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LOG OF MEETING

DIRECTORATE FOR ENGINEERING SCIENCES

SUBJECT: US TAG to ISO TC 23/SC 17, ANSI B175.1 Chain Saw Subcommittee, ANSI B175 Committee

DATE OF MEETING: November 2-3, 1998

PLACE: Portable Power Equipment Manufacturers Association
4340 East West Highway
Suite 912
Bethesda, MD

LOG ENTRY SOURCE: John Murphy, ESME *JRM*

DATE OF ENTRY: July 26, 1999

COMMISSION ATTENDEES:
John Murphy, ESME

NON-COMMISSION ATTENDEES:

Don Purcell	PPEMA
Karen Zolkewicz	PPEMA
Matthew Hall	Dunaway & Cross
Arv Hille, Chairman	Blount/Oregon cutting Systems
Dan Ericsson	Husqvarna
Robert Stegall	Echo
Shane Behbahany	Carlton Co., Inc.
Jack Cambell	John Deere
Axel Fischer	Dolmar
Manfred Bortfeld	Stihl
Edgar Wolff-Klammer	Underwriters Laboratories
Bernie Box	Frigidaire
Jeff Sadler	Poulan/Weed Eater

SUMMARY OF MEETING

ISO Technical Advisory Group to Technical Committee 23/Technical Committee 17

PPEMA determined that it was not necessary for the ISO TAG to meet so that meeting was cancelled.

American National Standards Institute B175.1 Chain Saw Subcommittee

The meeting convened at 8:30 AM. The agenda was reviewed. Saw chain testing and Baraboard status was added to the Agenda. The minutes for the September 30, 1997 Subcommittee meeting were

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approved unanimously.

Underwriters Laboratories discussed recent generic test saw results. The Subcommittee decided that UL would provide the raw test data to Subcommittee members for purposes of re-checking the accuracy of their "Kickback" programs and identifying any systematic errors. The Subcommittee assigned Oregon Saw Chain and Carlton to work together to further refine the physical and dynamic properties of the generic test saw and to make any necessary modifications. Once the generic test saw is ready the saw will be re-circulated to participants for an additional round of testing. A set of correct blueprints will also be circulated to allow the public to build their own generic test saws. The Subcommittee decided to retain Table 1 without modification until the generic test saw revisions are finalized. Clause 5.11.2.4 was revised to indicate that new saw chain shall be tested on each model in the sample that will accommodate the chain. Modified versions of previously designated low kickback chain shall be evaluated on the two models on which the low kickback chain exhibited the highest CKA in previous tests.

The Subcommittee considered a proposal to reduce testing requirements for low kickback chain on new chain saw models that use the same powerheads as previously tested chain saws. The Subcommittee decided to retain existing testing requirements.

The Subcommittee decided to replace "Baraboard" with "medium-density fiberboard" throughout the standard since Baraboard is no longer being produced and delete Annex K.

The Subcommittee decided to replace Annex A (Rationale) with a rationale that addresses substantive changes from B175.1-1991. A copy of Annex A is attached. The meeting adjourned at 4:30 PM.

American National Standards Institute B175 Committee

The meeting was called to order at 12:30 PM on November 3, 1998. The agenda was reviewed. The Committee unanimously approved the minutes of its previous meeting.

Arv Hille briefed the Committee on the status of the B175.1 standard. The revised standard will be distributed to the Subcommittee members for editorial review and mail ballot. If the Subcommittee approves the standard, it will then be distributed for review by the public and by the full Committee.

Robert Stegall briefed the Committee on the status of the B175.2 standard. Changes made by the Subcommittee will be incorporated into the revised standard and distributed to the Subcommittee for mail ballot. If approved, the proposed standard will be distributed to the public and to the full Committee. The meeting adjourned at 2:45 PM.

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Annex A (informative)

Rationale

This annex gives the rationale behind the various requirements of this voluntary safety standard. The clause and subclause numbers used in this annex correspond to those used in the body of the standard.

3.6 chain catcher This clause, which provides a definition for a device used to restrain a broken or degrooved saw chain, has been added for purposes of clarifying a term included in Annex B to the standard.

3.2.4 on/off or stop control The definition was modified to provide additional detail.

5.3 Pull type starter This clause was deleted because of test result variability, difficulty in testing crank speed, and risk of injury to the operator.

5.3.1 On/off or stop controls This clause, which provides that all saws shall be equipped with on/off or stop controls, was subdivided into three separate sub-subclauses regarding Applicability, Identification, and Location. This modification was made to make the B175.1 standard consistent with analogous provisions of other B175 standards.

5.4.2 Tank filler openings The minimum diameter of the fuel tank filler hole was modified to be consistent with ISO requirements.

5.8.4 Front hand guard This clause has been modified to include the requirements of the ISO 6533 standard on handguard dimensions, thereby promoting international harmonization.

5.8.5.2(h) Hand-guard actuated chain brake test requirements This subclause was modified to specify that the pendulum strike should occur at engine racing speed to be consistent with international standards and to provide further consistency in the test procedure.

5.10 Sound Levels This clause already provided that operator's manuals should include instructions on wearing hearing protection. To emphasize the importance of this, a sentence was added to this subclause to require that powerheads be marked so as to inform the operator to always using hearing protection.

5.11.2.4 Low kickback saw chain This clause establishes testing requirements for saw chain that is designated "low kickback" and calls for testing on several different chain saw models. After several years of testing experience, it was determined that it was appropriate to establish independent testing requirements for new saw chain and for modified versions of previously designated "low kickback" saw chain. Whereas the testing requirements of new saw chain are unchanged, modified versions of previously-designated "low-kickback" chain need be tested only on the two saws that produced the highest CKAs in prior testing. This modification recognizes that previously designated chain has already met extensive testing requirements that need not be fully duplicated simply because of a minor modification.

5.13 Vibration This clause, which establishes vibration requirements for chain saws not intended for the occasional user, has been modified to provide separate standards based upon engine displacement, *i.e.*, for saws that use engines less than 3.7 in³ (60 cm³) displacement and those that use engines of 3.7 in³ (60 cm³) or more. This modification harmonizes the B175.1 standard with vibration levels adopted by other

organizations. The clause also was revised to clarify that these requirements apply to powerheads using the manufacturer's recommended saw chains.

5.14.2 Operator's manuals This clause was previously designated "Owner's manuals." It was changed to "operator's manuals" in recognition that the precautions and instructions contained in such manuals apply to all chain saw users. This modification was made throughout the standard.

8.2 Equipment A footnote to subclause (d) was added to permit use, when necessary, of medium-density fiberboard (MDF) of dimension 1.5 in x 3.0 in x 10 in. Otherwise, MDF of dimension 1.5 in x 1.5 in x 10 in should be used.

8.7 Chain brake energy measurement procedure Subclause (c) of this clause was modified to allow the addition of extra mass, not to exceed 200 grams, to the center of the front handguard on saws that use chain brakes activated by means other than manual force. This revision permits use of the kickback test procedure to evaluate saws that use non-manually operated chain brakes, which was not always possible under prior versions of the standard.

Figure 3 (old) Bow guide guard This figure was referenced by clause 5.3 of the B175.1-1991 standard, which clause has been deleted. Accordingly, the Figure 3 that was shown in prior versions of the standard is not included in the current version.

Annex C Safety precautions for chain saw users This annex was redesignated "Normative" to be consistent with subclause 5.14.2(a) of the standard, which provides that the "operator's manual *shall* provide the safety precautions listed in annex C, verbatim or suitably paraphrased." (Emphasis added.) The note to this annex in prior versions of the standard has been moved to new subclause 5.14.2(j).

Annex K (old) Procedures for control and calibration of Baraboard® test material Production of Baraboard®, which consists of medium density fiberboard, ceased in November of 1998. Accordingly, this annex no longer exists and references to Baraboard previous versions of the standard have been changed to medium density fiberboard, abbreviated as MDB. For the same reason, the parenthetical at the end of subclause 8.2(d) in older versions of the standard, which referred to Baraboard control and calibration procedures, has been deleted in the current version.