***Angle of Attack Reverse Engineering Effort***

**Statement of Objectives (SOO)**

Agreement: TBD

Project: FY.22

Agency: Department of the Air Force   
Office: Air Force Materiel Command   
Location: Identify Center and Directorate or Wing

1. **Purpose**

This Statement of Objectives (SOO) identifies the broad, basic, and top-level objectives of the Angle of Attack Reverse Engineering Effort Prototype and will be used as a focusing tool for both the Government and offerors. This SOO is supplemented by the Angle of Attack Reverse Engineering Effort Prototype Project Deliverables.

1. **Program Background**

These Angle of Attack detector probes (NSNs 6610-01-234-9098 (Analog), 6610-01-289-9650 (digital right), and 6610-01-289-9649 (digital left) have been provided by a single source for quite some time. That source has continuously raised the prices and has been failing to deliver. Because of these NSNs being sole sourced, much of the technical data is proprietary. This is why we’re attempting to pursue the OTA route and are hoping to be able to qualify a new source through this reverse engineering initiative to increase competition and return prices to a reasonable standard.

1. **Objectives**

The following is an outline of the objectives of the Angle of Attack Reverse Engineering Effort Prototype. These are the minimum objectives that must be met for the program to be considered successful. The objectives shall be delivered in accordance with the supplemental document titled Angle of Attack Reverse Engineering Effort Prototype Project Deliverables.

* Successfully reverse engineer the above NSNs to meet proper form, fit, and function in the Next Higher Assembly (NHA)
* Reduce cost per item to the Government
* Increase competition among suppliers
* Documentation of new designs with appropriate data and drawings that will be delivered to the Government with associated data rights
* Testing to validate and verify that new designs and manufactures perform the same as current probes
* Deliver fully-qualified probes and design documentation

1. **Acronyms**

* AoA – Angle of Attack
* NHA – Next Higher Assembly

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1. **Reference Library (***include any regulations, instructions, technical orders applicable)*

Drawing for PN 123-1182

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