standards and recommended practices

Proposed USA Standard and SMPTE Recommended Practices

A Proposed USA Standard and three Proposed Recommended Practices are published here for a trial period and public review. Comments should be addressed to Alex E. Alden, Staff Engineer, at Society Headquarters prior to July 27. The Proposed Standard will be submitted to USA Standards Committee PH22 for approval, whereas, the Proposed Recommended Practices will be submitted to the SMPTE Board of Governors. If any adverse criticism resulting from this publication is received prior to the date given, it will be taken into consideration before action on the documents is concluded.

Proposed USA Standard Dimensions for Projection Reels for Super 8 Motion-Picture Film, PH22.160; Proposed SMPTE Recommended Practice, RP 25, Sound and Picture Synchronization on Motion-Picture Film Relative to the Universal Leader for Magnetic and Photographic Tracks; and Proposed SMPTE Recommended Practice, RP 26, Label Specifications for 2-In. Quadruplex Video Magnetic Tape Recordings, are all new proposals and should be reviewed carefully.

Proposed SMPTE Recommended Practice, RP 8, Safe Action and Safe Title Areas for TV Transmission, is a combination of two previous issues, RP 8-1961 and RP 13-1963. The technical content has not been altered. However, it should be pointed out that the percentages given are now expressed in terms of picture height to conform with established practices in the television field.

Proposed Withdrawal of USA Standards

The Sound and Standards Committees have recommended withdrawal of two USA Standards: Sound Records and Scanning Area of 35mm Double-Width Push-Pull Sound Prints, Normal Center-Line Type, PH22.69-1960, and Sound Records and Scanning Area of 35mm Double-Width Push-Pull Sound Prints, Offset Center-Line Type, PH22.70-1960. The Standards were published in the November, 1948, issue of the *Journal*.

Withdrawal action has been initiated because push-pull soundtracks are no longer being recorded and used in production, having been replaced by magnetic records.

If no objections are received, USA Standards Committee PH22 will be requested to approve termination of these outdated documents.—*A.E.A.*

Proposed USA Standard Dimensions for

Projection Reels for Super 8 Motion-Picture Film

PH22.160

1. Scope

This standard specifies the dimensions for super 8 motion-picture reels used for projection having film capacities of 50, 100, 200, 400, 600, 800, and 1,200 ft.

2. Dimensions

2.1 The dimensions shall be as given in the figure and tables.

2.2 Dimensions C and K apply from the core to the periphery of the reel except for the area of Dimension J. All points of the outside surface of the flanges, including the rim, lettering, lugs, and other protrusions, will fall between the planes as defined by Dimension K.

2.3 Dimension J shall apply within a circle of 1.0 in. (25mm) diameter or more, centered on the spindle hole axis. However, this area may contain cutouts or depressions.

2.4 Lateral runout, Dimension L in Table 1, is the total excursion of all points at a radius on the flange of the reel when the reel is rotated about Datum axis Y while being held against a 1.0 in. (25mm) diameter circular reference support or flange of a horizontal spindle. The value applies to all radii on the flange. (See Appendix A2.)

2.5 The surface of the core and the periphery of the flanges shall be concentric with the spindle holes to within 0.020 in. (0.51mm) total indicator reading.

2.6 For reels of 100-ft (30-meter) capacity or less, the tolerance for Dimension D shall be +0.010 — 0.00 in. (+0.25 — 0.0mm).

2.7 Dimensions M and N provide for a minimum rectangular clearance of a film-retention clip cutout in the core of the reel at the film attachment slot. Dimension M is perpendicular to and centered on the radius passing through the center of the film attachment slot. Dimension N is measured along this radius, and a nominal value of 0.25 in. (6.4mm) is suggested. These dimensions apply to reels of 400-ft capacity or smaller and are optional for larger reels.

2.8 Dimensions P and P' have been established to ensure symmetry of the recess area represented by Dimension J. They apply only when Dimension K exceeds Dimension J. They shall be measured at the point of departure of Dimension J to the larger Dimension K. The difference between Dimension P and Dimension P' shall not exceed +0.020 in. (0.51mm).

NOTE 1: The flanges of the reel shall have three radial driving slots spaced approximately 120° and conforming to Dimensions E and F. The drive slots of the two flanges shall be aligned. If properly aligned, the reel will fit on a test spindle (gauge) of 0.50-in. (12.7mm) diameter with a radial spindle drive key having: a length from the spindle shoulder greater than the reel width, Dimension J; a thickness of 0.058 in. (1.47mm); and a height, measured as a radius from the spindle axis, of 0.36 in. (9.1mm).

NOTE 2: To facilitate flexibility in design of plastic snap-on containers for 50- and 100-ft reels, which use one flange of the reel as a cover, the reels shall be made with one solid flange. This flange shall contain no interruptions to the periphery such as slots to facilitate threading. (See Appendix A3.)

NOT APPROVED