# REQUIREMENTS ANALYSIS

#### 4.1 SYSTEMS ENGINEERING PROCESS INPUTS

The inputs to the process include the customer's requirements and the project constraints. Requirements relate directly to the performance characteristics of the system being designed. They are the stated life-cycle customer needs and objectives for the system, and they relate to how well the system will work in its intended environment.

Constraints are conditions that exist because of limitations imposed by external interfaces, project support, technology, or life cycle support systems. Constraints bound the development teams' design opportunities.

Requirements are the primary focus in the systems engineering process because the process's primary purpose is to transform the requirements into designs. The process develops these designs within the constraints. They eventually must be verified to meet both the requirements and constraints.

#### Types of Requirements

Requirements are categorized in several ways. The following are common categorizations of requirements that relate to technical management:

Customer Requirements: Statements of fact and assumptions that define the expectations of the system in terms of mission objectives, environment, constraints, and measures of effectiveness and suitability (MOE/MOS). The customers are those that perform the eight primary functions of systems engineering (Chapter 1), with special emphasis on the operator as the key customer. Operational requirements will define the basic need and, at a minimum, answer the questions posed in Figure 4-1.

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