RMS MANUFACTURERS NEW FT4 ROTOR BLADES

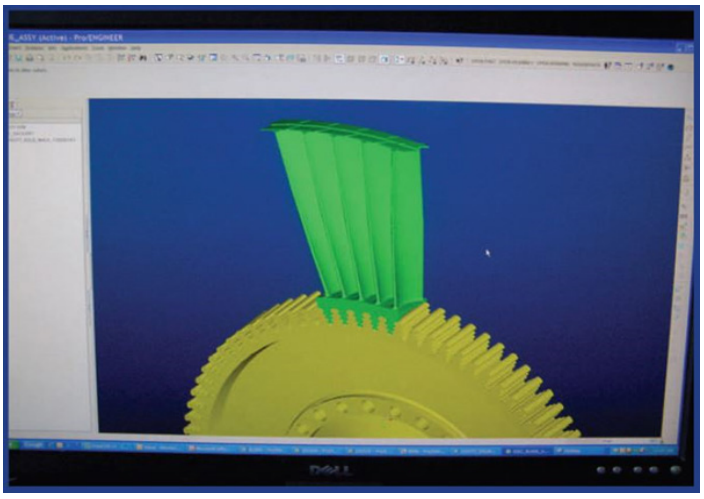
By Richard Pittenger

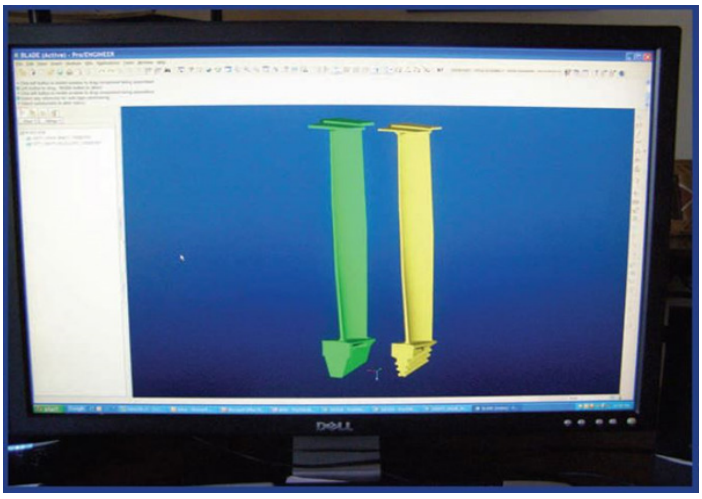
RMS was recently awarded a contract by a major domestic utility to provide spare FT4 Rotor Blades. Combining the use of traditional inspection techniques such as height gages, micrometers, and calipers, RMS incorporated the newest reverse engineering methods such as high accuracy laser scanners, 3D modeling software, FEA analysis software, and prototype modeling creation whenever possible.

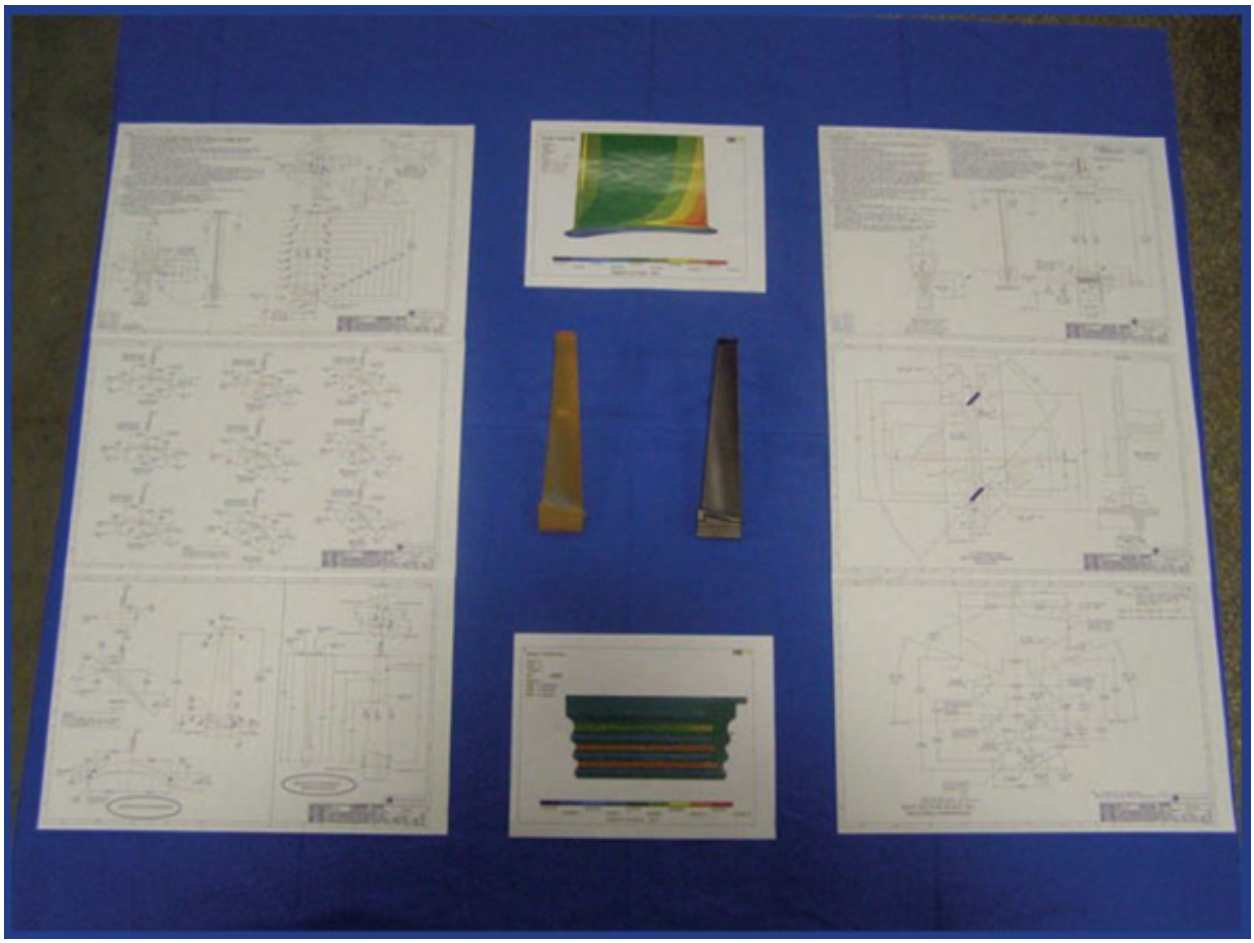
To ensure the form, fit, function and integrity of the replacement FT4 Rotor Blades, the existing blade was first scanned using a high accuracy CMM mounted laser scanner accurate to 0.001". The scanned data was then used to create a Pro-Engineer 3D solid model. This model was then used to create Stereolithgraphy (SLA) prototype part made from a resin compound, accurate to within 0.002" of the original scanned part.

The benefits of the 3D model, however, do not stop there. Information is extracted from the model for any necessary FEA analysis, creation of corresponding 2D Casting and Machining drawings, and eventually is forwarded to our casting and machining vendors for their use in tooling and inspection gage creation.

Modern capabilities, proven experience, dedication to a superior product, just a few way RMS is focused on "Quality from start to finish".







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