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New Version of the Agile Engineering Design System® Released

Continues Focus on Improving Turbomachine Performance and Lowering Manufacturing Costs for Our Global Clients

White River Junction, VT, USA – November 30, 2016 — Concepts NREC, the world's leading turbomachinery software, design, development, testing and manufacturing company is proud to announce the release of version 8.5 of its Agile Engineering Design System®. The Agile Engineering Design System is an integrated suite of software for Computer Aided Engineering (CAE) and Computer Aided Manufacturing (CAM) that is specialized for turbomachinery. Version 8.5 includes new capabilities which enable our global customer base to design and manufacture higher performance turbomachinery in less time. Concepts NREC is unique in offering both CAM and CAE software. Each software module can be used independently and the entire suite is tightly integrated to ensure the seamless transfer of data. This integration allows users to optimize designs, based on the impact to cost, machining time, and performance.

A key feature of the 8.5 CAE release is the integration of the FINE™/Turbo CFD tools from NUMECA International into the Agile Engineering Design System. With this new release, designs created in AxCent®, Concepts NREC's 3-D detailed design module, can be analyzed with the NUMECA tools with just the push of a button. The embedded NUMECA technology will deliver an order of magnitude speedup in CFD, as well as the ability to analyze unsteady flows and arbitrary geometry with unstructured meshes. This means the CFD analysis capability can keep pace with the ever increasing advanced geometry capabilities of AxCent and allow users to push the limits of performance and reliability. Other highlights of the release include new design capability for casing treatments and other non-primary flow path geometry.

MAX-PAC version 8.5 has many new features for improved modeling, path generation, and workflow. New functions help to support advanced fillet and hub shapes, and version 8.5 also now provides deburring operations. Toolpath orientation during five-axis roughing has also been improved, along with new controls for cutter feeds. There is now a new optional module for 3-axis roughing that can be applied to impellers, blisks, and shrouded wheels. This new high-speed-milling strategy is particularly suited for larger components.

"This is a very powerful new release," said Dr. Peter Weitzman, Vice President of Software at Concepts NREC. "All of these new features originated from our balloting process. This helps us ensure each release is exactly what the market needs. Customers who upgrade to version 8.5 will be able to improve machine performance, reduce manufacturing cost and complete their designs in less time."

The new release is available immediately to users on active Agile Product Support (APS).

About Concepts NREC

For over 60 years, Concepts NREC has been a strategic partner to many of the world's leading turbomachinery companies. We are the only company in the world that offers a complete in-house solution from initial concept through design, manufacturing, testing and installation.

About the Agile Engineering Design System

Concepts NREC's Agile Engineering Design System® is a complementary suite of programs for Computer-Aided Engineering (CAE) and Computer-Aided Manufacturing (CAM) that covers the entire design process — from preliminary sizing through fluid dynamics and mechanical stress and vibration analysis. Final designs can be easily imported into our industry-leading CAM software, MAX-PAC™, to create efficient 5-axis machining strategies.

About NUMECA International's Software

Based on the most advanced technology, NUMECA software is largely recognized for its application-driven simulation software, optimal solutions, multi-physics models, high accuracy, speed and general user friendliness. NUMECA provides innovative technology and models in response to specific industrial requirements, used for the simulation of fluids, acoustics, thermal and fluid/mechanical coupled systems in a wide range of applications. Customer satisfaction is our main objective, and we continuously improve our software and services to turn your product design into a real success for your organization. To learn more, visit www.numeca.com.

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