UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT TRIAL AND APPEAL BOARD

UNION ELECTRIC COMPANY,

Petitioner,

v.

BIRCHTECH CORPORATION,

Patent Owner

Case: IPR2025-01323
Patent 10,589,225

POWER OF ATTORNEY PURSUANT TO 37 C.F.R. § 42.10(b)

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In accordance with 37 C.F.R. § 42.10(b), patent owner and real party in interest, Birchtech Corp., having a principal place of business at 1810 Jester Drive, Corsicana, TX 75151, hereby appoints:

Lead Counsel	Hamad M. Hamad (Registration No. 64,641)
Back-up Counsel	Justin T. Nemunaitis (*Pro Hac Vice* forthcoming)
Back-up Counsel	Richard A. Cochrane (*Pro Hac Vice* forthcoming)
Back-up Counsel	Eric Horsley (Registration No. 81,795)

as its attorneys, to act on its behalf in the *Inter Partes* Review of U.S. Patent No. 10,589,225, with full power to appoint an associate agent, and to transact all business before the United States Patent and Trademark Office in connection therewith.

Lead and back-up counsel's contact and service information is provided below:

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I have authority to sign this document on behalf of Birchtech Corp.

Date: August 8, 2025

Respectfully submitted,

By: _____

Name: Richard MacPherson
Title: CEO
For Birchtech Corp.