


IEEE Switchgear Definitions

Report to ADSCOM
April 30, 2015

D.T. Stone

4/24/2015 1



Basis of summary

Recently revised standards and standards in revision with a “mature” draft

- ADSCOM: • C37.100.1
• C37.100.2
- S/A & LV: • C37.20.10/D4
• C37.14, -.21, -.27
• C37.81, -.82, -121
• C37.17, -.59
- RODE: • C37.60
• C37.74
- Fuse: • C37.41/D5
- HVS: • C37.30.1/D1 rev21

4/24/2015 2

A few numbers

	Number of entries
• Original list of terms extracted from C37.100:	• 708
• Current list:	• 916
• Terms with a “home”:	• 551
• Terms without a “home”:	• 365
• Terms with multi. “homes”:	• 28

4/24/2015

3

Terms without a “home”

Where did they originate?

An educated guess:

High Voltage CB:	80
High Voltage Fuse:	77
High Voltage Switch:	74
Low Voltage SD:	63
RODE:	29
Other/mixed/sunset:	42+/-

Could many be allowed to sunset?

4/24/2015

4

Subcommittee Activities

Switchgear Assemblies & LVSD:

- Appears to be in the lead
- Balloted new standard C37.20.10
- Reviewed results this week
- Needs to review 63 terms with no home

4/24/2015

5

Subcommittee Activities (continued)

High Voltage Fuse:

- Running in 2nd place
- Draft of C37.41 contains most of HVF definitions.
 - Product standard,
not devoted just to definitions
 - Will take longer to publish; target - Fall 2016
- Needs to review 77 terms with no home

4/24/2015

6

Subcommittee Activities (continued)

RODE

- Running in 3rd place
- C37.74 published with definitions
- C37.60 well along with definitions
- C37.62 & -66 in in progress w/ definitions
- Needs to review 29 terms with no home

4/24/2015

7

Subcommittee Activities (continued)

ADSCOM

- Running a close 4th place
- C37.100.1 Common Req'ts:
 - Well along with several new terms
 - 1st ballot this summer
- C37.100.2 St'd Req't's for Capacitor Switching:
 - Preparing for 2nd ballot
 - ??? has a way to go

4/24/2015

8

Subcommittee Activities (continued)

Also running:

- High Voltage Circuit Breakers
- High Voltage Switch
 - Both subcommittees discussed topic for first time this week.
 - Between the two, need to review 154 terms with no home.

4/24/2015

9

Observations and Concerns

- Terms with multiple definitions
 - harmonized where possible
- Similar terms
 - harmonized where possible
 - ex.: “ambient temperature” and “ambient air temperature”
- Many long definitions
 - try hard to limit to one sentence
- Terms with “rated” should be avoided
 - ex.: Define the term “continuous current” but
 - place “rated continuous current” in the rating clause as a value, not a term.

4/24/2015

10