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## DAB SUBCOMMITTEE IBOC DAB System Test Guidelines (Part I – Laboratory Tests)

### Addendum #3 NRSC broadcast chain - AM

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This addendum provides additional information regarding the NRSC broadcast chain (for the AM broadcasting service) which is referred to in Section 4 of the Laboratory Test Guideline.

A volunteer AM station, WCGA-AM, St. Simons Island, Georgia, was used to create the NRSC broadcast chain (AM) audio. Two types of materials were recorded through this broadcast chain – critical audio materials (described on pg. 39 of the lab test guidelines) and “long-form audio materials (described in Addendum #2 to the lab test guidelines).

Figures 1 (transmit) and 2 (receive) contain a hardware description of this station as set up for NRSC broadcast chain recordings. The audio processor settings used at the transmit site are given in Tables 1 (light – used for critical audio materials) and 2 (moderate – used for long-form audio). In Figure 3, a spectrum plot of the AM signal as received is given.

In addition, there are two appendices to this addendum. Appendix 1 is a description of the test procedure followed in the making of the broadcast chain recordings; Appendix 2 contains characterization data on the receiver used (data obtained during the 1995 EIA/DAR laboratory testing of DAB systems).