

DOC #: TSR04
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SUBJECT: System Design Document

1 Introduction

This System Design Document was created to outline the system design for the Microwave Landing System Ground-Based Receiver (MGR). The MGR is responsible for gathering and processing data from digital signals received from the ACME front-end to be transfers them on to the Executive Monitor (XMON). The technical designs and requirements elaborated on this document will comply with the higher level infrastructure of the Microwave Landing System standards.

1.1 Purpose

The purpose of this System Design Document is to provide a detailed description of the operational concepts, system external interfaces and the processing resources of the system and the design constraints on them.

1.2 System Overview

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1.3 Design Constraints

The output from the MGR to the XMON must consist of the elevation angle data, and any warning flags determined by signal degradation due to interference.

1.4 Reference Documents

The `LOOK UP DOCUMENTS` were used to detail the specifications in the MGR and to cross reference the individual configuration items through the System Design Document.