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TELEMETERING STANDARDS COORDINATION COMMITTEE

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EIGHTEENTH ANNUAL REPORT OF THE TELEMETERING STANDARDS COORDINATION COMMITTEE by Michael Pizzuti, TSCC Chairman 1978 - 1980

Introduction. The Telemetering Standards Coordination Committee (TSCC) is chartered to serve as a focal point to represent the Telemetering Community. It serves to: a) receive, coordinate and disseminate information and b) recommend and endorse standards, methods and procedures to users, manufacturers and supporting agencies.

The TSCC is organized to: a) determine what standards are in existence and published, b) determine the technical adequacy of planned and existing standards, c) determine the need for additional standards and d) direct the derivation of new standards.

To perform these tasks the committee is composed of 14 members with approximately equal representation from industry and from government and/or not for profit organizations.

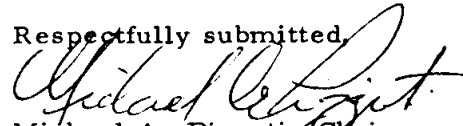
The TSCC was organized in 1960 under the sponsorship of the National Telemetering Conference (NTC). Since 1967 the TSCC has been under the sponsorship of the International Telemetering Conference (ITC) and the Instrument Society of America (ISA). The Annual Reports of the TSCC, since the year 1967 can be found in the NTC and the ITC Conference Proceedings.

Committee Activities. This year's single meeting of the Telemetering Standards Coordination Committee was held in Los Angeles on November 13, 1978 to coincide with the opening of the ITC Symposium. Ten members and alternates were in attendance at the meeting. The first order of business to be conducted was the elections for renewal of membership terms and election of committee officers. D. R. Andelin of Rockwell International was nominated and unanimously accepted for a five year membership term. Messrs. McAnally and Trevathan were unanimously noted to new five year membership terms. Verne Jennings was nominated and unanimously elected to the position of Committee Vice-Chairman. Claude McAnally was unanimously elected to the position of Secretary-Treasurer.

Pursuant to the Committee's Charter responsibilities to determine the need for new standards, discussions were conducted concerning the field usage on the following subjects: a) pseudo-random noise (PRN) generators for NRZ PCM transmission and magnetic tape recording systems to minimize the effects of non-DC response systems. PRN provides an alternative to the use of DM or Bi-Phase codes more commonly used; b) constant bandwidth (CBW) FM formats utilizing subcarriers scaled from those published in the 106 document have been used to obtain additional channels of lower frequency data, or channels of greater frequency response than is presently possible. The Committee considered recommending binary expansion of the standards to include 1 kHz deviations, as well as 16 and possibly 32 kHz deviations.

Joe Ramos, Chairman of the Range Commanders Council (RCC) Data Multiplex Committee, and Ken Scoeck, Member of the RCC Recorder/Reproducer Committee discussed with the Committee various changes being considered for inclusion in the next issuance of the IRIG 106-77 Standards Document.

Respectfully submitted,



Michael A. Pizzuti, Chairman
Telemetry Standards
Coordination Committee
September 4, 1979