To Whom It May Concern:

Cornami, Inc., a US-based, Committee on Foreign Investment in the United States (CFIUS)-approved, Delaware Corporation, is collaborating with Ryan Coffee, PhD, Sr. Staff Scientist at SLAC National Accelerator Laboratory (SLAC) to define a methodology to perform secure and geographically distributed large device physics experimentation within the US Department of Energy (DoE) using untrusted data centers and untrusted network links. This methodology leverages:

1. Cornami’s expertise in Fully Homomorphic Encryption (FHE), a lattice-based, Post Quantum Cryptography (PQC) cipher that allows unrestricted computation to performed on encrypted data with results encrypted in the same way,
2. Cornami’s forthcoming semiconductor products that scale the acceleration of FHE computations,
3. Existing quantum secure Transport Layer Security (TLS) protocols and existing quantum resistant Advanced Encryption Standard-256 (AES-256) ciphers, and
4. Ryan Coffee’s desire to demonstrate the efficacy of this methodology by leveraging Cornami products and technology to perform secure and distributed physics experimentation using sensor results from the SLAC linear accelerator, untrusted Wide Area Network (WAN) links, and untrusted data center facilities at the Oak Ridge National Laboratory.

The success of this collaboration will provide a quantum resistant / secure methodology to enable increased secure access and utilization of DoE geographically distributed assets to address DoE open and classified mission goals.