STATEMENT OF WORK

1. **Objective/Requirements**
   NASA Langley Research Center (LaRC) has a requirement to renew ETAP Software maintenance.

2. **Characteristics, Scope, and Specs**

QTY	Description
1	ETAP Software Maintenance Agreement Upgrade & User Support Agreement Annual Maintenance consists of program upgrades, updates, technical support and engineering support. • Base Module Multi-Dimension Digital-Twin Platform, Revisions, Libraries, Wizards • IEEE, ICEA, NEC Cable Ampacity & Sizing - IEEE, ICEA, NEC • Load Flow, AC Power Flow, 3-Phase & 1-Phase Systems, Voltage Drop, Result Analyzer • Panel Schedule Schedules, Calculations, 3-Phase, 1-Phase, NEC, IEC • Renewables Wind Turbine Generator, PV Array - PV Pro, Controls, Libraries, Profiles • HVDC Control Schemes, Dynamic Modes, Rectification, Inversion • NetPM Network/Cloud Project Modeling & Management, Centralized, Simultaneous Users • Short Circuit, AC ANSI & IEC, Balanced 3-Phase & 1-Phase, Duty Evaluation, Analyzer • GIS Interface GIS Interface (Requires Intelligent Geospatial Diagram) • Arc Flash, AC IEEE 1584 2018 & NFPA 70E 2021 - Analyzer, Work Permit, Safety Labels • ArcFault 15kV & Above, OSHA 1910 Appendix E, LG, LL, 3-Phase Arc Faults • Arc Flash, DC Max Power, Stokes & Oppenlander, Paukert, NFPA 70E 2018 • Star Protection, Selectivity, Sequence of Operation, Protective Devices • Motor Starting Dynamic & Static, Seq of Op, Scripts, Result Analyzer • Harmonics Harmonic Load Flow, Frequency Scan, Harmonic Filters & Sizing • Cable UG Thermal UG Raceways, Direct Buried, Neher-McGrath, IEC 60287 • Short Circuit, DC System Faults, Device Duty Evaluation, Reports, IEEE 946 • Transient Stability Dynamics, Inrush, Short & Long-Term, Analyzer

	• Motor Param Est. Induction Motor Parameter Estimation & Tuning, Nameplate, Characteristic Data • Load Flow, UB Unbalanced Power Flow, AC Networks, 3-Phase & 1-Phase • Opt Power Flow Optimize Power Flow, Energy Costs, Fuel Costs, Security Indices, Power Exchange • GIS, Elect. Intelligent Geospatial Electrical One-Line, Network Wide, Incremental Updates • DataX, Excel Import / Export MS Excel - Global Data Changes, Consistency Checks, Create Reports

3. **Place of Performance**
   NASA, Langley Research Center

4. **Period of Performance**
   09/01/2026-09/01/2027