

# RECOGNIZED LABS

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Please provide your agency's IAS TL #: <b>209</b>

## RADCO'S IAS ACCREDITATION SCOPE

### *Physical/Structural/Materials*

<i>ASTM A74</i>	Cast Iron Soil Pipe and Fittings
<i>ASTM A126</i>	Gray Iron Castings for Valves, Flanges, and Pipe Fittings
<i>ASTM B306</i>	Copper Drainage Tube (DWV)
<i>ASTM C564</i>	Rubber Gaskets for Cast Iron Soil Pipe and Fittings
<i>ASTM D2239</i>	Polyethylene (PE) Plastic Pipe (SIDR-PR) Based on Controlled Inside Diameter
<i>ASTM D2241</i>	Poly(Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR Series)
<i>ASTM D2282</i>	Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe (SDR-PR)
<i>ASTM D2464</i>	Threaded Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 8
<i>ASTM D2466</i>	Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40
<i>ASTM D2467</i>	Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80
<i>ASTM D2468</i>	Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe Fittings, Schedule 40 (Withdrawn 2003)
<i>ASTM D2581</i>	Polybutylene (PB) Plastics Molding and Extrusion Materials
<i>ASTM D2609</i>	Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe
<i>ASTM D2661</i>	Drain, Waste, and Vent (DWV) Pipe and Fittings
<i>ASTM D2662</i>	Polybutylene (PB) Plastic Pipe (SIDR-PR) Based on Controlled Inside Diameter (Withdrawn 2003)

## **RADCO'S IAS ACCREDITATION SCOPE**

### ***Physical/Structural/Materials***

<i>ASTM D2666</i>	Polybutylene (PB) Plastic Tubing (Withdrawn 2005)
<i>ASTM D2737</i>	Polyethylene (PE) Plastic Tubing
<i>ASTM D2751</i>	Acrylonitrile-Butadiene-Styrene (ABS) Sewer Pipe and Fittings
<i>ASTM D2846</i>	Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Hot- and Cold-Water Distribution Systems
<i>ASTM D3034</i>	Type PSM Poly(Vinyl Chloride) (PVC) Sewer Pipe and Fittings
<i>ASTM D3309</i>	Polybutylene (PB) Plastic Hot- and Cold-Water Distribution Systems
<i>ASTM D3311</i>	Drain, Waste, and Vent (DWV) Plastic Fittings Patterns
<i>ASTM D3965</i>	Rigid Acrylonitrile-Butadiene-Styrene (ABS) Materials for Pipe and Fittings
<i>ASTM D4396</i>	Rigid Poly(Vinyl Chloride) (PVC) and Chlorinated Poly(Vinyl Chloride) (CPVC) Compounds for Plastic Pipe and Fittings
<i>ASTM F409</i>	Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings
<i>ASTM F438</i>	Socket-Type Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40
<i>ASTM F439</i>	Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80
<i>ASTM F441</i>	Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe, Schedules 40 and 80
<i>ASTM F628</i>	Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40, Plastic Drain, Waste, and Vent Pipe With a Cellular Core
<i>ASTM F789</i>	Type PS-46 and Type PS-115 Poly(Vinyl Chloride) (PVC) Plastic Gravity Flow Sewer Pipe and Fittings
<i>ASTM F810</i>	Smoothwall Polyethylene (PE) Pipe for Use in Drainage and Waste Disposal Absorption Fields
<i>ASTM F845</i>	Plastic Insert Fittings for Polybutylene (PB) Tubing
<i>ASTM F876</i>	Crosslinked Polyethylene (PEX) Tubing
<i>ASTM F877</i>	Crosslinked Polyethylene (PEX) Plastic Hot- and Cold-Water Distribution Systems
<i>ASTM F891</i>	Coextruded Poly(Vinyl Chloride) (PVC) Plastic Pipe With a Cellular Core
<i>ASTM F949</i>	Poly(Vinyl Chloride) (PVC) Corrugated Sewer Pipe With a Smooth Interior and Fittings
<i>ASTM F1281</i>	Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene (PEX-AL-PEX) Pressure Pipe
<i>ASTM F1282</i>	Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure Pipe

### ***FIRE TESTING***

<i>API Standard 607-85</i>	Fire Test for Soft-Seated Quarter Turn Valves
<i>NFPA 33</i>	Standard for Spray Application Using Flammable or Combustible Materials
<i>NFPA 85</i>	Boiler and Combustion Systems Hazards Code
<i>NFPA 86</i>	Standard for Ovens and Furnaces
<i>NFPA 160</i>	Standard for the Flame Effects Before an Audience
<i>NFPA 1123</i>	Code for Fireworks Display
<i>NFPA 1126</i>	Standard for the Use of Pyrotechnics Before a Proximate Audience
<i>UBC 2-1</i>	Noncombustible Material - Tests

### ***Equipment***

<i>UL 103</i>	Factory-Built Chimneys for Residential Type and Building Heating Appliances
<i>UL 127</i>	Factory-Built Fireplaces
<i>UL 295</i>	Commercial-Industrial Gas Burners
<i>UL 307A</i>	Liquid Fuel-Burning Heating Appliances for Manufactured Homes and Recreational Vehicles
<i>UL 307B</i>	Gas-Burning Heating Appliances for Manufactured Homes and Recreational Vehicles
<i>UL 737</i>	Fireplace Stoves
<i>UL 795</i>	Commercial-Industrial Gas Heating Equipment
<i>UL 1075</i>	Gas-Fired Cooking Appliances for Recreational Vehicles
<i>UL 1091</i>	Butterfly Valves for Fire-Protection Service
<i>ANSI A112.1.2</i>	Air Gaps In Plumbing Systems (For Plumbing Fixtures and Water-Connected Receptors)
<i>ANSI A112.14.1</i>	Backwater Valves

## **RADCO'S IAS ACCREDITATION SCOPE**

### ***Physical/Structural/Materials***

<i>ANSI/ASME A112.19.1M</i>	Enameled Cast Iron and Steel Plumbing Fixtures
<i>ANSI/ASME A112.19.4M</i>	Porcelain Enameled Formed Steel Plumbing Fixtures
<i>ANSI/ASME A112.19.5</i>	Trim for Water-Closet Bowls, Tanks, and Urinals
<i>ANSI/ASME A112.19.7M</i>	Whirlpool Bathtub Appliances
<i>ANSI/ASME A112.19.9M</i>	Non-Vitreous Ceramic Plumbing Fixtures
<i>ANSI/ASME A112.21.1M</i>	Floor Drains (Replaced with ANSI/ASME A112.6.3-2001 Floor and Trench Drains)
<i>ANSI/ASME A112.21.2M</i>	Roof Drains
<i>ANSI/ASME A112.18.1M</i>	Plumbing Supply Fittings
<i>ANSI/ASME A112.19.2M</i>	Ceramic Plumbing Fixtures
<i>ANSI/ASME A112.19.3</i>	Stainless Steel Plumbing Fixtures
<i>ANSI/ASME A112.19.6</i>	Hydraulic Performance Requirements for Water Closets and Urinals
<i>ANSI/ASME A112.26.1M</i>	Water Hammer Arresters
<i>ANSI/ASME A112.36.2M</i>	Cleanouts
<i>ANSI/ASME B1.20.1</i>	Pipe Threads, General Purpose (Inch)
<i>ANSI/ASME B16.3</i>	Malleable Iron Threaded Fittings: Classes 150 and 300
<i>ANSI/ASME B16.4</i>	Gray Iron Threaded Fittings Classes 125 and 250
<i>ANSI/ASME B16.12</i>	Cast Iron Threaded Drainage Fittings
<i>ANSI/ASME B16.12</i>	Cast Copper Alloy Threaded Fittings: Classes 125 and 250
<i>ANSI B16.18</i>	Cast Copper Alloy Solder Joint Pressure Fittings
<i>ANSI/ASME B16.22</i>	Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings
<i>ANSI/ASME B16.23</i>	Cast Copper Alloy Solder Joint Drainage Fittings - DWV
<i>ANSI/ASME B16.24</i>	Cast Copper Alloy Pipe Flanges and Flanged Fittings
<i>ANSI/ASME B16.26</i>	Cast Copper Alloy Fittings for Flared Copper Tubes
<i>ANSI/ASME B16.29</i>	Wrought Copper and Wrought Copper Alloy Solder Joint Drainage Fittings - DWV
<i>ANSI Z21.1</i>	Household Cooking Gas Appliances
<i>ANSI Z21.5.1</i>	Gas Clothes Dryers - Volume I, Type I Clothes Dryers
<i>ANSI Z21.5.2</i>	Gas Clothes Dryers - Volume II, Type 2 Clothes Dryers
<i>ANSI Z21.8</i>	Installation of Domestic Gas Conversion Burners
<i>ANSI Z21.10.1</i>	Gas Water Heaters Volume I, Storage Water Heaters With Input Ratings Of 75,000 Btu Per Hour Or Less
<i>ANSI Z21.10.3</i>	Gas Water Heaters - Volume III, Storage Water Heaters With Input Ratings Above 75,000 Btu per Hour, Circulating and
<i>ANSI Z21.11.2</i>	Gas-Fired Room Heaters - Volume II, Unvented Room Heaters
<i>ANSI Z21.12</i>	Draft Hoods
<i>ANSI Z21.13</i>	Gas-Fired Low Pressure Steam and Hot Water Boilers
<i>ANSI Z21.19</i>	Refrigerators Using Gas Fuel (same as CSA 1.4)

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<i>ANSI Z21.40.1</i>	Gas-Fired, Heat Activated Air Conditioning and Heat Pump Appliances
<i>ANSI Z21.40.2</i>	Gas-Fired, Work Activated Air-Conditioning and Heat Pump Appliances (Internal Combustion)
<i>ANSI Z21.42</i>	Gas-Fired Illuminating Appliances
<i>ANSI Z21.47</i>	Gas-Fired Central Furnaces
<i>ANSI Z21.50</i>	Vented Gas Fireplaces
<i>ANSI Z21.56</i>	Gas-Fired Pool Heaters
<i>ANSI Z21.57</i>	Recreational Vehicle Cooking Gas Appliances
<i>ANSI Z21.58</i>	Outdoor Cooking Gas Appliances
<i>ANSI Z21.60</i>	Decorative Gas Burning Appliances for Installation in Solid-Fuel Burning Fireplaces
<i>ANSI Z21.63</i>	Portable Type Gas Camp Heaters
<i>ANSI Z21.72</i>	Portable Type Gas Camp Stoves (same as CSA 11.2)
<i>ANSI Z21.73</i>	Portable Type Gas Camp Lights
<i>ANSI Z21.74</i>	Portable Refrigerators for Use With HD-5 Propane Gas
<i>ANSI Z21.84</i>	Manually Lighted, Natural Gas Decorative Gas Appliances for Installation in Solid-fuel Burning Fireplaces
<i>ANSI Z21.86</i>	Vented Gas-Fired Space Heating Appliances
<i>ANSI Z21.88</i>	Vented Gas Fireplace Heaters
<i>ANSI Z21.89</i>	Outdoor Cooking Specialty Gas Appliances
<i>ANSI Z21.97</i>	Outdoor Open Flame Decorative Gas Appliances
<i>ANSI Z83.4</i>	Non-Recirculating Direct Gas-Fired Industrial Air Heaters
<i>ANSI Z83.7</i>	Gas-Fired Construction Heaters (same as CSA 2.14)
<i>ANSI Z83.8</i>	American National Standard (ANSI Z83.8-2006) /CSA Standard for Gas Unit Heaters And Gas-Fired Duct Furnaces

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### ***Physical/Structural/Materials***

<i>ANSI Z83.11</i>	Gas Food Service Equipment
<i>ANSI Z83.18</i>	Recirculating Direct Gas-Fired Industrial Air Heaters
<i>ANSI Z83.19</i>	Gas-Fired High-Intensity Infrared Heaters
<i>ANSI Z83.20</i>	Gas-Fired Low-Intensity Infrared Heaters
<i>ANSI Z83.25</i>	Direct Gas-Fired Process Air Heaters
<i>ANSI Z83.26</i>	Gas-Fired Outdoor Infrared Patio Heaters
<i>ANSI Z124.1</i>	Plastic Bathtub And Shower Units
<i>ANSI Z124.2</i>	Plastic Shower Units
<i>ANSI Z124.3</i>	Plastic Lavatories
<i>ANSI Z124.4</i>	Plastic Water Closet Bowls And Tanks
<i>ANSI Z124.6</i>	Plastic Sinks
<i>ASSE 1001</i>	Performance Requirements for Atmospheric Type Vacuum Breakers
<i>ASSE 1002</i>	Performance Requirements for Anti-siphon Fill Valves for Water Closet Tanks
<i>ASSE 1003</i>	Performance Requirements for Water Pressure Reducing Valves
<i>ASSE 1005</i>	Performance Requirements for Water Heater Drain Valves 3/4 Inch Size
<i>ASSE 1011</i>	Performance Requirements for Hose Connection Vacuum Breakers
<i>ASSE 1012</i>	Performance Requirements for Backflow Preventers with an Intermediate Atmospheric Vent
<i>ASSE 1013</i>	Performance Requirements for Reduced Pressure Principle Backflow Preventers and Reduced Pressure Principle Fire Protection Backflow Preventers
<i>ASSE 1014</i>	Performance Requirements for Backflow Prevention Devices for Hand-held Showers
<i>ASSE 1015</i>	Performance Requirements for Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies
<i>ASSE 1019</i>	Performance Requirements for Vacuum Breaker Wall Hydrants, Freeze Resistant, Automatic Draining Type
<i>ASSE 1020</i>	Performance Requirements for Pressure Vacuum Breaker Assembly
<i>ASSE 1024</i>	Performance Requirements for Dual Check Backflow Preventers
<i>ASSE 1025</i>	Performance Requirements for Diverters for Plumbing Faucets with Hose Spray, Anti-siphon Type, Residential Applications
<i>ASSE 1032</i>	Performance Requirements for Dual Check Valve Type Backflow Preventers for Carbonated Beverage Dispensers, Post Mix Type
<i>ASSE 1035</i>	Performance Requirements for Laboratory Faucet Backflow Preventers
<i>ASSE 1047</i>	Performance Requirements for Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies
<i>ASSE 1048</i>	Performance Requirements for Double Check Detector Fire Protection Backflow Prevention Assemblies
<i>ASSE 1050</i>	Performance Requirements for Stack Air Admittance Valves for Sanitary Drainage Systems
<i>ASSE 1051</i>	Performance Requirements for Individual and Branch Type Air Admittance Valves for Sanitary Drainage Systems
<i>NSF/ANSI Standard 2</i>	Food Service Equipment
<i>NSF/ANSI Standard 4</i>	Commercial Cooking, Rethermalization and Powered Hot Food Holding, and Transport Equipment
<i>NSF/ANSI Standard 7</i>	Commercial Refrigerators and Freezers
<i>NSF/ANSI Standard 8</i>	Commercial Powered Food Preparation Equipment
<i>NSF/ANSI Standard 59</i>	Mobile Food Carts
<i>IAS 4-96</i>	Outdoor Gas Fireplaces
<i>AGA Requirement 8-96</i>	Gas-Fired Decorative Illuminating Appliances for Outdoor Installation