

## POTENTIAL PROJECTS FOR POSSIBLE BID IN FALL 2024

A portion of the following nine tentative research projects (TRPs) will be considered at RAC's Fall meeting for possible bid or re-bid. Bids for all projects released in fall 2024 are due Monday, December 16th:

Potential Projects to Release for Bid in fall 2024 if ready:

- **1566-TRP-R**, *Equations to estimate evaporation rates from heated water pools in indoor recreational aquatic facilities*; Responsible Committee: **TC 8.10** (Mechanical Dehumidification Equipment and Heat Pipes); Co-Sponsors: TC 9.8 (Large Building Air-Conditioning Applications); Co-funding: None; Estimated Duration: 24 months; Estimated Cost to ASHRAE: \$150,000; Status: **Rebid with revised WS and expanded recommended bidders list.**
- **1873-TRP-R**, *Upper-Air Ultraviolet Germicidal Irradiation (UVGI) for Tall Spaces (Rebid)*; Responsible Committee: **TC 2.09** (Ultraviolet Air and Surface Treatment); Co-Sponsors: TC 9.6 (Healthcare Facilities); Co-funding: None; Estimated Duration: 30 months; Estimated Cost to ASHRAE: \$190,000; Status: **Rebid with revised WS and expanded recommended bidders list.**
- **1909-TRP**, *In-Tube Condensing Flue Gas Heat Transfer and Pressure Drop with Enhancements for Residential Furnaces*; Responsible Committee: **TC 1.03** (Heat Transfer and Fluid Flow); Co-Sponsors: TC 6.03 (Residential and Light Commercial Forced Air Heating and Cooling Systems); Co-funding: None; Estimated Duration: 30 months; Estimated Cost to ASHRAE: \$245,500; Status: **Clear RAC Approval conditions with RL.**
- **1910-TRP-C**, *Evaluation of Standard 103 Transient Components and Thermostat Cycle Times on the Resulting AFUE (rebid)*; Responsible Committee: **TC 6.03**, (Residential and Light Commercial Forced Air Heating and Cooling Systems); Co-Sponsors: None; Co-funding: None; Estimated Duration: 36 months; Estimated Cost to ASHRAE: \$235,000; Status: **Ready.**
- **1913-TRP-C**, *Study of the Corrosion Impact on Information Technology Equipment in Data Centers Located in Coastal Regions with High Sea Salt Concentration*; Responsible Committee: **TC 9.9** (Mission Critical Facilities, Data Centers, Technology Spaces and Electronic Equipment); Co-Sponsors: TC 2.03 (Gaseous Air Contaminants and Gas Contaminant Removal Equipment), TC 2.04 (Particulate Air Contaminates and Particulate Contaminant Removal Equipment); Estimated Duration: 24 months; Estimated Cost to ASHRAE: \$280,000; Status: **Clear RAC Approval conditions with RL.**
- **1915-TRP-C**, *Refrigerated Facilities Doorway Infiltration Air Energy Reduction*; Responsible Committee: **TC 10.02** (Refrigeration Applications); Co-Sponsors: None; Co-funding: None; Estimated Duration: 22 months; Estimated Cost to ASHRAE: \$300,000; Status: **Clear RAC Approval conditions with RL.**
- **1918-TRP-R** (Re-bid), *The Verification of openings, the limitations of openings, air distribution and humidity conditions in Naturally Ventilated spaces to compliment Section 6.4 of ASHRAE Standard 62.1*; Responsible Committee: **SSPC 62.1**, (Ventilation and Acceptable Indoor Air Quality); Co-Sponsors: None; Co-funding: None; Estimated Duration: 10 months; Estimated Cost to ASHRAE: \$104,940; Status: **Rebid with revised WS and expanded recommended bidders list.**
- **1947-TRP**, *Climate change driven extreme temperature effects for efficiency and resilience map of heat pump technology*; Responsible Committee: **TC 2.05** (Global Climate Change); Co-Sponsors: TC 4.2 Climatic Information; TC 2.8 Building Environmental Impacts and Sustainability Co-funding: None; Estimated Duration: 36 months; Estimated Cost to ASHRAE: \$265,000; Status: **Clear RAC Approval conditions with RL.**

- **1964-TRP-C, *Optimizing Heating System Performance in Warmup and Setback Modes*; Responsible Committee: TC 1.04 (Control Theory and Application); Co-Sponsors: TC 7.05 (Smart Building Systems) None; Co-funding: None; Estimated Duration: 24 months; Estimated Cost to ASHRAE: \$280,000; Status: **Clear RAC Approval conditions with RL.****