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***PC Krause and Associates, Inc.***

***Engineering, Modeling, and Software Solutions for Integrated Power, Thermal, and Propulsion Systems***

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***Purdue Research Park***

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***MISSION***

To cost-effectively transition new power, thermal, and propulsion technologies and capabilities to the war-fighter through the use of advanced modeling, simulation analysis, and rapid prototyping techniques and collaboration with universities, government laboratories and leading component, system and platform manufacturers.

***APPROACH***

Develop solutions (new technologies) to address existing challenges or growth requirements for power and thermal systems and transition these solutions to the component, system, or platform manufacturers for production.

***VALUES***

For successful technology transition involving integrated systems, PCKA must closely work with numerous companies. Therefore, PCKA’s paramount objective is to protect the intellectual property of the collaborating organizations while creating an environment that enables system optimized solutions. PCKA has developed technologies and procedures that facilitate such collaborations enabling rapid design, analysis, testing, and fielding of new technologies.

***CORE COMPETENCIES***

***Engineering***

PCKA’s expertise is in the design, modeling, analysis, control, and development of dynamic electromechanical systems with particular emphasis on power-electronic-based systems of the types to be found in modern aircraft, ships, and ground vehicles.

***System Integration / Optimization***

PCKA has been actively involved in cutting edge integrated systems design and optimization for next generation airborne platforms. For example, PCKA led the development and implementation of an virtual system integration and optimization facility involving 12 companies and two government organizations.

***SERVICES***

***Engineering Services***

PCKA’s Engineering Services Division develops and transitions state of the art technology commonly found only in academic research environments to meet the needs of government and industry programs. PCKA personnel are currently involved in a wide variety of activities related to system integration and subsystem design activities including the development and demonstration of high-power, high-efficiency power supplies, high-temperature electro-mechanical actuation systems, high-temperature electric machines, prognostics and health management techniques in aircraft generation systems, high-performance heat exchangers, and advanced motor control techniques.

***Computer Services***

The Computer Services Division provides research and development of tools and simulation technologies necessary to conveniently analyze and optimize the engineering challenges identified by the Engineering Services Division and supports the commercial deployment of developed software for any products which are deemed to have sufficient market interest. PCKA currently markets multiple software technologies: FastSim, ASMG, DHO, ATTMO-Sphere, and the Navy High-Heat Flux Toolbox.

***PRODUCTS***

***AC-field Electrical Starter Generator***

Add.

***Electrical Prognostics Integrated Diagnostics System (EPIDS)***

Add.

***Navy High Heat Flux Toolbox***

Add.

***CUSTOMERS / MARKETS***

PCKA supports several programs and research initiatives for several government agencies and numerous industries. The company has a well established reputation for solving engineering challenges through the use of advanced modeling, simulation, analysis, and control techniques.

***COMPANY PROFILE***

PC Krause and Associates (PCKA) was incorporated in the state of Indiana in 1983 and presently has offices in the Purdue Research Park in West Lafayette, Indiana, Indianapolis, Indiana, and Dayton, Ohio. PCKA has grown to over a $10M annual business with more than 50 professionals, including 23 full-time PhD’s. This forms one of the largest high-tech groups in the US dedicated to research/development of solutions to dynamic electromechanical engineering systems.

***THE PCKA ADVANTAGE***

* On-time, on-budget solutions
* Establishes unique relationships in working with our customers and collaborating organizations
* Works closely with the targeted transition firms
* Integrates both tools and services for optimal solutions