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Denver, Colorado
Chairman

HAROLD JESKE
Sandia Corporation
Albuquerque, New Mexico
Vice-Chairman

MIKE PIZZUTI
Data-Control Systems, Incorporated
Danbury, Connecticut
Secretary-Treasurer

APPENDIX A

TELEMETERING STANDARDS COORDINATION COMMITTEE

SPONSORED BY



COMMITTEE MEMBERS

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McDonnell-Douglas Corporation
Huntington Beach, California

BALL CHIN
Dept. of Army
White Sands Missile Range
New Mexico

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Radiation
Melbourne, Florida

BURT ELLIOTT
Naval Air Systems Command
Washington, D.C.

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The Boeing Company
Seattle, Washington
Chairman
RF Subcommittee

ROBERT S. McELHINEY
Grumman Aerospace Corporation
Calverton, New York
Chairman
Data Multiplex Subcommittee

RONALD M. MULLER
Goddard Space Flight Center - NASA
Greenbelt, Maryland

RAY PIERESON
Jet Propulsion Laboratory
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HUGH PRUSS
Teledyne Telemetry
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Marshall Space Flight Center - NASA
Huntsville, Alabama

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Naval Missile Center
Point Mugu, California

FOURTEENTH ANNUAL REPORT OF THE

TELEMETERING STANDARDS COORDINATION COMMITTEE

By Cecil M. Kortman, TSCC Chairman 1974-1976

Introduction. The Telemetering Standards Coordination Committee (TSCC) was formed in 1960 and has been in continuous operation since that time. It is now sponsored by the ISA and the ITC and its membership is drawn from a wide cross-section of the telemetering community. Thus the views of Government, industry, user and manufacturer are brought out when any standard is reviewed by the committee.

In accordance with its charter the TSCC is charged with the following tasks: determining what standards, methods, and procedures are in existence and published; examining the technical adequacy of existing and proposed documents; exploring the need for new standards, methods and procedures. The TSCC does not issue standards, but rather acts as a review, coordinating, and fact-finding body, endorsing specific standards, methods, and procedures, and making recommendations to the appropriate document originating groups, to telemetry users and manufacturers, and the Government agencies.

For further information on the origination of the TSCC and its original Charter and Bylaws, please see the 1962 Proceedings of the National Telemetering Conference. An annual report has been published each year since that time. Years 1963 through 1967 may be found in the NTC Proceedings and, starting 1968, all following years may be found in the Proceedings of the International Telemetering Conference.

Committee Activities. Since the Thirteenth Annual TSCC Report, which was published in the 1974 ITC Proceedings, two TSCC meeting have been held as follows:

October 14-15, 1974 - Los Angeles, California

January 14-15, 1975 - Greenbelt, Maryland.

In spite of the somewhat pessimistic tone of the previous annual report, the committee did engage in a number of activities described below:

October 14-15, 1974.

Officers were elected for the next two year term. Mr. Cecil Kortman assumes the office of Chairman, Mr. Harold Jeske was elected Vice Chairman and Mr. Mike Pizzuti was elected Secretary-Treasurer.

Two revisions to the TSCC bylaws were approved: 1. The quorum requirement was reduced from 10 to 9 members or alternates and 2. the required number of meetings was reduced from 2 to 1 meeting per year. Both of these changes were the result of todays economic situation and a severe tightening of travel funds.

Committee members V. Jennings, H. Jeske and R. Piereson were elected to new 5 year terms on the TSCC.

Mr. Walt Frost submitted his resignation as a member of TSCC and Mr. W. Threlkeld, also from MSFC, was elected to replace him.

The following alternates were approved for committee members:

Robert Byers alternate for Ray Piereson

Stan Hurst alternate for Cecil Kortman

Ken Berns alternate for Jim Weblemoe

Tony DeCouteau alternate for Vern Jennings

Mr. R. E. Rockwell, the new TWG chairman, participated in a discussion of the need for standards covering wideband systems, those with bandwidths greater than 1 MHz. As a result of that discussion an Ad Hoc Sub-committee was formed to further investigate the subject and prepare a recommendation to the full committee. Mr. Weblemoe was selected to chair the sub-committee which consists of Messrs. Gardenhire, Pizzuti and Pruss.

Copies of three Goddard Aerospace Data System Standards and a section of the NASA Planetary Program Flight/Ground Telecommunication Standard were given to the committee members for review.

January 14-15, 1975.

The major committee activity was to review new revisions of GSFC Guidelines: "Convolutional Coding with Viterbi Algorithm Decoding" and "Convolutional Coding with Fano Algorithm Decoding" and a draft copy of Section 2.5 Telemetry Coding/Decoding Standard of the NASA Planetary Program, Flight/Ground Telecommunications Standards. While there is good agreement among the documents, for the most part, there are some inconsistencies which could be resolved and make it easier for persons who may have to work with both standards. Verbal statements of concern were given to both GSFC and JPL representatives.

GSFC personnel provided the committee with the following presentations:

1. STDN - George Kronmiller
2. Communications and Data Handling module for the Standard Spacecraft - Ron Muller
3. Standard Computer - Ray Hartenstein
4. TDRSS - Jack Schwartz

Other Activities.

The committee endorsed a recommendation by the Air Force to cancel MIL-STD-442 and supersede it by RCC Documents 106 and 118. This action had been suggested by the committee at our meeting held May 31, 1973 as MIL-STD-442 had not been kept up to date and did not reflect current range standards.

Respectfully submitted



Cecil M. Kortman, Chairman
Telemetry Standards
Coordination Committee
August 26, 1975