

## 4.1 PERFORM SYSTEM ENGINEERING

### 4.1.1 Introduction to System Engineering

The Federal Aviation Administration (FAA) System Engineering (SE) method is robust, iterative, and has extensive interdependencies among the SE elements listed in Table 1.2-1 in Chapter 1. The process workflow (see Figure 4.1-1) captures the essence of these linkages and provides a high-level view of the various SE processes and how they functionally interact. These functional interfaces only represent the predominant interaction between each process. The interaction between processes at a lower level is much more involved (i.e., Figure 4.1-1 is a simplified view and does not depict all the ways that processes interact). Figure 3.1-2 (Chapter 3) is an N-squared ( $N^2$ ) diagram of SE that shows the actual work products exchanged between the various SE processes shown in Figure 4.1-1.

# Nas System Engineering Manual

**SB Merriam**



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