

## INTRODUCTION

The purpose of this MAA wide standard is to establish the Office of Technology (OT) Standards and Specifications for Communications Systems and Infrastructure (commonly referred to as **OT STANDARDS**) for the Maryland Aviation Administration (MAA) communication facilities, providing distribution pathways, and infrastructure, both within (Inside Plant) and between buildings (Outside Plant), Approved products, testing and work acceptance at Baltimore/Washington International Thurgood Marshall Airport (BWI) and Martin State Airport and all MAA owned facilities.

This Standard will provide Designers, Contractors and Installers (DCI), employees and tenants with the parameters, details and standards that the OT shall require to be incorporated into all projects, installations and repairs. This will provide consistency and compatibility between new and existing equipment/infrastructure. No deviation from these standards shall be permitted without an approved written variance from OT.

These standards have been developed, and updated since first published in 2007. Incremental updates are done on even years (previous publish standards including table of changes) and full update is done on odd years unless significant updates have been made. These “Special Editions” will be titled so to help identify significant updates.

We have incorporated lessons learned and industry best practices in subsequent updates.

The Office of Technology (OT) Standards and Specifications for Communications Systems and Infrastructure is divided into functional sections where work will be performed, where applicable a subsection will have references to other sections. This is done to reduce duplicate information. All sections collectively are the OT Standards.

These standards shall not be modified in any way without written permission of the OT Engineer.

The Official source of the Office of Technology Standards and Specifications for Communications Systems and Infrastructure, (OT Standards) **most current edition**,

shall be the MAA web page. This web page can be found at

[http://maaweb/content/airtechcommaffairs/it/telecomm\\_standards.asp](http://maaweb/content/airtechcommaffairs/it/telecomm_standards.asp)

The **TABLE OF CHANGES** reflects updates since last publishing date. In the event of conflict between bid specifications and OT Standards, OT standards will take precedence.

Any updates to the OT standards shall be applied to any design project. At the end of 60% design comment period the revision level and date shall be recorded by the DCI. It is at this point no additional changes to the OT standards shall apply to the project unless jointly agreed to by the DCI and the OT Engineer.

The intent of the OT Standard is to provide technical guidance and policy.

Purpose: To document and provide consistent current guidance, policy and standards to all personnel who are performing, design, construction, installation, inspection, maintenance, and field certifying systems.

Objective: Consolidate standards and best industry practices in one place which have been confirmed as the means by which all MAA representatives shall interpret the building code and standard references.

***NOTE: The Aviation Industry may have more stringent requirements than published standards and communications standards may differ from industry standards.***

It is very important that the Office of Technology (OT) be consulted as early in the process as possible. Only OT can assign or allocate communications facilities and access to those facilities.

The following industry standards are the basis for the structured Telecommunications/Communications system described in this document.

Due to different organization publication updates, **The most current published edition shall be used with any referenced industry standard.**

**TIA/EIA**

TIA/EIA-568-B	Commercial Building Telecommunications Cabling Standard
TIA/EIA-569-A	Commercial Building Standard for Telecom Pathways and Spaces
TIA/EIA-606	Administration Standard for the Telecommunications Infrastructure of Commercial Buildings
TIA/EIA-607	Commercial Building Grounding/Bonding Requirements

**NFPA**

NFPA-70	National Electric Code (NEC)- ISO/IEC
ISO/IEC 11801	Generic Cabling for Customer Premises
NFPA- 75	Protection of Information Technology Equipment
NFPA- 76	Protection of Telecommunications Facilities

**Conflicts in Standards**

In the event of any conflicting standards or guidelines the Office of Technology Engineer shall make the final determination of which standard takes precedence.

**By definition the OT Engineers are**

- Mr. Timothy Watson, Manager, Telecommunications
- Mr. Dwayne Abrams, Premise Distribution Systems Administrator
- Mr. Steven Ricks, Telecommunications Systems Administrator