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July 21, 2026

Federal Communications Commission
Authorization and Evaluation Division

Class II Permissive Change Letter for FCC ID: 2A3P6MERCURYLITE

The original design utilized two (2) MRF300 LDMOS transistor devices. In the updated version, these have been replaced with a single ART700 LDMOS transistor.

It is important to note that the overall circuit design remains substantially unchanged. The modification is limited strictly to the replacement of the LDMOS device and minor adjustments to improve impedance matching. Specifically, capacitors C8 and C11 were removed to optimize the matching network for the new device characteristics.

No other changes have been made to the circuit topology, operating conditions, or performance parameters. The amplifier maintains the same output power level and general behavior as the original design.

In summary, this update consists solely of the substitution of the LDMOS transistor, along with minor passive component adjustments for proper impedance adaptation.

Sincerely,

Kenny Martinez
President