Tech Info Library

Macintosh II: Certificate of Occupancy Information (9/94)

Revised: 9/2/94
Security: Everyone

Macintosh II: Certificate of Occupancy Information (9/94)

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Article Created: 30 August 1989
Article Reviewed/Updated: 02 September 1994

TOPIC ---

When furnishing a new office with Macintosh computers, a Certificate of
Occupancy is often required. Information needed for this certificate includes:

- EMI (Electro-Mechanical Interference) levels
- Burn test results, meaning what is released when a Macintosh is consumed
  by fire
- Power and grounding parameters

DISCUSSION --

Quite often, the information needed for a Certificate of Occupancy is a
certificate of compliance from a governmental or a recognized industrial or
other safety committee to ensure that adequate protection exists for users
against potential health hazards, such as radiation, electrical shocks, and fire
hazards, and from RFI interference to radio and television reception. The
Macintosh II computer meets national and international product safety
requirements. The Macintosh II is approved by the American (Underwriters
Laboratories--UL, and FCC), Canadian (Canadian Standards Association--CSA), and
European (Institute for Industrial Research and Standards--IIRS) groups, and so
on. The evidence of certification that it may be sold in a particular country
is in the form of a label affixed to the bottom of the case.

Apple's grounding requirements are usually within those required by building
codes in most communities. We suggest that the "third" wire be grounded for the
safety of the operator, so that grounding loops don't build within devices, from
which one could obtain an electrical shock.

Apple doesn't perform burn tests but works with the UL, which does, to ensure we
are avoiding using materials that could contribute to a fire. This includes PCB
material, housing plastic (which contains a fire retardant), and other parts.
In general, PCB material is flame rated 94V-1 or better, wire should be

UL-Listed/CSA-Certified VW-1, and plastic parts within the enclosure are flame rated 94V-2 or better. We generally use components that have been certified by the safety agencies. Components include such things as lithium batteries, power relays, tape drives, and so on.

Most plastics do give off toxins when burned; however, as mentioned above, the housings and plastics do contain fire retardants, and are all UL-approved.

For more information see:

- The Macintosh Hardware Family Reference manual, Chapter 23, Macintosh II
  Power. This chapter goes into the AC input power requirements in detail.

- The Tech Info library article, "Electrical Specifications of Most Apple
  Hardware", and search on "Macintosh" and "specification".

Article Change History:
02 Sep 1994 - Reviewed for technical accuracy, revised formatting.

Support Information Services

Tech Info Library Article Number:4328