

## Compliance with Special Operating Conditions

The W292FG Construction Permit (File Number 0000115849) contains four Special Operating Conditions:

1. *Prior to commencing program test operations, FM Translator or FM Booster permittee must have on file at the Commission, FCC Form 350, Application for an FM Translator or FM Booster Station License, pursuant to 47 C.F.R. Section 74.14.*
2. *BEFORE PROGRAM TESTS COMMENCE, sufficient measurements shall be made to establish that the operation authorized in this construction permit is in compliance with the spurious emissions requirements of 47 C.F.R. Sections 73.317(b) through 73.317(d). All measurements must be made with all stations simultaneously utilizing the shared antenna. These measurements shall be submitted to the Commission along with the FCC application for license*
3. *Pursuant to Revitalization of the AM Radio Service, Notice of Proposed Rule Making, 28 FCC Rcd 15221, 15227, para. 14 (2013), and First Report and Order, 30 FCC Rcd 12145, 12154, para. 17 and n. 43 (2015), the permittee and any successor in interest (licensee, transferee, or assignee) shall be subject to the following restrictions: (1) this facility may only, in perpetuity, be used to rebroadcast the authorized facilities of the AM primary station set forth in this construction permit, except that it may also originate nighttime programming if the AM primary station set forth in this construction permit is not authorized regular nighttime service, and then only during periods of the broadcast day when the primary AM station is not regularly authorized to operate; (2) if the AM primary station is operating with reduced facilities, this cross-service FM translator facility may only operate if its coverage contour conforms to the limits set forth in 47 CFR Section 74.1201(g) as applied to the reduced facilities of the AM primary station; (3) the authorization for this facility may not be assigned or transferred except in conjunction with the primary AM station set forth in this construction permit; and (4) if the authorization of the AM primary station set forth in this construction permit is rescinded, revoked, surrendered, subject to special temporary authorization (STA) to remain silent, or is otherwise suspended from operation, the authorization of this cross-service FM translator station shall likewise be rescinded, revoked, surrendered, silent for the duration of the AM primary station's STA to remain silent, or suspended from operation. Minor modifications of this authorization are permitted, provided that the translator meets all of the preceding conditions. Grant of this authorization is conditioned on the common ownership, in perpetuity, of this facility and the specified AM primary station. Any violation of this condition shall result in the rescission of the grant of this authorization and the dismissal, with prejudice, of the associated application and, if applicable, cancellation of the associated construction permit.*

4. *This construction permit authorizes the mounting of an antenna on the nondirectional tower of the AM station identified below. During the installation of the antenna, the AM station shall determine operating power by the indirect method (see Section 73.51 of the Commission's Rules). Upon completion of the antenna installation, antenna impedance measurements on the AM antenna shall be made. If the resistance of the AM antenna has changed by more than 2 percent from the licensed value (see Section 73.45(c)(1) of the Commission's Rules), an application for the AM station to return to direct power measurement, including a tower sketch of the installation, shall be filed with the Commission by the AM station licensee using form FCC 302-AM. (See Section 1.30003 of the Commission's Rules.) The permittee must submit confirmation of completion of the requirements of this condition in the application for license to cover this construction permit. Station WGVA (AM) Geneva, NY.*

Geneva Broadcasting complies with, or agrees to, the condition as follows:

1. Form 350 is being filed prior to commencing program test operations.
2. Spurious Emissions Measurements have been done with the results of these measurements contained in Exhibit 1-A.
3. Geneva Broadcasting understands and agrees to abide with the W292FG FM Translator Authorization being perpetually tied to the WGVA(AM) authorization. Geneva Broadcasting also understands and agrees to abide by the stipulations specified in construction permit 0000115849 pursuant to the Notice of Proposed Rule Making, 28 FCC Rcd 15221, 15227, para. 14 (2013), and First Report and Order, 30 FCC Rcd 12145, 12154, para. 17 and n. 43 (2015)
4. Upon completion of the installation of the W292FG translator antenna system on the WGVA(AM) tower, antenna impedance measurements on the WGVA(AM) antenna were taken and submitted to the FCC by way of FCC Form 302-AM.

**FM Translator W292FG – Geneva, NY – Facility ID 200205**  
**Application for License to Cover Construction Permit**  
**(CP File No. BNPFT-20171208AAS, as modified in MOD-**  
**0000115849)**

The following measurements were taken on October 13, 2020 immediately following construction of FM Translator W292FG, authorized for operation on 106.3 MHz at the WGVA(AM) transmitter/main studio site in Geneva, NY.

The underlying construction permit permits use of a transmit antenna shared with FM Translator W214BR (Facility ID 93939) which operates at 90.7 MHz. To prevent undesired generation of intermodulation products, a Kintronic Laboratories Model FMC2X600W2C transmit combiner was installed between the respective transmitters and the transmission line running from the transmitter building to the antenna support structure. The narrowband FM isocoupler at the base of that structure (formerly in use by W214BR) was replaced with a Kintronic Laboratories broadband FM isocoupler capable of operation at both frequencies. No change in resistance of the WGVA antenna was detected following this modification.

Frequencies of potential third-order intermodulation products were calculated as follows:

$$(2 \times 90.7) - 106.3 = 75.1 \text{ MHz}$$

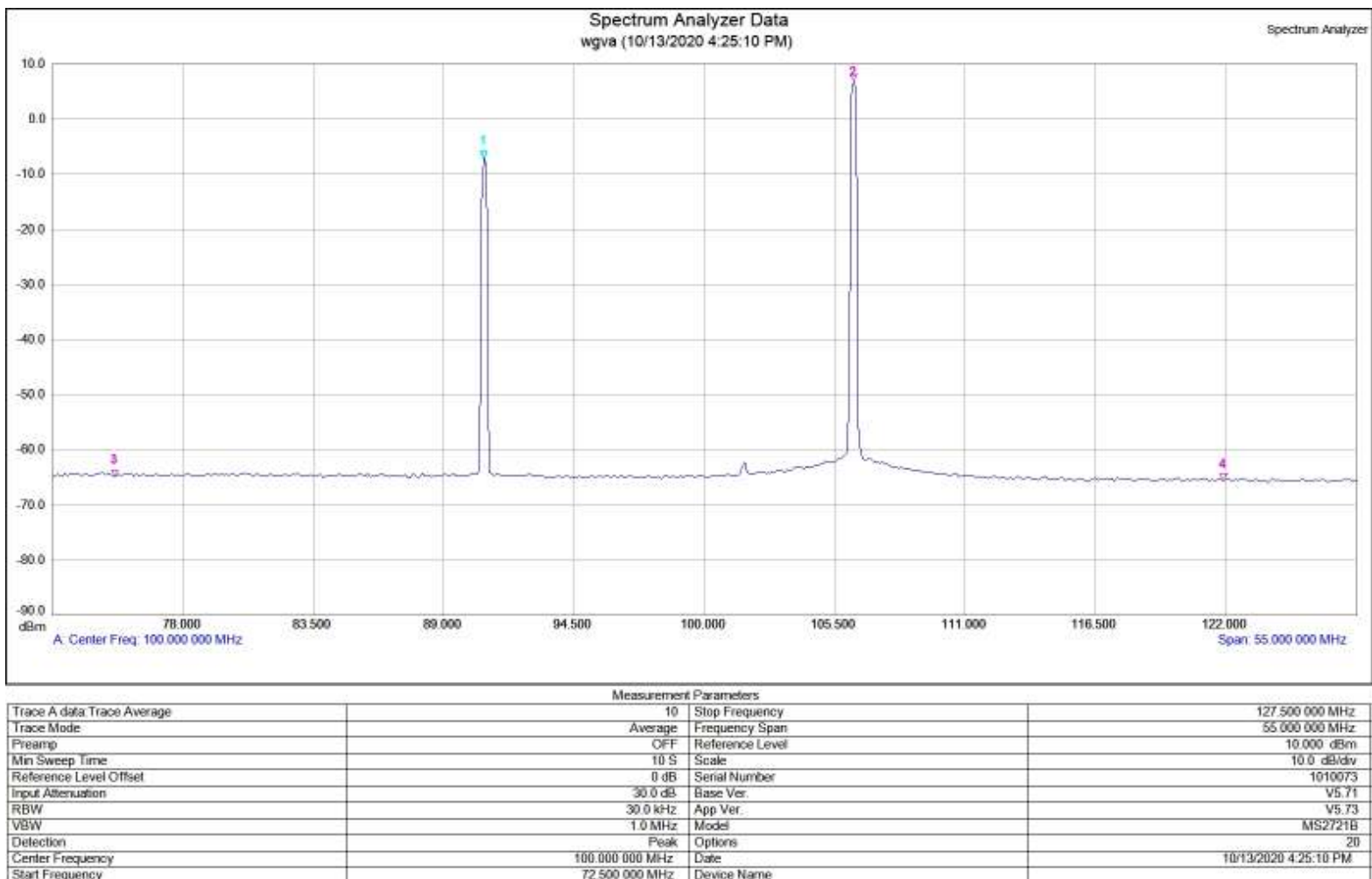
$$(2 \times 106.3) - 90.7 = 121.9 \text{ MHz}$$

With the W292FG and W214BR transmitters both operating at output levels sufficient to produce authorized effective radiated power, a sample of the combined signals was taken at a point between the transmit combiner output terminal and the isocoupler by use of a Bird "ThruLine" wattmeter with non-directional broadband sample element. This sample was fed to an Anritsu model MS2721B Spectrum Analyzer, on which markers were placed at each fundamental carrier frequency (Markers 1 and 2) and at the frequencies of the potential third-order intermodulation products (Markers 3 and 4). As shown in **Figure 1**, neither sampled third-order product exceeded -64.85 dBm. Relative to the +6.90 dBm sampled carrier of W292FG, the products are attenuated at least 71.75 dB, and relative to the -6.98 dBm sampled carrier of W214BR, the intermodulation products are attenuated at least 57.87dB.

47 CFR 73.317(d) requires a minimum attenuation of emissions on frequencies removed from the carrier by more than 600 kHz of 66.98 dB for 250 watt FM stations, and 53.0 dB for 10 watt FM stations; therefore, both translators are in compliance.

**Figure 2**, a sample of emissions with normal program material modulating the W292FG transmitter, demonstrates compliance with occupied bandwidth limits defined in 47 CFR 73.317(b) and (c).

Measurements taken on October 13, 2020 by Mark D. Humphrey, CPBE, with assistance from Alan Bishop, President of Geneva Broadcasting, Inc.



**Figure 1**  
**Sample of W214BR and W292FG Signals at Combiner Output**

Marker 1 at 90.7 MHz (W214BR Carrier) = -6.98 dBm  
 Marker 2 at 106.3 MHz (W292FG Carrier) = +6.90 dBm  
 Marker 3 at 75.1 MHz (Lower Third-Order IM Product) = -64.85 dBm  
 Marker 4 at 121.9 MHz (Upper Third-Order IM Product) = -65.56 dBm

Note: The small "bump" visible at 101.7 MHz is a received signal from WLLW, located 0.7 km east of the W214BR/W292FG antenna site.

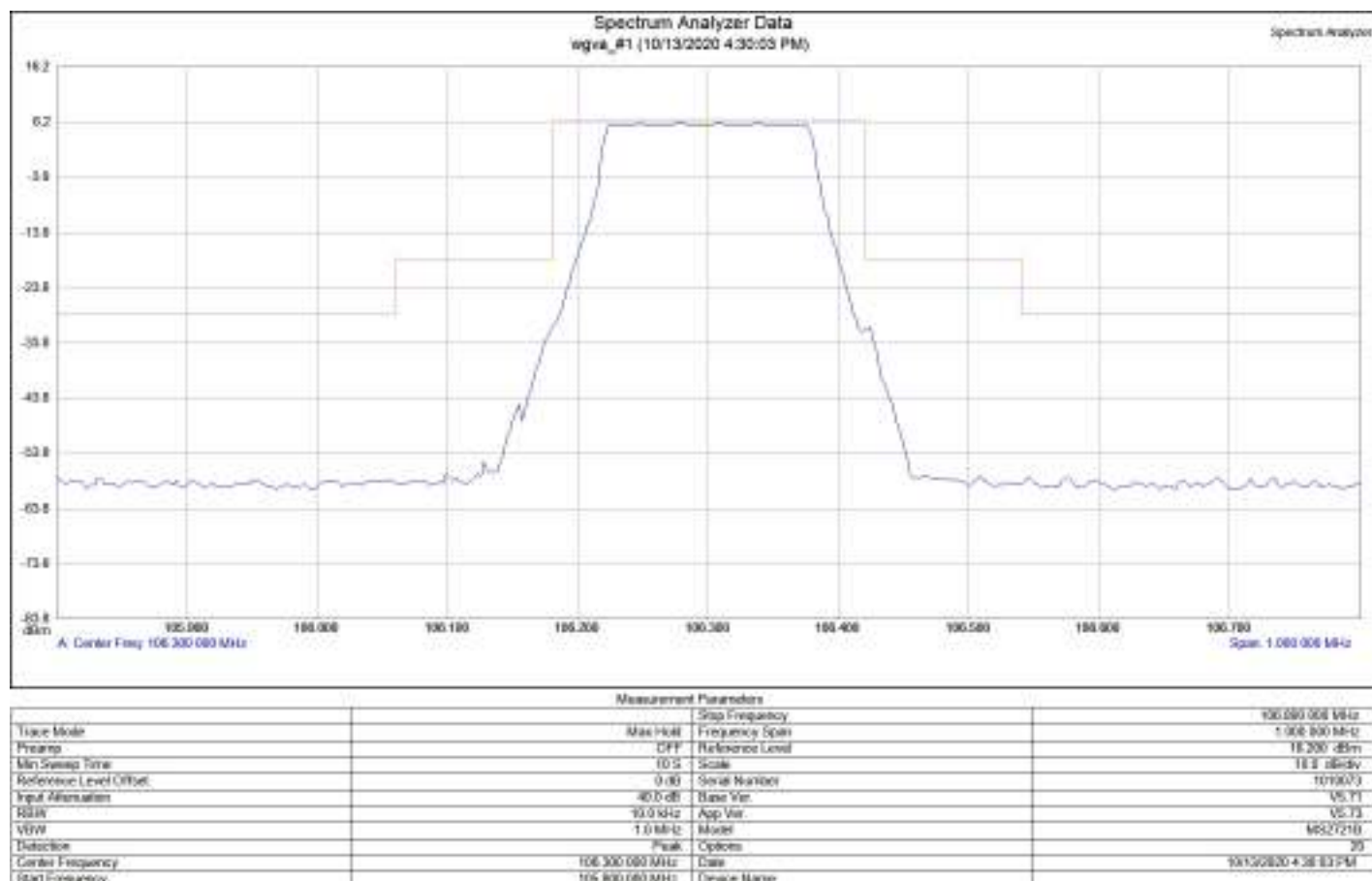


Figure 2  
Sample of W292FG Emissions over 4 minute period in Peak-Hold mode