

HOSIP At A Glance

Quality Assurance

Stage 1 - Collection & Validation

Purpose: Articulate a Need then Validate & Tie it to the Mission

Deliverables: **Statement of Need (SON)** - Documents Need, Objective, & Potential Solution(s)
Ties Need to Mission, Identifies Sponsor(s), Stakeholders & Drivers, and OHD Core Goals
SONs May Be Hierarchical or Stated for Umbrella Projects

(Projects Requiring Significant Resource Investment By Other Organizations Will be Redirected to OSIP at this Point)
(These Projects Will first Proceed Through HOSIP Gates 1 & 2 then to OSIP Gates.)

Stage 2 - Concept Exploration & Definition

Purpose: Identify Proposed Solution, Research Approach & Define Operational Requirements

Deliverables: **Concept of Operations (CONOPS)** - Documents Current and Proposed Environment
Presents Conceptual Solution & Alternatives
Presents User Functional Requirements and AWIPS Training Requirements
Project Plan or Science Research Plan - Plan & Approach to Accomplish Next Stage
(Est. Resources & Hours), Presents Initial Risk Assessment, Assumptions & Constraints
Addresses How AWIPS & Training Impacts Will be Completed & Vetted

AWIPS Projects to Combine OSIP Gates 1 & 2

Purpose: Project Goes to OSIP for Review, Approval & Redirection to SREC (R & D Projects Only)

Deliverables: HOSIP CONOPS & Project Plan Are Inputs to OSIP

Stage 3 - Applied Research & Analysis

Purpose: Perform Research, then Refine Solution Requirements or Independently Validate the Science

Deliverables: **Research Papers** and/or **Algorithm Description** - Document Research & Results
- Document Science if Appropriate
Concept of Operations (CONOPS) - Finalized
Finalized/Decomposed Operational & Technical Requirements
Project Plan - Plan to Accomplish Next Stage (Est. Resources & Hours)
Finalized Risk Assessment and Schedule
Test Plan - Documents Approach & Methodology for Testing the Software
Optional: Other Systems or Project Required documents

Stage 4 - Operational Development

Purpose: Design, Develop, Test, Integrate & Document Solution

Deliverables: **Updated CONOPS** - Finalized & Decomposed Technical Requirements
Design Specification - Documents How to Implement Requirements
Finalized Test Plan
Test Procedures - Documents specific instructions on how to test the software
Copies of All Final System or Project Specific Documents, Reports etc. e.g. ,
Test Result Report, User/ System Manuals, Installation Instructions, Application Review, Code/Peer Reviews, Integration Readiness Review (IRR) Handoff Checklist

Stage 5 - Deployment

Purpose: Operate & Maintain Solution

Deliverables: Deficiency/Change Requests
Performance Reports

Gate 1 Review

Gate 2 Review

OSIP Gate 1 & 2 Review

Gate 3 Review

Gate 4 Review