

51st IAA SYMPOSIUM ON SAFETY, QUALITY AND KNOWLEDGE MANAGEMENT IN SPACE
ACTIVITIES (D5)

Prediction, Testing, Measurement and Effects of space environment on space missions (3)

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A DECISION MAKING TOOL FOR PROCUREMENT MANAGEMENT OF AEROSPACE EEE
PARTS

Abstract

The paper aims to develop some supply chain management tools to be used for EEE parts procurement in Aerospace field, Satellites manufacturing specifically. EEE parts procurement for satellite manufacturing will be covered to find an efficient way to reduce unnecessary costs and efforts and meet required service level. First of all, ABC analysis method will be used in order to classify the most important items to focus on based on cost, then safety stock will be calculated for each class of items in order to propose new methods for calculating safety stock based on the requirements and data availability. A second part of this project is related to supplier selection, decision related to supplier selection will be done using Multi-criteria decision making (MCDM) and more precisely Analytical Hierarchy Process (AHP) for the main items (Class A) products suppliers will be ranked based on expert decision.