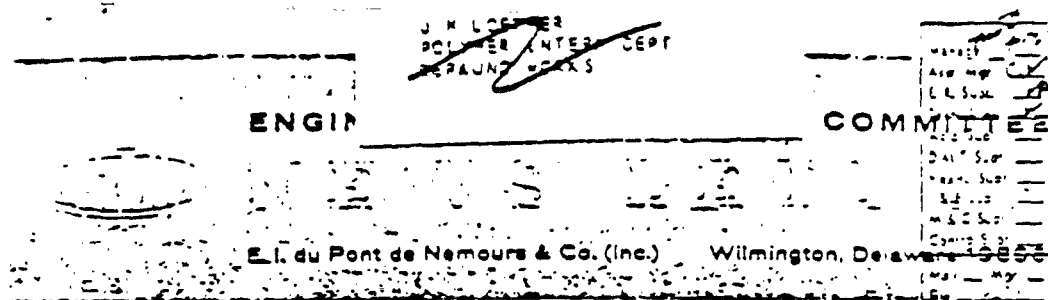




ENGINEERING STANDARDS SUBCOMMITTEES MECHANICAL EQUIPMENT

This is part of a series of articles reporting responsibilities and activities of individual Standards subcommittees.

The first four Mechanical Equipment standards were issued in 1931 and covered drafting practices and decimal equivalents. The current subcommittee was organized in 1952, and now has 50 standards within its responsibility.

This total comprises the M-, DM-, T-, DT-, and ST-Sections of standards.

- M-Section covers selection, specifications, and design of machinery, including drafting practices, fluid power diagrams, safety factors, component balancing, surface finishes, cylindrical fits, part details, and fastener measures.
- DM-Section lists mechanical formulas for machine design.
- T-Section provides mechanical power transmission information on measures of drives, shafting, and couplings.
- ST-Section provides specifications needed to purchase agitator drives and hydraulic power systems.
- DT-Section provides design information on speed reducers, shafting and couplings.

All of these sections are available in the Mechanical Compendium which also includes related standards useful to persons designing, purchasing, or maintaining mechanical equipment.

In recent years, the subcommittee has deleted much of the handbook type of data formerly included and has developed standards with a higher level of technology to aid in the development of machine components. Typical of

this is DM23, which provides design equations for machine components such as shafting, screw threads, gaskets, other rotating disks, cylinders subjected to pressure, and weldments.

Two new standards are being circulated on serial letter for comment. These are:

- M2X — Material Hardness Specifications and Measurement
- DT1C — Hydraulic Power System Design

Copies of these are available from the Standards Section.

Because of increased need for precise equipment alignment, M15H is being revised for more precise design of sole plates to support critical machine components. Revisions also are underway to DT1A and ST1A to provide additional design information and more realistic specifications for agitator drives.

Each standard within the subcommittee's responsibility is identified by the number 36 which appears at the bottom of the first page.

MECHANICAL EQUIPMENT SUBCOMMITTEE

- J. P. McNamara — Chairman — ESD — Louviers
- J. B. B. Jr. — Vice Chairman — Design — Louviers
- D. S. Davis — Planning — Washington Works
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37

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