



# FAB SHOP

## FACT SHEET



### Overview of Fabrication Operations

KAYA's Fabrication Facility located in North Charleston, SC provides a full-service fabrication and manufacturing center for all of the needs of our DoD and Commercial customers. With in-house design, fabrication, and installation capabilities we cover projects from initial concept to physical installation. We design and fabricate towers, platforms, radome rings, metal cabinetry and custom mounts, to name just a few. We have on-site capability for form, fit, and function acceptance procedures to ensure that your product is installed and fully functional at the outset.

Our Fabrication Manager has over 25 years defense contracting and commercial experience in multiple design, fabrication, and production fields, including Structural, Ornamental, and Metal Cabinetry.

In an effort to ensure the highest quality of services and products, we are guided by ISO 9001:2000 standards and are currently pursuing certification.

### Representative Projects

Recent projects include work for the US Navy, fabricating two 55-foot AN/TPS-75 Air Search Radar Towers as well as the steel radome ring mounts.

KAYA has designed, fabricated, and developed special items that are needed to support the installation phases for Army Air Traffic Control facilities. We have developed design and fabrication specifications to produce and deliver custom cabinetry, mounting assemblies, cabling/wiring harnesses, and hardware to the site for installation.



EOE/MFDV

### Fabrication and Manufacturing Equipment

- A Flow I-6012 IFB Waterjet Cutting System, with the capability to cut material up to 6" thick in a 6' x 12' work envelope maintaining a linear positional accuracy of +/- 0.003 in. and a repeatability of +/- 0.002 in.
- 10' – 125-ton CNC hydraulic press brake, with multiple punches and dies to satisfy a wide range of bending needs
- 10' x 3/8" plate shear
- 65-ton ironworker
- Multi-process certified welders for all thicknesses, in G3 and G4 positions
- 25' x 15' certified updraft paint booth, providing the finest quality finishes. We will be expanding soon to include anodized finishes

### Welding capabilities

- TIG (GTAW)
- MIG (GMAW)
- Stick (SMAW)
- Flux Cored (FCAW)
- Submerged Arc (SAW)
- Plasma Arc Cutting
- Resistance Spot
- Gouging



### **AN/TPS-75 3D Air Search Radar Tower/Platform**

On 17 November 2008 KAYA was awarded a contract from Serco, Inc. of North Charleston, South Carolina to fabricate and erect two 55-foot AN/TPS-75 3D Air Search Radar Tower/Platforms. The AN/TPS-75 is a 3-dimensional search radar that can be disassembled, packed, and transported. The two towers are in support of Serco's contract with the Space and Naval Systems Center, Charleston (SPAWAR), and will be shipped to locations to support U.S. military efforts.

KAYA was tasked with fabricating and erecting these towers for form, fit, and function acceptance within an aggressive 45 "calendar" day timeframe—a timeframe more in keeping with the fabrication and erection of one tower. The towers were designed 55 feet in height and 21 feet square to enable them to withstand 150 MPH winds, allowing them to be versatile enough to be used in harsh environments and extraordinary conditions. Despite the accelerated timeframe, the towers were completed within the contract terms and schedule.

