|  |  |  |
| --- | --- | --- |
| **Program Name:** | |  |
| **Prepared:** |  | |

|  |  |  |
| --- | --- | --- |
| **#** | **At this point the program should have documentation to show:** | **Y/N/NA** |
|  | An agreement on the preferred system concepts to take forward into Technology Development |  |
| If **NO**, please explain: | |
|  | An assessment of the full system software concept to include conceptual definition of the complete deliverable and non-deliverable software, scope, and risk (e.g., operational software elements, software engineering environment, test software, maintenance software, simulation and stimulation software, training software, in-service support software, etc.) |  |
| If **NO**, please explain: | |
|  | A comprehensive rationale for the preferred solution, including the Analysis of Alternatives that evaluated relative cost, schedule, performance (hardware, human, software), and technology risks |  |
| If **NO**, please explain: | |
|  | A comprehensive assessment of the relative risks associated with including Commercial Off-the-Shelf (COTS) items in the program, with emphasis on host platform environmental design, diagnostic information integration, and maintenance concept compatibility |  |
| If **NO**, please explain: | |
|  | A comprehensive risk assessment for the Technology Development phase |  |
| If **NO**, please explain: | |
|  | Trade studies or technical demonstrations for concept risk reduction |  |
| If **NO**, please explain: | |
|  | Joint requirements for the purposes of compatibility, interoperability, and integration |  |
| If **NO**, please explain: | |
|  | Refined thresholds and objectives initially stated as broad measures of effectiveness |  |
| If **NO**, please explain: | |
|  | Completed, comprehensive planning for the Technology Development phase (hardware and software), that addresses critical components to be developed and demonstrated, their cost, and critical path drivers |  |
| If **NO**, please explain: | |
|  | Initial planning for the Engineering and Manufacturing Development phase |  |
| If **NO**, please explain: | |
|  | A draft system requirements document if one does not already exist. (This is a high-level engineering document that represents the customer/user capability needs as system requirements.) This document should include a system level description of all the software elements required by the preferred system concept. |  |
| If **NO**, please explain: | |
| **#** | **ASR success criteria include affirmative answers to the following exit questions:** | **Y/N/NA** |
|  | Can the preferred solution satisfy the Initial Capabilities Document? |  |
| If **NO**, please explain: | |
|  | Is the preferred solution sufficiently detailed and understood to enable entry into Technology Development with low technical risk? |  |
| If **NO**, please explain: | |
|  | Are the system software scope and complexity sufficiently understood and addressed in the planning for the Technology Development phase to enable an acceptable and manageable level of software technical risk? |  |
| If **NO**, please explain: | |
|  | Are the risks for Technology Development known and manageable? |  |
| If **NO**, please explain: | |
|  | Is the program schedule executable (technical and cost risks) |  |
| If **NO**, please explain: | |

|  |  |  |
| --- | --- | --- |
|  | Is the program properly staffed? |  |
| If **NO**, please explain: | |
|  | Is the Technology Development work effort executable within the existing budget? |  |
| If **NO**, please explain: | |
|  | Has a preliminary system specification, consistent with technology maturity and the proposed program cost and schedule, captured the preferred technical approach? |  |
| If **NO**, please explain: | |
| **Areas for Improvement** | | |
|  | | |
| **Recommendations** | | |
|  | | |

