

1 Radio Report Guidelines

In order to avoid taking the final examination in this class, your team is required to successfully build and test the NorCal40a, and to submit a written report. This report should not exceed 5-pages in length, should be typeset, and should be submitted electronically to *brady@ece.neu.edu* no later than Thursday, April 15, 2004. Each team should submit only 1 report, with the names of the team members listed at the beginning of the document.

The report should address the three amplifiers in the transmit chain: the buffer, the driver, and the power amplifier. For each of these amplifiers, you are requested to draw the circuit, identify the type of amplifier (common emitter, source follower, etc.) and also to identify the amplifier class. Optionally, you could include other information, such as the input and output impedance of each amplifier. The gain of each amplifier should be computed.

The textbook is an invaluable source of material for this report. In particular, it is suggested that you review Chapter 1, and scan the problems at the end of each Chapters 1 through 11. Some of these problems provide helpful hints on the each component of the transmitter amplifier chain. Make sure that you cite references to the text in the report, including the page numbers.