

International Accreditation Service
CERTIFICATE OF ACCREDITATION

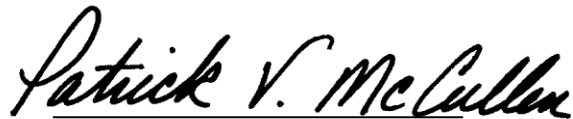
This is to signify that

RADCO (RESOURCES, APPLICATIONS, DESIGNS AND CONTROLS, INC.)

3220 EAST 59TH STREET
LONG BEACH, CALIFORNIA 90805

Testing Laboratory TL-209

has met the requirements of the IAS Accreditation Criteria for Testing Laboratories (AC89), has demonstrated compliance with ANS/ISO/IEC Standard 17025:2005, *General requirements for the competence of testing and calibration laboratories*, and has been accredited, commencing November 15, 2011, for the test methods listed in the approved scope of accreditation.



Patrick V. McCullen
Vice President



C. P. Ramani, P.E.
President



Print Date: 01/04/2012

(see attached scope of accreditation for fields of testing and accredited test methods)

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation.
See the IAS Accreditation Listings on the web at www.iasonline.org for current accreditation information, or contact IAS directly at (562) 364-8201.

International Accreditation Service
SCOPE OF ACCREDITATION

RADCO (Resources, Applications, Designs and Controls, Inc.) TL-209

RADCO (Resources, Applications, Designs and Controls, Inc.)
 3220 E. 59th St.
 Long Beach, CA 90805

Michael L. Zieman
 President
 (562) 272-7231

FIELDS OF TESTING	ACCREDITED TEST METHODS
Fire	1997 UBC Standards 2-1, 15-2 and 26-3; ASTM Standard D 635; API Standard 607-85; NFPA Standards 33, 85, 86, 160, 1123 and 1126
Wood	ASTM Standards D 2898 and D 3345; AWPA Standard E 1
Electrical	UL Standard 197, 307A, 508A Industrial control panels; NFPA 79 Electrical standard for industrial machinery (In laboratory or In-situ evaluation by designated personnel only) and 795
Physical/structural/materials	1997 UBC Standards 14-1, 14-2, 15-5, 15-6, 21-6 and 21-7; ASTM Standards A 74, A 126, A 438, A 792, B 117, B 306, C 67, C 97, C 109/C 109M, C 190, C 203, C 209, C 271, C 272, C 273, C 282, C 296, C 297, C 303, C 348, C 365, C 393, C 473, C 481, C 482, C 518, C 564, C 567, C 578, C 591, C 794, C 1167, C 1185, C 1186, C 1289, C 1386, D 146, D 226, D 256, D 380, D 412, D 471, D 570, D 572, D 618, D 624, D 638, D 648, D 696, D 751, D 756, D 779, D 781, D 790, D 792, D 816, D 828, D 882, D 896, D 903, D 905, D 1002, D 1037, D 1042,

November 15, 2011
 Commencement Date



C. P. Ramani
 C. P. Ramani, P.E.
 President

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Physical/structural/materials (continued)	D 1183, D 1204, D 1212, D 1248, D 1333, D 1435, D 1499, D 1527, D 1621, D 1622, D 1623, D 1682, D 1761, D 1784, D 1785, D 1788, D 1876, D 1938, D 1970, D 2126, D 2239, D 2241, D 2247, D 2261, D 2282, D2294, D 2299, D 2464, D 2466, D 2467, D 2468, D 2523, D 2581, D 2609, D 2661, D 2662, D 2666, D 2737, D 2751, D 2842, D 2846, D 2863, D 3034, D 3309, D 3311, D 3330, D 3350, D 3679, D 3930, D 3965, D 4226, D 4317, D 4396, D 4477, D 4533, D 4632, D 4869, D 5034, D 5147, D 5206, D 5420, D 5456, D 5733, D 5764, D 5795, D 6117, D 6662, D 6817, E 8, E 72, E 96, E 283, E 330, E 331, E 488, E 529, E 547, E 661, E 695, E 1190, E 1233, E 1333, E 1512, E 1677, E 2098, E 2134, E2178, E 2273, E 2485, E 2486, E 2568, E 2570, F 409, F 438, F 439, F 441, F 628, F 789, F 810, F 845, F 876, F 877, F 891, F 949, F 1281, F 1282, F 1575, F 1667, G 21, G 23, G 26, G 53, G 155 and G 154; ANSI/AAMA Standards 711 and 1402; AATCC 127; AISI TS-4; FMVSS 217; UL Standard 1296; ASME Standard A112.6.1M; ACI355.2 (except Chapter 4 and Sections 8.6, 9.6 and 9.7); Test methods referenced in Section 5.0 of ICC-ES Acceptance Criteria AC01, Section 4.0 of AC04, Sections 3.0 and 4.0 of AC07, Sections 4.3, 4.5, 4.7, 4.8 and 4.9 of AC07, Sections 4.2, 4.3 and 4.8 of AC11, Sections A3.5, A3.9, A4.2, A4.3 and A4.4 of AC16 (burning brand only), Sections 3.0 and 4.0 of AC 38, Sections 3.0 and 4.0 of AC 48, Sections 3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.1.5, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7 of AC51, Section 4.0 of AC58, Sections 3.1.2.1, 3.1.2.3, 3.1.2.7, 5.2, 5.3 and 5.4.3 of AC59 (flexural test, water absorption, freeze-thaw, bond test and environmental cycling only), Section 4.0 of AC70 and AC106, Section 3.4 of AC180 (uplift bend test only),

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C. P. Ramani
C. P. Ramani, P.E.
President

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Physical/structural/materials (continued)	Sections 3.0 and 4.0 of AC 212, Tables 4.1, 4.2, 4.3 and 4.4 of AC308 (Except Sections 8.16 - Table 4.2 (Test No.5), Table 4.3 (Test No. 5), Table 4.4 (Test No.5), 9.12 - Table 4.2 (Test No.17), Table 4.3 (Test No. 17) and Tables 4.4 (Test No. 16) and 9.13 - Table 4.2 (Test No.18), Table 4.3 (Test No. 18) and Table 4.4 (Test No.17), Section 4.0 of AC310, Section 4.0 of AC 358 and Section 3.0 of AC394; AS/NZS 4256 and 4257; CAN/CSGB 41.24, 51.26-M86 and 51.32-M77; CAN ULC-S701
Equipment	UL Standards 103, 127, 181, 197, 234, 295, 307A, 307B, 311, 441, 471, 737, 795, 1046, 1075, 1083, 1091 and 1995; ASME Standards A112.1.2, A112.19.5, A112.19.7M, A112.19.9M, A112.21.1M and A112.21.2M; ANSI Standards A112.14.1, A112.18.1M, A112.19.2M, A112.19.3, A112.19.6, A112.36.2M, B16.3, B16.4, B16.12, B16.15, B16.18, B16.22, B16.23, B16.24, B16.26, B16.29, Z21.1, Z21.5.1, Z21.5.2, Z21.8, Z21.10.1, Z21.10.3, Z21.11.2, Z21.12, Z21.13, Z21.19, Z21.40.1, Z21.40.2, Z21.42, Z21.47, Z21.50, Z21.56, Z21.57, Z21.58, Z21.60, Z21.61, Z21.63, Z21.72, Z21.73, Z21.74, Z21.84, Z21.86, Z21.88, Z21.89, Z21.97, , Z83.4, Z83.7, Z83.8, , Z83.11, Z83.18,Z83.19, Z83.20, Z83.25, Z83.26, Requirement 8-96, Z124.1, Z124.2, Z124.3, Z124.4 and Z124.6; ANSI/ASME Standards A112.19.1M, A112.19.4M, A112.26.1M and B1.20.1; ASSE Standards 1001, 1003, 1005, 1011, 1012, 1013, 1014, 1015, 1020, 1024, 1025, 1032, 1035, 1047, 1048, 1050, 1051 and 1052; NSF Standards 2, 4, 7, 8 and 59; ANSI/ASSE Standards 1002, 1019 and 1037; IAS 4-96; A.G.A

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