

Addendum to [SEP Preparation Guide v2.01](#)

Based on the release of [DoDI 5000.02](#), there are changes which impact the content of Systems Engineering Plans (SEPs) and hence the SEP Preparation Guide (SEP PG). This addendum addresses those impacts. The SEP is still intended to describe the program’s overall technical approach, including key technical risks, processes, resources, metrics, and applicable performance incentives. It still should detail the timing, conduct, and entry/exit/success criteria of technical reviews. Note: This addendum does not address impacts based on the passing of the Weapons Systems Acquisition Reform Act of May 22, 2009. A policy addendum to DoDI 5000.02 related to this act is in work. Upon its release, this addendum will be updated.

SEP Preparation Guide Section	Impact
Throughout	<ul style="list-style-type: none"> • Re-title the Concept Refinement phase to the Materiel Solution Analysis Phase. <i>(DoDI 5000.02, Enclosure 2, Section 1) (SEP PG, Sections A, B, and C)</i> • Re-title the System Development and Demonstration Phase to the Engineering and Manufacturing Development Phase. <i>(DoDI 5000.02, Enclosure 2, Section 1) (SEP PG, Sections A, B, and C)</i>
Introduction	<ul style="list-style-type: none"> • Add DoDI 5000.02 to OSD policy directives listing.
Appendices A, B, and C (All phases)	<ul style="list-style-type: none"> • Explain how Reliability, Availability, and Maintainability (RAM) are or will be integrated with SE processes and assessed at planned technical reviews. <i>(DoDI 5000.02, Enclosure 2, 5.d.(5)) (SEP PG, Sections A5.1 and A6.5, B5.1 and B6.5, and C5.1 and C6.5)</i> • Summarize the Human Systems Integration (HSI) approach; explain how HSI is integrated with the technical and technical management processes, Integrated Product Team (IPT) organization structure, IPT staffing and functional skills, and assessed at planned technical reviews. <i>(DoDI 5000.02, Enclosure 8, Section 2.a.-g.) (DAG, Chapters 4.2 and 6) (SEP PG, Sections A3-A5, B3-B5, and C3-C5)</i> • For ACAT I programs reporting to a DoD Component, explain the role of the Configuration Steering Board (CSB) in the requirements and configuration management processes for the program. <i>(DoDI 5000.02, Enclosure 2, Section 9.d) (SEP PG, Sections A4.2 and/or A4.5, B4.2 and/or B4.3, and C4.2 and/or C4.3)</i> • Describe how manufacturing readiness will be assessed at planned technical reviews. <i>(DoDI 5000.02, Enclosure 2, 5.d.(6) and (7) and 6.c.(6)) (SEP PG, Sections A5, B5, and C5)</i>
Appendix A: Sample Format for Milestone A and Technology Development	<ul style="list-style-type: none"> • Describe any design impact of Critical Program Information (CPI) and potential countermeasures identified during the Materiel Solution Analysis Phase. <i>(DoDI 5000.02 Enclosure 2, Section 5.c(7)(e)) (SEP PG, Section: A2.2)</i>

<p>Systems Engineering Plan</p>	<ul style="list-style-type: none"> • A system-level Preliminary Design Review (PDR) and Post-PDR Report are now mandated per policy. If it is determined that a PDR should take place during the TD Phase, make sure to include it on the SEP schedule and note the additional Milestone B (MS B) document requirement for a Post-PDR Report. Otherwise, provide a rationale for postponing PDR until after MS B. (<i>DoDI 5000.02, Enclosure 2, Section 5.d.(6)</i>) (<i>SEP PG, Section A5.1</i>) • Include a summary of the program's Item Unique Identification (IUID) Implementation Plan. (<i>DoDI 5000.02, Enclosure 4, Table 3 and Enclosure 12, Section 10</i>) (<i>Perhaps in a new SEP Section A6.7</i>)
<p>Appendix B: Sample Format for Milestone B and System Development & Demonstration Systems Engineering Plan</p>	<ul style="list-style-type: none"> • Include the program's Item Unique Identification (IUID) Implementation Plan as an annex to the SEP. (<i>DoDI 5000.02, Enclosure 4, Table 3</i>) (<i>SEP PG, Section B Annex</i>) • Indicate that the Program Manager will take control of the initial product baseline for all Class 1 changes not later than the system-level Critical Design Review (CDR) or explain the plan and rationale to obtain a waiver. (<i>DoDI 5000.02 Enclosure 12, Section 5</i>) (<i>SEP PG, Section B4.1</i>) • A system-level PDR and Post-PDR Report are now mandated per policy. If a system-level PDR was not planned and/or successfully accomplished during the TD Phase, include it on the SEP schedule for the EMD Phase and describe the plan to develop a Post-PDR Report for submittal to the Milestone Decision Authority (MDA) for assessment. (<i>DoDI 5000.02, Enclosure 2, Section 5.d.(6); Section 6.c.(b)</i>) (<i>SEP PG, Section B5.1</i>) • A system-level CDR and a Post-CDR Report are now mandated. Include the CDR on the SEP schedule and describe in the SEP, the plan to address the topics mandated for the Post-CDR Report. (<i>DoDI 5000.02 Enclosure 2, Section 6.c.(6)(c) and DAG: Ch. 4</i>) (<i>SEP PG, Section B5.1</i>)
<p>Appendix C: Sample Format for Milestone C And Production & Deployment / Operations & Support Systems Engineering Plan</p>	<ul style="list-style-type: none"> • Include the program's Item Unique Identification (IUID) Implementation Plan as an annex to the SEP. (<i>DoDI 5000.02, Enclosure 4, Table 3</i>) (<i>SEP PG, Section C Annex</i>)
<p>Appendix D: References</p>	<ul style="list-style-type: none"> • Note that DoDI 5000.2 is now DoDI 5000.02.

To submit questions or corrections, contact the Office of the Director for Defense Research and Engineering, Systems Engineering, 3090 Defense Pentagon, 3B938, Washington, DC 20301-3090; SEP_Addendum@osd.mil