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Errata to IEEE Guide for Performing Arc-Flash Hazard Calculations

Developed by the
Petroleum and Chemical Industry Committee
of the
IEEE Industry Applications Society

Correction Sheet
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In the front matter, replace the paragraph after the keywords with the following:

Information related to the topic of this standard is available at: https://ieee-dataport.org/documents/arc-flash-phenomena.

In Annex F, page 80, change the information in row 4 (0.3 kV), column 4 (Gap in inches) as follows:

Table F.1—Summary of tests

Voltage (kV)	Current (kA)	Gap		Number of tests[a]	Enclosure (H × W × D)	
		mm	in		SI units (metric)	Imperial units
0.208	2.5–20	6.35–19.05	0.25–0.75	67	355.6 mm × 304.8 mm × 203.2 mm 203.2 mm × 152.4 mm × 152.4 mm	14 in × 12 in × 8 in 8 in × 6 in × 6 in
0.24	20–41	12.7–25.4	0.50–1.0	25	355.6 mm × 304.8 mm × 203.2 mm	14 in × 12 in × 8 in
0.3	20–60	25.4–38.1	1.0–1.5	24	355.6 mm × 304.8 mm × 203.2 mm	14 in × 12 in × 8 in
0.311	17–26	6.35–12.7	0.25–0.5	11	355.6 mm × 304.8 mm × 203.2 mm	14 in × 12 in × 8 in
0.48	0.5–80.2	10–50.8	0.4–2.0	369	508 mm × 508 mm × 508 mm	20 in × 20 in × 20 in
0.575	40	25.4–38.1	1.0–1.5	21	508 mm × 508 mm × 508 mm	20 in × 20 in × 20 in
0.60	0.5–37	12.7–101.6	0.5–4.0	375	508 mm × 508 mm × 508 mm	20 in × 20 in × 20 in
2.7	0.5–33	38.1–114.3	1.5–4.5	293	660.4 mm × 660.4 mm × 660.4 mm	26 in × 26 in × 26 in
2.97	37–40	38.1	1.5	32	660.4 mm × 660.4 mm × 660.4 mm 914.4 mm × 914.4 mm × 914.4 mm	26 in × 26 in × 26 in 36 in × 36 in × 36 in
3.90	60–65	38.1	1.5	18	660.4 mm × 660.4 mm × 660.4 mm 914.4 mm × 914.4 mm × 914.4 mm	26 in × 26 in × 26 in 36 in × 36 in × 36 in
4.16	20–63	38.1–76.2	1.5–3.0	184	660.4 mm × 660.4 mm × 660.4 mm	26 in × 26 in × 26 in
14.3	0.5–42	76.2–152.4	3.0–6.0	274	914.4 mm × 914.4 mm × 914.4 mm	36 in × 36 in × 36 in
0.253 (1-Ph)	5.0–23	6.35–19.05	0.25–0.75	41	Faraday cage	
12	2.3–9.1	254	10	136	Real equipment	
0.6	1.6–33			22	Real equipment	

[a]Some unsustainable tests and equipment damage during tests are not included in the list.

In Annex G, page 89, change the parenthetical information in the first paragraph as follows:

As observed from the test, the arcing current is relatively stable when the open circuit voltage is higher than 2700 V. However, the arcing current becomes dynamic and unstable at lower voltage (at or below 600 V), which makes it difficult to model I_{arc} based on laboratory test data.

In Annex G, page 89, change the parenthetical information after Figure G.12 as follows:

In lower voltage (≤ 600 V) tests, arcing current generally decreases with system voltage when other conditions remain the same.

In Annex H, page 128, change the caption of Figure H.9 as follows:

Figure H.9—Class L 1200 A fuse—incident energy versus bolted fault current

In Annex H, page 130, change the caption of Figure H.13 as follows:

Figure H.13—Class L 800 A fuse—incident energy versus bolted fault current

In Annex H, page 130, change the caption of Figure H.14 as follows:

Figure H.14—Class L 800 A fuse—lower current segment of model

In Annex H, page 130, change the caption of Figure H.15 as follows:

Figure H.15—Class L 800 A fuse—middle current segment of model

In Annex H, page 131, change the caption of Figure H.18 as follows:

Figure H.18—Class RK1 600 A fuse—upper current segment of model

In Annex H, page 134, change the caption of Figure H.27 as follows:

Figure H.27—Class RK1 100 A fuse—upper current segment of model