

### FORM FOR COMMENTING ON A PUBLIC REVIEW DRAFT ASHRAE STANDARD, GUIDELINE OR ADDENDUM

		PLEASE RETURN	COMPLETE	D FORM BY	
1.	Name:				
	Affiliation:				
	Address:		City:	State:	Zip:
	Telephone:	Fax:		E-mail:	
	Designation and Title	of First Public Revie	w Draft:		
sepondon those dial con auth	arate processing. ASHRA the commenter's signed re se comments must also be ginal comment author, rep log supporting their posi- mment, and may receive	AE encourages original elease, as provided belt accompanied by a sign presenting commenters at the commenters and all commenters are accommenters.	I commentary ow. However, ened copyright who have sub- shall receive	on its standards. At if commenters sub release from the au mitted duplicate cor acknowledgment f	ng Sections 1 and 2) to facilitate II comments must be accompanied mit comments authored by others, thor of the original comment. The mments may be asked to engage in from ASHRAE of receipt of their al comment with that comment's
exc acq	lusive royalty rights, incl	uding non-exclusive ron of this standard in v	oyalty rights in which my prope	n copyright, in my osals in this or other	g Engineers (ASHRAE) the non- proposals and I understand that I similar analogous form is used. I se.
Aut	hor's Signature:			Da	nte
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3.	Clause or Subclause:				
3. 4.	Comment (Proposed Tr (If a provision is promodification of a prostrikeout/underline submit marked-up owith specificity)  Substantiating Statemet (Be brief; provide a	oposed to be added, the rovision is proposed, the format. (Strikeout textor highlighted copies conts:	he proposed te at to be deleted of the standard	xt must be submitt and underline text ) (If it is a propose	abmitted in writing. If ed utilizing the to be added.) (Please do not d withdrawal, please state here closed for reference on

[] Check here if your comment is supportive in nature and does not require substantive changes in the current proposal in order to resolve your comment. If you select this option, your comment will not require a response from the project committee and will not be subject to the commenter response procedures.

**NOTE:** Use separate form for each comment. Submittals (MS Word preferred) may be attached to email, submitted on diskettes, uploaded to ASHRAE's ftp site, or submitted in paper form by mail or fax to ASHRAE, Manager of Standards, 1791 Tullie Circle, NE, Atlanta, GA 30329-2305. E-mail: public.review.comment@ashrae.org. Ftp server address: ftp.ashrae.org, directory: public.review.comment. Fax 678-539-2134.

**NOTE:** To ensure receiving all notices provided for in the procedures, you are responsible for informing the ASHRAE Standards Section when your contact information changes. Otherwise you may not receive responses to comments, right-to-appeal notices, and any other notices that may be sent to commenters. To update your contact information, send an email to <a href="mailto:standards.section@ashrae.org">standards.section@ashrae.org</a>. You must indicate which public review draft or drafts you are commenting on in your email.

Rev. 01-30-2006



### FORM FOR COMMENTING ON A PUBLIC REVIEW DRAFT ASHRAE STANDARD, GUIDELINE OR ADDENDUM

PLEASE RETURN COMPLETED FORM BY April 30, 2007 1. Name: Affiliation: Address: City: State: Zip: Telephone: E-mail: Fax: Designation and Title of First Public Review Draft: BSR/ASHRAE/IESNA Addendum ANSI/ASHRAE/IESNA Standard 90.1-2007, Energy Standard for Buildings Except Low-Rise Residential Buildings NOTE: Use a separate form for each comment, completing each section (including Sections 1 and 2) to facilitate separate processing. ASHRAE encourages original commentary on its standards. All comments must be accompanied by the commenter's signed release, as provided below. However, if commenters submit comments authored by others, those comments must also be accompanied by a signed copyright release from the author of the original comment. The original comment author, representing commenters who have submitted duplicate comments may be asked to engage in dialog supporting their position. All commenters shall receive acknowledgment from ASHRAE of receipt of their comment, and may receive a response in the form of the resolution of the original comment with that comment's author. 2. Copyright Release: I hereby grant the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) the nonexclusive royalty rights, including non-exclusive royalty rights in copyright, in my proposals and I understand that I acquire no rights in publication of this standard in which my proposals in this or other similar analogous form is used. I hereby attest that I have the authority and am empowered to grant this copyright release. Author's Signature: Date All electronic submittals must complete the following statement: , through this electronic signature, I (insert name) hereby grant the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) the nonexclusive royalty rights, including non-exclusive royalty rights in copyright, in my proposals and I understand that I acquire no rights in publication of this standard in which my proposals in this or other similar analogous form is used. I hereby attest that I have the authority and am empowered to grant this copyright release. 3. Clause or Subclause: **Comment (Proposed Text):** (If a provision is proposed to be added, the text of the provision must be submitted in writing. If modification of a provision is proposed, the proposed text must be submitted utilizing the strikeout/underline format. (Strikeout text to be deleted and underline text to be added.) (Please do not submit marked-up or highlighted copies of the standard.) (If it is a proposed withdrawal, please state here with specificity) 5. Substantiating Statements: (Be brief, provide abstract of lengthy substantiation; full text should be enclosed for reference on request by project committee members.)

[ ] Check if additional pages are attached. Number of additional pages:

[ ] Check here if your comment is supportive in nature and does not require substantive changes in the current proposal in order to resolve your comment. If you select this option, your comment will not require a response from the project committee and will not be subject to the commenter response procedures.

**NOTE:** Use separate form for each comment. Submittals (MS Word preferred) may be attached to email, submitted on diskettes, uploaded to ASHRAE's ftp site, or submitted in paper form by mail or fax to ASHRAE, Manager of Standards, 1791 Tullie Circle, NE, Atlanta, GA 30329-2305. E-mail: <a href="mailto:public.review.comment@ashrae.org">public.review.comment@ashrae.org</a>. Ftp server address: <a href="mailto:ftp.ashrae.org">ftp.ashrae.org</a>, directory: <a href="mailto:public.review.comment">public.review.comment</a>. Fax 678-539-2134.

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Rev. 01-30-2006





### FORM FOR SUBMITTAL OF PROPOSED CHANGE TO AN ASHRAE STANDARD UNDER CONTINUOUS MAINTENANCE

**NOTE:** Use a separate form for each comment. Submittals (Microsoft Word preferred) may be attached to e-mail (preferred), submitted on a CD, or submitted in paper by mail or fax to ASHRAE, Manager of Standards, 1791 Tullie Circle, NE, Atlanta, GA 30329-2305. E-mail: change.proposal@ashrae.org. Fax: +1-404/321-5478.

1. Submitter:							
Affiliation:							
Address:		City:	State:	Zip:	Country:		
Telephone:	Fax:		E-Mail:				
I hereby grant the American S exclusive royalty rights, include publication of the standard in authority and am empowered to	ding non-exclusive which my proposals	rights in copyright, i s in this or other anal	in my proposals	. I understan	d that I acquire no rights in		
Submitter's signature:		Date:					
All electronic submittals mus	st have the followin	g statement comple	ted:				
I (insert name), through this electronic signature, hereby grant the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) the non-exclusive royalty rights, including non-exclusive rights in copyright, in my proposals. I understand that I acquire no rights in publication of the standard in which my proposals in this or other analogous form is used. I hereby attest that I have the authority and am empowered to grant this copyright release.							
2. Number and year of stand	ard:						
3. Page number and clause (s	section), subclause	, or paragraph nun	iber:				
4. I propose to: [ (check one) [							
Use underscores to show ma	nterial to be added (adde	<u>d</u> ) and strike through mat	erial to be deleted (	deleted). Use ac	lditional pages if needed.		
5. Proposed change:							
6. Reason and substantiation	*						
7. Will the proposed change it to why the increase is justifie				yes, provide	a brief explanation as		
[ ] Check if additional pages [ ] Check if attachments or rall attachments and references your attachments here:	referenced materials	s cited in this propos	sal accompany				
your anachments nere:					Rev. 3-9-2007		

1



# Part 1 of 2 APPLICATION FOR PROJECT COMMITTEE ORGANIZATIONAL REPRESENTATIVE MEMBERSHIP

1. ASHR	AE Project	Committee (Pl	ease use a sepa	arate form for ea	ach committee)	1151 1151				
☐ SSI	SSPC 34 Designation and Safety Classification of Refrigerants  SSPC 62.1 Ventilation for Acceptable Indoor Air Quality  SSPC 62.2 Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings									
□ ss	PC 90.1 E	Energy Standar	d for Buildings	Except Low-Rise	e Residential Bu	•				
			Design of Low in Commercial	-Rise Residenti: Aircraft	al Buildings					
2. Name of Applicant  Print or Type Name (First, Middle Initial, Last)  Today's Date										
ASHRAE M	lember ID	Primary or Altern	nate Representativ	re? (	Organization Repres	sented				
☐ Has beer	3. Biographical information on ASHRAE's website: (check one):  Has been completed/updated and contains current information.  Will be completed/updated on									
<ol> <li>The Potential Sources of Bias/Conflict of Interest form, specifically applicable to the purpose and scope of this Project Committee, has been completed:</li></ol>										
	PC 34	SSPC 62.1	SSPC 62.2	SSPC 90.1	SSPC 90.2	SSPC 161				
Consultin  Engineer Architect		☐ Design/Builders	☐ Design/Builders	☐ Compliance	☐ Compliance	☐ Flight Personnel				
General I Producer User	√endor [	General Interest Manufacturer Own/Oper/Occ	☐ General Interest ☐ Manufacturer ☐ Own/Oper/Occ	☐ Designer ☐ General Interest ☐ Industry	Producer	<ul><li>☐ Manufacturer</li><li>☐ Owner/Operator</li></ul>				
PL	EASE DO NOT	ADD INTEREST CAT	regories	☐ User ☐ Utility	User Utility	☐ Passenger				
	-	I certify that:			40.					
If elected as an Organizational Member of any ASHRAE Standard or Guideline Project Committee or appointed as a consultant to such committee I hereby grant the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) the non-exclusive, royalty-free rights, including nonexclusive, royalty rights in copyright, to any contributions I make to documents prepared by or for such committee for ASHRAE publication and I understand that I acquire no rights in publication of such documents in which my contributions or other similar analogous form are used. I hereby attest that I have the authority and I am empowered to grant this copyright release.										
l am authorize	ed to commit the	at my organization a	grees to the following	g:						
b) to prov c) to enco d) to prov organiz	<ul> <li>b) to provide an individual with appropriate technical or scientific qualifications to serve as their representative, and if</li> <li>c) to encourage the constituency of the organization to provide input and comments to the organization's representative,</li> <li>d) to provide feedback to the constituency of the organization on the disposition of input and comments submitted by the organization's representative,</li> </ul>									
SIGNATURE	in making that some	ess signed by Applicant		<del></del>						
(NOTE: I DISTORT				ae.net); Tel. (678) 539-1	125; Fax (678) 539-212	5				

Note: If applying for Individual membership, please complete the Individual Application for Project Committee Membership with your information.

### **BACKGROUND**

ASHRAE Standards 34, 62.1, 62.2, 90.1, 90.2 and 161 impact a diverse group of individuals and industries. The constituency for these standards transcends the typical interest categories suggested by ANSI. These interest categories are intended to address the multidisciplinary nature of the standards, and to provide a better balance of interest categories for the SPC/SSPC.

### **DEFINITIONS**

interest: the perspective of a member of a project committee, as judged by his or her present and past sources of income, fees, or reimbursements of related expenses, in the context of the purpose and scope of the project committee. The perspective may also be judged by the recorded views of the individual, or of any organization he/she is employed by or of which he/she is a member.

interest categories: the principal (top) tier of interest classifications. For some standards projects, it may be appropriate to designate subcategories of one or more interest category.

### **INTEREST CATEGORIES**

Compliance: Persons primarily interested in compliance with the standard. A person in this category would make their living from developing regulations, enforcing the requirements of the standard, developing programs tied to the standard, or advocating the standard. Example members of this category would be building code officials, building code organizations, state energy offices, and other local, state, and federal officials.

Designer: A designer of buildings, building systems or subsystems (including envelope, HVAC, lighting). A person in this category would make their living from designing buildings and systems that are impacted by the standard. Example members of this category would be architects, design firms, consulting engineers, lighting designers and employees of energy consulting firms.

Designers/Builders: Those who provide building design and construction services, including consulting engineers, HVAC and general contractors, design /build contractors, or representatives of associations of these types of professionals.

General: Building regulatory officials or their representatives, researchers, educators, IAQ specialists, and others with expertise in the fields of ventilation and indoor air quality. Also, medical doctors, public health experts, industrial hygienists or representatives of associations of these types of professionals.

In addition, this category is intended for those who have interests other than those described in the other categories. Example members of this category would be employees of research institutions, universities, nationally recognized testing laboratories, employees of energy advocacy groups, and others with a general interest in energy utilization in buildings.

Industry: Construction firms or manufacturers, producers, or distributors of products or systems that would be installed in buildings. A person in this category would make their living from constructing buildings or producing or distributing products impacted by this standard or representing groups of manufacturers impacted by this standard. Example members of this category would be contractors, manufacturing firms, assembly firms, distributors and wholesalers, and industry trade associations that represent these groups.

Manufacturers: Employees or representatives of manufacturers, distributors or trade associations of HVAC equipment, HVAC controls, and equipment designed to enhance indoor air quality (e.g. air cleaners). Also, individuals associated with products used in the construction of buildings (e.g., finishes, wall and floor coverings, wood products) and used within buildings by occupants (e.g., furniture and furnishings, tobacco products, appliances, office equipment).

Owners/Operators/Occupants: Employees or representatives of building owners/managers, building engineers, facility managers, and consultants who specialize in working in existing buildings (as opposed to those who design and construct new buildings). Also representatives of building occupants.

Producer: those directly concerned with the production or distribution of the product or service involved, including industry associations representing producers or distributors, or those receiving substantial support from a producer directly concerned.

User: Users of buildings and building systems and subsystems. A person in this category would make their living from owning or operating buildings. Example members of this category would be building owners and operators (private and governmental), tenants, and trade associations or organizations representing these groups.

Utility: Those who provide energy services to buildings impacted by this standard. A person in this category would make their living from providing energy services to a building impacted by this standard. Example members of this category would be electric, gas, steam, or other utility and trade associations or organizations representing these groups.



## PART 2 of 2 PROJECT COMMITTEE ORGANIZATIONAL MEMBERSHIP CONTACT INFORMATION

Committee No:Committee Name			
Organization			
Contact Name / Title			
Address			
City	State	Zip	
Phone	Fax		-
e-mail			
Primary Representative Name / Title			
Address		_	
City	State	Zip	
Phone	Fax		
e-mail			
All Davidson	<u> </u>		
Alternate Representative Name / Title	_		
Address			
City	State	Zip	
Phone	Fax		
e-mail		-	

Please describe your organization's interest in this Project Committee:

Please submit this form with copies of the "Application for Project Committee Organizational Representative Membership" forms for each applicant listed above.

Submit completed forms to PCMembership@ashrae.net or fax to 678 539-2125



### ASHRAE Standard/Guideline Project Committee Application for Individual Membership

1. 1	Name of Applicant	t Prir	nt or Type Name (La	ast, Fi	rst, Middle Initial)	belov	V		Today's Da	ate		20	95 3.30.15
			fember ID (ASHR llying for Chair or V				*Committee Po	sition	for Which You	Are A	applying: (see be	low)	
*V	M-Project Committee	Voting	Member, SVM-Projec	t Subc	ommittee Voting Me	mber,		1embe	r, CON-Consultant,	or Prin	nary/Alternate Orga	nization	al Rep
<b>2.</b> I	am applying for In	dividua	al Membership on th	ne foll	owing ASHRAE P	roject	Committee: (Ple	ase us	se a separate form	for ea	ch committee.)		
	SSPC 34		Designation an	d Safe	ety Classification	of Re	frigerants						
	SSPC 62.1		Ventilation for	Acce	ptable Indoor Air	Qual	ity						
	SSPC 62.2		Ventilation and	Acce	ptable Indoor Ai	r Qua	lity in Low-Rise	Resid	ential Buildings				
	SSPC 90.1		Energy Standar	rd for	Buildings Except	Low	-Rise Residential	Build	dings				
	SSPC 90.2		Energy Efficien	ıt Des	ign of Low-Rise F	Reside	ntial Buildings						
	SSPC 161		Air Quality Wi	thin C	Commercial Aircr	aft							
	SPC 189.1		Standard for th	e Des	ign of High-Perfo	rman	ice, Green Buildi	ngs E	xcept Low-Rise F	Reside	ntial Buildings		
	ou are applying for ion 4:	r a con	ımittee other than	those	listed above, plea	ise en	ter committee inf	orma	tion below and u	se the	Default Interes	Catego	ories listed in
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	Bio information	curren	t within a year from	today	. Date Bio inform	ation	on ASHRAE's we	ebsite	was completed/up	dated	:	—	
	I have complete	d and s	igned the Potential	Source	es of Bias/Conflict	of In	erest form. Date	form v	was completed/upo	dated:		_	
			the Project Commi ategories are on Pag		I would qualify in	the f	ollowing Interest	Cate	gory (check one):	:			
	DEFAULT	ı	SSPC 34		SSPC 62.1		SSPC 62.2		SSPC 90.1		SSPC 90.2		SSPC 161
	General Interest		Consulting Engineer/ Contractor/Architect		Design/Builders		Design/Builders		Compliance		Compliance		Flight Personnel
	Producer		General Interest		General Interest		General Interest		Designer		General Interest		General Interest
	User		roducer/Vendor		Manufacturer		Manufacturer		General Interest		Industry		Manufacturer
	Supplier (category	D 1	Jser		Owner/Operator/ Occupant		Owner/Operator/ Occupant		Industry		Producer		Owner/Operator
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	with PC Chair)								Utility		•		-
-	SPC 189.1								-				
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	Compliance												
	☐ Designer ☐ General Interest												
	☐ Industry												
	☐ User												
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5. I	By signing belo	w, I c	ertify that:										
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Not	e: This form is	not va	alid unless signe	d by	Applicant						•		
Subn	nit Completed Form	n to: S	tandards.Section@a	shrae	org; Tel. (678) 53	9-114	3; Fax (678) 539-2	2143					

Last Revision: 10/09 - Page 1

Note: If applying for Organizational membership, please complete the Application for Project Committee Organizational Representative Membership with your information, and the Application for PC Organizational Membership with information on the organization you will represent.

### **DEFINITIONS**

Interest: the perspective of a member of a project committee, as judged by his or her present and past sources of income, fees, or reimbursements of related expenses, in the context of the purpose and scope of the project committee. The perspective may also be judged by the recorded views of the individual, or of any organization he/she is employed by or of which he/she is a member.

Interest categories: the principal (top) tier of interest classifications. For some standards projects, it may be appropriate to designate subcategories of one or more interest category.

### INTEREST CATEGORIES

Compliance: Persons primarily interested in compliance with the standard. A person in this category would make their living from developing regulations, enforcing the requirements of the standard, developing programs tied to the standard, or advocating the standard. Example members of this category would be building code officials, building code organizations, state energy offices, and other local, state, and federal officials.

**Designer:** A designer of buildings, building systems or subsystems (including envelope, HVAC, lighting). A person in this category would make their living from designing buildings and systems that are impacted by the standard. Example members of this category would be architects, design firms, consulting engineers, lighting designers and employees of energy consulting firms.

Designer/Builder: Those who provide building design and construction services, including consulting engineers, HVAC and general contractors, design /build contractors, or representatives of associations of these types of professionals.

Flight Personnel: Individuals who are employed by the airlines as part of the aircraft crew (pilots and flight attendants) or individuals employed by the airlines to maintain the aircraft, and the organizations that represent these individuals.

General Interest: Building regulatory officials or their representatives, researchers, educators, IAQ specialists, and others with expertise in the fields of ventilation and indoor air quality, as well as medical doctors, public health experts, industrial hygienists or representatives of associations of these types of professionals. In addition, this category is intended for those who have interests other than those described in the other categories. Example members of this category would be employees of research institutions, universities, nationally recognized testing laboratories, employees of energy advocacy groups, and others with a general interest in energy utilization in buildings.

Industry: Construction firms or manufacturers, producers, or distributors of products or systems that would be installed in buildings. A person in this category would make their living from constructing buildings or producing or distributing products impacted by this standard or representing groups of manufacturers impacted by this standard. Example members of this category would be contractors, manufacturing firms, assembly firms, distributors and wholesalers, and industry trade associations that represent these groups.

Manufacturer: Employees or representatives of manufacturers, distributors or trade associations of HVAC equipment, HVAC controls, and equipment designed to enhance indoor air quality (e.g. air cleaners). Also, individuals associated with products used in the construction of buildings (e.g., finishes, wall and floor coverings, wood products) and used within buildings by occupants (e.g., furniture and furnishings, tobacco products, appliances, office equipment).

Owner/Operator/Occupant: Employees or representatives of building owners/managers, building engineers, facility managers, and consultants who specialize in working in existing buildings (as opposed to those who design and construct new buildings), as well as representatives of building occupants.

Passenger (As used by SPC 161): Individuals who pay to ride on aircraft, and the organizations that represent these individuals,

**Producer:** Those directly concerned with the production or distribution of the product or service involved, including industry associations representing producers or distributors, or those receiving substantial support from a producer directly concerned.

Supplier: Employees of firms that provide maintenance services for HVAC systems owned by others. This would include engineers and consultants with a primary job scope of specifying or supervising maintenance of HVAC systems owned by others. It would especially include contractors and technicians who actually perform HVAC system services for hire. This group may also include representatives of associations the membership of which falls in this category.

User: Users of buildings and building systems and subsystems. A person in this category would make their living from owning or operating buildings. Example members of this category would be building owners and operators (private and governmental), tenants, and trade associations or organizations representing these groups.

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In order to submit a comment you must agree to the following by entering your name in the box below and dicking the "I Agree" button.

Through this electronic signature, I hereby grant the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) the non-exclusive royalty rights, including non-exclusive royalty rights in copyright, in my proposals and I understand that I acquire no rights in publication of this standard in which my proposals in this or other similar analogous form is used. I hereby attest that I have the authority and am empowered to grant this copyright release.

As agreement, please type your name in the box below exactly as it is shown:

name of whoever is logged in to comment

would be entered here

I Agree

I Do Not Agree



♦ A https://osr.ashra	e.org/sitepages/CommentAgreement aspx?DocItemID=1176&DocListID=4e863a5d-1a20-40e = C S - Soogle P 🛊 🛊
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	Built Environment Today
Home	Site Actions •
view All Site Content dy Comments teports Admin Report Inline Public Review Vrafts Jocuments Public Review Draft Standards	In order to submit a comment you must agree to the following by entering your name in the box below and clicking the "I Agree" button.  Through this electronic signature, I hereby grant the American Society of Heabing, Refrigerating and Air-Conditioning Engineers (ASHRAE) the non-exclusive royalty rights, including non-exclusive royalty rights in copyright, in my proposals and I understand that I acquire no rights in publication of this standard in which my proposals in this or other similar analogous form is used. I hereby attest that I have the authority and am empowered to grant this copyright release.  As agreement, please type your name in the box below exactly as it is shown:  Mrs Stephanie C Rein
I Standards Actors I Older Standards Actions Ists Ilites Ieople and Groups Itandards Web Page	I Agree I Do Not Agree

### APPLICATION FOR MEMBERSHIP ON ASHRAE STANDARD OR GUIDELINE PROJECT COMMITTEE

Committee Number	Committee Name	
First Name or Initial	Middle Name or Initial	Last Name
ASHRAE Member Nu	mber (if known) Date	
An updated edition of	the ASHRAE Biographical Record	is (check one):
On file at ASHRA	E Headquarters	
Attached to this a	plication	
A Potential Sources this Project Committe		specifically applicable to the purpose and scope of
On file at ASHRA	Headquarters	
Attached to this a	plication	
	member of the Project Committee, erse side for definitions.):	I would qualify in the following Interest Category
User Interest mer	ber	
☐ Producer Interest		
General Interest		
consultant to such conditioning Engine rights in copyright, to ASHRAE publication	mmittee I hereby grant the America rs (ASHRAE) the non-exclusive, ro any contributions I make to docume and I understand that I acquire no r	deline Project Committee or appointed as a in Society of Heating, Refrigerating and Airyalty-free rights, including nonexclusive, royalty ents prepared by or for such committee for rights in publication of such documents in which my hereby attest that I have the authority and I am

### DEFINITIONS EXCERPTED FROM ANNEX A MANUAL FOR PROCESSING ASHRAE STANDARDS COMMITTEE DOCUMENTS

**interest**: the perspective of a member of a project committee, as judged by his or her present and past sources of income, fees, or reimbursements of related expenses, in the context of the purpose and scope of the project committee. The perspective may also be judged by the recorded views of the individual, or of any organization he/she is employed by or of which he/she is a member.

**interest categories**: the principal (top) tier of interest classifications. For some standards projects, it may be appropriate to designate subcategories of one or more interest category. Following are examples of functions covered by each interest category:

- **Producer:** those directly concerned with the production or distribution of the product or service involved, including industry associations representing producers or distributors, or those receiving substantial support from a producer directly concerned.
- **User:** those who use the product or service involved, or those who receive substantial support from a user directly concerned, but are not involved with its production or distribution. This reference is not to users of the standard, but to users of the product or service covered by the standard.
- **General:** those who have interests other than those described above and may include consulting engineers or employees of appropriate Government agencies, nationally recognized testing laboratories or educational institutions, and codes-oriented individuals.
- Example subcategories of the User interest category follow:
- **User-Consumer**: a person using goods and services rather than producing or selling them, when the standards activity deals with a consumer product such as a room air conditioner.
- **User-Industrial**: the industrial user of a product, where the standards activity deals with an industrial product such as refrigerant chemicals.
- **User-Government**: the representative of a government agency, where the standards activity is likely to be used as the basis for government agency procurement such as for the design or performance testing of building systems or equipment.
- **User-Labor**: a representative of labor, where the standards activity deals with worker products used in the workplace or with the workplace environment.
- Note: The subcategories shown are for example only. The SPLS Subcommittee of the Standards Committee may approve chairman-recommended use of a) subcategories for any interest category, b) no subcategories at all, or c) different interest categories.





environment.



# Memorandum of Understanding Between The United States Department of Energy And The American Society of Heating, Refrigerating

By this Memorandum of Understanding (MOU), the U.S. Department of Energy (DOE) and the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) agree to further their long-term relationship by working cooperatively to improve the efficient use of energy and the viable and widespread use of renewable energy sources, and to minimize the impact of energy use on the

and Air-Conditioning Engineers, Inc.

DOE and ASHRAE are committed to working together toward the following goals:

- 1) Promoting and supporting the continuing development and distribution of ASHRAE standards related to energy efficiency, in particular:
  - ANSI/ASHRAE/IES Standard 90.1, Energy Efficient Design of New Buildings Except Low Rise Residential Buildings.
  - ANSI/ASHRAE/IES Standard 90.2, Energy Efficient Design of Low-Rise Residential Buildings
  - ANSI/ASHRAE Standard 62.1, Ventilation and Acceptable Indoor Air Quality In Commercial, Institutional, Industrial and High-rise Residential Buildings,
  - ANSI/ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings.
  - ANSI/ASHRAE/IES Standard 100, Energy Efficiency in Existing Buildings,
  - ANSI/ASHRAE 135, BACnet A Data Communication Protocol for Building Automation and Control Networks,
  - ANSI/ASHRAE/USGBC/IES Standard 189.1, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings, and
  - Proposed ASHRAE/NEMA Standard 201, Facility Smart Grid Information Model
- Promoting and supporting implementation of ASHRAE standards through training programs, including self-directed learning, building code interaction, and ASHRAE Chapter-oriented training.
- 3) Promoting and supporting development of guidance for exceeding the minimum efficiencies set by Standard 90.1 and Standard 90.2, and new metrics for commercial building and residential energy efficiency and environmental impact.
- 4) Cooperating in, and supporting research into, clean and renewable sources of energy, energy efficiency in buildings and equipment, and environmental impact of energy and material use.

- 5) Cooperating in promotion of ANSI/ASHRAE standards adoption in the International Standards Organization (ISO) standards.
- 6) Collaborating on the accelerated development and distribution of advanced energy design guidance publications, such as the 30%, 50% and net-zero Advanced Energy Design Guides that can support accelerated transformation to a more sustainable built environment.
- 7) Cooperating in the development and adoption of mechanisms that promote energy efficiency in buildings, such as the Building Energy Quotient (Building EQ) program and the professional certifications
- 8) Cooperating in promotion of ANSI/ASHRAE standards adoption in building codes.
- 9) Working within the building community and related professions to encourage the interoperability of building related software and integrated solutions among design disciplines, manufacturers, contractors, building owners and operators, to increase energy efficiency, health, and productivity in new and existing buildings.
- 10) Advancing and supporting the professional development of DOE personnel by facilitating membership, attendance, and active participation at the local and Society levels of ASHRAE, especially as members of Technical Committees and Standard Project Committees, and by providing a venue for publication of research and practice.
- 11) Ensuring sufficient numbers of qualified professionals through the full spectrum of building design, equipment installation, building commissioning, building operations and maintenance, and facility management through comprehensive workforce development programs. This includes promoting and encouraging the study of mathematics and science to pre-college students, quality technician and contractor training, the study of building design within college curricula, and the pursuit of continuing education in all of these categories of building professionals.
- 12) Providing and supporting communication of information regarding technology transfer to building owners and management about the interrelationships between mechanical systems and building operating costs, noting energy, indoor environmental quality workplace performance, client satisfaction, and public safety.
- 13) Monitoring the operational, energy and environmental impacts of new counter-terrorism design features, and promoting minimization of those impacts.
- 14) Collaborating to increase the impact of the all energy hubs created as part of the DOE Energy Efficient Building Systems Regional Innovation Cluster Initiative.
- 15) Driving the development and implementation of next-generation refrigerants that achieve low-GWP (Global Warming Potential) targets and concurrently improve equipment energy efficiency.

Collaboration under this MOU will be in accordance with applicable statutes and regulations.

This MOU in no way restricts either of the parties from participating in any activity with other public or private agencies, organizations or individuals.

This MOU is neither a fiscal nor a funds obligation document. Nothing in this MOU authorizes or is intended to obligate the parties to expend, exchange, or reimburse funds, services, or supplies, or transfer or receive anything of value.

This MOU is strictly for internal purposes for each of the parties. It is not legally enforceable and shall not be construed to create any legal obligation on the part of either party. This MOU shall not be construed to provide a private right or cause of action for or by any person or entity.

The MOU will become effective upon signature by the Assistance Secretary for the Office of Energy Efficiency and Renewable Energy in DOE and the President of ASHRAE. It may be modified or amended by written agreement between both parties, and such amendments shall become part of, and shall be attached to this MOU. This MOU shall terminate at the end of three (3) years unless revised or extended at that time by written agreement of the parties. It may be terminated at any time by either party upon 90 days written notice to the other. Its provisions will be reviewed periodically and amended/supplemented if mutually agreed upon in writing.

Kathy Zoi Lynn G. Bellenger Assistant Secretary Energy Efficiency and Renewable Energy U.S. Department of Energy	President, 2010-2011 ASHRAE	
Date	Date	



# Marketing Task Group

TG Meeting Report June 26, 2004

# Good News? Bad News? Both?

• Increased number of states using or referencing 90.1

• However, these
"adoptions" and
references are almost
all due to adoption of
the I-codes, not the
direct adoption of

### NOTE: This map should be used in conjunction with BCAP's Status of the Code implementation depends upon voluntary adoption by local jurisdictions. State newsfetter, Go to boan-energy.org to view current newsletter. ASHRAE 90.1-1999 or equivalent state code adoption or in Commercial Energy Codes Status State developed code does not meet 90.1-1989 닐 교 Ŋ 90.1 Mandatory for state owned buildings including state-owned buildings Z003 IECC / ASHRAE 90.1-2001 GA 등 Mandatory statewide code ≵ \*2 물 ASHRAE 90.1-1989 2 늄 adoption process. Weaker/None Σ I<sub>M</sub> As of May 2004 Lμ йR ğ IF ZE ZEE <u>E</u> ŏ \$ 影 꿏 \*9 ß 2 0 8 Σ **}** Ĕ Building Codes Assistance Project 5 AZR Commercial Map 5/20/04 ă Š ₽M 윉 ð A CONTRACTOR OF THE PARTY OF TH

# Other Marketing Issues

- Appreciate free "viewing" on the ASHRAE Cost of the standard remains an issue website

Customers versus competitors?

ICC, IECC, NFPA, Advanced Building Guidelines, etc.

What's a standard?

-SP 102 process versus Standards process

# Challenges to Adoption

· Cost of the Standard

- Revenue objectives are antithetical to widespread adoption Do we participate in the "battles" in the marketplace surrounding use of our product?

- Fighting with our customers?

- Allies or adversaries? Who decides?

# Additional Challenges

"Trickle down" adoption approach takes a lot of time

- If we build it, WILL they come?

-Others are building code "products" on a much faster timeframe

-Can we similarly respond?

# Some Recognized Risks

Code proposals to adopt something other than 90.1

-Others are not passive

Code proposals that are more stringent than 90.1

Viewed as a significant risk to our standing" in the marketplace

-Others are not passive

# More Recognized Risks

• Perceived loss of "balance of interests" on the committee

- "Perception is reality"?

- Risk to marketplace "standing"?

- Impediment to more robust development?

have the right process to support a market ASHIRAE has the right experts, do we need or desire?

# Additional Challenges

· Format and Utility

– Envelope section is nearly un-useable in present format

- Entire format is cumbersome and not customer focused Software version needed to increase ease of

# Challenges/Opportunities

· Training

Need a training and delivery plan to better get our "product" to the marketplace. – Numerous customers for training could aid in adoption

• Engineers (and EITs)

• Architects (and architecture students)

# Recommendations (Repeated)

• Make it free

· Make it beautiful

· Make it electronic

Make it easy to demonstrate compliance

Make it easy for code officials to use

Spend SX on development and S2X on marketing

# Operational Recommendations

- Make sure it is developed in a balanced manner
- Set specific improvement targets for each round of the standard.
- 10% by 2007? 25% by 2009?
- What are we working toward?
- If we set targets, don't let it out the door until we meet them.
- Authority coupled with Responsibility.

# New Marketplace Activities

What makes 90.1 meaningful? Why

should a state care?

"No building left behind"

- Build new compliance systems for states

Improved state enforcement under EPAct?

• Penalties for non-compliance?

• Teeth?

# Paradigm Shift Issues

• Decide if we want to continue to live in this code minimum world

-Should we declare victory and go home?

- Is this an appropriate job for ASHRAE?

-Should we ride another horse?

- How long will we have our EPAct advantage?

# Mountaintop Question

Do we want to change the world?

If so, are our current actions aligned with this goal? Do we have a business plan aligned with this goal?

#### **EXHIBIT 51**



From: Ferguson, Steve <SFerguson@ashrae.org>
Sent: Thursday, December 17, 2009 7:27 PM

To: Read, Doug; Colker, Ryan; gholness@comcast.net; Littleton, Jeff;

ron.jarnagin@pnl.gov; Bellenger, Lynn

Cc: Ramspeck, Claire; Reiniche, Stephanie; mschwedler@trane.com; Drake Erbe

Subject: RE: IECC and 90.1

Attachments: FW: comparison document for 90.1 and IECC (1.62 MB)

Is the document in the attached email the comparison document referred to below?

Thanks Steve

From: Read, Doug

Sent: Thursday, December 17, 2009 1:45 PM

To: Colker, Ryan; gholness@comcast.net; Littleton, Jeff; ron.jarnagin@pnl.gov; Bellenger, Lynn Cc: Ramspeck, Claire; Ferguson, Steve; Reiniche, Stephanie; mschwedler@trane.com; Drake Erbe

Subject: RE: IECC and 90.1

I echo Ryan's concerns. I suggest we take a stance and clearly delineate the differences, and differentiate ourselves from the ICEC.. Doug

Doug Read, Program Director of Government Affairs American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Extension: Fax: 202-833-0118 eMail: DRead@ashrae.org Web: www.ASHRAE.org<http://www.ashrae.org/>

From: Colker, Ryan

Sent: Thursday, December 17, 2009 1:42 PM

To: gholness@comcast.net; Littleton, Jeff; ron.jarnagin@pnl.gov; Bellenger, Lynn

Cc: Ramspeck, Claire; Ferguson, Steve; Reiniche, Stephanie; mschwedler@trane.com; Drake Erbe; Read, Doug

Subject: IECC and 90.1

Folks,

We are seeing some indications from DOE that they are beginning to see the IECC and 90.1 as equivalent (i.e., states can be in compliance if they adopt the IECC without the reference to 90.1). As you can guess, this could have significant impact on the future of 90.1. Of course, there are several considerations as why this is likely not the case (IECC has not undergone the rigorous determination and modeling process of 90.1, IECC is not developed under the ANSI consensus process, etc.). Below are some notes outlining a recent meeting aimed at code adoption organized by BCAP and which includes participation by DOE (I was just made aware of this group and will begin participating).

In my view, we have a couple of options, but their palatability depends on our relationship with ICC and how far we are willing to go:

- 1. Send a strongly worded letter to DOE leadership expressing our view (including some of the points above)
- 2. Come out with our own document on how the IECC is not equivalent to 90.1 and why states should continue to utilize 90.1

Please let me know if/how you would like to proceed.

Ryan

Air Support Committee Notes: 12-7-09

Key updates: FROM DOE:

DOE will publish a side-by-side comparison of ASHRAE 90.1 and the 2009 IECC for commercial buildings. While the report will not specifically state a conclusion - the bottom line is that the two can viewed as EQUIVALENT.

DOE will make money available for training materials and other educational information Rescheck has been updated for '09- no rescheck for IRC.

DOE is trying to get final answer on what states will need to report to illustrate 90% compliance- definitive answer to come.

There will be a new program manager after 1-1-10.

Setting Priorities: Where do we need troops on the ground? - Please continue to communicate your organization's focus to the group. We can HELP! Some organizations have available troops and other resources that have yet to be allocated

- In SE the new year will bring a lot of focus on TN and AL. GA also has a lot of action
- May need help from those with legislative connections in NY, MO, and definitely WV
- There is a need to discuss compliance/enforcement- but this is best done in the new year in a forum outside this committee

**Upcoming ACTIONS:** 

- RECA code guides are on their way (and make excellent holiday gifts)
- NAIMA will put together a map showing where NAIMA's members are located
- Harry will meet with Paul and Eric to update the graph Harry shared earlier this year
- Monica will take a crack at crafting a one-pager showing how the model code saves money

  Monica will work with others to craft a one-page letter clarifying for states that 90.1 and ASHRAE are equivalent for

  Recovery Act purposes (I assume this is supposed to say 90.1 and IECC)

Ryan Colker, Manager, Government Affairs American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Extension: 1116 Fax: 202-833-0118 eMail: RColker@ashrae.org Web: www.ASHRAE.org<a href="http://www.ashrae.org/">www.ASHRAE.org<a href="http://www.ashrae.org/">http://www.ashrae.org/</a>

#### **EXHIBIT 52**





American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

## ASHRAE Government Affairs: Technical Expertise to Policymakers

Presentation to ASHRAE CTTC and TC
Albuquerque, New Mexico
June 26, 2010





ASHRAE Washington Office 1828 L Street, NW Suite 906 Washington, DC 20036 202-833-1830 www.ashrae.org/advocacy



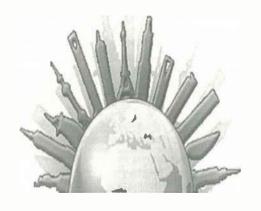
Patricia Ryan, Assistant to the Director, Washington Office

Mark Ames, Manager, Gov't Affairs



## ASHRAE DC Office 2010

- Participation in Coalitions
- Workshops/Symposia
- DOE Fellowship
- > Internship
- Advocacy
- Government Relations Activities





#### **Participation in Coalitions**

**High Performance Building Congressional Caucus** 

Coalition (ask your representative to join)

- Secretariat
- Monthly briefings
- Federal Building Legislation
- > 2030 Coalition signatory (AIA, ICC, USGBC, GBI)
- Zero-Energy Commercial Building Consortium (www.zeroenergycbc.org)
  - > Steering Committee Member
    - > ASHRAE Co-Chairs Codes and Standards Working Group
  - > Response to EISA Sec. 421/422
- Science, Technology, Engineering, and Math (STEM)Education Coalition



#### **Participation in Coalitions**

- World Standards Day
- Building Community Ad Hocs (climate change, building codes, depreciation, tax credits, federal buildings, Rebuild Haiti, BuildingStar, etc)
- HVAC Alliance (ACCA, AHRI, HARDI, PHCC)
- Commercial Building Tax Deduction Coalition
- Code Adoption and Enforcement (NASEO, ICC, ASE, BCAP)



Workshops/Symposia/Meetings

#### **Capitol Hill Briefings**

- January 28 Facilities Management for Sustainability (IFMA)
- February 4 After the Earthquake: The Role of Buildings and Infrastructure,
- February 25 SBIC Beyond Green Awards Reception & Briefing (SBIC)
- March 23 Insulation and the High-Performance Building (SPFA/PIMA/NAIMA)
- April 24 What's Your Quality of Light? Sustainable Solutions for Human Needs
  - and Energy Efficiency (IALD, IES, ALA)
- May 24 Building STAR Legislation: Retrofitting Our Way to Energy Saving and Job
- Creation (AHRI, ASHRAE, NEMA)
- June 15 Getting the Whole Picture of High-Performance Buildings (NIBS)
- June 18 The Zero Energy Commercial Buildings Consortium: A Public-Private
- Consortium for Zero Energy High Performance Buildings (ASE)

Future:

Rating Tools for Green Buildings (GBI)

**Can Climate Friendly Buildings be High-Performance (EESI)** 

**Technological Innovations and the Small Business (AHRI/ACCA)** 

**Solar Reflective Roofing (RCMA)** 

#### > ASHRAE Presidential Meetings

April 26-28, 2010, DOE, BOMA, USGBC, ASE, AGA, SMACNA

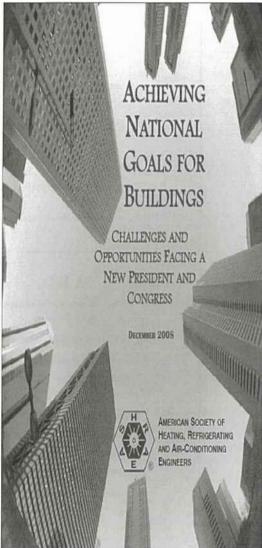


#### Workshops/Symposia/Meetings

- NIST/BFRL Workshop on International Engagement
- > Rebuilding America Building Star
- AGC Meeting on Construction and Climate Change
- NAE Symposium on K-12 Engineering Education
- > NEMA Energy Tax Coalition
- Interagency Sustainability WorkingGroup
- ACEEE Briefing on Behaviors for Energy Efficiency

- Interagency Council on Indoor Air Quality
- USGBC Building Performance InitiativeDiscussion
- GSA Workshop on Federal Building Commissioning





> Report to New Congress & President on Buildings

Explanatory Statement on Section 410, Recovery Act (HR1) by National Building Community Stakeholders (November 18, 2009)

Since the passage of the American Recovery and Reinvestment Act (ARRA) in February, 2009, State Energy Program ("SEP") funding ted to building energy code adoption and enforcement has been the subject of much discussion and debate. The objective of this statement is to clarify the Intention of the statute and to offer assistance to state and local governments to advance building energy efficiency codes, including code adoption, training in the operation of the codes and efforts at compliance and enforcement. We recognize that success in this area will not be easy but we have joined together to help. In an effort to provide accurate, understandable, and actionable information to states, local governments and the organizations and entities that support greater energy efficiency in the buttle environment, the understanded groups offer the following information about Sec. 410, of ARRA.

The actual statutory provision is as follows

Section 410 (a) (2)

The State, or the applicable units of local government that have authority to adopt building codes, will implement the following:

(A) A building energy code (or codes) for residential buildings that meets or exceeds the most recently published International Energy Conservation Code, or achieves equivalent or greater energy savings.

(B) A building energy code (or codes) for commercial buildings throughout the State that meets or exceeds the ANSI/ASHRAE/IESNA Standard 90.1-2007, or achieves equivalent or greater energy savings.

(C) A plan for the jurisdiction achieving compliance with the building energy code or codes described in subparagraphs (A) and (B) within B years of the date of enactment of this Act in at least 90 percent of new and renover residential and commercial building space. Such plan shall include active training and enforcement programs and measurement of the rate of compliance each year.

Some of the descriptions of this statutory language provided by third parties have resulted in inaccurate information and confusion among those who are involved in meeting the requirements of this Act.

The key points are as follows:

1- Conditions for Acceptance of ARRA funding. All 50 state governors have submitted letters to the Department of Energy, providing assurances that their states would comply with the terms of Section 410. All 50 states have accepted SEP funds that were conditioned on these assurances. Therefore, all 50 states have committed to do three things:

Explanatory Statement on ARRA and Code Adoption





#### HIGH-PERFORMANCE BUILDING CONGRESSIONAL CAUCUS COALITION

Producing High-Performance Federal Buildings

As Congress exekutes exportantities to impact the energy use of Pedenal buildings, the Deceation Convention of the high Performance Building Congressional Content Content in the physical and interest in the Congressional Content in the Congressional Cong

Advanting energy relection, extended nutrated by the property of part executions and effective our of reasons in the feder building exect requires addressing the disturby of parts executed with high portraments building including, appointably, some effectiveness, function and operation, federal preservation, productions, which and search, and medicalities.

Efforts to enhance the energy and austroid-by off adord suchings must precent within the context of traditional during responsess. For subgraving this, health, property, and public on from. In order to most context decreases and authorized assessments forting profession and absolute incorrection forting profession and absolute incorrection for factorial habitage process should be be assessed under qualification in the context of many professions and independent, and when recovery, include recovery, include recovering modifications to make subgravitations for more independent and inde

Require Date Life-Cycle Analysis and Decision-Miching for the Angulation of Federal Buildings.

The American inchair of Architects (UA) defines the option and analysis on, "any technique which aftern assessment of a piece solution, or chairs every determine solution, on the best of excellent get ordered connectic consequences over a piece period of tree." One of the eight properties to encounter of applicant education to encounter the Architects to be eight for acquisition to encounting for acquisition to our approximation to the eight for acquisition and a study reported budget for expertises and a study respective form approximation. Other has a compression of these budgets are the expertise and a study respective form of the eight for expertise and a study respective form of the eight for expertise and a study respective. The respective form of the eight for a budget entries of a measuring procedured contains a minimum of the study of the acquisition in a study and entries and a study of the eight for a budget entries and acquisition of the eight for a budget entries and acquisition of these seed.

Moting full Modylla couls of a butting project part of the Modylla analysis and dudon-moding processes will provide a major deglinose of the myly-porfurence Federal buildings.

Report Total Building Commissioning for the Federal Building Stock.

All return buildings should be required to all the fund building quarricularies, or ever returning a returning and post-congress-small return to include the documentation of ever performance requirements, drops return and plantic costs, anothers and evaluation of action funding performance, requirements, the comprehensive of ACMAPS.

Combine (ACMS) the Committed process. The requirement for include the committee of ACMAPS committees are for an extensive process. The requirement for include accommittation of the requirement from a confidence of the process that are small as well as profession to require building performance, the confidence in requirements building performance, the confidence in the small building performance, the confidence in the small building performance, the confidence in the small building performance and the development and implementation of a comprehensive training and the operations and mobile performance and implementation of a comprehensive training and the operations and mobile performance.

PHATECARNARCARNAR (COXML | Discussion Draft)

**IDISCUSSION DRAFTI** 

11 179 CONGRES

H.R.

To provide for the training of Federal building personnel, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

Mr. CARSAMAN introduced the following bill, which was referred to the

#### A BILL

To provide for the training of Federal building personnel, and for other purposes.

- 1 Be it enacted by the Senate and House of Representa-
- 2 tives of the United States of America in Congress assembled,
- 3 SECTION LISHORT TITLE
- This Act may be cited as the "Federal Buildings Per-
- 5 nonnel Training Act of 2009".
- 6 SEC. 2 TRAINING OF PEDERAL BUILDING PERSONNEL
- 7 (a) IDENTIFICATION OF CORE COMPETENCIES.—No.
- 8 later than one year after the date of enactment of this
- 9 Act and annually thereafter, the Administrator of General

904.011100111100.2014 (454)7/ toother 16, 2015 (627 a.m.)

>HPBCCC Report on Federal Building Opportunities

➤ Legislation to Implement Federal Building Recommendations



#### Congress

- Building and Efficiency Issues in Stimulus Legislation
- Depreciation of HVAC&R Equipment
- Green Jobs Training
- Building Code Enforcement
- Climate Change
- Recommendations on Federal Buildings

#### > Agencies

- Participate in Interagency Sustainability Working group and IAQ working group
- Regular meetings with DOE, EPA and GSA
- GSA meetings on Federal Building Commissioning Guidelines



- Hosted Monthly High Performance Building Roundtable Meetings
- Participated in Monthly ANSI Caucus Lunches at National Press Club
- Engineering R&D Symposium



#### Legislation



## American Clean Energy and Security Act (H.R. 2454), aka Waxman-Markey

- > Sets nat'l building code energy efficiency targets
  - > 30% on date of enactment; 50% by January 1, 2015 for commercial
  - > Uses ASHRAE 90.1-2004 and IECC 2006 as baselines
- ➤ In developing nat'l energy efficiency building code for commercial and residential, USDOE Secretary is to consider ASHRAE standards, IECC, and others
  - > DOE shall provide assistance to "recognized consensus-based code development organizations" to facilitate development
- ➤ EPA Administrator to establish building energy performance labeling program considering existing programs (Energy Star, HERS Index, DOE Programs)
  - > Support development of model labels
  - > Utilize incentives to spur use
- > Status: Passed House on 6/26/2009 by vote of 219-212

### American Clean Energy Leadership Act (S.1462)

- Introduced by Senator Jeff Bingaman (D-NM)
- > Updates nat'l building energy codes & standards at least every 3 years to achieve target energy savings of:
  - > 30% for ASHRAE Standards released during or after 2010 (commercial buildings)
  - > 50% for ASHRAE standards released during or after 2016
    - ➤ A different target year may be set by DOE Secretary if determines target can't be met in 2016
  - > If DOE determines ASHRAE's future revised model codes will not meet targets, DOE will propose or establish a modified code or standard that meets the above targets
  - ▶ Uses 90.1-2004 as baseline for commercial buildings; IECC 2006 for residential
- Authorizes incentive funds for states that have adopted and is implementing, on a statewide basis, a commercial building code that meets or exceeds ASHRAE 90.1-2007
- > Authorizes \$100 million to carry out the above
- > Status: Passed by Senate Energy and Natural Resources Committee on 7/16/2009, currently awaiting consideration on Senate floor

#### **American Power Act**

- ➤ Introduced by Senators John Kerry (D-MA) and Joseph Lieberman (ID-CT)
- > Authorizes federal funds to states for the implementation of:
  - > Building codes that improve energy efficiency
  - > Energy-efficient manufactured homes
  - Building energy performance labeling
  - ➤ Low-income community energy efficiency improvements
  - Energy efficiency retrofits of existing buildings
- > Status: Introduced in Senate in June, 2010

## Practical Energy and Climate Plan (Draft legislation)

- Proposed by Senator Richard Lugar (R-IN)
- Would establish mandatory targets for improved energy efficiency building performance measures for new residential and commercial construction
  - > The program would work with ASHRAE and other organization in developing codes & standards every 3 years, with the following targets:
    - > Commercial energy savings: 30% by 2012, and 50% by 2017
    - > Residential energy savings: 30% by 2012, and 50% by 2015
- DOE would partner with state & local gov'ts to achieve the energy saving codes and standards targets, including offering up to a total of \$300 M per year over the next 5 years. If a state is unable to certify compliance w/these target codes & standards, they will be at a disadvantage for receiving further DOE grants
- > Would require all new federal bldgs entering the design phase in 2012 or later to be designed to exceed nat'l blding performance standards
- > DOE would establish new nat'l blding retrofit program

## Federal Buildings Personnel Training Act (H.R.5112/S.3250

- Introduced by Representatives Carnahan (D-MO), Biggert (R-IL), and Norton (D-DC), and Senators Carper (D-DE) and Collins (R-ME)
- Requires the General Service Administration (GSA) to identify the core competencies necessary for federal personnel performing building operations and maintenance, energy management, sustainability, water efficiency, safety, and building performance measures
- Requires the GSA to work with relevant professional societies, industry associations, and others to develop a recommended curriculum relating to facility management and the operation of high-performance buildings
- Requires GSA to work with relevant professional societies, industry associations, and others to develop a course, certification, degree, license, or registration to demonstrate each core competency, and for ongoing training
- > Requires relevant federal personnel to demonstrate competency in the core areas through certification, licensure, etc.
- Requirements of this bill would apply to non-federal personal performing building operations and maintenance, energy management, safety, and design functions under a contract with a federal department or agency





#### **High-Performance Building Congressional Caucus**

Co-Chairs

Russ Carnahan (D-MO) Judy Biggert (R-IL)

**Members** 

Tammy Baldwin (D-WI)

Earl Blumenauer (D-OR)

Robert Brady (D-PA)

Ben Chandler (D-KY)

Mike Doyle (D-PA)

David Dreier (R-CA)

Vernon Ehlers (R-MI)

Bill Foster (D-IL)

Gabrielle Giffords (D-AZ) Joe Sestak (D-PA)

Debbie Halvorson (D-IL)

Paul Hodes (D-NH)

Jay Inslee (D-WA)

Steve Kagen (D-WI)

Dennis Kucinich (D-OH)

Dan Lipinski (D-IL)

Dave Loebsack (D-IA)

Zoe Lofgren (D-CA)

Doris Matsui (D-CA)

Betty McCollum (D-MN)

Jim McDermott (D-WA)

Mike McIntyre (D-NC)

Jerry McNerney (D-CA)

Ed Perlmutter (D-CO)

Todd Platts (R-PA)

Allyson Schwartz (D-PA)

Edolphus Towns (D-NY)

David Wu (D-OR)

#### **Supporting Coalition Includes**











































http://www.hpbccc.org



Development of letters, comments & testimony to Congress and Agencies on pending actions

- > ARRA and Code Adoptions
- **► STEM Education**
- ➤ Commercial Building Tax Deduction
- ➤ EIA Funding
- ➤ Depreciation of HVAC&R Equipment
- > Setting Commercial Equipment Efficiency Standards
- ➤ Building Codes
- > Federal Building Efficiency Standards
- ➤ Smart Grid Interoperability Standards
- School Modernization



#### **Advocacy Tools**

- One-page non-technical policy briefs/leave-behinds
  - Based on existing ASHRAE Position Statements
  - Developed through Advocacy Committee with technical review and approval by ExCom
    - Energy Efficiency
    - Climate Change
    - > STEM Education
    - Federal R&D Funding
    - Standards
    - Building Energy Data



#### **Advocacy Tools**

#### Government Affairs Updates

- ➢ Bi-weekly e-mails featuring government activities of interest
- Sign up at <a href="http://www.ashrae.org/advocacy">http://www.ashrae.org/advocacy</a>

#### Advocacy Packets

- Additional licensure requirements
- > State TTAA
- Building Codes
- Stimulus Funds (www.ashrae.org/recovery)
- Building Energy Labeling



#### **Advocacy Tools**

- Chapter Public Policy Materials
  - CTTC/Washington Office Primer on Government Activities
    - > Accompanying PowerPoint Presentation
  - Advocacy Toolkit
    - http://www.ashrae.org/advocacy/page/1262
- Government Affairs Brochure
  - Activities of the ASHRAE Washington Office
  - Available as PDF for distribution to chapter members







## Opportunities for Individual Member Participation

- SET Working Group Congressional Visits Day
- Engineering R&D Symposium
- > ASHRAE Congressional Briefings
- Forthcoming programs
  - Washington Visitation Program
  - CTTC Chair training programs
- HPBCCC Congressional Visits Days
- Washington Fellowship
- WISE Program



# Additional Washington Office Activities

- Building Energy Quotient Program
  - www.buildingeq.com
- Building Code Adoptions



- Standard 90.1
- Standard 189.1/IGCC Promotion
- Empowering Chapters to Engage State and Local Policymakers

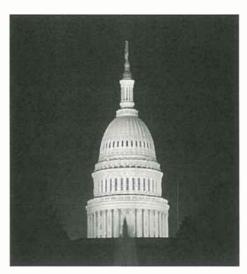


# Opportunities for Individual Member Participation

- Contact State and Local Policymakers on Important Issues
  - Building Energy Codes
  - NCEES Masters or Equivalent
  - Stimulus Funds
  - Building Energy Disclosure
  - Use of Voluntary Consensus Standards



### **ASHRAE/DOE** Fellowship



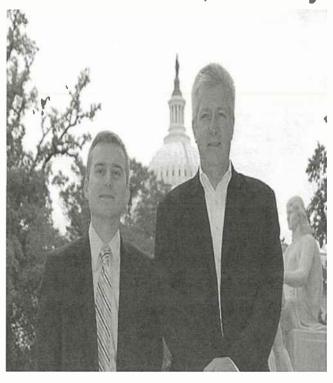
- 2008-2010 Fellow Mike Erbesfeld began in Sen. Dianne Feinstein's Office, moved to DOE in May 2009
- Currently seeking fellows for placement at DOE on codes issues
- Funding provided by DOE

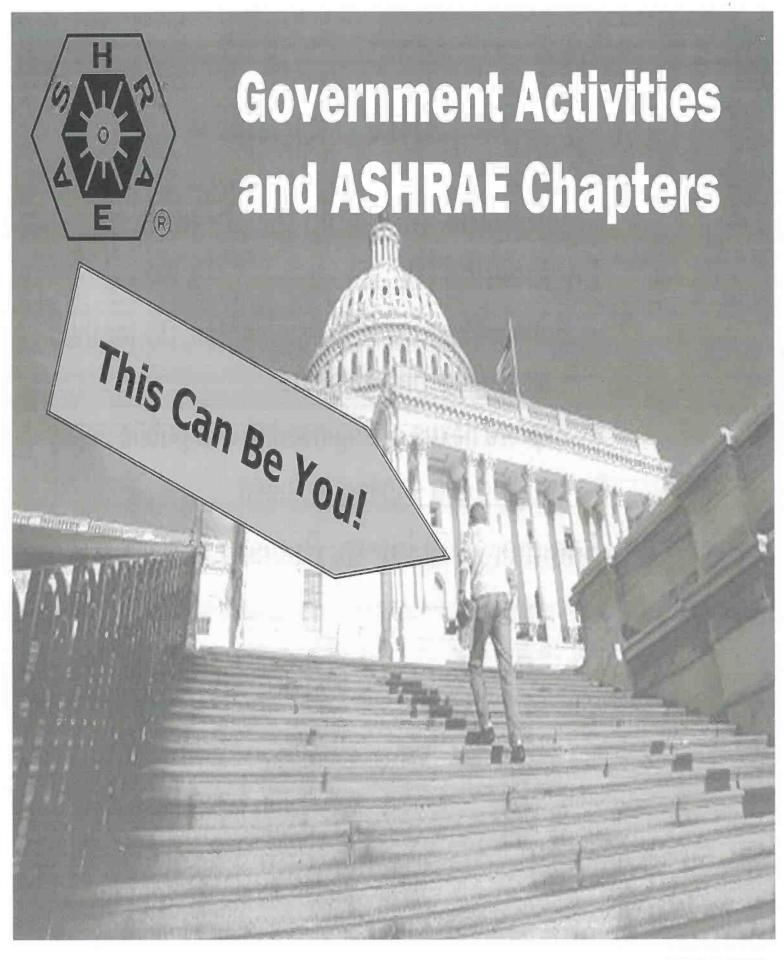


### Internship

## Washington Internship for Students of Engineering (WISE)

- Summer Internship in Washington, DC for third year engineering students
- > Explore nexus of engineering and public policy
- Lodging and stipend included
- Summer 2010 intern, Ramsey Brown, CMA







# Government Relations Activities

- Build relationships with government officials interested in the built environment
  - Establish ASHRAE as a source for unbiased, technical expertise
    - White House Office of Science & Technology Policy (OSTP)
    - Department of Energy (DOE)
    - > Environmental Protection Agency (EPA)
    - General Services Administration (GSA)
    - > U.S. Congress
    - > NIST/FERC—Smart Grid/Demand Response



### **Advocacy Priorities**

- Energy Efficiency
- Climate Change
- Indoor Environmental Quality
- Water Conservation
- > STEM Education/Competitiveness



## Anticipated Issues

- Energy Efficiency
  - Incentives (tax deductions/credits, depreciation)
  - Continued focus on Building Codes language
  - R&D in needed technologies
  - RPS with efficiency component
  - Building energy disclosure
- Climate Change
  - More cap-and-trade legislation with a little more potential
- Economy
  - Opportunities for buildings



# What's Planned for the Remainder of 2010?

- Increase ASHRAE member participation and interest in public policy
- Continue enhancement of ASHRAE Government Affairs webpage (<a href="http://www.ashrae.org/advocacy">http://www.ashrae.org/advocacy</a>)
- Recruit and place DOE Fellows
- Recruit 2011 WISE Intern
- Develop marketing materials for ASHRAE Government Relations Activities
- Continue participation in relevant coalitions and input to public policy
- Expand ASHRAE's role at the State and local levels

# **EXHIBIT 53 (FILED UNDER SEAL)**

C. O.



PROPOSAL FOR 1999 NATIONAL ELECTRICAL CODE  Log No  Date Rec'd,	118-1
Date: 9-25-95 Name: <u>Peter J. Schram</u> Tel. No. 617/848-9677 Company: (None)	
Street Address; 12 Royal Lake Dr. City: Braintree State: MA Zip: 02184	
Organization Represented: (None)	SEP 2 6 199
1. Section: <u>760-7</u>	,,,,,
2. Proposal recommends: ( ) new text ( X ) revised text ( ) deleted text 3. Proposal:	
Revise Section 760-7 to read as follows:	
760-7. Fire Alarm Circuits Extending Beyond One Building. <u>Power-limited</u> fire alarm circuits beyond one building <u>and run outdoors</u> shall either meet the requirements of Article 800 and communications circuits or shall meet the requirements of Article 225. <u>Nonpower-limited fit that extend beyond one building and run outdoors shall meet the requirements of Article 225.</u>	be classified as re alarm circuits
4. Statement of Problem and Substantiation for Proposal:	•
See attached.	
5. (X) This Proposal is original material	



#### SUBSTANTIATION FOR PETER J. SCHRAM PROPOSAL ON SEC. 760-7

118-2

The present requirements permit an electric shock hazard to exist in installations of nonpower-limited fire alarm circuits installed outdoors under the requirements of Article 800. For example, a 600-volt fire alarm circuit can be run outdoors on poles with no requirements as to height above ground or conductor or cable insulation.

This situation has existed since Article 760 first appeared in the 1975 edition of the Code. See Section 760-5 in that edition. However, in the 1971 edition of the Code, Section 725-43, on which Section 760-5 of the 1975 Code was based, permitted installation in accordance with Article 800 only for Class 2 circuits.

In the "Preprint' of the Proposed Amendments for the 1974 NEC, Part II", the limited energy concept of the 1971 NEC was continued by the following wording for proposed new Section 760-5(a) [See Page 304 of NFPA No. 70 PR74B].

"Wiring circuits reserved solely for fire-protective signaling services and complying with the requirements of Article 800 for communication circuits are acceptable for outside wiring. Circuits shall be deemed to comply with Article 800, and Section 800-1 in particular, if they carry limited energy similar to those of telephone, telegraph (except radio) circuits in common used by public or private companies. Wiring for circuits not meeting these requirements and intended to be installed outdoors shall meet the appropriate Sections of Article 730 (225)."

The Code-Making Panel held the entire proposed Article 760 on the docket and assigned it to an ad hoc committee. The result was that the limited energy concept of the 1971 NEC and proposed new Article 760 for the 1974 (1975) NEC was lost.

This proposal is intended to reinstate the original requirement, and eliminate the potential for an electric shock hazard inherent in the present Code wording. The words "and run outdoors" have been added because a circuit can run between "buildings", through a firewall for example, and not be outdoors. See the NEC definition of a building.



1999 National Electrical Code Proposal, LOG#

	Date Rec'd  AUG 2 is 1996  Date: 8/7/96 Name: Roger L. Sandstedt Tel. No. (314) 965-6961  Company: Cable Tray Institute  Street Address: 12982 Huntbridge Forest Dr. City: St. Louis State: MO. Zip: 63131  Organizational Represented: Cable Tray Institute
	1. Section/Paragraph: Section 300-22(c). #829
	2. Proposal Recommends 🔀 new text 📋 revised text 🔲 delete text
	3. Proposal:
	Add the following paragraph between the present second and third paragraphs:
	Cables that are supported in ladder cable trays, ventilated trough cable trays, ventilated channel cable trays or solid bottom cable trays shall be wiring methods consisting of Type MI cables, Type MC cables without an overall non-metallic covering, Types AC cables or other factory assembled multiconductor control, power or signal cables that are specifically listed for the use; Type PLTC cables (Article725), Type ITC Cables (article 727), Fire Protective Signaling Cables (Article 760), Optical Fiber Cables (Article 770), and Communication & Multipurpose Cables (Article 800) which are listed as plenum cables with adequate fire-resistance characteristics and low-smoke producing characteristics.
	4. Statement of Problem and Substantiation for Proposal;
•	All the acceptable wiring methods for "Other Spaces Used for Environmental Air" should be identified in Section 300-22(c). The high volume wiring methods required by today's technology that are allowed to be installed in Section 300-22(c) locations are not specifically identified in this section. The acceptance of this proposal will remove the high degree of confusion that now exist about the wiring methods for Section 300-22(c) locations. All the wiring methods in the proposed paragraph are as per

These wiring methods are being used in high volume and their use will increase in the future. Section 300-22(c) should be specific about its allowable wiring methods. This makes for a more user friendly NEC.

the 1996 NBC. The material in the proposed paragraph is distributed throughout the NEC. It should be

5. A This proposal is original material.
 This proposal is not original material, it source is as follows:

presented in a concentrated form in Section 300-22(c).

I hereby grant the NAPA the nonexclusive, royalty-free rights, including non-exclusive, royalty rights in copyright, in this proposal, and I understand that I acquire no rights in any publication of NFPA in which this proposal in this or another analogous form is used.

Roger & Suditedt

CLEAR THAN THIS NOTICE	
OFFICIAL LINES THE MODEL	
IT IS DUE TO THE QUALITY	3



<b>a</b> 9-/	-150
Proposal for the 1999 National Electrical Code® 3508	<u> </u>
Log # Date Received (Office Use Only)	
Date: 11/7/96 Name: Joseph A. Tedesco Telephone 6/75237/37	
Address: 350 North St. City Boston State MA Zip 021/3  1. Section/Paragraph 424-43 (a)	
1. Section/Paragraph 4 4 4 5 (CC)  2. Proposal recommends: New Text Revised Text Deleted Text  3. Proposal (include proposed new wording or identification of wording to be deleted):	
Change "UF" to "UF-B" and "NM" to "NM-B"	
"NM" to "NM-B"	
4. Substantiation:	
See my proposals to make these changes in Articles 336	
and 339. This intermation is in Live with UL, and Section 336-30 (b)	FPN)
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	ng 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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Signature (Required) Joseph A-Tedes	
Mail to: Secretary Standards Council, National Fire Protection Association, I Balterymarch Park, PO.	
	and the same of th



METHOD OF SUBMITTING A PROPOSAL

**70**-1069

This Proposal is not original material, its source (if known) is as follow:  Original material is considered to be the submitter's own idea based on or as a result of his/her own experience, thought or research and, to the best of his/her knowledge, is not copied from another source.  hereby grant the NFPA the nonexclusive, royalty-free rights, including non-exclusive, royalty-free rights in opyright, in this proposal, and I understand that I acquire possessing in any publication of NFPA in which this proposal in this or another similar or enalogous form is used.  Signature (Required)	•	
Type or print in Black link. Use a separate copy for each proposal. Limit each proposal to a SINGEL Section. All proposals must be received by NFPA by 5 p.m., E.S.T., Friday November 8, 1996 to be considered for the 1999 National Electrical Code. Proposals received after 300 p.m., E.S.T., Friday, November 8, 1996 to be considered for the 1999 National Electrical Code. Proposals received after 300 p.m., E.S.T., Friday, November 8, 1996 will be returned to the submitter.  Date: 17 12 Name: 16 Tork. V. Tirmpaniane - Resident No. 808-360-1991  Company  Street Address 78 1 Netroce Blvd. City OLD Blidge State 1. T. Tap DESS 7-49  Please Indicate Organization Represented (If any Nouncipal Electrical Lins pectrons ASSN  1. Section/Paragraph: 210-63  2. Proposal recommends (check one): new text of revised text detected text  3. Proposal include proposed new wording, or identification of wording to be deleted):  The Following To Labor Sentence.  The Receptacle outlet shall not be deleted text  4. Statement of Problem and Substantiation for Proposal:  This Proposal is not original material.  Supply Flow mother to Require to Problem The Conduction of National Time Proposal is not original material. Supply Flow of the Receptacle outlet but Rether to Require the Proposal is not original material. Supply Flow of the Conduction of National State or research and, to the best of his flow knowledge, is not copied from another source.  Note: Original material is considered to be the submitter's own idea based on or as a result of his flow own experience. This proposal is not original material, its source (if known) is as follow:  Only 10 this proposal is not original material. Supply Flow proposal in this proposal in this proposal in the own proposal in	FORM FOR PROPOSALS FOR 1999 NATIONAL ELECTRICAL CODE®	
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#### FORM FOR PROPOSALS ON NFPA TECHNICAL COMMITTEE DOCUMENTS

Mail to: Secretary, Standards Council National Fire Protection Association, 1 Batterymarch Park, Quincy, Massachusetts 02269-9101

Fax No. 617-770-3500

Note: All proposals must be received by 5:00 p.m. EST/EDST on the published proposal-closing date.

If you need further information on the standards-making process, please contact the Standards Administration Department at 617-984-7249.
Date 12-10-95 Name Joseph A. Tedesco Tel. No. 6/75237/37
Company
Street Address 350 NORTH STREET BOSTON MA 02/13
Please Indicate Organization Represented (If any)
1. a) NFPA Document Title NEC NFPA No. & Year 70-1996
b) Section/Paragraph "LUMINAIRe" ()
FOR OFFICE USE ONLY
2. Proposal Recommends: (Check one) I new text Log #
Date Rec'd DEC 26 1995
3. Proposal (include proposed new or revised wording, or identification of wording to be deleted):
Luminaire (Lighting Fixture): a complete lighting unit
Consisting of a lamp or lamps together with the parts designed to distribute the light, to position and protect the lamps, and to connect the lamps to the power supply.
parts designed to distribute the light to position
and protect the lamps and to come + the land
to the power supply.
4. Statement of Problem and Substantiation for Proposal: (Note: State the problem that will be resolved by your recommenda-
tion; give the specific reason for your proposal including copies of tests, research papers, fire experience, etc. If more than 200 words, it may be abstracted for publication.)
See Section 410-1. The terms lighting fixture and
"lighting Lixtures" one used in one 128 locations in the
1996 National Electrical Code Suppressionale
"lighting fixtures" one used in over 128 locations in the 1996 National Electrical Code - Expressional See Sections 517-33" and 517-43" where "luminaires" is used also.
5. This Proposal is original material. (Note: Original material is considered to be the submitter's own idea based on or as a result of his/her cover experience, thought, or research and, to the best of his/her knowledge, is not copied from another source.)
This Proposal is not original material; its source (if known) is as follows:
BATANA9 Sec 410-1 70-1996
Note 1: Type or print legibly in black ink.  Note 2: If supplementary material (photographs, diagrams, reports, etc.) is included, you may be required to submit sufficient copies for all members and alternates of the technical committee.
I hereby grant NFPA the non-exclusive, royalty-free rights, including non-exclusive, royalty-free rights in copy-
right, in this proposal and I understand that I acquire no rights in any publication of NFPA in which this proposal in
this or another similar or analogous form is used.
Speak a. ledesio
Signature (Required)
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METHOD OF SUBMITTING A PROPOSAL

70-1069

FORM FOR PROPOSALS FOR 1999 NATIONA	L ELECTRICAL C	ODE®
INSTRUCTIONS PLEASE READ CAREFULLY Type or print in Black Ink. Use a separate copy for each proposal. Limit each proposal to a SINGLE section. All proposals must be received by NFPA by 5 p.m., E.S.T., Friday November 8, 1996 to be considered for the 1999 National Electrical Code. Proposals received after 5:00 p.m., E.S.T., Friday, November 8, 1996 will be returned to the submitter.	Date Rec'd: Office I  JAN 17	29 /se Only
Date: 1/5/96 Name: Steve Young	Tel. No	(402) 467-7632
Company Lincoln Electric System		
Street Address: 2620 Fairfield St. City Lincoln	State_NE	Zip 68521
Please Indicate Organization Represented (if any):	<del></del>	
1. Section/Paragraph: 1996 NEC Article 90 Paragraph	90-2(b)(G)(N).	6(h)
2. Proposal recommends (check one): A new text of revised text of the control of	lighting and tr	affic ol of
<ul> <li>4. Statement of Problem and Substantiation for Proposal: Such installations are designed, installed and a personnel. In most areas of the country, street signals are provided by the local utility or a ghas been no substantial proof of hazards to the street lighting systems. The National Electrical addresses street lighting in better detail than Code (NEC).</li> <li>5. If This Proposal is original material    This Proposal is not original material, its source (if known) is as followed.</li> </ul>	t lighting and government agen public of ill- al Safety Code the National E	traffic cy. There wired (NESC)
Note: Original material is considered to be the submitter's own idea based thought or research and, to the best of his/her knowledge, is not cop		
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Signature (I Mail to: Secretary, Standards Council, National Fire Protection Association Quincy, MA 02269 or FAX to 617-770-3500	Required X	P.O. Box 9101

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		4-1-17 ON
F	ORM FOR PROPOSALS FOR 1999 NAT	TIONAL ELECTRICAL
Type or print in l Limit each proper received by NFP/ considered for the	DNS PLEASE READ CAREFULLY Black ink. Use a separate copy for each proposal. Lat to a SINGLE section. All proposals must be A by 5 p.m. E. S. T., Friday November 8, 1996 to be 1999 National Electrical Code, Proposals received T., Friday, November 8, 1996 will be returned to	LOG# 9 45  Dato Rec'd JAN 2 9 1  Office Use Only
Date //20/96	Name Holyn Mculloch	Tel, No. <u>208-331-5665</u>
Company	TBEW LOCAL 449	
Street Addres	S 66 76 GINCTER City BOISE	State Ic Zip 835/2
Please Indica	te Organization Represented (If Any)	· · · · · · · · · · · · · · · · · · ·
1.Section/Par	agraph Grounding in all Articles	
2. Proposal re	commends(Check One) [ ] new ter	xt [X] revised text [ ] deleted text
-	nclude proposed new wording, or identification of	wording to be deleted)
ACW!	rite grounding in all Articles of the NEC to one Ar	. Hote
4. Statement o	of Problem and substantiation for Proposal	
		•
5. [X] This Pr	oposal is original material	
[ ] This Pr	oposal is not original material, its source (if know	n) is as follows:
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	National Fire Protection Association	·
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	P O Box 9101 Quincy, MA 02269	·
Fax:	617-770-3500	
rax.	011-110-2200	