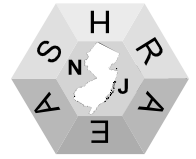




THERMOGRAM



The New Jersey Chapter of ASHRAE Newsletter

WWW.NJASHRAE.COM

OCTOBER 2006

REPLY@NJASHRAE.COM

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PETER FRANGISKOU P.E.
201-945-9999

REFRIGERATION

JIM CASEY

ROSTER/DIRECTORY

OPEN

NOVEMBER 2, 2006

WOODBIDGE SHERATON
ROUTE 1, GILL LANE, ISELIN, NJ

PAST PRESIDENT'S NIGHT

COST \$50.00 MEMBERS, \$55.00 GUESTS &
\$5.00 STUDENT

RSVP TO:

WWW.REPLY@NJASHRAE.COM
NO LATER THAN NOV 1ST

4:30 BOARD OF GOVERNORS MEETING
5:30 GUEST REGISTRATION / COCKTAIL HOUR
6:30 CHAPTER ANNOUNCEMENTS
7:15 DINNER AND PRESENTATION

DINNER TOPIC:

**"PRINCIPLES OF INFRARED HEATING TECHNOLOGY
AND IT'S APPLICATIONS"**

PRESENTED BY MR. ROBERT GENISOL,
SPACE RAY GAS-FIRED PRODUCTS

*"Speaker will present on gas-fired heating products and applications in
the construction market"*

Come and Visit NEW JERSEY ASHRAE CHAPTER BOOTH # 416

Plant Engineering & Facility Managers Show 2006

Garden State Exhibit & Convention Center, Somerset, N.J.
NOVEMBER 1ST & 2ND, 2006

WWW.PROEXPOS.COM

COMMITTEES
(CONTINUED)
CTTC – TEGA
 MARK RICHTER P.E.
212-354-5656
NEWSLETTER ADS

OPEN

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ASHRAE ATLANTA
TOLL FREE NUMBER
1-(800)-527-4723

• PRESIDENT'S MESSAGE

Please join us for our monthly meetings. NJ ASHRAE meetings are held the first Thursday of the month at the Sheraton Woodbridge on Route 1. There are excellent networking opportunities with engineers, contractors, manufacturers' reps, engineering students, and others involved with HVAC&R. There is always a presentation of a topic of interest at the meeting – whether it's a review of noise criteria for auditoria, geothermal applications, or heatwheel technology. Some presentations qualify for PDH credits, which are useful for those registered in some other states to keep up their P.E. licensure. We are looking to increase participation by our younger NJ ASHRAE members as part of YEA (Young Engineers in ASHRAE). There is a wide range of involvement opportunities for members in the various stages of your membership - as a new member or a long-term member – there's a place here for you!

Hope to see you at the next NJ ASHRAE meeting.

Sincerely,
Jori Fahrenfeld, *Chapter President*

NOVEMBER SPEAKERS BIOGRAPHY

Bob Genisol is the Vice President of Sales and Marketing for Space-Ray, a division of Gas-Fired Products, Inc., Charlotte, North Carolina. He received his BS in Mechanical Engineering from Washington University in Saint Louis, Missouri, with concentration on Energy Systems. He also received an MBA from Babcock Graduate School of Management of Wake Forest University in Winston Salem, North Carolina. Prior to joining Space-Ray, Mr. Genisol worked for a private consulting firm. He has 20 years of experience utilizing infrared heaters in various space as well as process heating applications, and he was instrumental in the development of infrared tube heaters for residential garages.

Mr. Genisol is an ASHRAE member and is involved with various ASHRAE sub-committees including TC6.5 on Radiant Space Heating & Cooling and TC6.5 Handbook sub-committee on Radiant Heating. He currently is working with GAMA's Infrared Division Technical Committee on the Development of Test Methodology for Determining the Radiant Output of Tube-Type Infrared Heaters

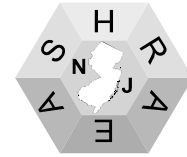
IMPORTANT NOTICES

DUE TO THE RISING COST OF BULK MAILINGS, THE CHAPTER WILL BE REDUCING THE FREQUENCY OF POSTCARD MAILERS TO OUR CHAPTER MEMBERS THIS YEAR. AS SUCH, YOU WILL NOT RECEIVE MONTHLY DINNER POSTCARDS AS IN THE PAST. THE MAILINGS WILL BE LIMITED TO APPROXIMATELY TWO MAILERS THROUGH THE YEAR, HIGHLIGHTING DINNER MEETINGS. WE WILL CONTINUE TO SEND OUT SPECIAL MAILERS REGARDING OTHER CHAPTER EVENTS AS WELL AS MONTHLY NEWSLETTER EMAILS TO KEEP MEMBERS INFORMED OF EVENTS.

IN ADDITION, WE HAVE ELIMINATED OUR TOLL FREE 800 NUMBER. IF YOU NEED TO CONTACT THE CHAPTER, EMAIL WWW.REPLY@NJASHRAE.COM OR CONTACT ANY OF THE CHAPTER OFFICERS OR COMMITTEE CHAIRS.



NJ ASHRAE 2006 – 2007
DINNER MEETING SCHEDULE



DECEMBER 7, 2006

RESEARCH AND PROMOTION NIGHT

BUILDING ENERGY EFFICIENCY

MR. JEFFREY GRANT P.E., C.E.M., C.E.P.
 MACK CALI REALTY CORPORATION

JANUARY X, 2007

JOINT MEETING WITH MCA & ASPE

FEBRUARY 1, 2007

MEMBERSHIP AND HISTORY NIGHT

COMPARISON OF ASHRAE NOISE CRITERION

MR. MATTHEW MURELLO, P.E.
 LEWIS S. GOODFRIEND & ASSOCIATES

MARCH 1, 2007

AIR OUTLET DESIGN AND DISTRIBUTION

MR. PETER PETRACA
 N.J. AIR PRODUCTS

APRIL 5, 2007

STUDENT NIGHT

ASHRAE DISTINGUISHED LECTURER
 TBD

MAY 3, 2007

SCHOLARSHIP AWARD NIGHT

INSTALLATION OF OFFICERS
 JOINT MEETING WITH N.J. USGBC
 TBD

JUNE 7, 2007

SPOUSES NIGHT

2006-2007 PRESIDENTIAL AWARD OF EXCELLENCE (PAOE) SUMMARY

Chapter #	Chapter Name	Chapter Members/students	Member Promotion	Student Activities	Research Promotion	CTTC	History	Chapter Operations	Chapter PAOE Totals
007	N.J.	831	0	0	0	0	0	0	0

ASHRAE Region 1 Executive Committee 2006-2007

<p>DRC - DIRECTOR & REGIONAL CHAIR Term: 2006-07-01 to 2009-06-30 Garry N. Myers Flack + Kurtz Inc. 73 Bonnie Way Allendale, NJ 07401 Phone:(B) 212-951-2815 Email: Garry.Myers @ ny.fk.com</p>	<p>ARC - ASSISTANT REGIONAL CHAIR & TREASURER Term: 2006-07-01 to 2007-06-30 Mike Circosta County Of Westchester 8 Bayberry Rd Armonk NY 10504-1005 Phone:(B) 914-995-2573 Email: mgc3 @ westchestergov.com</p>
<p>NOMINATING COMMITTEE MEMBER Gus Mastro University of Vermont 24 Tanglewood Drive Essex Junction, VT 05452 Phone:(B) 802-656-2186 Email: gmastro @ uvm.edu</p>	<p>NOMINATING COMMITTEE ALTERNATE Cliff Konitz 4 Dennis Road Wappingers Falls, NY 12590 Retired Phone:(H) 845-297-5864 Email: c.konitz @ verizon.net</p>
<p>RVC MEMBERSHIP PROMOTION Term: 2006-07-01 to 2007-06-30 Spencer Morasch Jersey Central Power Light Bldg. 3 331 Newman Springs Road Redbank, NJ 07701 Phone:(B) 732-212-4133 Email: smorasch @ firstenergycorp.com</p>	<p>RVC RESEARCH PROMOTION Term: 2006-07-01 to 2009-06-30 Ron Swarthout 921 Forest Road Endwell, NY 13790 Retired Phone: (607)-754-7590 Email: rwswarthou @ cs.com</p>
<p>RVC CHAPTER TECHNOLOGY TRANSFER Term: 2006-07-01 to 2009-06-30 Lee Loomis 74 Copper Woods Pittsford, New York 14534 Retired Phone: (H) (585) 248-0219 Email: leeloom @ aol.com</p>	<p>RVC STUDENT ACTIVITIES Term: 2004-07-01 to 2007-06-30 Emery Otruba Steam Plant Systems, Inc. 900 Commerce Drive Clifton Park, NY 12065 Phone:(B) 518-877-8805 Ext 16 Email: eotruba @ steamplantsystems.com</p>
<p>REGIONAL CHAPTER PROGRAMS Term: 2006-07-01 to 2007-06-30 Peter Oppelt R.F. Peck Co. 889 Atlantic Ave. Rochester, NY 14609 Phone:(B) 585-697-0836 x103 Fax: 585-697-0839 Email: poppelt @ rfpeck.com</p>	<p>REGIONAL REFRIGERATION CHAIR Term: 2006-07-01 to 2007-06-30 Wayne J Vanasse ARC Mechanical Contractors, Inc. PO Box 307 Wells River, VT 05081 Phone: (B) 802-222-9255 Fax: 802-222-5111 Email: wvanasse @ arcmech.com</p>
<p>REGIONAL HISTORIAN Term: 2006-07-01 to 2009-06-30 Phil Knowlton Knowlton Associates 191 Middle Haddam Road Portland, CT 06480 Phone: (B) 860-642-3970 Email: pbknowlton @ comcast.net</p>	<p>WEBMASTER & NEWSLETTER JUDGE Term:2001-07-01 to 2009-06-30 Mike Colwell Tri Cities Temperature Control 122 Park Avenue Binghamton, NY 13903 Phone: (B) 607-724-8282 Email: mike.colwell @ mail.ashrae.org</p>
<p>2006 CRC GENERAL CHAIR, Maine Chapter Term: 2006-07-01 to 2007-06-30 Jeff LaPierre, PE, LEED AP DiGiorgio Associates, Inc. 484 Maine Ave. Farmingdale, ME 04344 Phone: (207) 582-2400 Fax: (207) 582-8320 email: jlapiere @ dai-boston.com</p>	

HELP WANTED

Drafter/Estimator/Designer

A well established New Jersey family-owned Design-Build Mechanical Contracting & Service company is seeking a highly qualified Drafter / Designer / Estimator to join their expanding commercial and institutional contracting business.

Job Purpose:

Candidate will work closely with owners in preparing mechanical drawings, estimating material/equipment/sub-contracting costs, and designing new construction projects.

Minimal Requirements:

10-15 years in commercial/industrial HVAC industry, non-smoker, college degree, experience with CADD, project design, estimating & organizational skills for multiple projects, ability to work independently meeting specific time deadlines.

Duties:

- Prepares rough sketches and final as-built drawings.
- Onsite observations to validate mechanical layout.
- Organize and prioritize multiple projects.
- Solicit vendors and accurately make comparisons for material cost take-offs.
- Design drawings for new design/build projects.
- Maintains reliable data base on current and future work.

Skills/Qualifications:

CADD, Microsoft office suite, scheduling, self-motivated, vendor relationships, deadline-oriented, U.S. citizen, excellent teamwork, focused concentration, emotionally resilient, pleasant attitude.

Salary/Benefits: Competitive salary, comprehensive medical/dental/401k plan

Ken Celiano, Psy.D.

Dir. Personnel & Organizational Development

AJ Celiano, Inc. 460 Ludlow Ave

Cranford, NJ 07016 847-338-2199 (mobile)

www.ajceliano.com - kceliano@ajceliano.com



SCHOOR DEPALMA
Engineers and Consultants

Sr. HVAC Engineer for our Manalapan, New Jersey office

Schoor DePalma, one of the region's leading engineering and consulting firms, employs more than 1100 professionals from 22 office locations throughout New Jersey, Pennsylvania, New York, Florida, Arizona and Maryland.

Schoor DePalma is looking for a senior HVAC engineer to manage an HVAC group as part of an MEP Department in the Manalapan, NJ office. 10+ years of HVAC building design experience required and a NJ PE license. LEED accredited a plus. Excellent growth opportunity in a growing department.

HELP WANTED

WANTED – TOP NOTCH ENGINEERS / TECHNICIANS!!

Specializing in hands-on field testing and evaluation of HVAC systems and site utilities, the Dome-Tech Group provides engineering services, energy consulting and project development and implementation to optimize building performance, reduce energy expenses and improve indoor environmental quality. Dome-Tech is actively hiring for the following challenging career positions:

Commissioning Field Technician / Engineer

The ideal candidate must have 5+ years of field related experience with HVAC systems such as air/water balancing, system start-up and commissioning, service/maintenance, operations and troubleshooting. Experience conducting functional tests of chillers, boilers, AHUs, VAVs and other HVAC equipment required. An engineering or technology degree is desired.

Energy Engineer

Dome-Tech Energy Advisors is seeking qualified energy engineers to support demand for its energy consulting services. The ideal candidate will possess either a BSME or BSEE (PE, CEM desired) with experience in energy auditing, project screening and energy engineering.

Project Engineer

Dome-Tech Energy Solutions (DES) is seeking qualified project engineers to support the growing demand for our turnkey design/build services. The ideal candidate will possess a BSME (PE, CEM desired) and mechanical design experience with central plant utility systems (chilled water & steam). Candidate must have design experience in heating / cooling load calculations, pipe sizing and pressure drop calculations, combined heat and power analysis, and energy conservation measures, including life cycle cost analysis.

Sr. Project Engineer – Pump Systems

Dome-Tech Energy Solutions (DES) is seeking a qualified project engineer to support the growing demand for pump system projects for our municipal and utility customers. The ideal candidate will possess a BSME and have experience identifying and analyzing root causes of pump system degradation or failure. Candidate must be able to identify opportunities to improve pump system performance (repair, upgrade, replace) as part of energy conservation management program. Experience with numerous pumps / pumping system designs is essential – utility, HVAC and process pumps.

Salary / Benefits: Competitive salary commensurate with experience, medical/dental benefits, 401K, flexible spending account, paid vacation and holidays.

Please email resumes to recruiting@dome-tech.com or fax to 732-590-0129.

Joe Martino, Technical Staffing

Phone: (732) 590-0122, ext. 133

Fax: (732) 590-0129

E-mail: recruiting@dome-tech.com

Website: www.dome-tech.com

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SOCIETY NEWS.....

Enhanced Building Security Satellite Broadcast

By now you have received information on the upcoming satellite broadcast entitled "**Multiple Benefits Solutions for Enhanced Building Security**" scheduled for November 14th. This is a great opportunity for your members, and potential future members, to learn about a number of strategies to improve building security while also increasing energy efficiency, improving indoor air quality and perhaps realize other benefits as well. I am requesting that you publicize the event among your members and professional community. Please visit the following website for more details:, information on PDHs, a promotional flyer, etc: www.ashrae.org/homelandsecuritybroadcast2.

ASHRAE, CAMEE Pursue Interests in Advocacy, Education

ATLANTA – The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) and the Council of American Mechanical and Electrical Engineers (CAMEE) have signed a memorandum of understanding.

The agreement formalizes a working relationship between ASHRAE, which is interested in the technical aspects of the building environment, and CAMEE, which is focused on the business aspects of mechanical and electrical engineering. CAMEE is a coalition of the American Council of Engineering Companies (ACEC).

"The agreement serves to bridge the gap between ASHRAE and CAMEE and their common interests in government advocacy on behalf of our members and education for the operation of engineering businesses," said Terry Townsend, P.E., ASHRAE president. "ASHRAE and CAMEE can now market our activities to the mutual benefit of our collective memberships."

"We look forward to our cooperation with ASHRAE and the benefits that will accrue to both organizations," said David Raymond, president of ACEC.

ASHRAE, founded in 1894, is an international organization of 55,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

CAMEE is a coalition of mechanical/electrical engineering firms within ACEC. It was formed to provide information to member firms on how to best serve their clients.

###

Infiltration Credit in ASHRAE Standard 62.2 Open for Comment

ATLANTA – The role of an existing infiltration credit in ASHRAE's residential ventilation standard is open for public comment.

ANSI/ASHRAE Standard 62.2-2004, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings, provides the minimum requirements necessary to achieve acceptable indoor air quality for dwellings. Proposed addendum j would eliminate the section describing the infiltration assumptions that are present in the standard. "This proposed addendum illustrates why public comment is so important to the standards development process," David Grimsrud, chair of the Standard 62.2 committee, said. "We have strong opinions on both sides of the fence regarding this addendum. Working to reach common ground will help build a stronger standard."

Some feel that the section is often misinterpreted by code officials who use it to require more mechanical ventilation than is currently required in the standard in new housing, Grimsrud said. Also, the requirement could imply that new houses are as tight as they ever will be and that new housing should be leaky enough to provide the amount of infiltration suggested. On the flip side, removing the credit could significantly reduce the recommended ventilation rate in new housing, thereby increasing steady-state pollutant concentrations, according to Grimsrud. Still others suggest that weatherization agencies that use the standard in assessing strategies for tightening existing homes and/or adding mechanical ventilation will be left without guidance, he said.

Also open for public comment is proposed addendum k, developed in response to recent studies of window opening patterns in California. The study was done in the region included in an existing exception of the standard. The study has shown that household residents open windows much less than expected. So window opening, which is assumed to provide the ventilation required in the exception, should not be an acceptable alternative to the ventilation requirements, according to Grimsrud. The proposed addendum would remove the exception that whole-building mechanical systems are not required in that specific region. Proposed addenda j and k will be open for public comment until Nov. 6. To read the proposed addenda and comment, visit www.ashrae.org/publicreviews.

###

SOCIETY NEWS.....

ASHRAE Proposes New Moisture Control Standard

ATLANTA – In recent years, moisture problems such as mold growth have become big issues for building owners and operators. Computer simulation tools have been developed to predict thermal and moisture conditions in buildings, but the results can vary greatly with the assumptions for indoor and outdoor conditions

To help combat this issue, the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) is proposing a standard that formulates design assumptions for moisture design analysis and criteria for acceptable performance. ASHRAE's proposed Standard 160P, Design Criteria for Moisture Control in Buildings, is open for public comment until November 6, 2006. The proposed standard goes beyond prescriptive recommendations for moisture control in buildings that are currently in the ASHRAE Handbook and in building codes.

“Standard 160 gives us a methodology for the first time to make consistent design recommendations, such as the need, type and placement of vapor barriers, in any climate,” says Anton TenWolde, chair of the committee that drafted the standard. “The standard requires the designer to think about the interior conditions that will be maintained in the building and the effect that may have on the building envelope.” A draft of the proposed standard is available only during the public review period. To obtain an electronic draft version of Standard 160P during the comment period, log on to ASHRAE.org at www.ashrae.org/publicreviews.

New Designations Proposed for ASHRAE Refrigerant Safety Standard

ATLANTA – Eight proposed addenda, including three adding new refrigerant designations, to ASHRAE's refrigerant safety standard are open for public review.

ANSI/ASHRAE Standard 34-2004, Designation and Safety Classification of Refrigerants, establishes a simple means of referring to common refrigerants in place of chemical names, formulas or trade names. It also establishes safety classifications based on toxicity and flammability data.

To read the proposed addenda or to comment, visit www.ashrae.org/publicreviews.

The following addenda are open for public review from Sept. 22 until Oct. 22:

34d would require refrigerant applications to be submitted in electronic format in addition to printed copies.

34i would add a designation of R-426A to a blend of R-125/134a/600/601a.

34j would add a designation of R-427A to a blend of R-32/125/143a/134a.

34l would add a designation of R-428A to a blend of R-125/143a/290/600a.

The following addenda are open for review from Sept. 22 until Nov. 6:

34m would remove the requirement to submit refrigerant property data elements that are not needed in determining the refrigerant designation or safety classifications.

34t would add an informative appendix containing refrigerant data removed from the standard by addendum 34u-2004 and bubble/dew points for azeotropic blends.

34v would update addendum 34u-2004 text and tables based on an increased oxygen depletion concentration level from 69,100 parts per million (ppm) to 140,000 ppm, increased cardiac sensitization default from 0 to 1000 ppm, new toxicity information for R-22, 32 and 227ea, new lower flammability limit values, and addition of new refrigerants.

34w would add an informative appendix containing toxicity values for single-compound refrigerants, compiling toxicity information from various sources into one table.

Yo! ASHRAE Video Promotes Engineering as Career

ATLANTA – The hottest new rap video can't be seen on MTV, BET or even VH-1 – it's on ASHRAE.org.

That's right – “rap video.” Not something you would think that the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) had the 4-11 about, right?

“If ASHRAE and our industry are going to be successful in promoting engineering and HVAC&R as career options, then we have to reach out to young people in a way that is entertaining and interesting to them,” Ron Johnson, chair of ASHRAE's Student Activities Committee, said. “Hence, this video.”

ASHRAE: Licensed to Chill features a hot soundtrack accompanied by interviews with young members highlighting the importance of the HVAC&R industry to the world; the diverse and creative opportunities related to engineering as a career; and the difference the building industry makes related to sustainability.

“The video drives home the message that our industry truly engineers the world we live in, and that young people don't want to miss out on the chance to be a part of that,” he said.

The video will be made available to middle and high schools that seek information about careers in engineering from ASHRAE. It also is available in several formats suitable for downloading at www.ashrae.org/chill.

SOCIETY NEWS.....

International Code Council Takes Action on ASHRAE Proposals

ATLANTA – International building codes may soon incorporate new requirements from ASHRAE standards, thanks to several recent proposals now under consideration.

ASHRAE made several proposals to the International Code Council, which develops model codes that may be adopted by code jurisdictions in the United States or internationally. After a public review of the proposals, final hearings for the code change proposals take place May 21-22, 2007. If the proposals are accepted, they would be included in the 2007 code supplement.

“It is the governmental use of building codes and the conversion of standards into codes that derive the greatest benefit from the ASHRAE standards’ development process,” Terry Townsend, ASHRAE president, said at a meeting with ICC leadership, encouraging adoption of the proposals.

A proposal to include new ventilation rates from ANSI/ASHRAE Standard 62.1-2004, Ventilation for Acceptable Indoor Air Quality, was approved for inclusion in the International Mechanical Code (IMC). The change would lower zone ventilation in many zones, particularly those with high-occupant density, and improve overall ventilation results in systems where zones with differing ventilation requirements are served by a common ventilation system.

“For many high occupant-density zones (like classrooms and places of worship) these new rates reduce outdoor air intake requirements by 50 percent or more, compared to the IMC,” Dennis Stanke, chair of the Standard 62.1 committee, said. “HVAC systems for these buildings can be designed with fewer air conditioning tons and operated using less energy. Lower intake rates tend to reduce both first cost and operating cost.”

Four proposals written by ASHRAE’s Code Development Committee for ANSI/ASHRAE/IESNA Standard 90.1-2004, Energy Standard for Buildings Except Low-Rise Residential Buildings, and ANSI/ASHRAE Standard 90.2-2004, Energy-Efficient Design of Low-Rise Residential Buildings, were approved for inclusion in the International Energy Conservation Code.

EC39: Lowers the solar heat gain coefficient requirements in residential buildings in Climate Zones 1 and 2 to 0.37 from 0.40. This requirement is consistent with Standard 90.2-2004.

EC84: Adds a U-factor table to the code, and add definitions for C-Factors, and F-Factors.

EC98: Adds a requirement for hot-gas-bypass to the code.

EC125: Revises exterior lighting control requirements.

Also related to its energy standard, ASHRAE plans to submit a public comment on a proposal to provide R-Value, U-Factor requirements and removal of the Standard 90.1 envelope section as a compliance method. ASHRAE opposes approval of proposal EC82 because it removes a partial reference to Standard 90.1.

“While ASHRAE thinks the UA trade-off may be desirable, the envelope requirements and appendices of the standard should continue to be an alternative compliance pathway because they are technically based within a consensus process,” Townsend said.

Also approved was a proposal to make the IMC more consistent with ANSI/ASHRAE Standard 34-2004, Designation and Safety Classification of Refrigerants. The change would add new refrigerants for which the standard has given a designation and safety classification. The addition will facilitate use of these refrigerants.

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