

SECTION I

1.0 INTRODUCTION

1.1 General

This report contains data required for certification of the EMCEE Model TUA100FA UHF Television Power Amplifier. This amplifier, which will be manufactured in quantity, is intended for use with any type accepted 20 watt LPTV transmitter or 20 watt translator, particularly the EMCEE Models TTU20F and TU20F. Using two parallel LDMOS power transistors in a single amplifier module, the TUA100FA is rated to provide 100 watts peak visual and 10 watts average aural power on any specified UHF channel extending from 470MHz to 806MHz. The data contained in this report was obtained from tests performed on an EMCEE production unit having an output frequency of UHF channel 65 (776-782MHz) using a TTU20F LPTV Transmitter as its 20 watt driver. A complete list of the test equipment utilized to obtain the certification data can be found in Section 1.3 of this report. Information relating to the description, operation and maintenance of the amplifier can be found in the TUA100FA Instruction Manual. Information concerning the TTU20F transmitter, including modulators, may be found in its previously submitted type acceptance report (BMTTU20F Grant 1/22/96).