

PSStech

Guarding the Grid.

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PSStech is an engineering services and manufacturing company located in Warrior, AL. Born out of a need to protect the nuclear industry, PSStech was founded to provide nuclear generating stations with open phase protection (OPP). After the January 30, 2012 open phase event at Exelon's Byron Unit 2, open phase fault detection has since been at the forefront of protection concerns. The PSStech Open Phase Protection System, based on collaborative research performed with the Electric Power Research Institute, Inc., can be used to detect, alarm, and actuate in response to single and double open phase conditions in the offsite power circuit(s).

Since that time, the PSStech OPP System is employed in protecting nearly 40% of the US nuclear generating capacity. With sys-

tems installed in 23 plants, protecting 39 units, the PSStech OPP system is the leader in the industry in open phase protection. Our one-of-kind analog OPP System is impervious to cyber security attacks and was designed solely by PSStech.

Our mission is to solve our customer's most challenging technical problems with integrity by providing reliable, cost-effective solutions.

Building on our success with the OPP System, PSStech provides the following products and services:

Obsolescence

Part obsolescence is a serious issue for both the nuclear power industry and the manufacturing community. In particular,

the obsolescence of electronic components is a serious challenge for the industry, and the severity of this problem is likely to increase. PSStech has responded to this challenge vigorously with an approach to provide obsolescence management that covers all aspects of the product life cycle, from design to production, to in-service support. This approach is based on best practices held throughout the industry to ensure the lowest-cost solution for our clients. We provide complete project management and engineering support ranging from identifying the obsolete component, through engineering the solution, to dedication and acceptance testing.

Reverse Engineering

As a full-service facility, PSStech is equipped to take your obsolete design and reverse engineer a solution. Our industry leading design and fabrication team offers the following:

- Analog designs to replace digital solutions
- One-for-one updated analog replacements
- Restoration of damaged or worn components
- Manufacture of critical spares
- 3D prototype development and evaluation
- 2D and 3D drawing and technical documentation
- Prediction of reliability and life cycle analysis
- Qualification and compliance testing

Design, Prototype, Manufacture and Fabricate

PSStech provides design, prototyping, manufacturing and fabrication services. PSStech personnel are highly trained and motivated to provide industry leading system designs and builds.

PSStech's Manufacturing/Prototyping Services include:

- Milling, Turning, Cutting
- Prototype development
- Full 2 to 5-axis toolpath generation and post-out for in-house or outside designs utilizing CAM programs w/Drilling, Cutting, Milling, & Turning
- CAD drawings for necessary descriptive manufacturing and GD&T communication requirements
- Computer Aided Engineering & Analysis for parts and assemblies
- Industry leading protection system builds of both non-safety and Safety Related designs for the nuclear industry.
- Metal & Composite 3D printing capabilities



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Manufacturing Services



Obsolescence Services



Engineering Services



PM Services



Open Phase Protection



Reverse Engineering

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