

**P260.1 Working Group
Minutes of April 22, 2022 from 10 AM to 12 PM PST
Web Teleconference Meeting**

1. Call to Order

Call to order at 10:05 AM (PST).

| Last, First Name | Affiliation | Present |
|---------------------------|--------------------|----------------|
| Curey, Randy (Chair) | Northrop Grumman | Yes |
| Balma, Peter | Retired, Self | Yes |
| Edwards, Doug (Secretary) | Siemens | Yes |
| Ressel, Howard | Retired, Self | Yes |
| Webb, John | ABB | Yes |
| Flowers, Keith | Siemens | No |
| Sullivan, Paul | DuPont | No |

2. Determination of Quorum

Quorum met.

3. Approval of Agenda

No objections. Approved by acclimation.

4. Review Previous Minutes

No objections to approval. Approved by acclimation.

5. Call for Patents / Copyright

- Patent Slides reminder discussed.
- Copyright Slides discussed. No Patent or Copyright issues reported.
- Participant behavior reviewed.

6. Chair's Remarks

None

7. Resolve identified issues in Draft 17

Creating Draft 18 during meeting.

- a. Determine the criteria for including a keyword
 - i. Should we keep cgs as a keyword?
 - ii. Should other keywords be added, such as: mks, mksa, fps, mts?

Updated to

40 **Keywords:** cgs units, fps, imperial units, letter symbols, metrication, mks, mksa, mts, SI, SI units,
41 inch-pound units, international system of units, measurement units, unit symbols
42

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b) 4.1.1 Quantity symbols - Deleted

c) 4.1.3 Operations symbols
Changed to, See IEEE Std Reference

343 **4.1.3. Operation symbols**

344 See IEEE Std 260.3™, American National Standard Mathematical Signs and Symbols for Use in Physical
345 Sciences and Technology.

d) Updated Bibliography
Updated Bibliography and Normative References (along with where to source footnotes).

e) Deleted vector references as this is covered in IEEE Std 280.

367 For indicating the vector character of a quantity, boldface italic type shall be used.

368 *Examples:*

— ***F*** force

— ***H*** magnetic field strength

369 Ordinary italic type shall be used to represent the magnitude of a vector quantity. It is also commonly used
370 for a vector quantity when there is no need to draw attention to the vector character of the quantity.

371 When tensor quantities of second or higher order are to be represented by a single letter, sans-serif bold
372 italic type shall be used (e.g., ***A***, ***B***).

373 Matrices shall be bold italic type and are usually capital letters (e.g., ***A***, ***B***). Elements of matrices are
374 usually lower case.

375 The above conventions on italicization are consistent with [B6] and [B18].

f) Alphabets and typography
Deleted

353 Unconventional typefaces should not be used for letter symbols. Script and Old English faces are typically
354 not appropriate for unit symbols. Such special faces have seen limited use for quantity symbols, but good
355 modern practice avoids them.

g) Correct examples on p.6 line 408 by
i. Adding an "A" before 100 on the third line: Done
ii. Adding the word "roll" to the 33-mm example: Done

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- h) Determine whether the horsepower entries should have a commas or parenthesis: Decision – parenthesis. Also, changed “boiler” to “steam.”

| | | |
|-------------------------|----|--|
| horsepower (mechanical) | hp | 1 $hp_{\text{mechanical}} = 550 \text{ ft}\cdot\text{lb}_f/\text{s}$ |
| horsepower (metric) | hp | 1 $hp_{\text{metric}} := 75 \text{ kgf}\cdot\text{m}/\text{s}$ |
| horsepower (electrical) | hp | 1 $hp_{\text{electrical}} := 746 \text{ W}$ |
| horsepower (steam) | hp | 1 $hp_{\text{steam}} := 33,475 \text{ Btu}/\text{h}$ |

- i) Determine whether to keep or delete the parenthetical avoirdupois on ounce and pound: Decision, keep parenthetical avoirdupois

- j) Determine whether to delete metric ton or ton (metric)
Added entry “metric ton” with note, see ton (metric)
Similar changes for:

- i. short ton
- ii. long ton
- iii. standard atmosphere
- iv. technical atmosphere
- v. Troy ounce
- vi. Added ounce (US liquid)
- vii. Added cup
- viii. Added tablespoon
- ix. Added teaspoon
- x. Conversion added for various added units.

- k) Determine whether to tailor the subclauses of Clause 4.

- i. Determine if 4.1.1 is necessary
Change to, See IEEE Std 280 with title.

332 4.1.1. Quantity symbols

333 See IEEE Std 280™, IEEE Standard Letter Symbols for Quantities Used in Electrical Science and
334 Electrical Engineering.

- ii. Determine if 4.2 should be tailored to remove any unnecessary quantity symbol discussions, such as vector and matrix notation
Unchanged.

- iii. Determine whether to delete 4.3

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8) Motion to go to recommend for ballot to SCC14.

Motion by: Howard Ressel
Second: John Webb
Approved by consent.

Per SCC14 PnP Section 7.1.1 d), Majority vote required for
d) Authorization for ... moving a draft standard to Sponsor Ballot.

Action Item: Doug Edwards (SCC14) to initiate a SCC14 Electronic Ballot –
14 day ballot.

9) Next Meeting – Not current required.

Pending SCC14 ballot activity.
Pending IEEE-SA Ballot.

10) Adjournment

Meeting adjourned at 12:26 PM (PST).

Reported by,

Doug Edwards
Secretary, P260.1 WG
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