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April 21, 2016

Accepted/Files

APR 21 2016

Federal Communications Commission
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BY HAND DELIVERY

Marlene H. Dortch, Esquire
Secretary
Federal Communications Commission
The Portals
445 12th Street, SW, Room TWB204
Washington, DC 20554

Attention: Audio Division

Re: WWRC(AM)/Fac. ID #8681
Washington, D.C.

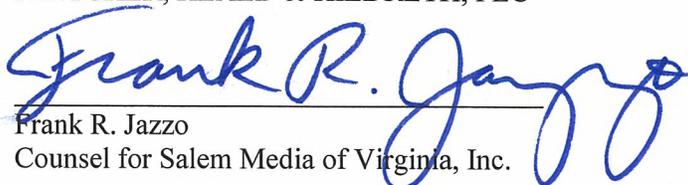
Dear Ms. Dortch:

Transmitted herewith, on behalf of Salem Media of Virginia, Inc., licensee of AM broadcast station WWRC, Washington, D.C., ("Salem"), pursuant to Section 73.68 of the FCC's Rules, is its notification of a modification to WWRC's sample system.

Should any questions arise concerning this matter, please contact this office.

Very truly yours,

FLETCHER, HEALD & HILDRETH, PLC


Frank R. Jazzo
Counsel for Salem Media of Virginia, Inc.

Enclosure



**ENGINEERING STATEMENT OF JAMES D. SADLER
IN SUPPORT OF A NOTIFICATION OF
MODIFICATION OF SAMPLE SYSTEM
STATION WWRC – WASHINGTON, DC
1260 kHz - 35 kW-D, 5 kW-N, U, DA-2
FACILITY ID: 8681**

Applicant: Salem Media of Virginia, Inc.

I am a Technical Consultant, an employee in the firm of Carl T. Jones Corporation, with offices located in Springfield, Virginia. My education and experience are a matter of record with the Federal Communications Commission.

GENERAL

Radio Station WWRC, Washington, DC, is licensed to operate on a frequency of 1260 kilohertz, on an unlimited time basis, with a daytime power of 35 kilowatts and a nighttime power of 5 kilowatts. The station utilizes different directional patterns for its daytime and nighttime operations (DA-2).

On March 30, 2016, contractors working on a sewer line for another tenant at the multi-use WWRC transmitter site damaged the sample line for tower #2. The capability to obtain a sample reading from tower #2 was lost. The daytime pattern relies on tower #2 for the reference signal and therefore the antenna monitor parameters for the



daytime directional antenna pattern could not be read. In the nighttime directional antenna pattern only the reading for tower #2 was lost. Following the damage to the sampling system, measurements were made by the undersigned to confirm the station was still operating within licensed tolerances. All measurements confirmed that both the daytime and nighttime patterns were operating normally and were fully compliant with the station's authorization.

The damage to the sampling line required the replacement of the tower #2 sample cable between the location of the damaged line and the antenna monitor. This office has been authorized by Salem Media of Virginia, Inc. ("Salem Media"), licensee of AM Station WWRC, to prepare this engineering statement and attached figures in support of a notification of modification of sampling system in accordance with Section 73.68 of the FCC Rules.

SAMPLE LINE REPAIR

The section of coaxial cable between the spot of the damage and the antenna monitor was replaced with a length of Andrew, Type LDF4-50A, phase stabilized, 1/2-inch, foam dielectric, coaxial cable. This is the same type as the damaged cable. The new cable was spliced on the existing cable and cut such that the combined electrical length of the line was equal to the electrical length of the sample lines for tower #1 and tower #3. The sample line measurements were performed by the undersigned using a Hewlett-Packard, Model 4396A, network analyzer, an ENI, Model 240L, power amplifier and a Tunwall Radio directional coupler.

VERIFICATION MEASUREMENTS

The daytime and nighttime directional antenna common point impedance, common point current, and monitoring points were all measured both immediately following the damage to the sampling system and after the sampling system was modified to correct the condition. Figure 1 is a tabulation of the measurement data taken prior to the modification of the sampling system while Figure 2 is a tabulation of the measurement data taken following the modification.

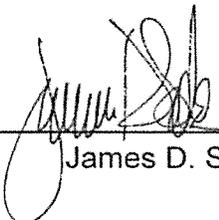
Although the antenna monitor parameters, following the modification to the sampling system, are slightly different than the licensed values it is believed that the difference is a result of normal expected variations and that the sampling system has been unaffected by the modification. Therefore, it is believed that the issuance of a new license authorization is not required.

SUMMARY

It is submitted that the sampling system of Station WWRC was modified and the daytime and nighttime directional antenna system are in proper adjustment, and in full compliance with the terms of the station's authorization.

This engineering statement and the attached figures were prepared by the undersigned or under the direct supervision of the undersigned and are believed to be true and correct.

Dated: April 20, 2016


James D. Sadler

**VERIFICATION MEASUREMENTS PRIOR TO
MODIFICATION OF SAMPLE SYSTEM
STATION WWRC - WASHINGTON, DC
1260 kHz - 35 kW-D, 5 kW-N, U, DA-2
APRIL, 2016**

Daytime Pattern

<u>Antenna Monitor Parameters - Actual</u>			<u>Antenna Monitor Parameters - Licensed</u>		
<u>Tower</u>	<u>Field Ratio</u>	<u>Phase</u>	<u>Tower</u>	<u>Field Ratio</u>	<u>Phase</u>
2	*	*	2	1.000	0.0
3	*	*	3	0.635	-168.3
Common Point Impedance (ohms)				50 -j 5	
Common Point Current (amperes)				27.1	
				<u>Measured</u>	<u>Licensed Maximum</u>
54 degree radial monitoring point (mV/m)				42.5	58.5
236 degree radial monitoring point (mV/m)				20.8	41.1

Nighttime Pattern

<u>Antenna Monitor Parameters - Actual</u>			<u>Antenna Monitor Parameters - Licensed</u>		
<u>Tower</u>	<u>Field Ratio</u>	<u>Phase</u>	<u>Tower</u>	<u>Field Ratio</u>	<u>Phase</u>
1	1.000	0.0	1	1.000	0.0
2	*	*	2	0.522	172.0
3	0.266	-104.7	3	0.265	-105.0
Common Point Impedance (ohms)				50 -j 7	
Common Point Current (amperes)				10.3	
				<u>Measured</u>	<u>Licensed Maximum</u>
52 degree radial monitoring point (mV/m)				2.46	3.8
198 degree radial monitoring point (mV/m)				55	115
280 degree radial monitoring point (mV/m)				2.13	4.53
325 degree radial monitoring point (mV/m)				41	63.5

* No indication due to sample system damage

**VERIFICATION MEASUREMENTS FOLLOWING
MODIFICATION OF SAMPLE SYSTEM
STATION WWRC - WASHINGTON, DC
1260 kHz - 35 kW-D, 5 kW-N, U, DA-2
APRIL, 2016**

Daytime Pattern

<u>Antenna Monitor Parameters - Actual</u>			<u>Antenna Monitor Parameters - Licensed</u>		
<u>Tower</u>	<u>Field Ratio</u>	<u>Phase</u>	<u>Tower</u>	<u>Field Ratio</u>	<u>Phase</u>
2	1.000	0.0	2	1.000	0.0
3	0.635	-167.7	3	0.635	-168.3
Common Point Impedance (ohms)				50 -j 6	
Common Point Current (amperes)				27.0	
				<u>Measured</u>	<u>Licensed Maximum</u>
54 degree radial monitoring point (mV/m)				43	58.5
236 degree radial monitoring point (mV/m)				21	41.1

Nighttime Pattern

<u>Antenna Monitor Parameters - Actual</u>			<u>Antenna Monitor Parameters - Licensed</u>		
<u>Tower</u>	<u>Field Ratio</u>	<u>Phase</u>	<u>Tower</u>	<u>Field Ratio</u>	<u>Phase</u>
1	1.000	0.0	1	1.000	0.0
2	0.523	171.9	2	0.522	172.0
3	0.265	-104.6	3	0.265	-105.0
Common Point Impedance (ohms)				50 -j 6	
Common Point Current (amperes)				10.25	
				<u>Measured</u>	<u>Licensed Maximum</u>
52 degree radial monitoring point (mV/m)				2.45	3.8
198 degree radial monitoring point (mV/m)				53	115
280 degree radial monitoring point (mV/m)				2.32	4.53
325 degree radial monitoring point (mV/m)				40	63.5