

International Accreditation Service

# CERTIFICATE OF ACCREDITATION

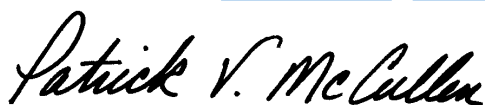
*This is to signify that*

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

3220 EAST 59TH STREET  
LONG BEACH, CALIFORNIA 90805

Testing Laboratory TL-209  
(Revised January 20, 2010)

has met the requirements of the IAS Accreditation Criteria for Testing Laboratories (AC89), has demonstrated compliance with ANS/ISO/IEC Standard 17025:2005, *General criteria for the competence of testing and calibration laboratories*, and has been accredited, commencing November 20, 2009, for the test methods listed in the approved scope of accreditation.



Patrick V. McCullen  
Vice President



C. P. Ramani, P.E.  
President

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

Print Date: 02/03/2010

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This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation, revocation, or expiration of accreditation. See the IAS Accreditation Listings on the web at [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS directly at (562) 699-0541.

## International Accreditation Service

# SCOPE OF ACCREDITATION

RADCO (Resources, Applications, Designs and Controls, Inc) TL-209  
(Revised January 20, 2010)

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 Standard D 3345; AWWA E 1
Electrical	UL 197, 307A, 508A Industrial control panels, NFPA 79 Electrical standard for industrial machinery (In laboratory or In-situ evaluation by designated personnel only), 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 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

November 20, 2009  
Commencement Date

Print Date: 02/03/2010



C. P. Ramani, P.E.  
President

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FIELDS OF TESTING	ACCREDITED TEST METHODS
Physical/structural/materials (continued)	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, 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, D 2294, 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 4869, D 5034, D 5147, D 5206, D 5420, D 5456, D 5733, D 5764, 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,

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FIELDS OF TESTING	ACCREDITED TEST METHODS
Physical/structural/materials (continued)	E 1333, E 1512, E 1677, E 2098, E 2134, E 2273, E 2485, E 2486, E 2568, 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 and G 155; 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, Section 4.6 of AC51 (water absorption only), 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, Section 4.0 of AC106, Section 3.4 of AC180 (uplift bend test only), Tables 4.1 and 4.2 of AC193, 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) and Table 4.4 (Test No.5), 9.12 -

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Physical/structural/materials (continued)	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,

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Equipment (continued)	Z83.25, Z83.26, 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 Requirement 8-96

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