

Systems Design and Manufacturing Demonstration Wing Team

The future is here for our team. We just created the wings for Boeing airplanes that have yet to be imagined. We've been working on an exciting advanced technology wing program in conjunction with the U.S. Navy. We pooled some of the best talents of Phantom Works and the Advanced Systems unit of Integrated Defense Systems to design a hybrid demonstration wing made of advanced composites and metals. The goal was to reduce traditional manufacturing and assembly costs by 25 percent. We not only reached that objective, but we also achieved efficiency and quality breakthroughs in our autoclave fabrication of composites, additive manufacturing of metallic components, and advanced assembly technologies. We are proud to be working as a one-company team on the kind of technologies that other people only dream about. We were asked to find a way. And we did.

From left to right

Don Drouin

Technology Integrator, Advanced Systems, IDS Jim Piszar

Jim Pispar

Manufacturing Engineer, Phantom Works

St Isle Tim Tyahla Project Manager,

Phantom Works

Dave Heck

Design Engineer and Associate Technical Fellow, Phantom Works Robin Wypiek Derhait Robin Wippich-Dienhart

> Strength Engineer, Phantom Works