**Project Title: Software Title (ACRONYM)**

**Software Description & NASA Software Engineering Classification**

**Technical Point of Contact**

Provide the name and email address of the person who knows the most about the software.

**Introduction**

What motivated the creation of the software and how does this software address the problem?

**Applications and Scope**

Where will the software be used, and to what extent?

**Capabilities**

What can this software do, how has it improved the way work is performed and decisions are made?

**Interfaces**

What languages does it use, how do the users actually interface with the end product?

**Assumptions, Limitations, & Errors**

This is where limitations of the theory, model, science, etc should be briefly documented? If the tools only work for a specific scenario, say so.

**Additional Information**

**Software Classification & Justification**

This software is considered to be Class E software per NPR 7150.2.

This software is used to:

* + Perform minor desktop analysis of science or experimental data.

The software is not used to:

* + make decisions for an operational Class A, B, or C system or to-be built Class A, B, or C system
  + support engineering development
  + test other Class D software systems
  + support mission planning or formulation
  + operate a research, development, test, or evaluation laboratory
  + provide decision support for non-mission critical situations
  + in a Major Engineering/Research Facility
  + perform research associated with airborne vehicles or systems

The software will not:

* + operate, directly support, or be flight qualified to support an operational system
  + be used in technical decision concerning an operational system
  + directly affect primary or secondary mission objectives
  + adversely affect the integrity of engineering/scientific artifacts
  + have an impact on operational vehicles

Additionally, if the software had anomalous behavior, that behavior would not cause or contribute to a failure of a system function:

* + resulting in a minor failure condition for the airborne vehicle
  + with an effect on airborne vehicle operational capability or pilot workload

When these criteria are no longer valid, categorization/classification will be reevaluated and the project will start following the procedures for the higher class.

**Not Safety Critical**: The software does not:

* Reside in a safety-critical system with at least one of the following being applicable to the software:
  + Causes or contributes to a hazard
  + Provide control or mitigation for hazards
  + Controls safety-critical functions
  + Processes safety-critical commands or data
  + Detects and reports, or takes corrective action, if the system reaches a specific hazardous state
  + Mitigates damage if a hazard occurs
  + Resides on the same system (processor) as safety-critical software
  + Process data or analyze trends that lead directly to safety decisions (e.g. determining when to turn power off to a wind tunnel to prevent system destruction)
  + Provide full or partial verification or validation of safety-critical systems, including hardware or software systems