

Advanced Transportation Controller (ATC) Standards Memo M0004

from the Joint AASHTO / ITE / NEMA Committee on the ATC

DATE: December 17, 2003

TO: AASHTO, ITE AND NEMA

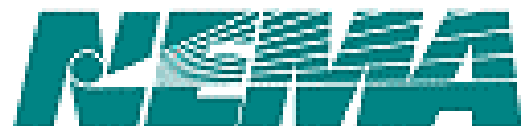
SUBJECT: *Recommended Standard ATC Controller Standard Revision 5.0,*

ACTION: Request for Ballot to Approve as Recommended Standard or Standard for Future Design

RECOMMENDATION. This Memorandum reports that the Joint Committee on the ATC accepted the proposed *ATC Controller Standard Revision 5.0* as a Recommended Standard, and recommends to AASHTO, ITE and NEMA that the document be balloted as an approved standard or Standards for Future Design. The recommendation was made at the regular Joint Committee meeting in Atlanta, GA., October 28, 2003, and was approved by 2/3 majority of the committee.

BACKGROUND. This document was developed to be a Joint AASHTO / ITE / NEMA Standards Publication, part of the ATC family of standards. The purpose of this document is to define a standard that will provide a sufficient framework within which manufacturers can provide innovative solutions to user needs. The end result, however, must be a controller that works within existing and proposed networks, so the standard provides details on the requisite electronic and user interfaces for compliant designs. The recommended standard tries to provide context for this effort by indicating the limitations of earlier standards, several of which are now in effect, and describes how the proposed standard avoids these limitations. Subsequent sections define design requirements for compliance with this standard.

The Advanced Transportation Controller (ATC) is being developed to provide an open architecture hardware and software platform for a wide variety of ITS applications. In this context, the words “open architecture” mean that the system will include both public and private sector developers, and have modular software cooperatively running on standardized and shared modular hardware platforms. This will provide cost-effective ITS functionality for a wide variety of applications. To accomplish this goal the system needs to provide the maximum flexibility for many different system configurations and installations.



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The general concept and model for the ATC is the PC Computer. However, the ATC will be a field-hardened, general-purpose computer for embedded applications, which with the appropriate software and hardware modules, could be asked to perform many different duties.

This Standard was developed by the ATC Controller Working Group, now chaired by Andy Mao (Harris County, TX) and Craig Gardner (Siemens ITS). The Working Group has 20 members from the public and private sectors.

A copy of the Recommended Standard and the Standards Development Report are attached.

An electronic copy of the comment table can also be found at the Siemen's Website:

<http://www.gardnersys.com/ATC/review.html>

Users may gain access to the site using the login ID of **guest** and the password **ATCguest** (case sensitive).

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