

170 DMR 200W PA Q&A 05 June 2012

- Q1.)** For the interoperability test, does the test article have to meet the specified form and fit of the required 200W unit?
- A1.)** No. Interoperability testing is to ensure the amp can communicate with the DMR; however, the proposed system must meet form, fit and function requirements as defined in the 200W PA Specification, Ship/Sub (Attachment 9 on NESI) and/or the 200W PA Specification, Shore (Attachment 10 on NESI).
- Q2.)** What are the characteristics of the amplifier load?
- A2.)** 50 ohms nominal load. The 200W PA Specification, Ship/Sub (Attachment 9 on NESI) and the 200W PA Specification, Shore (Attachment 10 on NESI) cover several requirements when the load is not 50 ohms.
- Q3.)** Is an antenna tuner part of the interoperability test setup?
- A3.)** No, these amps can be used with or without tuners and/or filters. The interoperability test setup will have a 50 ohm nominal load.
- Q4.)** Can you please provide the detailed SysCal procedure definition including input and output power settings?
- A4.)** Please see NESI documents: Attachment 1 on NESI, Document P40401M, Appendix C of DMR External RF Control Interface, Ethernet Messages. Paragraph 4.49 table item 26, SysCal Offset Data Field, and item 27, SysCal Status Data Field. Paragraph 5.3.44 is a description of the SysCal Offset Data Field. Paragraph 5.3.45 is a description of the SysCal Status Data Field. Attachment 2 on NESI, Document P43900J, Appendix W of DMR External RF Control Interface, Ethernet Message Details for PAs. Paragraph 3.6, Table 3, Status Response (page 15).
- Q5.)** I did not see an interface control drawing in the package for the 200W PA. The two drawings included were the 70-P45106G (Interface Control Drawing, DMR External 100W-A VHF/UHF High Power RF Amplifier) and 70-P45956F (Page 1 included of Installation Control Drawing, WITS 6004). Is there an ICD for the 200W PA?

A5.) Yes, the Interface control drawing has been uploaded to NESI. Please see Attachment 4 – Drawing No. 70-P45956F_XD_NESI.

Q6.) Will there be business opportunities with SPAWAR in the future for DMR 200W Power Amplifiers?

A6.) SPAWAR's future DMR 200W Power Amp requirements are not known at this time.