	If antenna is either top loaded or sectionalized, describe fully in an Exhibit.
Vertical	(1&2) 61 meters	(1&2) 61.5	(1&2) 62.5	Exhibit No. ---

Excitation



Series



Shunt

Geographic coordinates to nearest second. For directional antenna give coordinates of center of array. Or single vertical radiator give tower location.

North Latitude	40° 35' 33"	West Longitude	75° 28' 42"
----------------	-------------	----------------	-------------

If not fully described above, attach as an Exhibit further details and dimensions including any other antenna mounted on tower and associated isolation circuits.

Exhibit No.

Also, if necessary for a complete description, attach as an Exhibit a sketch of the details and dimensions of ground system.

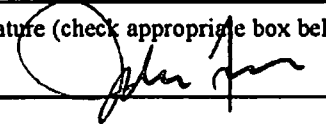
Exhibit No.
Narrative

10. In what respect, if any, does the apparatus constructed differ from that described in the application for construction permit or in the permit

None

11. Give reasons for the change in antenna or common point resistance

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical

Name (Please Print or Type) John R. Furr	Signature (check appropriate box below) 
Address (Include ZIP Code) 8620 N. New Braunfels, Suite 305 San Antonio, TX 78217	Date Amendment February 14, 2000
	Telephone No. (Include Area Code) 210-828-4555



Technical Director



Registered Professional Engineer



Chief Operator



Technical Consultant



Other (specify) Communications Consultant

AMENDMENT NARRATIVE

On December 15, 1999, a letter of dismissal was issued to WTKZ, Allentown, PA (Facility #27510). This amendment is submitted to resolve the objections that the staff (E. Lubetzky). Items to be resolved were:

1. Partial proof on WHOL: The preparer was told that the proof was on file and that was the reason it was omitted. It is attached as an exhibit to this amendment.

2. Partial proof on WKAP: The proof was on file with the FCC. However, the proof (in its complexity) did not verify that WKAP was in adjustment. The measured data reported was taken after the removal of WTKZ's towers. The data was referenced to the 1962 Complete Proof and is found to be in compliance.

3. Spurious study on WHOL/WTKZ: This was taken at 1 km from the tower. All mix-frequency points were found to be below 80 dB except 1880 kHz which was -79.2, a result of meter truncation accuracy. The table is given in this amendment.

4. RF Hazard study: Section-1 of OET 65-A, Table-3 gives the distances from the tower to the fence for 2 kW as 2 meters. WHOL's maximum power is .5 kW and WTKZ is .75 kW. The fence, as seen in the photos given in the original filing, are at least 2 meters from the tower base at each tower, and therefore in compliance.

5. Power on non-directional higher than authorized. The power of the non-directional was made in excess of authorized power because the site was operating under Special Temporary Authority (STA) from a 5 kW daytime station. This power was higher than that ultimately granted in the C.P. In order to bring the data into compliance, each non-directional measurement was ratioed to reflect the difference in power change down to 750 Watts.

AMENDED PROOF

For ease of processing, all of the tabulations are given in this amendment and all of the graphs. The maps, monitor point information and photographs are not repeated as unchanged. The summary page in this proof of performance demonstrates:

- The non-directional RMS was measured at 262.3 mV/m determined by sectoring.

- The night measured RMS is 137.2 mV/m/km determined by sectoring. The measured RMS is 91.5 percent of the Standard RMS of 150.0 mV/m/km and is above the required 85 percent and all radials below Maximum Standard Pattern.

PHASETEK INC.
550 CALIFORNIA ROAD, UNIT 11
QUAKERTOWN, PA 18951
PHONE: 215-536-6648
FAX: 215-536-7180

TABLE 11

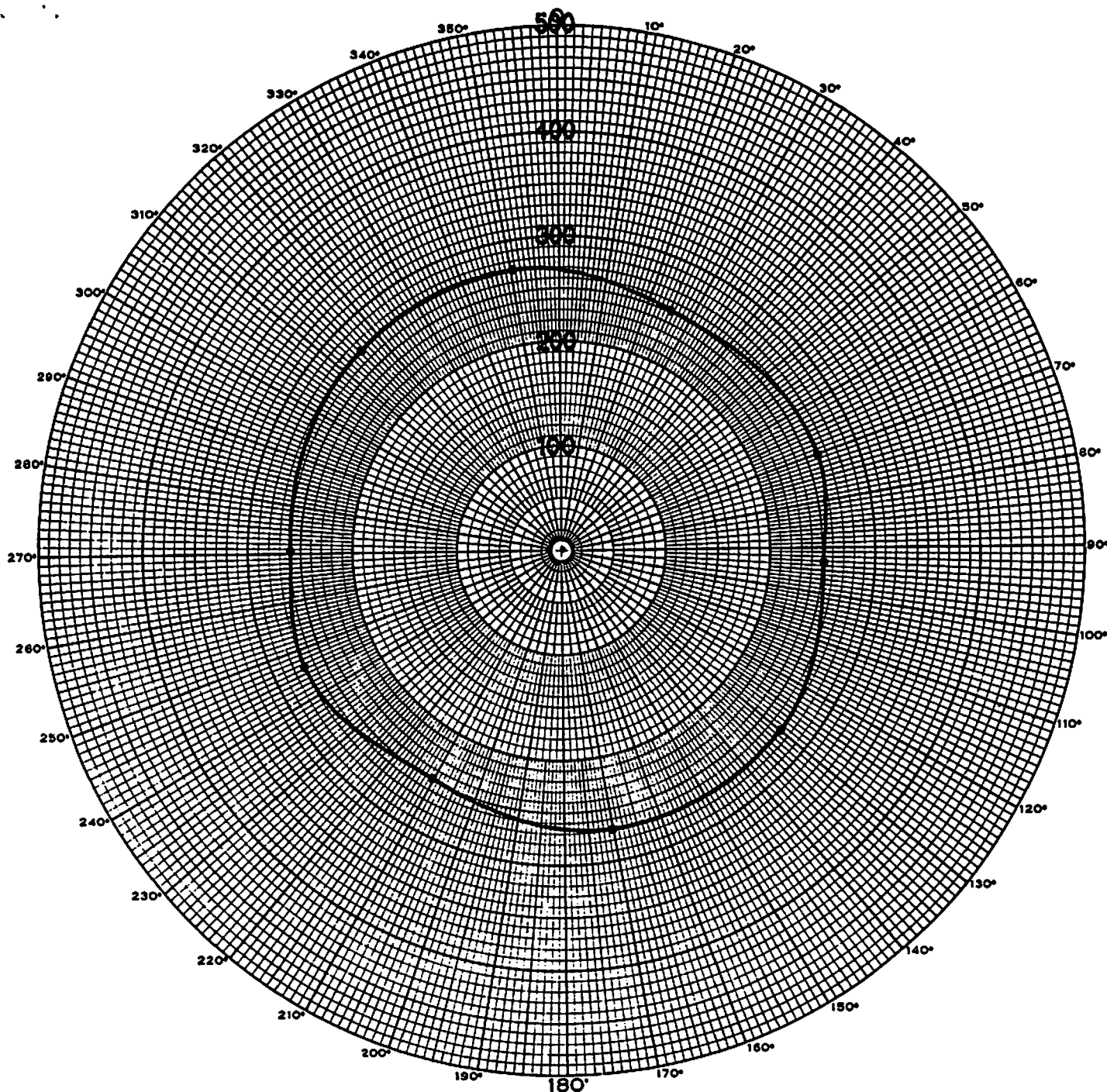
WTKZ/WHOL
SPURIOUS MEASUREMENTS
AT 1KW FROM ANTENNA
WITH FIM 4 1

WTKZ: 1320kHz (NON-DIRECTIONAL)

WHOL: 1600kHz (DIRECTIONAL)

<u>FREQUENCY</u>	<u>FIELD (MV/m)</u>	<u>dB RELATIVE</u>
1320kHz	138.0	----
1600kHz	119.0	0.0
1040kHz	.011	-80.6
1880kHz	.013	-79.2
2640kHz	.006	-85.9
3200kHz	.0115	-80.3
4240kHz	.0125	-79.6
4520kHz	.005	-87.5

Above measurements taken with meter positioned towards Antenna for maximum.



RMS = 262.3 mV/m/km

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NON-DIRECTIONAL

WTKZ
ALLENTOWN, PA
POLAR GRAPHS

WTKZ

YEAR: 1998
Non-D RADIAL 25.0

POINT	DISTANCE (km)	N-DA (mV/m)	TIME (EST)	DATE
1	0.50	410	0928	11-28
2	0.80	240	0941	11-28
3	1.00	180	0955	11-28
4	1.10	170	1012	11-28
5	1.40	130	1049	11-28
6	1.50	130	1423	12- 3
7	2.05	75	1115	11-28
8	2.20	88	1442	12- 7
9	2.75	50	1455	12- 7
10	3.20	42	1516	12- 7
11	4.00	36	1525	12- 7
12	5.79	17	1454	12- 3
13	6.40	14	1500	12- 3
14	8.55	9.6	1515	12- 3
15	9.55	6.3	1524	12- 3
16	10.10	4.9	1538	12- 3
17	11.06	5.0	1543	12- 3
18	13.90	3.1	1040	12-12
19	15.00	2.8	1106	12-12
20	16.40	2.6	1047	12-12
21	17.30	1.5	1058	12-12
22	18.45	1.4	1028	12-10
23	19.40	0.96	1038	12-10
24	20.00	1.2	1045	12-10
25	22.40	0.77	1103	12-10
26	23.50	0.78	1111	12-10
27	25.30	0.80	1119	12-10
28	26.30	0.62	1125	12-10
29	27.80	0.50	1130	12-10

Radial Inverse: 250 mV/m

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NON-DIRECTIONAL MEASUREMENTS

WTKZ
ALLENTOWN, PA
TABULATIONS

WTKZ

YEAR: 1998

Non-D RADIAL 70.0

POINT	DISTANCE (km)	N-DA (mV/m)	TIME (EST)	DATE
1	0.50	390	1553	11-29
2	0.71	300	1556	11-29
3	0.80	220	1559	11-29
4	1.10	160	1600	11-29
5	1.40	130	1604	11-29
6	1.70	100	1222	12- 1
7	2.00	77	1414	12- 1
8	2.30	58	1422	12- 1
9	3.15	44	1130	11-27
10	6.18	18	1211	11-27
11	7.70	8.8	1231	11-27
12	8.25	8.0	1244	11-27
13	8.99	8.0	1307	11-27
14	9.21	6.8	1312	11-27
15	11.72	3.9	1010	12- 3
16	12.94	3.5	1119	12- 3
17	14.08	2.7	1236	12- 3
18	15.30	2.7	1241	12- 3
19	16.59	1.8	1252	12- 3
20	18.00	1.6	1210	12- 4
21	18.80	1.5	1229	12- 4
22	19.40	1.4	1233	12- 4
23	21.20	1.5	1254	12- 4
24	22.00	1.4	1300	12- 4
25	23.53	0.96	1309	12- 4
26	24.88	0.88	1312	12- 4
27	25.57	0.72	1315	12- 4
28	26.50	0.70	1328	12- 4
29	27.01	0.67	1447	12- 4
30	28.05	0.69	1453	12- 4
31	29.20	0.69	1416	12- 4
32	29.75	0.62	1412	12- 4

Radial Inverse: 260 mV/m

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NON-DIRECTIONAL MEASUREMENTS

WTKZ
ALLENTOWN, PA
TABULATIONS

WTKZ

YEAR: 1998
Non-D RADIAL 93.0

POINT	DISTANCE (km)	N-DA (mV/m)	TIME (EST)	DATE
1	0.50	390	1326	11-20
2	0.79	220	1305	11-20
3	1.10	180	1347	11-20
4	1.15	140	1352	11-20
5	1.40	130	1412	11-20
6	1.70	96	1422	11-20
7	2.15	75	1023	11-21
8	2.67	63	1031	11-21
9	3.59	38	1037	11-21
10	4.10	26	1043	11-21
11	4.56	25	1049	11-21
12	5.56	18	1058	11-21
13	6.00	14	1101	11-21
14	7.05	7.4	1120	11-21
15	7.89	6.1	1125	11-21
16	8.75	6.2	1133	11-21
17	9.85	4.7	1241	11-24
18	11.12	3.4	1255	11-24
19	11.79	4.2	1306	11-24
20	13.37	2.7	1330	11-24
21	16.00	1.4	1341	11-24
22	18.00	1.0	1407	11-24
23	20.65	0.38	0924	11-25
24	21.82	0.51	0937	11-25
25	24.40	0.31	0948	11-25
26	25.05	0.32	1033	11-25
27	26.90	0.24	1044	11-25
28	27.50	0.26	1052	11-25
29	28.80	0.22	1138	11-25
30	29.85	0.24	1155	11-25

Radial Inverse: 250 mV/m

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NON-DIRECTIONAL MEASUREMENTS

WTKZ
ALLENTOWN, PA
TABULATIONS

WTKZ

YEAR: 1998
Non-D RADIAL 130.0

POINT	DISTANCE (km)	N-DA (mV/m)	TIME (EST)	DATE
1	0.50	400	1016	11-21
2	0.75	260	1022	11-21
3	0.80	260	1024	11-21
4	1.00	220	1037	11-21
5	1.18	150	1040	11-21
6	1.40	140	1101	11-21
7	1.70	88	1119	11-21
8	2.42	59	1420	11-21
9	2.91	44	1414	11-21
10	3.18	50	1409	11-21
11	3.40	38	1402	11-21
12	4.21	26	1352	11-21
13	5.49	4.3	1343	11-21
14	6.58	3.1	1331	11-21
15	8.10	2.6	1212	11-21
16	9.10	2.8	1206	11-21
17	10.40	2.3	1158	11-21
18	11.12	1.8	1154	11-21
19	11.90	1.8	1034	11-18
20	13.60	1.2	1028	11-18
21	14.80	1.1	1435	11-29
22	16.50	0.96	1428	11-29
23	17.68	0.80	1421	11-29
24	18.60	0.64	1505	11-29
25	19.99	0.60	1600	11-29
26	21.08	0.56	0938	11-28
27	22.10	0.44	0928	11-28
28	23.05	0.40	0945	11-28
29	24.06	0.38	1039	11-28
30	24.95	0.33	1033	11-28
31	27.40	0.19	1101	11-28
32	28.85	0.16	1116	11-28
33	29.88	0.15	1130	11-28

Radial Inverse: 270 mV/m

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NON-DIRECTIONAL MEASUREMENTS

WTKZ
ALLENTOWN, PA
TABULATIONS

WTKZ

YEAR: 1998
Non-D RADIAL 170.0

POINT	DISTANCE (km)	N-DA (mV/m)	TIME (EST)	DATE
1	0.50	370	1303	12- 4
2	0.80	240	1343	12- 4
3	0.90	190	1347	12- 4
4	1.00	160	1354	12- 4
5	1.40	110	1400	12- 4
6	1.70	88	1059	12- 6
7	2.20	54	1104	12- 6
8	2.76	50	1110	12- 6
9	3.60	30	1116	12- 6
10	6.33	6.1	1143	12- 6
11	7.00	5.0	1154	12- 6
12	7.62	3.4	1200	12- 6
13	9.28	2.6	1213	12- 6
14	9.45	2.2	1210	12- 6
15	10.81	2.2	1226	12- 6
16	11.21	2.6	1231	12- 6
17	12.11	2.3	1236	12- 6
18	12.85	1.5	1242	12- 6
19	13.50	1.3	1247	12- 6
20	15.20	1.2	1253	12- 6
21	16.70	0.96	1300	12- 6
22	18.10	0.72	1304	12- 6
23	19.35	0.80	1313	12- 6
24	21.80	0.59	1320	12- 6
25	23.35	0.42	1327	12- 6
26	24.50	0.36	1338	12- 6
27	25.70	0.21	1347	12- 6
28	27.10	0.20	1357	12- 6
29	29.10	0.16	1408	12- 6
30	30.10	0.14	1414	12- 6

Radial Inverse: 270 mV/m

WTKZ

YEAR: 1998
Non-D RADIAL 210.0

POINT	DISTANCE (km)	N-DA (mV/m)	TIME (EST)	DATE
1	0.50	360	0908	12- 5
2	0.80	220	0919	12- 5
3	1.00	140	0936	12- 5
4	1.48	74	1302	12-10
5	1.90	50	1317	12-10
6	2.30	46	1340	12-10
7	3.31	22	1417	12-10
8	3.68	20	1424	12-10
9	4.10	16	1500	12- 9
10	4.70	12	1445	12- 9
11	5.00	12	1516	12- 9
12	5.60	7.2	1525	12- 9
13	6.60	5.2	1533	12- 9
14	6.90	4.2	1005	12-10
15	7.99	3.3	1029	12-10
16	8.75	3.8	1041	12-10
17	9.50	3.1	1050	12-10
18	10.60	3.0	1111	12-10
19	11.50	1.8	1124	12-10
20	11.90	1.8	1134	12-10
21	13.42	1.5	1144	12-10
22	15.21	1.3	1200	12-10
23	15.90	0.64	1213	12-10
24	17.25	0.49	1245	12-10
25	18.35	0.47	1235	12-10
26	19.85	0.42	1249	12-10
27	22.55	0.33	1252	12-10
28	24.90	0.26	1404	12-10
29	25.20	0.16	1415	12-10
30	26.50	0.18	1425	12-10
31	27.20	0.18	1433	12-10
32	29.50	0.17	1435	12-10
33	30.20	0.14	1446	12-10

Radial Inverse: 250 mV/m

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NON-DIRECTIONAL MEASUREMENTS

WTKZ
ALLENTOWN, PA
TABULATIONS

WTKZ

YEAR: 1998
Non-D RADIAL 246.0

POINT	DISTANCE (km)	N-DA (mV/m)	TIME (EST)	DATE
1	0.50	400	1328	11-30
2	0.92	190	1340	11-30
3	1.10	200	1356	11-30
4	1.40	100	1405	11-30
5	1.70	77	1422	11-30
6	2.00	64	1456	11-30
7	2.30	53	1501	11-30
8	2.45	46	1215	11- 2
9	3.11	40	1221	11- 2
10	4.22	23	1235	11- 2
11	5.22	16	1246	11- 2
12	6.28	14	1258	11- 2
13	7.08	13	1308	11- 2
14	7.88	11	1329	11- 2
15	8.35	10	1337	11- 2
16	9.92	6.4	1348	11- 2
17	11.90	4.3	1400	11- 2
18	13.21	3.8	1415	11- 2
19	14.15	2.8	1044	11-15
20	15.50	3.4	1102	11-15
21	16.00	3.0	1118	11-15
22	18.00	2.4	1125	11-15
23	18.88	2.2	1130	11-15
24	19.80	1.8	1136	11-15
25	21.25	1.6	1147	11-15
26	22.10	1.7	1154	11-15
27	23.80	1.6	1227	11-15
28	24.10	1.4	1239	11-15
29	25.10	1.2	1247	11-15

Radial Inverse: 270 mV/m

WTKZ

YEAR: 1998
Non-D RADIAL 270.0

POINT	DISTANCE (km)	N-DA (mV/m)	TIME (EST)	DATE
1	0.50	400	1332	12-29
2	0.80	220	1350	12-29
3	1.10	200	1355	12-29
4	1.40	140	1402	12-29
5	1.70	90	1418	12-29
6	2.00	81	1430	12-29
7	2.20	68	1434	12-29
8	2.30	74	1456	12-29
9	2.70	54	1147	12-16
10	2.90	46	1155	12-16
11	3.88	34	1204	12-16
12	4.90	18	1288	12-16
13	6.80	12	1255	12-16
14	8.98	3.2	1316	12-16
15	10.01	6.2	1352	12-16
16	11.21	5.3	1435	12-16
17	12.28	6.4	0959	12-17
18	13.10	5.3	1037	12-17
19	14.20	4.0	1120	12-17
20	15.61	3.0	1134	12-17
21	17.20	2.6	1141	12-17
22	18.30	1.7	1150	12-17
23	19.80	1.5	1155	12-17
24	20.90	1.1	1202	12-17
25	21.70	1.1	1215	12-17
26	22.68	1.0	1225	12-17
27	23.70	0.88	1321	12-17
28	25.38	0.96	1300	12-17
29	26.80	0.57	1339	12-17
30	27.70	0.56	1329	12-17
31	28.50	0.54	1348	12-17
32	30.89	0.64	1405	12-17

Radial Inverse: 260 mV/m

JF&A
COMMUNICATIONS
CONSULTANTS

NON-DIRECTIONAL MEASUREMENTS

WTKZ
ALLENTOWN, PA
TABULATIONS

WTKZ

YEAR: 1998
Non-D RADIAL 315.0

POINT	DISTANCE (km)	N-DA (mV/m)	TIME (EST)	DATE
1	0.50	410	1210	12-20
2	0.80	280	1227	12-20
3	1.00	260	1236	12-20
4	1.20	190	1247	12-20
5	1.40	140	1312	12-20
6	1.60	130	1329	12-20
7	2.00	80	1410	12-20
8	2.40	60	1422	12-20
9	2.79	54	1447	12-20
10	3.20	50	1050	12-12
11	4.31	22	1101	12-12
12	4.80	21	1119	12-12
13	5.52	22	1041	12-12
14	7.32	5.6	1049	12-12
15	8.40	5.6	1054	12-16
16	10.65	4.9	1105	12-16
17	11.66	5.0	1121	12-16
18	13.08	3.8	1138	12-16
19	13.85	3.4	1204	12-16
20	14.46	3.3	1209	12-16
21	15.65	2.9	1215	12-16
22	16.30	2.2	1229	12-16
23	17.18	1.8	1239	12-16
24	18.00	1.5	1248	12-16
25	19.18	1.2	1257	12-16
26	20.05	1.4	1301	12-16
27	20.60	0.70	1306	12-16
28	21.65	0.96	1315	12-16
29	22.90	0.80	1322	12-16
30	24.10	0.96	1327	12-16
31	24.60	0.75	1340	12-16
32	25.50	0.72	1347	12-16
33	27.62	0.27	1357	12-16
34	28.90	0.30	1404	12-16
35	29.60	0.29	1412	12-16
36	31.65	0.29	1423	12-16

Radial Inverse: 270 mV/m

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NON-DIRECTIONAL MEASUREMENTS

WTKZ
ALLENTOWN, PA
TABULATIONS

WTKZ

YEAR: 1998
Non-D RADIAL 350.0

POINT	DISTANCE (km)	N-DA (mV/m)	TIME (EST)	DATE
1	0.50	420	1440	12-28
2	0.80	200	1451	12-28
3	0.90	260	1448	12-28
4	1.10	110	1459	12-28
5	1.25	160	1558	12-28
6	1.40	140	1511	12-28
7	1.70	92	1517	12-28
8	2.00	59	1523	12-28
9	2.08	74	1527	12-28
10	2.30	79	1533	12-28
11	2.58	53	1619	12-19
12	3.32	34	1627	12-19
13	4.15	42	1037	12-18
14	5.72	19	1140	12-18
15	6.65	17	1120	12-18
16	7.22	12	1151	12-18
17	8.15	14	1201	12-18
18	8.67	11	1208	12-18
19	9.50	11	1216	12-18
20	10.85	6.6	1243	12-18
21	12.10	5.4	1307	12-18
22	13.36	5.0	1316	12-18
23	14.80	3.3	1326	12-18
24	15.59	3.4	1336	12-18
25	16.70	1.2	1344	12-18
26	17.30	1.6	1351	12-18
27	18.00	1.9	1404	12-18
28	19.30	1.4	1421	12-18
29	20.40	1.1	1434	12-18
30	21.60	0.80	1447	12-18
31	22.40	0.80	1453	12-18
32	24.40	0.43	1504	12-18
33	25.90	0.38	1512	12-18
34	26.89	0.33	1520	12-18
35	30.90	0.22	1535	12-18

Radial Inverse: 270 mV/m

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