ORAL ARGUMENT NOT YET SCHEDULED

No. 22-7063

UNITED STATES COURT OF APPEALS FOR THE DISTRICT OF COLUMBIA CIRCUIT

AMERICAN SOCIETY FOR TESTING AND MATERIALS, et al., Appellants

v.

PUBLIC.RESOURCE.ORG, INC., Appellee

Appeal from the United States District Court for the District of Columbia Hon. Tanya S. Chutkan, No. 1:13-cv-1215-TSC

PUBLIC APPENDIX VOLUME 2 (JA494-JA1297) MATERIAL UNDER SEAL IN SEPARATE SUPPLEMENT

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January 20, 2023 (*additional counsel on inside cover*) t #1982413 Filed: 01/20/2023

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"Percer	nt Evapora	ated" Repo	ort Form	Laboratory:	,		Ambient temperature at the start of the
Date: Time							Ambient barometric pressure at the start of the test
Operator:							Volume of condensate observed in the receiving cylinder at any point in the distillation, expressed as a percentage of the charge volume, in connection with simultaneous temperature reading
Ambient temp Atmospheric	perature (°C) pressure (kPa)						Temperature measuring device readings which are corrected to 101,3 kPa barometric pressure
Condenser te Temperature (around receivi	mperature (°C) of the bath ing cylinder (°C)						Sum of the percent recovered and the percent loss
	Derest	Corrected		Damant	Temperature Readings at		Temperature measuring device readings at specified percentages evaporated calculated with arithmetical or graphical procedures
	Percent Recovered	Temperature Reading (°C)	mL / min	Percent Evaporated	prescribed percent evaporated (°C)		Group O: 2 to 5 minutes Group 1, 2 & 3: 5 to 10 minutes Group 4: 5 to 15 minutes
	IBP			<u> </u>			Group 1 & 2: 60 to 100 seconds
	5 10 15 20			5 10 15 20			Group0: time from first application of heat ro 10% recovered = 3 to 4 minutes Group 0, 1, 2, 3 & 4: 4 to 5 ml / min uniform avrage rate from 5% recovered to 5
	25 30 35 40			25 30 35 40			Volume of condensate observed in the receiving cylinder when the 5ml conditions are reached
	45 50 55 60			45 50 55 60			Volume of condensate observed in the receiving cylinder when the final boiling point is observed
	65 70		\vdash	65			Maximum percent recovered
	75 80			75 80			Volume of residue in the flask expressed as a percentage of the charge volume
5 ml residue	90			90 90			Combined Percent Recovery and Percent Residue in the flask
FBP	95			95 FBP			Time from 5 ml in flask to FBP =< 5 minutes
							100 minus the Total Recovery
Percent Reco	ivery						100 minus the Fotal Recovery
Percent Resi Percent Total	due Recovery						Percent Recovery corrected for barometric pressure
Percent Loss Corrected Pe	rcent Recovery		Corrected T	orrected Loss otal Recovery			Percent Loss corrected for barometric
Comments:							Combined Percent Recovery and Percent Residue in the flask corrected for barometric pressure

ATTA

FIG. X5.2 Percent Evaporated Report Form

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D 86 – 07

SUMMARY OF CHANGES

Subcommittee D02.08 has identified the location of selected changes to this standard since the last issue (D 86–05) that may impact the use of this standard. (Approved Jan. 15, 2007.)

(1) Deleted "natural gasolines" from 1.1.

(3) Added Fig. 6.

(2) Deleted "Group 0" from the entire standard.

Subcommittee D02.08 has identified the location of selected changes to this standard since the last issue, (D 86–04b), that may impact the use of this standard. (Approved July 1, 2005.)

(1) Replaced Table 4 with new values.

(4) Added Appendix X5, and cross-reference in Section 12.1.

(2) Revised 9.1.2-9.1.2.2, 9.1.5, and Notes 9-11.

(3) Added 13.5.3 and footnote reference to the research report.

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EXHIBIT 7

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Designation: D 975 – 07

An American National Standard

Standard Specification for Diesel Fuel Oils¹

This standard is issued under the fixed designation D 975; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope*

1.1 This specification covers seven grades of diesel fuel oils suitable for various types of diesel engines. These grades are described as follows:

1.1.1 *Grade No. 1-D S15*—A special-purpose, light middle distillate fuel for use in diesel engine applications requiring a fuel with 15 ppm sulfur (maximum) and higher volatility than that provided by Grade No. 2-D S15 fuel.²

1.1.2 *Grade No. 1-D S500*—A special-purpose, light middle distillate fuel for use in diesel engine applications requiring a fuel with 500 ppm sulfur (maximum) and higher volatility than that provided by Grade No. 2-D S500 fuel.²

1.1.3 *Grade No. 1-D S5000*—A special-purpose, light middle distillate fuel for use in diesel engine applications requiring a fuel with 5000 ppm sulfur (maximum) and higher volatility than that provided by Grade No. 2-D S5000 fuels.

1.1.4 *Grade No.* 2-D S15—A general purpose, middle distillate fuel for use in diesel engine applications requiring a fuel with 15 ppm sulfur (maximum). It is especially suitable for use in applications with conditions of varying speed and load.²

1.1.5 *Grade No. 2-D S500*—A general-purpose, middle distillate fuel for use in diesel engine applications requiring a fuel with 500 ppm sulfur (maximum). It is especially suitable for use in applications with conditions of varying speed and load.²

1.1.6 *Grade No. 2-D S5000*—A general-purpose, middle distillate fuel for use in diesel engine applications requiring a fuel with 5000 ppm sulfur (maximum), especially in conditions of varying speed and load.

1.1.7 *Grade No. 4-D*—A heavy distillate fuel, or a blend of distillate and residual oil, for use in low- and medium-speed diesel engines in applications involving predominantly constant speed and load.

Note 1—A more detailed description of the grades of diesel fuel oils is given in X1.2.

Note 2—The Sxxx designation has been adopted to distinguish grades by sulfur rather than using words such as "Low Sulfur" as previously because the number of sulfur grades is growing and the word descriptions were thought to be not precise. S5000 grades correspond to the so-called "regular" sulfur grades, the previous No. 1-D and No. 2-D. S500 grades correspond to the previous "Low Sulfur" grades. S15 grades were not in the previous grade system and are commonly referred to as "Ultra-Low Sulfur" grades or ULSD.

1.2 This specification, unless otherwise provided by agreement between the purchaser and the supplier, prescribes the required properties of diesel fuels at the time and place of delivery.

1.2.1 Nothing in this specification shall preclude observance of federal, state, or local regulations which may be more restrictive.

Note 3—The generation and dissipation of static electricity can create problems in the handling of distillate diesel fuel oils. For more information on the subject, see Guide D 4865.

1.3 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.

2. Referenced Documents

- 2.1 ASTM Standards: ³
- D 56 Test Method for Flash Point by Tag Closed Cup Tester D 86 Test Method for Distillation of Petroleum Products at
- Atmospheric Pressure
- D 93 Test Methods for Flash Point by Pensky-Martens Closed Cup Tester
- D 129 Test Method for Sulfur in Petroleum Products (General Bomb Method)
- D 130 Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test
- D 445 Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)

*A Summary of Changes section appears at the end of this standard.

¹ This specification is under the jurisdiction of ASTM Committee D02 on Petroleum Products and Lubricants and is the direct responsibility of Subcommittee D02.E0.02 on Diesel Fuel Oils.

Current edition approved Feb. 1, 2007. Published March 2007. Originally approved in 1948. Last previous edition approved in 2006 as D 975–06b.

² This fuel complies with 40 CFR Part 80—Control of Air Pollution from New Motor Vehicles: Heavy–Duty Engines and Vehicle Standards and Highway Diesel Fuel Sulfur Control Requirements: Final Rule. Regulation of Fuels and Fuel Additives: Fuel Quality Regulations for Highway Diesel Fuel Sold in 1993 and Later Calendar Years.

D 482 Test Method for Ash from Petroleum Products

³ For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

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- D 524 Test Method for Ramsbottom Carbon Residue of Petroleum Products
- D 613 Test Method for Cetane Number of Diesel Fuel Oil
- D 1266 Test Method for Sulfur in Petroleum Products (Lamp Method)
- D 1319 Test Method for Hydrocarbon Types in Liquid Petroleum Products by Fluorescent Indicator Adsorption
- D 1552 Test Method for Sulfur in Petroleum Products (High-Temperature Method)
- D 1796 Test Method for Water and Sediment in Fuel Oils by the Centrifuge Method (Laboratory Procedure)
- D 2274 Test Method for Oxidation Stability of Distillate Fuel Oil (Accelerated Method)
- D 2500 Test Method for Cloud Point of Petroleum Products
- D 2622 Test Method for Sulfur in Petroleum Products by Wavelength Dispersive X-ray Fluorescence Spectrometry
- D 2709 Test Method for Water and Sediment in Middle Distillate Fuels by Centrifuge
- D 2880 Specification for Gas Turbine Fuel Oils
- D 2887 Test Method for Boiling Range Distribution of Petroleum Fractions by Gas Chromatography
- D 3117 Test Method for Wax Appearance Point of Distillate Fuels
- D 3120 Test Method for Trace Quantities of Sulfur in Light Liquid Petroleum Hydrocarbons by Oxidative Microcoulometry
- D 3828 Test Methods for Flash Point by Small Scale Closed Cup Tester
- D 4057 Practice for Manual Sampling of Petroleum and Petroleum Products
- D 4177 Practice for Automatic Sampling of Petroleum and Petroleum Products
- D 4294 Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-ray Fluorescence Spectrometry
- D 4306 Practice for Aviation Fuel Sample Containers for Tests Affected by Trace Contamination
- D 4539 Test Method for Filterability of Diesel Fuels by Low-Temperature Flow Test (LTFT)
- D 4737 Test Method for Calculated Cetane Index by Four Variable Equation
- D 4865 Guide for Generation and Dissipation of Static Electricity in Petroleum Fuel Systems
- D 5453 Test Method for Determination of Total Sulfur in Light Hydrocarbons, Spark Ignition Engine Fuel, Diesel Engine Fuel, and Engine Oil by Ultraviolet Fluorescence
- D 5771 Test Method for Cloud Point of Petroleum Products (Optical Detection Stepped Cooling Method)
- D 5772 Test Method for Cloud Point of Petroleum Products (Linear Cooling Rate Method)
- D 5773 Test Method for Cloud Point of Petroleum Products (Constant Cooling Rate Method)
- D 5842 Practice for Sampling and Handling of Fuels for Volatility Measurement
- D 5854 Practice for Mixing and Handling of Liquid Samples of Petroleum and Petroleum Products

- D 6078 Test Method for Evaluating Lubricity of Diesel Fuels by the Scuffing Load Ball-on-Cylinder Lubricity Evaluator (SLBOCLE)
- D 6079 Test Method for Evaluating Lubricity of Diesel Fuels by the High-Frequency Reciprocating Rig (HFRR)
- D 6217 Test Method for Particulate Contamination in Middle Distillate Fuels by Laboratory Filtration
- D 6371 Test Method for Cold Filter Plugging Point of Diesel and Heating Fuels
- D 6468 Test Method for High Temperature Stability of Distillate Fuels
- D 6469 Guide for Microbial Contamination in Fuels and Fuel Systems
- D 6890 Test Method for Determination of Ignition Delay and Derived Cetane Number (DCN) of Diesel Fuel Oils by Combustion in a Constant Volume Chamber
- D 6898 Test Method for Evaluating Diesel Fuel Lubricity by an Injection Pump Rig
- 2.2 Other Documents:
- 26 CFR Part 48 Manufacturers and Realtors Excise Taxes⁴
- 40 CFR Part 80 Regulation of Fuels and Fuel Additives⁴

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 S(numerical specification maximum)—indicates the maximum sulfur content, in weight ppm (μ g/g), allowed by this specification in a diesel fuel grade.

3.1.1.1 *Discussion*—Of the seven diesel fuel grades specified in this standard, six have important distinguishing maximum sulfur regulatory requirements. These are Grades No. 1-D S15, No. 1-D S500, No. 1-D S5000, No. 2-D S15, No. 2-D S500 and No. 2-D S5000. The seventh grade, No. 4-D, is distinguished from these other grades by many major properties in addition to sulfur (unregulated maximum), and therefore is not included in this designation system. Thus, Grade No. 4-D does not have the designation S20000 as part of its grade name.

4. Sampling, Containers, and Sample Handling

4.1 It is strongly advised to review all test methods prior to sampling to understand the importance and effects of sampling technique, proper containers, and special handling required for each test method.

4.2 Correct sampling procedures are critical to obtaining a representative sample of the diesel fuel oil to be tested. Refer to Appendix X2 for recommendations. The recommended procedures or practices provide techniques useful in the proper sampling or handling of diesel fuels.

5. Test Methods

5.1 The requirements enumerated in this specification shall be determined in accordance with the following methods:

5.1.1 *Flash Point*—Test Methods D 93, except where other methods are prescribed by law. For all grades, Test Method D 3828 may be used as an alternate with the same limits. For Grades No. 1-D S15, No. 1-D S500, No. 1-D S5000, No. 2-D

 $^{^4}$ Available from Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

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S15, No. 2-D S500, and No. 2-D S5000, Test Method D 56 may be used as an alternate with the same limits, provided the flash point is below 93°C and the viscosity is below 5.5 mm²/s at 40°C. This test method will give slightly lower values. In cases of dispute, Test Methods D 93 shall be used as the referee method. Test Method D 56 can not be used as the alternate method for Grade No. 4-D because its minimum viscosity limit is 5.5 mm²/s at 40°C.

D 5773 can be used as alternates with the same limits. Test Method D 3117 can also be used since it is closely related to Test Method D 2500. In case of dispute, Test Method D 2500 shall be the referee method.

5.1.3 Water and Sediment-Test Method D 2709 is used for fuel Grades No. 1-D S15, No. 1-D S500, No. 1-D S5000, No. 2-D S15, No. 2-D S500, and No. 2-D S5000. Test Method D 1796 is used for Grade No. 4-D.

5.1.2 Cloud Point-Test Method D 2500. For all fuel grades in Table 1, the automatic Test Methods D 5771, D 5772, or

5.1.4 Carbon Residue—Test Method D 524 is used for fuel Grades No. 1-D S15, No. 1-D S500, No. 1-D S5000, No. 2-D

TABLE 1	Detailed	Requirements	for	Diesel	Fuel	Oils [∧]
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	ASTM				Grade			
Property	Test Method ^ø	No. 1-D S15	No. 1-D S500 ^C	No. 1-D S5000 ^D	No. 2-D S15	No. 2-D S500 ^{<i>C,E</i>}	No. 2-D S5000 ^{D,E}	No. 4-D ^D
Flash Point. °C. min.	D 93	38	38	38	52 [∉]	52 ^E	52 ^E	55
Water and Sediment, % vol, max	D 2709	0.05	0.05	0.05	0.05	0.05	0.05	
	D 1796							0.50
Distillation: one of the following requirements shall be met:								
1. Physical Distillation	D 86							
Distillation Temperature, °C 90 % , % vol recovered								
min					282 ^E	282 [£]	282 [#]	
max		288	288	288	338	338	338	
2. Simulated Distillation	D 2887							
Distillation Temperature, °C 90 %, % vol recovered								
min						300 [£]	300 <i>⊑</i>	
max			304	304		356	356	
Kinematic Viscosity, mm ² /S at 40°C	D 445							
min		1.3	1.3	1.3	1.9 ^E	1.9 ^E	1.9 ^E	5.5
max		2.4	2.4	2.4	4.1	4.1	4.1	24.0
Ash % mass, max	D 482	0.01	0.01	0.01	0.01	0.01	0.01	0.10
Sulfur, ppm (µg/g) ^F max	D 5453	15			15			
% mass, max	D 2622 ^G		0.05			0.05		
% mass, max	D 129			0.50			0.50	2.00
Copper strip corrosion rating max 3 h	D 130	No. 3	No. 3	No. 3	No. 3	No. 3	No. 3	
at 50°C								
Cetane number, min ^H	D 613	40'	40'	40′	40'	40'	40'	30'
One of the following properties must								
be met:								
(1) Cetane index, min.	D 976–80 ⁰	40	40		40	40		
(2) Aromaticity, % vol, max	D 1319 ⁶	35	35		35	35		
Operability Requirements								
Cloud point, °C, max	D 2500	Л	J	J	J	Л	J	
or								
LTFT/CFPP, °C, max	D 4539/							
	D 6371							
Ramsbottom carbon residue on 10 %	D 524	0.15	0.15	0.15	0.35	0.35	0.35	
distillation residue, % mass, max								
Lubricity, HFRR @ 60°C, micron, max	D 6079	520	520	520	520	520	520	

^A To meet special operating conditions, modifications of individual limiting requirements may be agreed upon between purchaser, seller, and manufacturer.

^B The test methods indicated are the approved referee methods. Other acceptable methods are indicated in 5.1.

^C Under United States regulations, if Grades No. 1–D S500 or No. 2–D S500 are sold for tax exempt purposes then, at or beyond terminal storage tanks, they are required by 26 CFR Part 48 to contain the dye Solvent Red 164 at a concentration spectrally equivalent to 3.9 lb per thousand barrels of the solid dye standard Solvent Red 26, or the tax must be collected.

^D Under United States regulations, Grades No.1–D S5000, No. 2–D S5000, and No. 4–D are required by 40 CFR Part 80 to contain a sufficient amount of the dye Solvent Red 164 so its presence is visually apparent. At or beyond terminal storage tanks, they are required by 26 CFR Part 48 to contain the dye Solvent Red 164 at a concentration spectrally equivalent to 3.9 lb per thousand barrels of the solid dye standard Solvent Red 26. ^E When a cloud point less than -12°C is specified, as can occur during cold months, it is permitted and normal blending practice to combine Grades No. 1 and No. 2

to meet the low temperature requirements. In that case, the minimum flash point shall be 38°C, the minimum viscosity at 40°C shall be 1.7 mm²/s, and the minimum 90 % recovered temperature shall be waived.

Other sulfur limits can apply in selected areas in the United States and in other countries.

⁹ These test methods are specified in 40 CFR Part 80. ^H Where cetane number by Test Method D 613 is not available. Test Method D 4737 can be used as an approximation.

¹ Low ambient temperatures as well as engine operation at high altitudes may require the use of fuels with higher cetane ratings.

¹ It is unrealistic to specify low temperature properties that will ensure satisfactory operation at all ambient conditions. In general, cloud point (or wax appearance point) Low Temperature Flow Test, and Cold Filter Plugging Point Test may be used as an estimate of operating temperature limits for Grades No. 1–D S500; No. 2–D S500; and No. 1-D S5000 and No. 2-D S5000 diesel fuel oils. However, satisfactory operation below the cloud point (or wax appearance point) may be achieved depending on equipment design, operating conditions, and the use of flow-improver additives as described in X5.1.2. Appropriate low temperature operability properties should be agreed upon between the fuel supplier and purchaser for the intended use and expected ambient temperatures. Test Methods D 4539 and D 6371 may be especially useful to estimate vehicle low temperature operability limits when flow improvers are used. Due to tuel delivery system, engine design, and test method differences, low temperature operability tests may not provide the same degree of protection in various vehicle operating classes. Tenth percentile minimum air temperatures for U.S. locations are provided in Appendix X5 as a means of estimating expected regional temperatures. The tenth percentile minimum air temperatures may be used to estimate expected regional target temperatures for use with Test Methods D 2500, D 4539, and D 6371. Refer to X5.1.3 for further general guidance on test application.

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S15, No. 2-D S500 and No. 2-D S5000. Grade No. 4-D does not have a limit for carbon residue.

5.1.5 *Ash*—Test Method D 482 is used for all grades in Table 1.

5.1.6 *Distillation*—Test Method D 86 is used for Grades No. 1-D S15, No. 1-D S500, No. 1-D S5000, No. 2-D S15, No. 2-D S500 and No. 2-D S5000. For all grades, Test Method D 2887 can be used as an alternate with the limits listed in Table 1. In case of dispute, Test Method D 86 shall be the referee method. Grade No. 4-D does not have distillation requirements.

5.1.7 *Viscosity*—Test Method D 445 is used for all fuel grades in Table 1.

5.1.8 *Sulfur*—The following list shows the referee test methods and alternate test methods for sulfur, the range over which each test method applies and the corresponding fuel grades.

Sulfur	Range	Grades
lest Method	3	
D 129	>0.1 mass %	No. 1-D S5000, No. 2-D S5000,
(referee)		No. 4-D
D 1266	0.0005 to 0.4 mass %	No. 1-D S500, No. 2-D S500
	5 to 4000 mg/kg (wt ppm)	
D 1552	>0.06 mass %	No. 1- D S5000, No. 2-D S5000,
		No. 4-D
D 2622	0.0003 to 5.3 mass %	All Grades
(referee for	3 to 53 000 mg/kg (wt ppm)	
S500 Grades)		
D 3120	3.0 to 100 mg/kg (wt ppm)	No. 1-D S15, No. 2-D S15
		No. 1-D S500, No. 2-D S500
		(S500 grades must be diluted
		before testing)
D 4294	0.0150 to 5.00 mass %	No. 1- D S5000, No. 2-D S5000,
	150 to 50 000 mg/kg (wt ppm)	No. 4-D
D 5453	0.0001 to 0.8 mass %	All Grades
(referee for	1.0 to 8000 ma/ka (wt ppm)	
S15 grades)	3 3 (11)	
· · · · · · · · · /		

NOTE 4—The units used to report results in the above test methods are:

D 129	mass %
D 1266	mass %
D 1552	mass %
D 2622	mass %
D 3120	ppm (µg/g)
D 4294	mass %
D 5453	ppm (µg/g)

Results reported in mg/kg and in ppm (μ g/g) are numerically the same. The units used in Table 1 for the sulfur requirements are the units in which results for the referee test are reported. 5.1.9 *Copper Corrosion*—Test Method D 130, 3 h test at 50°C. This test method is used for fuel Grades No. 1-D S15, No. 1-D S500, No. 1-D S5000, No. 2-D S15, No. 2-D S500 and No. 2-D S5000. Grade No. 4-D does not have a copper corrosion requirement.

5.1.10 *Cetane Number*—Test Method D 613 is used for all fuel grades in Table 1. Test Method D 6890 is used for all No. 1-D and No. 2-D grades with the DCN result being compared to the cetane number specification requirement of 40. Test Method D 613 shall be the referee method.

5.1.11 Cetane Index—Test Methods D 976–80 is used for fuel Grades No. 1-D S15, No. 1-D S500, No. 2-D S15 and No. 2-D S500. Grades No. 1-D S5000, No. 2-D S5000 and No. 4-D do not have an aromatics content requirement, so do not use this test method as a surrogate for aromatics content.

5.1.12 Aromaticity—Test Method D 1319. This test method provides an indication of the aromatics content of fuels. For fuels with a maximum final boiling point of 315°C, this method is a measurement of the aromatic content of the fuel. This test method is used for fuel Grades No. 1-D S15, No. 1-D S500, No. 2-D S15 and No. 2-D S500. Grades No. 1-D S5000, No. 2-D S5000 and No. 4-D do not have an aromatics content requirement.

5.1.13 Lubricity—Test Method D 6079.

6. Workmanship

6.1 The diesel fuel shall be visually free of undissolved water, sediment, and suspended matter.

7. Requirements

7.1 The grades of diesel fuel oils herein specified shall be hydrocarbon oils conforming to the detailed requirements shown in Table 1.

7.2 Grades No. 2-D S15, No. 2-D S500 and No. 2–D S5000—When a cloud point less than -12° C is specified, as can occur during cold months, it is permitted and normal blending practice to combine Grades No. 1 and No. 2 to meet the low temperature requirements. In that case, the minimum flash point shall be 38°C, the minimum viscosity at 40°C shall be 1.7 mm²/s, and the minimum 90 % recovered temperature shall be waived.

8. Keywords

8.1 diesel; fuel oil; petroleum and petroleum products

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APPENDIXES

(Nonmandatory Information)

X1. SIGNIFICANCE OF ASTM SPECIFICATION FOR DIESEL FUEL OILS

X1.1 Introduction

X1.1.1 The properties of commercial fuel oils depend on the refining practices employed and the nature of the crude oils from which they are produced. Distillate fuel oils, for example, may be produced within the boiling range of 150 and 400°C having many possible combinations of various properties, such as volatility, ignition quality, viscosity, and other characteristics.

X1.2 Grades

X1.2.1 This specification is intended as a statement of permissible limits of significant fuel properties used for specifying the wide variety of commercially available diesel fuel oils. Limiting values of significant properties are prescribed for seven grades of diesel fuel oils. These grades and their general applicability for use in diesel engines are broadly indicated as follows:

X1.2.2 Grade No. 1-D S15—Grade No. 1-D S15 comprises the class of very low sulfur, volatile fuel oils from kerosine to the intermediate middle distillates. Fuels within this grade are applicable for use in (1) high-speed diesel engines and diesel engine applications that require ultra-low sulfur fuels, (2) applications necessitating frequent and relatively wide variations in loads and speeds, and (3) applications where abnormally low operating temperatures are encountered.

X1.2.3 Grade No. 1-D S500—Grade No. 1-D S500 comprises the class of low-sulfur, volatile fuel oils from kerosine to the intermediate middle distillates. Fuels within this grade are applicable for use in (1) high-speed diesel engines that require low sulfur fuels, (2) in applications necessitating frequent and relatively wide variations in loads and speeds, and (3) in applications where abnormally low operating temperatures are encountered.

X1.2.4 Grade No. 1-D S5000—Grade No. 1-D S5000 comprises the class of volatile fuel oils from kerosine to the intermediate middle distillates. Fuels within this grade are applicable for use in high-speed diesel engines applications necessitating frequent and relatively wide variations in loads and speeds, and also for use in cases where abnormally low operating temperatures are encountered.

X1.2.5 Grade No. 2-D S15—Grade No. 2-D S15 includes the class of very low sulfur, middle distillate gas oils of lower volatility than Grade No. 1-D S15. These fuels are applicable for use in (1) high speed diesel engines and diesel engine applications that require ultra-low sulfur fuels, (2) applications necessitating relatively high loads and uniform speeds, or (3) diesel engines not requiring fuels having higher volatility or other properties specified in Grade No. 1-D S15.

X1.2.6 Grade No. 2-D S500—Grade No. 2-D S500 includes the class of low-sulfur, middle distillate gas oils of lower volatility than Grade No. 1-D S500. These fuels are applicable for use in (1) high-speed diesel engine applications that require low sulfur fuels, (2) applications necessitating relatively high loads and uniform speeds, or (3) diesel engines not requiring fuels having higher volatility or other properties specified for Grade No. 1-D S500.

X1.2.7 Grade No. 2-D S5000—Grade No. 2-D S5000 includes the class of middle distillate gas oils of lower volatility than Grade No. 1-D S5000. These fuels are applicable for use in (1) high-speed diesel engines in applications necessitating relatively high loads and uniform speeds, or (2) in diesel engines not requiring fuels having higher volatility or other properties specified for Grade No. 1-D S5000.

X1.2.8 *Grade No. 4-D*—Grade No. 4-D comprises the class of more viscous middle distillates and blends of these middle distillates with residual fuel oils. Fuels within this grade are applicable for use in low- and medium-speed diesel engines in applications necessitating sustained loads at substantially constant speed.

X1.3 Selection of Particular Grade

X1.3.1 The selection of a particular diesel fuel oil from one of these seven ASTM grades for use in a given engine requires consideration of the following factors:

X1.3.1.1 Fuel price and availability,

X1.3.1.2 Maintenance considerations,

X1.3.1.3 Engine size and design,

X1.3.1.4 Emission control systems,

X1.3.1.5 Speed and load ranges,

X1.3.1.6 Frequency of speed and load changes, and

X1.3.1.7 Atmospheric conditions. Some of these factors can influence the required fuel properties outlined as follows:

X1.4 Cetane Number

X1.4.1 Cetane number is a measure of the ignition quality of the fuel and influences combustion roughness. The cetane number requirements depend on engine design, size, nature of speed and load variations, and on starting and atmospheric conditions. Increase in cetane number over values actually required does not materially improve engine performance. Accordingly, the cetane number specified should be as low as possible to assure maximum fuel availability.

X1.5 Distillation

X1.5.1 The fuel volatility requirements depend on engine design, size, nature of speed and load variations, and starting and atmospheric conditions. For engines in services involving rapidly fluctuating loads and speeds as in bus and truck operation, the more volatile fuels may provide best performance, particularly with respect to smoke and odor. However, best fuel economy is generally obtained from the heavier types of fuels because of their higher heat content.

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X1.6 Viscosity

X1.6.1 For some engines it is advantageous to specify a minimum viscosity because of power loss due to injection pump and injector leakage. Maximum viscosity, on the other hand, is limited by considerations involved in engine design and size, and the characteristics of the injection system.

X1.7 Carbon Residue

X1.7.1 Carbon residue gives a measure of the carbon depositing tendencies of a fuel oil when heated in a bulb under prescribed conditions. While not directly correlating with engine deposits, this property is considered an approximation.

X1.8 Sulfur

X1.8.1 The effect of sulfur content on engine wear and deposits appears to vary considerably in importance and depends largely on operating conditions. Fuel sulfur can affect emission control systems performance. To assure maximum availability of fuels, the permissible sulfur content should be specified as high as is practicable, consistent with maintenance considerations.

X1.9 Flash Point

X1.9.1 The flash point as specified is not directly related to engine performance. It is, however, of importance in connection with legal requirements and safety precautions involved in fuel handling and storage, and is normally specified to meet insurance and fire regulations.

X1.10 Cloud Point

X1.10.1 Cloud point is of importance in that it defines the temperature at which a cloud or haze of wax crystals appears

in the oil under prescribed test conditions which generally relates to the temperature at which wax crystals begin to precipitate from the oil in use.

X1.11 Ash

X1.11.1 Ash-forming materials may be present in fuel oil in two forms: (1) abrasive solids, and (2) soluble metallic soaps. Abrasive solids contribute to injector, fuel pump, piston and ring wear, and also to engine deposits. Soluble metallic soaps have little effect on wear but may contribute to engine deposits.

X1.12 Copper Strip Corrosion

X1.12.1 This test serves as a measure of possible difficulties with copper and brass or bronze parts of the fuel system.

X1.13 Aromaticity

X1.13.1 This test is used as an indication of the aromatics content of diesel fuel. Aromatics content is specified to prevent an increase in the average aromatics content in Grades No. 1-D S15, No. 1-D S500, No. 2-D S15 and No. 2-D S500 fuels and is required by 40 CFR Part 80. Increases in aromatics content of fuels over current levels may have a negative impact on emissions.

X1.14 Cetane Index

X1.14.1 Cetane Index is specified as a limitation on the amount of high aromatic components in Grades No. 1-D S15, No. 1-D S500, No. 2-D S15 and No. 2-D S500.

X1.15 Other

X1.15.1 *Microbial Contamination*—Refer to Guide D 6469 for a discussion of this form of contamination.

X2. SAMPLING, CONTAINERS AND SAMPLE HANDLING

X2.1 Introduction

X2.1.1 This appendix provides guidance on methods and techniques for the proper sampling of diesel fuel oils. As diesel fuel oil specifications become more stringent and contaminants and impurities become more tightly controlled, even greater care needs to be taken in collecting and storing samples for quality assessment.

X2.2 Sampling, Containers and Sample Handling Recommendations

X2.2.1 Appropriate manual method sampling procedures can be found in Practice D 4057 and automatic method sampling is covered in Practice D 4177.

X2.2.2 The correct sample volume and appropriate container selection are also important decisions that can impact test results. Practice D 4306 for aviation fuel container selection for tests sensitive to trace contamination may be useful. Practice D 5854 for procedures on container selection and sample mixing and handling is recommended. For cetane number determination protection from light is important. Collection and storage of diesel fuel oil samples in an opaque container, such as a dark brown glass bottle, metal can, or a minimally reactive plastic container to minimize exposure to UV emissions from sources such as sunlight or fluorescent lamps, is recommended. According to Paragraph 8.2 of Test Method D 6079, "Because of sensitivity of lubricity measurements to trace materials, sample containers shall be only fully epoxy-lined metal, amber borosilicate glass, or polytetrafluoroethylene as specified in Practice D 4306."

X2.2.3 For volatility determination of a sample, Practice D 5842 for special precautions recommended for representative sampling and handling techniques may be appropriate.

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X3. STORAGE AND THERMAL STABILITY OF DIESEL FUELS

X3.1 Scope

X3.1.1 This appendix provides guidance for consumers of diesel fuels who may wish to store quantities of fuels for extended periods or use the fuel in severe service or high temperature applications. Fuels containing residual components are excluded. Consistently successful long-term fuel storage or use in severe applications requires attention to fuel selection, storage conditions, handling and monitoring of properties during storage and prior to use.

X3.1.2 Normally produced fuels have adequate stability properties to withstand normal storage and use without the formation of troublesome amounts of insoluble degradation products. Fuels that are to be stored for prolonged periods or used in severe applications should be selected to avoid formation of sediments or gums, which can overload filters or plug injectors. Selection of these fuels should result from supplieruser discussions.

X3.1.3 These suggested practices are general in nature and should not be considered substitutes for any requirements imposed by the warranty of the distillate fuel equipment manufacturer or by federal, state, or local government regulations. Although they cannot replace a knowledge of local conditions or good engineering and scientific judgment, these suggested practices do provide guidance in developing an individual fuel management system for the middle distillate fuel user. They include suggestions in the operation and maintenance of existing fuel storage and handling facilities and for identifying where, when, and how fuel quality should be monitored or selected for storage or severe use.

X3.2 Definitions

X3.2.1 bulk fuel-fuel in the storage facility.

X3.2.2 *fuel contaminants*—foreign materials that make fuel less suitable or unsuitable for the intended use.

X3.2.2.1 *Discussion*—Fuel contaminants include materials introduced subsequent to the manufacture of fuel and fuel degradation products.

X3.2.3 *fuel-degradation products*—those materials that are formed in fuel during extended storage or exposure to high temperatures.

X3.2.3.1 *Discussion*—Insoluble degradation products may combine with other fuel contaminants to reinforce deleterious effects. Soluble degradation products (soluble gums) are less volatile than fuel and may carbonize to form deposits due to complex interactions and oxidation of small amounts of olefinic or sulfur-, oxygen- or nitrogen-containing compounds present in fuels. The formation of degradation products may be catalyzed by dissolved metals, especially copper salts. When dissolved copper is present it can be deactivated with metal deactivator additives.

X3.2.4 *long-term storage*—storage of fuel for longer than 12 months after it is received by the user.

X3.2.5 *severe use*—use of the fuel in applications which may result in engines operating under high load conditions that may cause the fuel to be exposed to excessive heat.

X3.3 Fuel Selection

X3.3.1 Certain distilled refinery products are generally more suitable for long-term storage and severe service than others. The stability properties of middle distillates are highly dependent on the crude oil sources, severity of processing, use of additives and whether additional refinery treatment has been carried out.

X3.3.2 The composition and stability properties of middle distillate fuels produced at specific refineries may be different. Any special requirements of the user, such as long-term storage or severe service, should be discussed with the supplier.

X3.3.3 Blends of fuels from various sources may interact to give stability properties worse than expected based on the characteristics of the individual fuels.

X3.4 Fuel Additives

X3.4.1 Available fuel additives can improve the suitability of marginal fuels for long-term storage and thermal stability, but may be unsuccessful for fuels with markedly poor stability properties. Most additives should be added at the refinery or during the early weeks of storage to obtain maximum benefits.

X3.4.2 Biocides or biostats destroy or inhibit the growth of fungi and bacteria, which can grow at fuel-water interfaces to give high particulate concentrations in the fuel. Available biocides are soluble in both the fuel and water or in the water phase only.

X3.5 Tests for Fuel Quality

X3.5.1 At the time of manufacture, the storage stability of fuel may be assessed using Test Method D 2274 or D 5304. However, these accelerated stability tests may not correlate well with field storage stability due to varying field conditions and to fuel composition.

X3.5.2 Performance criteria for accelerated stability tests that assure satisfactory long-term storage of fuels have not been established.

X3.5.3 Test Method D 6468, provides an indication of thermal oxidative stability of middle distillate fuels when heated to temperatures near 150° C.

X3.6 Fuel Monitoring

X3.6.1 A plan for monitoring the quality of bulk fuel during prolonged storage is an integral part of a successful program. A plan to replace aged fuel with fresh product at established intervals is also desirable.

X3.6.2 Stored fuel should be periodically sampled and its quality assessed. Practice D 4057 provides guidance for sampling. Fuel contaminants and degradation products will usually settle to the bottom of a quiescent tank. A "Bottom" or "Clearance" sample, as defined in Practice D 4057, should be included in the evaluation along with an "All Level" sample.

X3.6.3 The quantity of insoluble fuel contaminants present in fuel can be determined using Test Method D 6217.

X3.6.4 Test Method D 6468, can be used for investigation of operational problems that might be related to fuel thermal

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stability. Testing samples from the fuel tank or from bulk storage may give an indication as to the cause of filter plugging. It is more difficult to monitor the quality of fuels in vehicle tanks since operation may be on fuels from multiple sources.

X3.6.5 Some additives exhibit effects on fuels tested in accordance with Test Method D 6468 that may or may not be observed in the field. Data have not been developed that correlate results from the test method for various engine types and levels of operating severity.

X3.7 Fuel Storage Conditions

X3.7.1 Contamination levels in fuel can be reduced by storage in tanks kept free of water, and tankage should have provisions for water draining on a scheduled basis. Water promotes corrosion, and microbiological growth may occur at a fuel-water interface. Underground storage is preferred to avoid temperature extremes; above-ground storage tanks should be sheltered or painted with reflective paint. High storage temperatures accelerate fuel degradation. Fixed roof tanks should be kept full to limit oxygen supply and tank breathing.

X3.7.2 Copper and copper-containing alloys should be avoided. Copper can promote fuel degradation and may produce mercaptide gels. Zinc coatings can react with water or organic acids in the fuel to form gels that rapidly plug filters.

X3.7.3 Appendix X2 of Specification D 2880 discusses fuel contaminants as a general topic.

X3.8 Fuel Use Conditions

X3.8.1 Many diesel engines are designed so that the diesel fuel is used for heat transfer. In modern heavy-duty diesel engines, for example, only a portion of the fuel that is circulated to the fuel injectors is actually delivered to the combustion chamber. The remainder of the fuel is circulated back to the fuel tank, carrying heat with it. Thus adequate high temperature stability can be a necessary requirement in some severe applications or types of service.

X3.8.2 Inadequate high temperature stability may result in the formation of insoluble degradation products.

X3.9 Use of Degraded Fuels

X3.9.1 Fuels that have undergone mild-to-moderate degradation can often be consumed in a normal way, depending on the fuel system requirements. Filters and other cleanup equipment can require special attention and increased maintenance. Burner nozzle or injector fouling can occur more rapidly.

X3.9.2 Fuels containing very large quantities of fuel degradation products and other contaminants or with runaway microbiological growth require special attention. Consultation with experts in this area is desirable. It can be possible to drain the sediment or draw off most of the fuel above the sediment layer and use it with the precautions described in X3.9.1. However, very high soluble gum levels or corrosion products from microbiological contamination can cause severe operational problems.

X3.10 Thermal Stability Guidelines

X3.10.1 Results from truck fleet experience suggests that Test Method D 6468 can be used to qualitatively indicate whether diesel fuels have satisfactory thermal stability performance properties.^{5.6}

X3.10.2 Performance in engines has not been sufficiently correlated with results from Test Method D 6468 to provide definitive specification requirements. However, the following guidelines are suggested.

X3.10.2.1 Fuels giving a Test Method D 6468 reflectance value of 70 % or more in a 90 minute test at the time of manufacture should give satisfactory performance in normal use.

X3.10.2.2 Fuels giving a Test Method D 6468 reflectance value of 80 % or more in a 180 minute test at the time of manufacture should give satisfactory performance in severe use.

X3.10.3 Thermal stability as determined by Test Method D 6468 is known to degrade during storage.⁷ The guidance above is for fuels used within six months of manufacture.

on Stability and Handling of Liquid Fuels, Graz, Austria September 2000. ⁷ Henry, C. P., "The DuPont F21 149°C (300°F) Accelerated Stability Test," Distillate Fuel Stability and Cleanliness, ASTM STP 751, 1981, pp. 22-33.

X4. DIESEL FUEL LUBRICITY

X4.1 Introduction

X4.2 Fuel Characteristics Affecting Equipment Wear

X4.2.1 Currently, two fuel characteristics affect equipment wear. These are low viscosity and lack of sufficient quantities of trace components that have an affinity for surfaces. If fuel viscosity meets the requirements of a particular engine, a fuel film is maintained between the moving surfaces of the fuel system components. This prevents excessive metal-to-metal

⁵ Bacha, John D., and Lesnini, David G., "Diesel Fuel Thermal Stability at 300°F," *Proceedings of the 6th International Conference on Stability and Handling of Liquid Fuels*, Vancouver, B.C., October 1997.

⁶ Schwab, Scott D., Henly, Timothy J., Moxley, Joel F., and Miller, Keith, "Thermal Stability of Diesel Fuel," *Proceedings of the 7th International Conference*

X4.1.1 Diesel fuel functions as a lubricant in most components of fuel injection equipment such as pumps and injectors. In limited cases, fuel with specific properties will have insufficient lubricating properties which will lead to a reduction in the normal service life and functional performance of diesel fuel injection systems.

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contact and avoids premature failure due to wear. Similarly, certain surface active molecules in the fuel adhere to, or combine with, surfaces to produce a protective film which also can protect surfaces against excessive wear.

X4.3 Fuel Lubricity

X4.3.1 The concern about fuel lubricity is limited to situations in which fuels with lower viscosities than those specified for a particular engine are used or in which fuels that have been processed in a manner that results in severe reduction of the trace levels of the surface active species that act as surface protecting agents. Presently the only fuels of the latter type shown to have lubricity problems resulted from sufficiently severe processing to reduce aromatics or sulfur.

X4.3.2 Work in the area of diesel fuel lubricity is ongoing by several organizations, such as the International Organization for Standardization (ISO), the ASTM Diesel Fuel Lubricity Task Force, and the Coordinating Research Council (CRC) Diesel Performance Group. These groups include representatives from the fuel injection equipment manufacturers, fuel producers, and additive suppliers. The charge of the ASTM task force has been the recommendation of test methods and fuel lubricity requirements for Specification D 975. Two test methods were proposed and approved. These are Test Method D 6078, a scuffing load ball-on-cylinder lubricity evaluator method, SLBOCLE, and Test Method D 6079, a high frequency reciprocating rig (HFRR) method. Use of these tests raises three issues: 1) The correlation of the data among the two test methods and the fuel injection equipment is not perfect, 2) Both methods in their current form do not apply to all fuel-additive combinations, and 3) The reproducibility values for both test methods are large. In order to protect diesel fuel injection equipment, an HFRR Wear Scar Diameter (WSD) of 520 microns has been placed in Specification D 975.⁸

X4.3.3 Most experts agree that fuels having a SLBOCLE lubricity value below 2000 g might not prevent excessive wear in injection equipment⁹ while fuels with values above 3100 g should provide sufficient lubricity in all cases.¹⁰ Experts also agree that if HFFR test at 60°C is used, fuels with values above 600 microns might not prevent excessive wear,¹¹ while fuels with values below 450 microns should provide sufficient lubricity in all cases.¹⁰ Cases,¹⁰ More accurately, an industry-accepted long-term durability pump test, such as Test Method D 6898, can be used to evaluate the lubricity of a diesel fuel. A poor result in such a test indicates that the fuel has low lubricity and may not be able to provide sufficient protection.

NOTE X4.1—Some injection equipment can be fitted with special components that can tolerate low lubricity fuels.

¹¹ Nikanjam, M., "Diesel Fuel Lubricity: On the Path to Specifications," SAE Technical Paper 1999-01-1479, 1999.

X5. TENTH PERCENTILE MINIMUM AMBIENT AIR TEMPERATURES FOR THE UNITED STATES (EXCEPT HAWAII)

X5.1 Introduction

X5.1.1 The tenth percentile minimum ambient air temperatures shown on the following maps (Figs. X5.1-X5.12) and in Table X5.1 were derived from an analysis of historical hourly temperature readings recorded over a period of 15 to 21 years from 345 weather stations in the United States. This study was conducted by the U.S. Army Mobility Equipment Research and Development Center (USAMERDC), Coating and Chemical Laboratory, Aberdeen Proving Ground, MD 21005. The tenth percentile minimum ambient air temperature is defined as the lowest ambient air temperature which will not go lower on average more than 10 % of the time. In other words, the daily minimum ambient air temperature would on average not be expected to go below the monthly tenth percentile minimum ambient air temperature more than 3 days for a 30-day month. See Table X5.1.

X5.1.2 These data may be used to estimate low temperature operability requirements. In establishing low temperature operability requirements, consideration should be given to the following. These factors, or any combination, may make low temperature operability more or less severe than normal. As X5.1.2.1 through X5.1.2.12 indicate, field work suggests that cloud point (or wax appearance point) is a fair indication of the

low temperature operability limit of fuels without cold flow additives in most vehicles.

X5.1.2.1 Long term weather patterns (Average winter low temperatures will be exceeded on occasion).

X5.1.2.2 Short term local weather conditions (Unusual cold periods do occur).

X5.1.2.3 Elevation (High locations are usually colder than surrounding lower areas).

X5.1.2.4 Specific engine design.

X5.1.2.5 Fuel system design (Recycle rate, filter location, filter capacity, filter porosity, and so forth.)

X5.1.2.6 Fuel viscosity at low temperatures

X5.1.2.7 Equipment add-ons (Engine heaters, radiator covers, fuel line and fuel filter heaters and so forth.)

X5.1.2.8 Types of operation (Extensive idling, engine shutdown, or unusual operation).

X5.1.2.9 Low temperature flow improver additives in fuel. X5.1.2.10 Geographic area for fuel use and movement between geographical areas.

X5.1.2.11 General housekeeping (Dirt and/or water in fuel or fuel supply system).

X5.1.2.12 Impact failure for engine to start or run (Critical vs. non-critical application).

⁸ Mitchell, K., "Diesel Fuel Lubricity—Base Fuel Effects," SAE Technical Paper 2001–01–1928, 2001.

⁹ Westbrook, S. R., "Survey of Low Sulfur Diesel Fuels and Aviation Kerosenes from U.S. Military Installations," SAE Technical Paper 952369, 1995.

¹⁰ Nikanjam, M., "ISO Diesel Fuel Lubricity Round Robin Program," SAE Technical Paper 952372, 1995.

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FIG. X5.1 October—10th Percentile Minimum Temperatures

X5.1.3 Historical Background-Three test methods have been widely used to estimate or correlate with low temperature vehicle operability. Cloud point, Test Method D 2500, is the oldest of the three and most conservative of the tests. The cloud point test indicates the earliest appearance of wax precipitation that might result in plugging of fuel filters or fuel lines under prescribed cooling conditions. Although not 100 % failsafe, it is the most appropriate test for applications that can not tolerate much risk. The Cold Filter Plugging Point (CFPP) test, Test Method D 6371, was introduced in Europe in 1965. The CFPP was designed to correlate with the majority of European vehicles. Under rapid cooling conditions, 20 cc fuel is drawn through a 45 micron screen then allowed to flow back through the screen for further cooling. This process is continued every 1°C until either the 20 cc fuel fails to be drawn through the screen in 60 s or it fails to return through the screen in 60 s. It was field tested many times in Europe¹² before being widely accepted as a European specification. Field tests have also shown CFPP results more than 10°C below the cloud point should be viewed with caution because those results did not necessarily reflect the true vehicle low temperature operability limits.¹³ CFPP has been applied to many areas of the world

where similar vehicle designs are used. The Low Temperature Flow Test (LTFT), Test Method D 4539, was designed to correlate with the most severe and one of the most common fuel delivery systems used in North American Heavy Duty trucks. Under prescribed slow cool conditions (1°C/h), similar to typical field conditions, several 200 cc fuel specimens in glass containers fitted with 17 µm screen assemblies are cooled. At 1°C intervals one specimen is drawn through the screen under a 20 kPa vacuum. Approximately 90 % of the fuel must come over in 60 s or less for the result to be a pass. This process is continued at lower temperatures (1°C increments) until the fuel fails to come over in the allotted 60 s. The lowest passing temperature is defined as the LTFT for that fuel. In 1981, a CRC program was conducted to evaluate the efficacy of cloud point, CFPP, pour point, and LTFT for protecting the diesel vehicle population in North America and to determine what benefit flow-improvers could provide. The field test consisted of 3 non-flow improved diesel fuels, 5 flow improved diesel fuels, 4 light-duty passenger cars, and 3 heavy-duty trucks. The field trial resulted in two documents^{14,15} that provide insight into correlating laboratory tests to North

¹² "Low Temperature Operability of Diesels. A Report by CEC Investigation Group IGF-3," CEC P-171-82.

¹³ "SFPP-A New Laboratory Test for Assessment of Low Temperature Operability of Modern Diesel Fuels," CEC/93/EF 15, 5–7, May 1993.

¹⁴ CRC Report No. 537, "The Relationship Between Vehicle Fuel Temperature and Ambient Temperature, 1981 CRC Kapuskasing Field Test," December 1983.

¹⁵ CRC Report No. 528, "1981 CRC Diesel Fuel Low-Temperature Operability Field Test," September 1983.

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FIG. X5.2 November—10th Percentile Minimum Ambient Air Temperatures

American vehicle performance in the field. The general conclusions of the study were:

(1) In overnight cool down, 30 % of the vehicles tested had a final fuel tank temperature within 2° C of the overnight minimum ambient temperature.

(2) The use of flow-improved diesel fuel permits some vehicles to operate well below the fuel cloud point.

(3) Significant differences exist in the severity of diesel vehicles in terms of low temperature operation.

(4) No single laboratory test was found that adequately predicts the performance of all fuels in all vehicles.

(5) CFPP was a better predictor than pour point, but both methods over-predicted, minimum operating temperatures in many vehicles. For this reason, these tests were judged inadequate predictors of low-temperature performance and dismissed from further consideration.

(6) Cloud point and LTFT showed varying degrees of predictive capability, and offered distinctively different advantages. Both predicted the performance of the base fuels well, but LTFT more accurately predicted the performance of the flow-improved fuels. On the other hand, cloud point came closest to a fail-safe predictor of vehicle performance for all vehicles. Since the 1981 field test, non-independent studies¹⁶ using newer vehicles verified the suitability of the LTFT for North American heavy-duty trucks. Users are advised to review these and any more recent publications when establishing low temperature operability requirements and deciding upon test methods.

X5.1.3.1 *Current Practices*—It is recognized that fuel distributors, producers, and end users in the United States use cloud point, wax appearance point, CFPP, and LTFT to estimate vehicle low temperature operability limits for diesel fuel. No independent data has been published in recent years to determine test applicability for today's fuels and vehicles.

X5.2 Maps

X5.2.1 The maps in the following figures were derived from CCL Report No. 316, "A Predictive Study for Defining Limiting Temperatures and Their Application in Petroleum Product Specifications," by John P. Doner. This report was published by the U.S. Army Mobility Equipment Research and Development Center (USAMERDC), Coating and Chemical Laboratory, and it is available from the National Technical

¹⁶ SAE 962197, SAE 982576, SAE 2000-01-2883.

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FIG. X5.3 December—10th Percentile Minimum Ambient Air Temperatures

Information Service, Springfield, VA 22151, by requesting Publication No. AD756-420.

X5.2.2 Where states are divided the divisions are noted on the maps and table with the exception of California, which is divided by counties as follows:

California, North Coast—Alameda, Contra Costa, Del Norte, Humbolt, Lake, Marin, Mendocino, Monterey, Napa, San Benito, San Francisco, San Mateo, Santa Clara, Santa Cruz, Solano, Sonoma, Trinity.

California, Interior—Lassen, Modoc, Plumas, Sierra, Siskiyou, Alpine, Amador, Butte, Calaveras, Colusa, El Dorado, Fresno, Glenn, Kern (except that portion lying east of the Los Angeles County Aqueduct), Kings, Madera, Mariposa, Merced, Placer, Sacramento, San Joaquin, Shasta, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba, Nevada. California, South Coast—Orange, San Diego, San Luis Obispo, Santa Barbara, Ventura, Los Angeles (except that portion north of the San Gabriel Mountain range and east of the Los Angeles County Aqueduct).

California, Southeast—Imperial, Riverside, San Bernardino, Los Angeles (that portion north of the San Gabriel Mountain range and east of the Los Angeles County Aqueduct), Mono, Inyo, Kern (that portion lying east of the Los Angeles County Aqueduct).

X5.2.3 The temperatures in CCL Report No. 316 were in degrees Fahrenheit. The degree Celsius temperatures in Appendix X5 were obtained by converting the original degree Fahrenheit temperatures.

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FIG. X5.4 January—10th Percentile Minimum Ambient Air Temperatures

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FIG. X5.5 February—10th Percentile Minimum Ambient Air Temperatures

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FIG. X5.6 March—10th Percentile Minimum Ambient Air Temperatures





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FIG. X5.8 November—10th Percentile Minimum Ambient Air Temperatures



FIG. X5.9 December—10th Percentile Minimum Ambient Air Temperatures

ASTM001231

JA00512

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FIG. X5.11 February—10th Percentile Minimum Ambient Air Temperatures

ASTM001232

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FIG. X5.12 March—10th Percentile Minimum Ambient Air Temperatures

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	Jiaic									
		Oct.	Nov.	Dec.	Jan.	Feb.	March			
Alabama		4	-3	6	-7	-3	-2			
Alaska	Northern	25	-37	45	49	-47	-43			
	Southern	-11	-13	-18	-32	-32	-29			
	South East	_4	-11	-16	-19	-13	-12			
Arizona	North 34° latitude	-4	-12	-14	-17	-16	-12			
	South 34° latitude	7	0	-2	-4	-3	-1			
Arkansas		2	4	7	-11	-7	-3			
California	North Coast	3	0	-2	-2	-1	-1			
	Interior	2	3	4	7	-6	6			
	South Coast	6	2	0	1	0	2			
	Southeast	1	6	8	11	7				
Colorado	East 105° long	2	12	14	19	15	12			
	West 105° long	8	18	25	30	24	16			
Connecticut	index root horig	-1	-7	-16	-17	-16				
Delaware		2	_3	-10	_11	-10	_6			
Jorido	North 20° lotitudo	7		-10	-11		-0			
ionida	South 20° latitude	14	7	-2			2			
Deerain	South 29 Talliude	14	1	3	3	5	1			
aougia dobo		3	-2	-0-	-1	0-	-2			
uano Minalo	North 40° billiolo	-4	-13	-18	-21	-18	-13			
linois	North 40° latitude		-9	-19	21	-18	-11			
	South 40° latitude		-/	-10	-17	-15	6			
ndiana		-1	-/	-16	18	-16	9			
owa		2	13	23	26	22	16			
kansas		2	11	15	19	14	-13			
Kentucky		1	6	13	14	-11	6			
ouisiana		5	-1	3	4	-2	1			
Maine		-3	-10	-23	-26	-26	-18			
vlaryland		2	-3	-10	-12	-10	-4			
Massachusetts		-2	-7	-16	-18	-17	-10			
Michigan		-2	-11	-20	-23	-23	-18			
Minnesota		-4	-18	-30	-34	-31	-24			
Aississippi		3	-3	6	6	-4	-1			
Missouri		1	-7	14	16	-13	-8			
Montana		7	-18	24	30	24	-21			
Vebraska		3	-13	18	22	19	-13			
Vevada	North 38° latitude	7	14	18	22	18	13			
	South 38° latitude	8	0	3	4	-2	1			
Vew Hamoshire		-3	8	-18	-21	-21	-12			
vew Jersev		2	-3	-11	-12	-11	-6			
New Mexico	North 34° latitude	_2	-11	-14	-17	-14	-11			
NOW MICARDO	South 34° latitude		-11	8	_11	7				
Jow York	North 42° latitude	-3		-01	-24	-24	_16			
ion fon	South 42° latituda	-0	-0 5	_ 1/	_ 16	_ 15	- 10			
Jorth Carolina	outrine lande	- 1	-5	- 14	-10	-15	-8			
Jorth Dakota		-1		- 10		-9				
Inin Danuid		4	-20	-21	-01	-23	-24			
Julio Didabama			-/	-10	-1/	-15	6			
JNAIIOIIIA	East 100% lang	1	0	12	10	0	/			
ледон	East 122° long	6	11	14	19	14				
	West 122° long	0	4	5	/	4	3			
rennsylvania	North 41° latitude	-3	-8	-19	-20	-21	-15			
	South 41° latitude	0	6	-13	-14	14	8			
Rhode Island		1	-3	12	13	-13	-7			
outh Carolina		5	-1	-5	-5	-3	-2			
South Dakota		-4	-14	-24	-27	-24	-18			
ennessee		1	-5	-9	-11	-9	_4			
exas	North 31° latitude	3	-6	-9	-13	-9	-7			
	South 31° latitude	9	2	-2	3	-1	2			
Jtah		-2	-11	-14	-18	-14	8			
/ermont		3	8	20	23	24	-15			
/irginia		2	3	9	11	9	4			
Vashington	East 122° long	2	8	11	18	11	8			
~	West 122° long	0	-3	-3	-7	-4	-3			
Nest Virginia	3	-3	-8	-15	-16	-14	-9			
		-	14	-24	_28	_94	-18			
Misconsin										

TABLE X5.1 Tenth Percentile Minimum Ambient Air Temperatures for the United States (except Hawaii)

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SUMMARY OF CHANGES

Subcommittee D02.E0.02 has identified the location of selected changes to this standard since the last issue (D 975–06b) that may impact the use of this standard. (Approved Feb. 1, 2007.)

(1) Added standards to the Referenced Documents. (3) Added X2.2.2.

(2) Added Section 4.

Subcommittee D02.E0.02 has identified the location of selected changes to this standard since the last issue (D 975–06a) that may impact the use of this standard. (Approved Nov. 1, 2006.)

(1) Revised Appendix X4.

Subcommittee D02.E0.02 has identified the location of selected changes to this standard since the last issue (D 975-06) that may impact the use of this standard. (Approved Oct. 1, 2006.)

(1) Added Test Method D 6890. (2) Revised 5.1.10.

Subcommittee D02.E0.02 has identified the location of selected changes to this standard since the last issue (D 975–05) that may impact the use of this standard. (Approved May 15, 2006.)

(1) Deleted Test Method D 6920 from this standard.

Subcommittee D02.E0.02 has identified the location of selected changes to this standard since the last issue (D 975–04c^{ϵ 1}) that may impact the use of this standard. (Approved June 1, 2005.)

(1) Removed footnote J from Grade No. 4–D in Table 1.

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EXHIBIT 8

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NOTICE:-This-standard-has-zeither-been-superseded-and-replaced-by-a-new-version-or discontinued.-Contact-ASTM-International-(www.astm.org)-for-the-latest-information.



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Standard Specification for Fuel Oils¹

This standard is issued under the fixed designation D 396; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This specification (Note 1) covers grades of fuel oil intended for use in various types of fuel-oil-burning equipment under various climatic and operating conditions. These grades are described as follows:

1.1.1 Grades 1 and 2 are distillate fuels for use in domestic and small industrial burners. Grade 1 is particularly adapted to vaporizing type burners or where storage conditions require low pour point fuel.

1.1.2 Grades 4 (Light) and 4 are heavy distillate fuels or distillate/residual fuel blends used in commercial/industrial burners equipped for this viscosity range.

1.1.3 Grades 5 (Light), 5 (Heavy), and 6 are residual fuels of increasing viscosity and boiling range, used in industrial burners. Preheating is usually required for handling and proper atomization.

Note 1—For information on the significance of the terminology and test methods used in this specification, see Appendix X1.

Note 2—A more detailed description of the grades of fuel oils is given in X1.3.

1.2 This specification is for the use of purchasing agencies in formulating specifications to be included in contracts for purchases of fuel oils and for the guidance of consumers of fuel oils in the selection of the grades most suitable for their needs.

1.3 Nothing in this specification shall preclude observance of federal, state, or local regulations which can be more restrictive.

1.4 All values are stated in SI units and are regarded as standard.

Note 3—The generation and dissipation of static electricity can create problems in the handling of distillate burner fuel oils. For more information on the subject, see Guide D 4865.

2. Referenced Documents

2.1 ASTM Standards:

D 56 Test Method for Flash Point by Tag Closed Tester² D 86 Test Method for Distillation of Petroleum Products²

- D 93 Test Methods for Flash Point by Pensky-Martens Closed Cup Tester²
- D 95 Test Method for Water in Petroleum Products and Bituminous Materials by Distillation²
- D 97 Test Method for Pour Point of Petroleum Oils²
- D 129 Test Method for Sulfur in Petroleum Products (General Bomb Method) 2
- D 130 Test Method for Detection of Copper Corrosion from Petroleum Products by the Copper Strip Tarnish Test²
- D 445 Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and the Calculation of Dynamic Viscosity)²
- D 473 Test Method for Sediment in Crude Oils and Fuel Oils by the Extraction $Method^2$
- D 482 Test Method for Ash from Petroleum Products²
- D 524 Test Method for Ramsbottom Carbon Residue of Petroleum Products 2
- D 1266 Test Method for Sulfur in Petroleum Products $(Lamp Method)^2$
- D 1298 Practice for Density, Relative Density (Specific Gravity), or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method²
- D 1552 Test Method for Sulfur in Petroleum Products $(High-Temperature Method)^2$
- D 2622 Test Method for Sulfur in Petroleum Products by X-Ray Spectrometry³
- D 2709 Test Method for Water and Sediment in Distillate Fuels by Centrifuge³
- D 3245 Test Method for Pumpability of Industrial Fuel Oils^3
- D 3828 Test Methods for Flash Point by Small Scale Closed Tester³
- D 4052 Test Method for Density and Relative Density of Liquids by Digital Density Meter³
- D 4057 Practice for Manual Sampling of Petroleum and Petroleum Products 3
- D 4294 Test Method for Sulfur in Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry³
- D 4865 Guide for Generation and Dissipation of Static Electricity in Petroleum Fuel Systems⁴
- D 5949 Test Method for Pour Point of Petroleum Products

 $^{^1\,\}rm This$ specification is under the jurisdiction of ASTM Committee D-2 on Petroleum Products and Lubricants and is the direct responsibility of Subcommittee D02.E on Burner, Diesel, Non-aviation Gas Turbine, and Marine Fuels .

Current edition approved Apr. 10, 1998. Published September 1998. Originally published as D 396 – 34 T. Last previous edition D 396 – 96.

² Annual Book of ASTM Standards, Vol 05.01.

³ Annual Book of ASTM Standards, Vol 05.02.

⁴ Annual Book of ASTM Standards, Vol 05.03.

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(Automatic Pressure Pulsing Method)⁴

D 5950 Test Method for Pour Point of Petroleum Products (Automatic Tilt Method)⁴

D 5985 Test Method for Pour Point of Petroleum Products (Rotational Method)⁴

2.2 Other Documents:⁵

26 CFR Part 48 Diesel Fuel Excise Tax; Dye Color and Concentration

40 Part 80 Regulation of Fuel and Fuel Additives

3. General Requirements

3.1 The grades of fuel oil specified herein shall be homogeneous hydrocarbon oils, free from inorganic acid, and free from excessive amounts of solid or fibrous foreign matter.

3.2 All grades containing residual components shall remain uniform in normal storage and not separate by gravity into light and heavy oil components outside the viscosity limits for the grade.

4. Detailed Requirements

Pour Point °C. max^H

4.1 The various grades of fuel oil shall conform to the

⁵ Available from Superintendent of Documents, U. S. Government Printing Office, Washington, DC 20402.

limiting requirements shown in Table 1. A representative sample shall be taken for testing in accordance with Practice D 4057.

4.2 Modifications of limiting requirements to meet special operating conditions agreed upon between the purchaser, the seller, and the supplier shall fall within limits specified for each grade, except as stated in supplementary footnotes for Table 1.

5. Test Methods

5.1 The requirements enumerated in this specification shall be determined in accordance with the following ASTM test methods,⁶ except as may be required under 5.1.1.

5.1.1 *Flash Point*—Test Method D 93, except where other methods are prescribed by law. For all grades, Test Method D 3828 may be used as an alternate with the same limits. For Grades No. 1 and No. 2, Test Method D 56 may be used as an alternate with the same limits, provided the flash point is below

⁶ For information on the precision of the ASTM test methods for fuel oils refer to "An Evaluation of Methods for Determination of Sulfur in Fuel Oils" by A. R. Crawford, Esso Mathematics & Systems Inc. and G. V. Dyroff, Esso Research and Engineering Co., 1969. This document is available from the Publications Section, API Library American Petroleum Institute, 1220 L St., N.W., Washington, DC 20005.

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Property	ASTM Test Method ^{<i>B</i>}	No. 1 ^C	No. 2 ^{<i>C</i>}	Grade No. 4 (Light) ^C	No. 4	No. 5 (Light)	No. 5 (Heavy)	No. 6
Flash Point °C, min	D 93	38	38	38	55	55	55	60
Water and sediment, % vol, max	D 2709	0.05	0.05					
	D 95 + D 473	3		(0.50) ^D	(0.50) ^D	(1.00) ^D	(1.00) ^D	(2.00) ^D
Distillation temperature °C	D 86							
10 % volume recovered, max		215						
90 % volume recovered, min			282					
max		288	338					
Kinematic viscosity at 40°C, mm ² /s	D 445							
min		1.3	1.9	1.9	>5.5			
max		2.1	3.4	5.5	24.0 ^E			
Kinematic viscosity at 100°C, mm ² /s	D 445							
min						5.0	9.0	15.0
max						8.9 ^E	14.9 [∉]	50.0 ^E
Ramsbottom carbon residue on 10 % distillation residue % mass, max	D 524	0.15	0.35					
Ash, % mass, max	D 482			0.05	0.10	0.15	0.15	
Sulfur, % mass max [⊬]	D 129	0.50	0.50					
Copper strip corrosion rating, max, 3 h at 50°C	D 130	No. 3	No. 3					
Density at 15°C, kg/m ³	D 1298							
min				>876 ^G				
		050	070					

TABLE 1 Detailed Requirements for Fuel Oils^A

^AIt is the intent of these classifications that failure to meet any requirement of a given grade does not automatically place an oil in the next lower grade unless in fact it meets all requirements of the lower grade. However, to meet special operating conditions modifications of individual limiting requirements may be agreed upon among the purchaser, seller and manufacturer.

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^BThe test methods indicated are the approved referee methods. Other acceptable methods are indicated in Section 2 and 5.1.

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^CUnder United States regulations, Grades No. 1, No. 2, and No.4 (Light) are required by 40 CFR Part 80 to contain a sufficient amount of the dye Solvent Red 164 so its presence is visually apparent. At or beyond terminal storage tanks, they are required by 26 CFR Part 48 to contain the dye Solvent Red 164 at a concentration spectrally equivalent to 3.9 lbs per thousand barrels of the solid dye standard SolventRed 26.

^DThe amount of water by distillation by Test Method D 95 plus the sediment by extraction by Test Method D 473 shall not exceed the value shown in the table. For Grade No. 6 fuel oil, the amount of sediment by extraction shall not exceed 0.50 mass %, and a deduction in quantity shall be made for all water and sediment in excess of 1.0 mass %.

^EWhere low sulfur fuel oil is required, fuel oil falling in the viscosity range of a lower numbered grade down to and including No. 4 can be supplied by agreement between the purchaser and supplier. The viscosity range of the initial shipment shall be identified and advance notice shall be required when changing from one viscosity range to another. This notice shall be in sufficient time to permit the user to make the necessary adjustments.

^FOther sulfur limits may apply in selected areas in the United States and in other countries.

D 97

This limit assures a minimum heating value and also prevents misrepresentation and misapplication of this product as Grade No. 2.

⁴Lower or higher pour points can be specified whenever required by conditions of storage or use. When a pour point less than - 18°C is specified, the minimum viscosity at 40°C for grade No. 2 shall be 1.7 mm²/s and the minimum 90 % recovered temperature shall be waived.

Where low sulfur fuel oil is required, Grade No. 6 fuel oil will be classified as Low Pour (+ 15°C max) or High Pour (no max). Low Pour fuel oil should be used unless tanks and lines are heated.

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 93° C and the viscosity is below 5.5 mm²/s at 40°C. This test method will give slightly lower values. In cases of dispute, Test Method D 93 shall be used as the referee method.

5.1.2 *Pour Point*—Test Method D 97. For all grades, the automatic Test Methods D 5949, D 5950, and D 5985 can be used as alternates with the same limits. In case of dispute, Test Method 97 shall be used as the referee method. Alternative test methods that indicate flow point properties can be used for low sulfur residual fuels by agreement between purchaser and supplier.

5.1.3 *Water and Sediment*—The water and sediment in Grade Nos. 1 and 2 shall be determined in accordance with Test Method D 2709 and in Grade Nos. 4, 5, and 6 by Test Method D 95 and Test Method D 473. A density of 1.0 kg/L shall be used for the Test Method D 95 water.

5.1.4 Carbon Residue—Test Method D 524.

5.1.5 Ash—Test Method D 482.

5.1.6 Distillation-Distillation of Grade No. 1 and No. 2

oils shall be determined in accordance with Test Method D 86.

5.1.7 *Viscosity*—Viscosity shall be determined in accordance with Test Method D 445.

5.1.8 *Density*—Practice D 1298. Test Method D 4052 can be used as an alternate with the same limits. In case of dispute, Practice D 1298 shall be used as the referee method.

5.1.9 Corrosion—Test Method D 130, 3 h test at 50°C.

5.1.10 *Sulfur*—Test Method D 129. Test Methods D 1552, D 2622, and D 4294 can also be used for all grades. In addition, Test Method D 1266 can be used for Grade 1, but only with samples having sulfur contents of 0.4 mass per cent and less (down to 0.01 %). In case of dispute, Test Method D 129 is the referee test method for this specification.

6. Keywords

6.1 burner fuels; fuel oils; furnace oils; petroleum and petroleum products; specifications

APPENDIX

(Nonmandatory Information)

X1. SIGNIFICANCE OF ASTM SPECIFICATION FOR FUEL OILS

X1.1 Scope

X1.1.1 This specification divides fuel oils into grades based upon the types of burners for which they are suitable. It places limiting values on several of the properties of the oils in each grade. The properties selected for limitation are those that are believed to be of the greatest significance in determining the performance characteristics of the oils in the types of burners in which they are most commonly used.

X1.2 Classes

X1.2.1 Because of the methods employed in their production, fuel oils fall into two broad classifications: distillates and residuals. The distillates consist of overhead or distilled fractions. The residuals are bottoms remaining from the distillation, or blends of these bottoms with distillates. In this specification, Grades No. 1 and No. 2 are distillates and the grades from No. 4 to No. 6 are usually residual, although some heavy distillates can be sold as Grade No. 4.

X1.3 Grades

X1.3.1 *Grade No. 1* is a light distillate intended for use in burners of the vaporizing type in which the oil is converted to a vapor by contact with a heated surface or by radiation. High volatility is necessary to ensure that evaporation proceeds with a minimum of residue.

X1.3.2 *Grade No. 2* is a heavier distillate than grade No. 1. It is intended for use in atomizing type burners which spray the oil into a combustion chamber where the tiny droplets burn while in suspension. This grade of oil is used in most domestic burners and in many medium capacity commercial-industrial burners where its ease of handling and ready availability sometimes justify its higher cost over the residual fuels.

X1.3.3 Grade No. 4 (Light) is a heavy distillate fuel or distillate/residual fuel blend meeting the specification viscosity range. It is intended for use both in pressure-atomizing commercial-industrial burners not requiring higher cost distillates and in burners equipped to atomize oils of higher viscosity. Its permissible viscosity range allows it to be pumped and atomized at relatively low-storage temperatures.

X1.3.4 *Grade No. 4* is usually a heavy distillate/residual fuel blend but can be a heavy distillate fuel meeting the specification viscosity range. It is intended for use in burners equipped with devices that atomize oils of higher viscosity than domestic burners can handle. Its permissible viscosity range allows it to be pumped and atomized at relatively low storage temperatures. Thus, in all but extremely cold weather it requires no preheating for handling.

X1.3.5 *Grade No. 5* (*Light*) is residual fuel of intermediate viscosity for burners capable of handling fuel more viscous than grade No. 4 without preheating. Preheating may be necessary in some types of equipment for burning and in colder climates for handling.

X1.3.6 *Grade No. 5* (*Heavy*) is a residual fuel more viscous than Grade No. 5 (Light) and is intended for use in similar service. Preheating may be necessary in some types of equipment for burning and in colder climates for handling.

X1.3.7 *Grade No. 6*, sometimes referred to as Bunker C, is a high-viscosity oil used mostly in commercial and industrial heating. It requires preheating in the storage tank to permit pumping, and additional preheating at the burner to permit atomizing. The extra equipment and maintenance required to handle this fuel usually preclude its use in small installations.

X1.3.8 Residual fuel oil supplied to meet regulations requiring low sulfur content can differ from the grade previously

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supplied. It may be lower in viscosity (and fall into a different grade number). If it must be fluid at a given temperature, Test Method D 97 need not accurately reflect the pour point which can be expected after a period of storage. It is suggested that the purchaser and supplier discuss the proper handling and operating techniques for a given low-sulfur residual fuel oil in the installation where it is to be used.

X1.4 Significance of Test Methods

X1.4.1 The significance of the properties of fuel oil on which limitations are placed by the specification is as follows:

X1.4.1.1 *Flash Point*—The flash point of a fuel oil is an indication of the maximum temperature at which it can be stored and handled without serious fire hazard. The minimum permissible flash point is usually regulated by federal, state, or municipal laws and is based on accepted practice in handling and use.

X1.4.1.2 *Pour Point*—The pour point is an indication of the lowest temperature at which a fuel oil can be stored and still be capable of flowing under very low forces. The pour point is prescribed in accordance with the conditions of storage and use. Higher pour point fuels are permissible where heated storage and adequate piping facilities are provided. An increase in pour point can occur when residual fuel oils are subjected to cyclic temperature variations that can occur in the course of storage or when the fuel is preheated and returned to storage tanks. To predict these properties, Test Method D 3245 may be required.

X1.4.1.3 *Water and Sediment*—Appreciable amounts of water and sediment in a fuel oil tend to cause fouling of facilities for handling it, and to give trouble in burner mechanisms. Sediment may accumulate in storage tanks and on filter screens or burner parts, resulting in obstruction to flow of oil from the tank to the burner. Water in distillate fuels can cause corrosion of tanks and equipment and it can cause emulsions in residual fuels.

X1.4.1.4 *Carbon Residue*—The carbon residue of a fuel is a measure of the carbonaceous material left after all the volatile components are vaporized in the absence of air. It is a rough approximation of the tendency of a fuel to form deposits in vaporizing burners, such as pot-type and sleeve-type burners, where the fuel is vaporized in an air-deficient atmosphere.

X1.4.1.4.1 To obtain measurable values of carbon residue in the lighter distillate fuel oils, it is necessary to distill the oil to remove 90 % of it in accordance with Section 9 of Test Method D 524, and then determine the carbon residue concentrated in the remaining 10 % bottoms.

X1.4.1.5 Ash—The amount of ash is the quantity of noncombustible material in an oil. Excessive amounts can indicate the presence of materials that cause high wear of burner pumps and valves, and contribute to deposits on boiler heating surfaces.

X1.4.1.6 Distillation-The distillation test shows the vola-

tility of a fuel and the ease with which it can be vaporized. The test is of greater significance for oils that are to be burned in vaporizing type burners than for the atomizing type. For example, the maximum 10 % and 90 % distilled temperatures are specified for grade No. 1 fuel. The limiting 10 % value assures easy starting in vaporizing type burners and the 90 % limit excludes heavier fractions that would be difficult to vaporize.

X1.4.1.6.1 The limits specified for grade No. 2 heating oil define a product that is acceptable for burners of the atomizing type in household heating installations. Distillation limits are not specified for fuel oils of grades Nos. 4, 5, and 6.

X1.4.1.7 Viscosity Limits for Grades Nos. 1 and 2—The viscosity of an oil is a measure of its resistance to flow. In fuel oil it is highly significant since it indicates both the relative ease with which the oil will flow or can be pumped, and the ease of atomization.

X1.4.1.7.1 Viscosity limits for No. 1 and No. 2 grades are specified to help maintain uniform fuel flow in appliances with gravity flow, and to provide satisfactory atomization and constant flow rate through the small nozzles of household burners. For the heavier grades of industrial and bunker fuel oils, viscosity is of major importance, so that adequate preheating facilities can be provided to permit them to be pumped to the burner and to provide good atomization. However, it is equally important that the maximum viscosity under the existing conditions be such that the oil can be pumped satisfactorily from the storage tank to the preheater.

X1.4.1.8 *Density*—Density alone is of little significance as an indication of the burning characteristics of fuel oil. However, when used in conjunction with other properties, it is of value in mass-volume relationships and in calculating the specific energy (heating value) of an oil.

X1.4.1.9 *Corrosion*—The corrosion test serves to indicate the presence or absence of materials that could corrode copper, brass, and bronze components of the fuel system. This property is specified only for Nos. 1 and 2 distillate fuel oils.

X1.4.1.10 Limited sulfur content of fuel oil can be required for special uses in connection with heat treatment, nonferrous metal, glass, and ceramic furnaces or to meet federal, state, or local legislation or regulations.

X1.4.1.11 *Nitrogen*—Nitrogen oxide emission regulations have been imposed on certain combustion facilities as a function of fuel nitrogen content. For purposes of these regulations, distillate fuels, low nitrogen residual fuels, and high nitrogen residual fuels have been defined by their nitrogen content. Installations are required to meet different emission standards according to the classification of the fuel being used. When regulations require such a distinction to be made, fuel nitrogen specifications can be needed in the contractual agreement between the purchaser and the supplier.

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EXHIBIT 9

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Designation: D 1217 – 93 (Reapproved 1998)

An American National Standard

Standard Test Method for Density and Relative Density (Specific Gravity) of Liquids by Bingham Pycnometer¹

This standard is issued under the fixed designation D 1217; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This test method covers the measurement of the density of pure hydrocarbons or petroleum distillates boiling between 90 and 110° C that can be handled in a normal fashion as a liquid at the specified test temperatures of 20 and 25° C.

1.2 This test method provides a calculation procedure for conversion of density to relative density (specific gravity).

1.3 The values stated in SI units are to be regarded as the standard.

1.4 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use. Specific precautionary statements are given in Note 1, Note 2, and Note 3.

2. Referenced Documents

2.1 ASTM Standards:

E 1 Specification for ASTM Thermometers²

3. Terminology

3.1 Definitions:

3.1.1 *density*—the weight in vacuo, (that is, the mass) of a unit volume of the material at any given temperature.

3.1.2 relative density (specific gravity)—the ratio of the mass (weight in vacuo) of a given volume of material at a temperature, t_1 , to the mass of an equal volume of water at a reference temperature, t_2 ; or it is the ratio of the density of the material at t_1 to the density of water at t_2 . When the reference temperature is 4.00°C, the temperature at which the relative density of water is unity, relative density (specific gravity) and density are numerically equal.

4. Summary of Test Method

4.1 The liquid sample is introduced into a pycnometer, equilibrated to the desired temperature, and weighed. The relative density (specific gravity) or density is then calculated

from this weight and the previously determined weight of water that is required to fill the pycnometer at the same temperature, both weights being corrected for the buoyancy of air.

5. Significance and Use

5.1 Density is a fundamental physical property which can be used in conjunction with other properties to characterize pure hydrocarbons and their mixtures.

5.2 This test method was originally developed for the determination of the density of the ASTM Knock Test Reference Fuels *n*-heptane and *iso*octane, with an accuracy of 0.00003 g/mL. Although it is no longer employed extensively for this purpose, this test method is useful whenever accurate densities of pure hydrocarbons or petroleum fractions with boiling points between 90 and 110°C are required.

6. Apparatus

6.1 *Pycnometer*, Bingham-type,³ conforming to the dimensions given in Fig. 1, constructed of borosilicate glass and having a total weight not exceeding 30 g.

6.2 Constant-Temperature Bath, provided with suitable pycnometer holders or clips and means for maintaining temperatures constant to ± 0.01 °C in the desired range.

6.3 Bath Thermometer, graduated in 0.1°C subdivisions and standardized for the ice point and the range of use to the nearest 0.01°C. ASTM Saybolt Viscosity Thermometer 17C as prescribed in Specification E 1, designed for tests at 21.1°C and 25°C, is recommended. A standardized platinum resistance thermometer may also be used, and offers the best means for observing minute temperature changes in the bath. Whichever means are available, it must be realized that for most hydrocarbons the density coefficient is about 0.0008 units/°C, and therefore an error of ±0.013°C would cause an error of ±0.00001 in density.

6.4 *Hypodermic Syringe*, 30-mL capacity, of chemically resistant glass, equipped with a 152-mm (6-in.) needle made of stainless steel tubing as shown in Fig. 2.

6.5 Draw-Off Needle, made of stainless steel tubing as shown in Fig. 2.

¹ This test method is under the jurisdiction of ASTM Committee D-2 on Petroleum Products and Lubricantsand is the direct responsibility of Subcommittee D02.04on Hydrocarbon Analysis.

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² Annual Book of ASTM Standards, Vol 14.03.

³ Pycnometer available from Reliance Glass Co., 220 Gateway Rd., Bensenville, IL 60106-0825, has been found satisfactory.

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6.6 Solvent-Cleaning Assembly, as shown in Fig. 3.

6.7 Chromic Acid Cleaning Apparatus, similar to that shown in Fig. 4.

6.8 *Balance*, capable of reproducing weighings within 0.1 mg. Mechanical balances should have sensitivity which causes the pointer to be deflected 2 or 3 scale divisions per 1 mg when carrying a load of 30 g or less on each pan. The balance should be located in a room shielded from drafts and fumes and in which the temperature changes between related weighings (empty and filled pycnometer) do not cause a significant change in the ratio of the balance arms. Otherwise weighings shall be made by the method of substitution, in which the calibrated weights and pycnometer are alternately weighed on the same balance pan. The same balance shall be used for all related weighings.

6.9 *Weights*, whose relative values are known to the nearest 0.05 mg or better. The same set of weights shall be used for the calibration of the pycnometer and the determination of densities.

7. Reagents and Materials

7.1 Acetone—(Warning—See Note 1).

NOTE 1-Warning: Extremely flammable. Use adequate ventilation.

7.2 *Isopentane*—(Warning—See Note 2).

NOTE 2-Warning: Extremely flammable. Avoid buildup of vapors and remove all sources of ignition, especially non-explosion proof electrical apparatus.

7.3 Chromic Acid (Potassium Dichromate/Conc. Sulfuric Acid)—(Warning—See Note 3).

NOTE 3-Warning: Causes severe burns. A recognized carcinogen. Do not get in eyes, or on skin or clothing.

8. Preparation of Apparatus

8.1 Thoroughly clean the pycnometer with hot chromic acid cleaning solution by means of the assembly shown in Fig. 4 (Warning-See Note 3). Chromic acid solution is the most effective cleaning agent. However, surfactant cleaning fluids have also been used successfully. Mount the apparatus firmly and connect the trap to the vacuum. Warm the necessary amount of cleaning acid in the beaker, place the pycnometer on the ground joint, and evacuate by opening the stopcock to vacuum. Fill the pycnometer with acid by turning the stopcock, repeat several times or remove the filled pycnometer, and allow it to stand for several hours at 50 to 60°C. Remove the acid from the pycnometer by evacuation, empty the acid from the trap, and flush the pycnometer with water. Cleaning should be made in this manner whenever the pycnometer is to be calibrated or whenever liquid fails to drain cleanly from the walls of the pycnometer or its capillary. Ordinarily, the pycnometer may be cleaned between determinations by washing with a suitable solvent, rinsing with pure, dry acetone, followed by isopentane, and vacuum drying.

8.2 Transfer the pycnometer to the cleaner assembly shown in Fig. 3, with vacuum line and trap attached to the side tube as indicated. Place the pycnometer on the cleaner with the upper hypodermic needle extending upward into the pycnometer, and press the edge of the ground joint on the rubber stopper until the vacuum holds it in place. Draw out all the liquid or sample. Immerse the lower end of the hypodermic tube in a suitable solvent and draw 20 to 25 mL through the pycnometer. Leaving the pycnometer in place, draw air through it until it is dry. Clean the hypodermic syringe with the same apparatus.

9. Calibration of Pycnometer

9.1 Proceeding as directed in Section 10, determine the weight of freshly-boiled and cooled distilled water (distilled from alkaline permanganate through a tin condenser) held by the pycnometer when equilibrated to volume at the bath temperature to be used in the determination. Repeat until at least three values agree to ± 0.2 mg.

10. Procedure

10.1 Using another 25-mL pycnometer as a tare (Note 4), weigh the clean, dry pycnometer to 0.1 mg and record the weight.

NOTE 4—It is convenient to use the lightest of a set of pycnometers as a tare. For best results the treatment and environment of both pycnometer and tare should be identical for some time prior to weighing.

10.2 Cool the sample to 5 to 10° C below the test temperature, and fill the clean 30-mL hypodermic syringe. Transfer the sample to the pycnometer through the filling needle; avoid trapping air bubbles (Note 2) in the bulb or capillary of the pycnometer. If any are present, draw them into the syringe where possible. Also remove with the syringe or draw-off Case 1:13-cv-01215-TSC Document 118-7 Filed 11/19/15 Page 165 of 267



FIG. 3 Cleaner Assembly for Bingham-Type Pycnometer

needle any liquid above the calibration mark in the capillary or overflow reservoir. Dry the remainder with a cotton fiber pipe cleaner or cotton swab which has been dampened slightly with acetone.

NOTE 5—For work of highest accuracy on pure compounds, dissolved air may be removed from the sample by repeated freezing and remelting of the sample under vacuum in the pycnometer.

10.3 Close the pycnometer with the glass stopper and immerse it to a point above the calibration mark in the constant-temperature bath adjusted to a constancy of $\pm 0.01^{\circ}$ C

at the desired temperature. Periodically, or before the liquid expands into the overflow chamber, remove the stopper, raise the pycnometer sufficiently to expose the calibration mark to view, and readjust the liquid level to the mark by withdrawing liquid through the steel draw-off needle until expansion has stopped, indicating that the liquid has reached the temperature of the thermostat. Do not allow the liquid to expand more than 10 mm above the calibration mark at any time, to minimize errors caused by faulty drainage. Allow the contents to equilibrate an additional 10 min and draw the level down exactly to

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FIG. 4 All-Glass Pycnometer Cleaner Assembly for Use with Hot Chromic Acid Cleaning Solution

the calibration line, avoiding parallax and using a magnifier, if necessary, to obtain good visibility. Remove any liquid adhering to the walls above the calibration mark, with the draw-off needle or pipe cleaner, depending upon the volatility of the sample. Portions in the overflow bulb may be removed with a cotton swab moistened with acetone.

10.4 Replace the glass stopper, remove the pycnometer from the bath, wash the outside surface with acetone, and dry thoroughly with a chemically clean, lint-free, slightly damp cloth. Place the pycnometer in or near the balance case for 20 min and weigh to the nearest 0.1 mg. In atmospheres of low humidity (60 % or lower), drying the pycnometer by rubbing with a dry cotton cloth will induce static charges equivalent to a loss of about 1 mg in the weight of the pycnometer. This charge need not be completely dissipated in less than 30 min. The use of about 0.1-mg radium bromide- or polonium-coated foil in the balance case, or maintaining the relative humidity at 60 % or higher, aids in reducing weighing difficulties due to static charges.

10.5 Record temperature of the balance, barometric pressure, and relative humidity.

11. Calculation

11.1 Calculate the true density of the sample as follows:

Density, g/mL at °C =
$$W_{\rm s}(1 + (d_{\rm a}/d_{\rm s}) - (d_{\rm a}/d_{\rm wt})d_{\rm w}/W_{\rm w}(1 + (d_{\rm a}/d_{\rm w}) - (d_{\rm a}/d_{\rm wt}))$$

(1)

where:

- W_s = weight in air of sample contained in the pycnometer at the test temperature, g,
- W_w = weight in air of the water contained in the pycnometer at the calibration temperature, g,
- $d_{\rm w}$ = density of water at the calibration temperature, as obtained from Table 1,
- $d_{\rm a}$ = density of air in balance case at the time of weighing, as calculated from 10.3,
- $d_{\rm wt}$ = density of weights used in weighing the sample and water (brass = 10.4 g/mL, stainless steel = 7.75 g/mL), and
- d_s = approximate density of sample or

$$(W_{\rm s} \times d)/W_{\rm w}$$
 (2)

TABL	E 1	Density	of	Water ^A
------	-----	---------	----	--------------------

Temper- ature,° C	Density, g/mL	Temper- ature, °C	Density, g/mL	Temper- ature, °C	Density, g/mL
0	0.999840	21	0.997991	40	0.992212
3	0.999964	22	0.997769	45	0.990208
4	0.999972	23	0.997537	50	0.988030
5	0.999964	24	0.997295	55	0.985688
10	0.999699	25	0.997043	60	0.983191
15	0.999099	26	0.996782	65	0.980546
15.56	0.999012	27	0.996511	70	0.977759
16	0.998943	28	0.996231	75	0.974837
17	0.998774	29	0.995943	80	0.971785
18	0.998595	30	0.995645	85	0.968606
19	0.998404	35	0.994029	90	0.965305
20	0.998203	37.78	0.993042	100	0.958345

^ADensities conforming to the International Temperature Scale 1990 (ITS 90) were extracted from Appendix G, *Standard Methods for Analysis of Petroleum and Related Products 1991*, Institute of Petroleum, London.

11.2 The equation assumes that the weighings of the pycnometer empty and filled are made in such a short time interval that the air density has not changed. If significant change should occur, the calculated apparent weight of the sample, W_s , in this equation, must be corrected for the difference in air buoyancy exerted on the pycnometer as follows:

$$W_{\rm s} = W^2_{\rm PS} - W'_{\rm p}(1 + (d'_{\rm a}/2.2) - (d'_{\rm a}/d_{\rm wt}))/(1 + (d_{\rm a}^{2}/2.2) - (d_{\rm a}^{2}/d_{\rm wt}))$$
(3)

where:

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d.

 W^2_{PS} = weight of pycnometer and contained sample under second or final air density,

 $W'_{\rm P}$ = weight of pycnometer in air of first density,

- = density of air when weighing empty pycnometer,
- ² = density of air when weighing filled pycnometer, and

 $d_{\rm wt}$ and 2.2 = density of weights and borosilicate glass, respectively.

Likewise, if the pycnometer, empty and filled with water for calibration, is weighed under different air densities a similar correction for different air buoyancies shall be applied.

11.3 Calculate the relative density (specific gravity) of the sample by dividing the density as obtained in 11.1 by the relative density of water at the reference temperature obtained from Table 1.

11.4 Calculate the density of air in the balance room as follows:

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(4)

Air density (d_a) , g/mL

$$= [(B - 0.3783 Hp)(0.000465)]/(273 + t)$$

where:

B = barometric pressure, mm Hg, corrected to 0°C,

- H = relative humidity, decimal fraction,
- p = vapor pressure of water at temperature t, mm Hg, and
- $t = \text{room temperature, }^{\circ}C.$

NOTE 6—If this test method is to be used frequently, a considerable amount of calculation can be avoided by use of a gas density balance to determine the air density. Weigh a sealed 250-mL glass bulb at several different air densities and plot the weight against the air density. To determine the air density at some later time, weigh the bulb and read the air density from the point on the curve corresponding to the weight.

11.5 To calculate the density or relative density (specific gravity) at any test temperature, t, other than the calibration temperature, t_c (to correct for the cubical coefficient of thermal expansion of borosilicate glass), divide the value obtained in 10.1 or 10.2 by the following expression:

$$1 + 9.6 \times 10^{-6} (t - t_{c})$$
 (5)

12. Report

12.1 In reporting density, give the test temperature and the units (for example, density, $20^{\circ}C = x.xxxx$ g/mL). In report-

ing relative density (specific gravity), give both the test temperature and the reference temperature, but no units (for example, relative density (specific gravity), $20/4^{\circ}C = x.xxxx$). Carry all calculations to one digit beyond the last significant figure, but report the final result to the fifth decimal place (0.00001).

13. Precision and Bias

13.1 *Precision*—Results, using the 25-mL Bingham-type pycnometer, should not differ from the mean by more than the following amounts:

Repeatability	Reproducibility
One Operator and	Different Operators
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0.00002	0.00003

Note 7-The precision for this method was not obtained in accordance with RR:D02-1007.

13.2 *Bias*—The difference of results from the established values when compared to pure reference materials is not expected to be more than ± 0.00003 g/mL. Specific bias has not been established by cooperative testing.

14. Keywords

14.1 Density; pycnometer; relative density; specific gravity

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EXHIBIT 10

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1. Choose committees

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2. Describe yourself

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3. Select Volume

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Selecting "No" will forward the user to checkout (#5).

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Title format appears as: 'Volume' 'XX.XX' 'basic/plus'. Change your selection takes the user back to the previous screen for upgrading to plus. (Currently at this point you cannot adjust the member volume, just the basic/plus option)

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Continue will pass the user to checkout where they will see the cost of the membership as well as the free volume (along with any other items they've added to the cart).

ORGANIZATIONAL MEMBER:

http://www.astm.org/MEMBERSHIP/orgapp.htm

1. Choose Committee

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2. Describe yourself (if a committee has been selected. If the option to join a committee was not chosen, the user will bounce to Representative Information)

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3. Representative Information

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4. Choose Volume





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EXHIBIT 11

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# **EXHIBIT 13**

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#### ASTM

AMERICAN SOCIETY FOR TESTING AND MA-TERIALS (PENNSYLVANIA CORPORATION) 100 BARR HARBOR DRIVE WEST CONSHOHOCKEN, PA 19428

FOR: BOOKS FEATURING INFORMATION ON STANDARDIZATION OF SPECIFICATIONS AND THE METHODS OF TESTING FOR CEMENT AND CONCRETE MATERIALS, CEMENT, CHEMICAL-RESISTANT NONMETALLIC MATERIALS, LIME, CONCRETE AND CONCRETE AGGREGATES, MORTARS AND GROUTS FOR UNIT MASONRY, CONCRETE PIPE, MANUFACTURED MASONRY UNITS, FIBER-REINFORCED CEMENT PRO-DUCTS, PRECAST CONCRETE PRODUCTS; CERA-MICS MATERIALS, REFRACTORIES, GLASS AND GLASS PRODUCTS, CERAMIC WHITEWARES AND RELATED PRODUCTS, ADVANCED CERA-MICS, COMPOSITE MATERIALS; CHEMICALS, EN-GINE COOLANTS, AROMATIC HYDROCARBONS AND RELATED CHEMICALS, HALOGENATED ORGANIC SOLVENTS AND FIRE EXTINGUISH-ING AGENTS, INDUSTRIAL AND SPECIALTY CHEMICALS; CONSTRUCTION MATERIALS IN-CLUDING BUT NOT LIMITED TO ENGINEERING, VITRIFIED CLAY PIPE, GYPSUM AND RELATED BUILDING MATERIALS AND SYSTEMS, THER-MAL INSULATION, DIMENSION STONE, BUILD-ING SEALS AND SEALANTS, ROAD AND PAVING MATERIALS, WOOD, ROOFING, WATERPROOF-ING, BITUMINOUS MATERIALS, SOIL AND ROCK, GEOSYNTHETICS, VEHICLE-PAVEMENT SYS-TEMS, RESILIENT FLOOR COVERINGS, PLASTIC PIPING SYSTEMS; ELECTRONICS AND ELECTRI-CAL INSULATION, ELECTRICAL AND ELECTRO-NIC INSULATING MATERIALS, ELECTRICAL INSULATING LIQUIDS AND GASES, ELECTRO-NICS; END USE PRODUCTS, SOAPS AND OTHER DETERGENTS, POLISHES, LEATHER, SPORTS EQUIPMENT, VACUUM CLEANERS, FENCES, AMUSEMENT RIDES AND DEVICES, FOOD SER-

VICE EQUIPMENT; ENERGY - NUCLEAR FUEL CYCLE, SOLAR, GEOTHERMAL, AND OTHER ALTERNATIVE ENERGY SOURCES; ENVIRON-MENT, WASTE MANAGEMENT, PESTICIDES, HA-ZARDOUS SUBSTANCES: GENERAL PRODUCTS -ADHESIVES, ACTIVATED CARBON; HEALTH CARE, MEDICAL AND SURGICAL MATERIALS AND DEVICES, ANESTHETIC AND RESPIRATORY EQUIPMENT; METAL PRODUCTS, STEEL, STAIN-LESS STEEL AND RELATED ALLOYS, IRON CAST-INGS, METALLIC-COATED IRON AND STEEL PRODUCTS, MAGNETIC PROPERTIES, ELECTRI-CAL CONDUCTORS, NONFERROUS METALS AND ALLOYS, COPPER AND COPPER ALLOYS, LIGHT METALS AND ALLOYS, METAL POWDERS AND METAL POWDER PRODUCTS, REACTIVE AND REFRACTORY METALS AND ALLOYS, FAS-TENERS; PAINTS AND COATINGS, METALLIC AND INORGANIC COATINGS, PAINT AND RELA-TED COATINGS, MATERIALS AND APPLICA-TIONS, PROTECTIVE COATING AND LINING WORK FOR POWER GENERATION FACILITIES; PAPER AND PACKAGING, PAPER AND PAPER PRODUCTS, PACKAGING, FLEXIBLE BARRIER MATERIALS; PETROLEUM PRODUCTS, LUBRI-CANTS, AND FOSSIL FUELS - PETROLEUM PRO-DUCTS AND LUBRICANTS, GASEOUS FUELS, COAL AND COKE, CATALYSTS; PLASTICS, PLAS-TIC PIPING SYSTEMS; RUBBER, CARBON BLACK, GASKETS, TIRES; SAFETY, ELECTRICAL PROTEC-TIVE EQUIPMENT FOR WORKERS, PROTECTIVE CLOTHING, IN CLASS 16 (U.S. CLS. 2, 5, 22, 23, 29, 37, 38 AND 50).

Reg. No. 2,679,320

FIRST USE 3-15-1962; IN COMMERCE 3-15-1962.

FOR: PROMOTING PUBLIC AWARENESS OF THE NEED FOR STANDARDS FOR RELIABLE MATERIALS, PRODUCTS, SYSTEMS AND SERVI-CES TO IMPROVE PUBLIC HEALTH AND SAFETY AND THE OVERALL QUALITY OF LIFE, IN CLASS 35 (U.S. CLS. 100, 101 AND 102).

FIRST USE 3-15-1962; IN COMMERCE 3-15-1962.

FOR: EDUCATIONAL SERVICES, NAMELY, CONDUCTING SYMPOSIA AND COMMITTEE MEETINGS IN THE FIELD OF STANDARDIZA-TION OF SPECIFICATIONS AND METHODS OF TESTING FOR CEMENT AND CONCRETE MATE-RIALS, CEMENT, CHEMICAL-RESISTANT NON-METALLIC MATERIALS, LIME, CONCRETE AND CONCRETE AGGREGATES, MORTARS AND GROUTS FOR UNIT MASONRY, CONCRETE PIPE, MANUFACTURED MASONRY UNITS, FIBER-RE-INFORCED CEMENT PRODUCTS, PRÉCAST CON-CRETE PRODUCTS; CERAMICS MATERIALS -REFRACTORIES, GLASS AND GLASS PRODUCTS, CERAMIC WHITEWARES AND RELATED PRO-DUCTS, ADVANCED CERAMICS, COMPOSITE MA-TERIALS; CHEMICALS, ENGINE COOLANTS, AROMATIC HYDROCARBONS AND RELATED CHEMICALS, HALOGENATED ORGANIC SOL-VENTS AND FIRE EXTINGUISHING AGENTS, IN-DUSTRIAL AND SPECIALTY CHEMICALS; CONSTRUCTION MATERIALS INCLUDING BUT NOT LIMITED TO ENGINEERING, VITRIFIED CLAY PIPE, GYPSUM AND RELATED BUILDING MATERIALS AND SYSTEMS, THERMAL INSULA-TION, DIMENSION STONE, BUILDING SEALS AND SEALANTS, ROAD AND PAVING MATERI-ALS, WOOD, ROOFING, WATERPROOFING, BITU-MINOUS MATERIALS, SOIL AND ROCK, GEOSYNTHETICS, VEHICLE-PAVEMENT SYS-TEMS, RESILIENT FLOOR COVERINGS, PLASTIC PIPING SYSTEMS; ELECTRONICS AND ELECTRI-CAL INSULATION, ELECTRICAL AND ELECTRO-NIC INSULATING MATERIALS, ELECTRICAL INSULATING LIQUIDS AND GASES, ELECTRO-NICS; END USE PRODUCTS, SOAPS AND OTHER DETERGENTS, POLISHES, LEATHER, SPORTS EQUIPMENT, VACUUM CLEANERS, FENCES, AMUSEMENT RIDES AND DEVICES, FOOD SER-VICE EQUIPMENT; ENERGY, NUCLEAR FUEL CYCLE, SOLAR, GEOTHERMAL, AND OTHER ALTERNATIVE ENERGY SOURCES; ENVIRON-MENT, WASTE MANAGEMENT, PESTICIDES, HA-ZARDOUS SUBSTANCES; GENERAL PRODUCTS -ADHESIVES, ACTIVATED CARBON; HEALTH CARE, MEDICAL AND SURGICAL MATERIALS AND DEVICES, ANESTHETIC AND RESPIRATORY EQUIPMENT; METAL PRODUCTS, STEEL, STAIN-LESS STEEL AND RELATED ALLOYS, IRON CAST-INGS, METALLIC-COATED IRON AND STEEL PRODUCTS, MAGNETIC PROPERTIES, ELECTRI-CAL CONDUCTORS, NONFERROUS METALS AND ALLOYS, COPPER AND COPPER ALLOYS, LIGHT METALS AND ALLOYS, METAL POWDERS AND METAL POWDER PRODUCTS, REACTIVE AND REFRACTORY METALS AND ALLOYS, FAS-TENERS; PAINTS AND COATINGS - METÁLLIC AND INORGANIC COATINGS, PAINT AND RELA-TED COATINGS, MATERIALS AND APPLICA-TIONS, PROTECTIVE COATING AND LINING WORK FOR POWER GENERATION FACILITIES; PAPER AND PACKAGING, PAPER AND PAPER PRODUCTS, PACKAGING, FLEXIBLE BARRIER MATERIALS; PETROLEUM PRODUCTS, LUBRI-CANTS, AND FOSSIL FUELS, PETROLEUM PRO-DUCTS AND LUBRICANTS, GASEOUS FUELS, COAL AND COKE, CATALYSTS; PLASTICS, PLAS-TIC PIPING SYSTEMS; RUBBER, CARBON BLACK, GASKETS, TIRES; SAFETY, ELECTRICAL PROTEC-TIVE EQUIPMENT FOR WORKERS, PROTECTIVE CLOTHING, IN CLASS 41 (U.S. CLS. 100, 101 AND 107).

FIRST USE 3-15-1962; IN COMMERCE 3-15-1962.

FOR: PROVIDING A WEBSITE ON GLOBAL COMPUTER NETWORKS FEATURING INFORMA-TION IN THE FIELD OF SPECIFICATIONS AND METHODS OF TESTING FOR CEMENT AND CON-CRETE MATERIALS, CEMENT, CHEMICAL-RESIS-TANT NONMETALLIC MATERIALS, LIME, CONCRETE AND CONCRETE AGGREGATES, MORTARS AND GROUTS FOR UNIT MASONRY, CONCRETE PIPE, MANUFACTURED MASONRY UNITS, FIBER-REINFORCED CEMENT PRO-DUCTS, PRECAST CONCRETE PRODUCTS, CERA-MICS MATERIALS, REFRACTORIES, GLASS AND GLASS PRODUCTS, CERAMIC WHITEWARES AND RELATED PRODUCTS, ADVANCED CERA-MICS, COMPOSITE MATERIALS; CHEMICALS -ENGINE COOLANTS, AROMATIC HYDROCAR-BONS AND RELATED CHEMICALS, HALOGENA-TED ORGANIC SOLVENTS AND FIRE EXTINGUISHING AGENTS, INDUSTRIAL AND SPECIALTY CHEMICALS; CONSTRUCTION MATE-RIALS INCLUDING BUT NOT LIMITED TO ENGI-NEERING - VITRIFIED CLAY PIPE, GYPSUM AND RELATED BUILDING MATERIALS AND SYS-TEMS, THERMAL INSULATION, DIMENSION STONE, BUILDING SEALS AND SEALANTS, ROAD AND PAVING MATERIALS, WOOD, ROOFING, WATERPROOFING, BITUMINOUS MATERIALS, SOIL AND ROCK, GEOSYNTHETICS, VEHICLE-PAVEMENT SYSTEMS, RESILIENT FLOOR COV-ERINGS, PLASTIC PIPING SYSTEMS; ELECTRONICS AND ELECTRICAL INSULATION, ELECTRICAL AND ELECTRONIC INSULATING MATERIALS, ELECTRICAL INSULATING LI-QUIDS AND GASES, ELECTRONICS; END USE PRODUCTS, SOAPS AND OTHER DETERGENTS, POLISHES, LEATHER, SPORTS EQUIPMENT, VA-CUUM CLEANERS, FENCES, AMUSEMENT RIDES AND DEVICES, FOOD SERVICE EQUIPMENT; EN-ERGY, NUCLEAR FUEL CYCLE, SOLAR, GEO-THERMAL, AND OTHER ALTERNATIVE ENERGY SOURCES; ENVIRONMENT, WASTE MANAGEMENT, PESTICIDES, HAZARDOUS SUB-STANCES; GENERAL PRODUCTS - ADHESIVES. ACTIVATED CARBON; HEALTH CARE, MEDICAL AND SURGICAL MATERIALS AND DEVICES, AN-ESTHETIC AND RESPIRATORY EQUIPMENT; ME-TAL PRODUCTS, STEEL, STAINLESS STEEL AND RELATED ALLOYS, IRON CASTINGS, METALLIC-COATED IRON AND STEEL PRODUCTS, MAG-NETIC PROPERTIES, ELECTRICAL CONDUC-TORS, NONFERROUS METALS AND ALLOYS, COPPER AND COPPER ALLOYS, LIGHT METALS AND ALLOYS, METAL POWDERS AND METAL POWDER PRODUCTS, REACTIVE AND REFRAC-TORY METALS AND ALLOYS, FASTENERS;

PAINTS AND COATINGS, METALLIC AND INOR-GANIC COATINGS, PAINT AND RELATED COAT-INGS, MATERIALS AND APPLICATIONS, PROTECTIVE COATING AND LINING WORK FOR POWER GENERATION FACILITIES; PAPER AND PACKAGING, PAPER AND PAPER PRO-DUCTS, PACKAGING, FLEXIBLE BARRIER MA-TERIALS; PETROLEUM PRODUCTS, LUBRICANTS, AND FOSSIL FUELS, PETROLEUM PRODUCTS AND LUBRICANTS, GASEOUS FUELS, COAL AND COKE, CATALYSTS; PLASTICS, PLAS-TIC PIPING SYSTEMS; RUBBER, CARBON BLACK, GASKETS, TIRES; SAFETY, ELECTRICAL PROTEC-TIVE EQUIPMENT FOR WORKERS, PROTECTIVE CLOTHING, IN CLASS 42 (U.S. CLS. 100 AND 101).

FIRST USE 3-15-1962; IN COMMERCE 3-15-1962.

OWNER OF U.S. REG. NOS. 901,227 AND 993,094.

SER. NO. 75-638,698, FILED 2-11-1999.

LESLIE RICHARDS, EXAMINING ATTORNEY

PTO Form 1583 (Rev 5/2006) OMB No. 0651-0055 (Exp 12/31/2011)

# Combined Declaration of Use and Incontestability under Sections 8 & 15

Input Field	Entered
<b>REGISTRATION NUMBER</b>	2679320
<b>REGISTRATION DATE</b>	01/28/2003
SERIAL NUMBER	75638698
MARK SECTION	
MARK	ASTM
<b>OWNER SECTION (current)</b>	
NAME	American Society for Testing and Materials
STREET	100 Barr Harbor Drive
СІТҮ	West Conshohocken
STATE	Pennsylvania
ZIP/POSTAL CODE	19428
COUNTRY	US
ATTORNEY SECTION (current)	
NAME	DENISE ADAMUCCI
FIRM NAME	KLETT ROONEY LIEBER & SCHORLING PC
STREET	2 LOGAN SQ 12TH FL
СІТҮ	PHILADELPHIA
STATE	Pennsylvania
POSTAL CODE	19103-2756
COUNTRY	United States
ATTORNEY SECTION (proposed	)
NAME	Carole R. Klein
FIRM NAME	Morgan, Lewis & Bockius LLP

### The table below presents the data as entered.

STREET	1111 Pennsylvania Avenue, NW			
СІТҮ	Washington			
STATE	District of Columbia			
POSTAL CODE	20004			
COUNTRY	United States			
PHONE	202-739-5517			
FAX	202-739-3001			
EMAIL	trademarks@morganlewis.com			
AUTHORIZED TO COMMUNICATE VIA E-MAIL	Yes			
ATTORNEY DOCKET NUMBER	035186.0007			
OTHER APPOINTED ATTORNEY	the firm of Morgan, Lewis & Bockius LLP, MICHAEL F. CLAYTON, JAMES R. SIMS III, RON N. DREBEN, KAREN A. BUTCHER, BRETT I. MILLER, ANITA B. POLOTT, CAROLE R. KLEIN, JOSEPH E. WASHINGTON, KRISTIN H. ALTOFF, GENE K. PARK, MEGAN K. BOWEN, BRIAN P. OÂ'DONNELL, DANA S. GROSS, NATALIE A. WARD, HENRY SHINN, and SETH I. SHAIFER, members of the District of Columbia Bar, MERRY BIGGERSTAFF, member of the New York Bar, and DAN MARKS, member of the California Bar, all located at 1111 Pennsylvania Ave., NW, Washington, D.C. 20004, ROCHELLE D. ALPERT, CARLA B. OAKLEY, SHARON R. SMITH, and LEIGHA E. WILBUR, members of the California Bar, all located at One Market, Spear Street Tower, San Francisco, California 94105, and ANDREW J. GRAY IV, member of the California Bar, located at 2 Palo Alto Square, Suite 700, 3000 El Camino Real, Palo Alto, California 94306, all of whom should receive correspondence and documents related to this application through the offices			
GOODS AND/OR SERVICES SECTION				
INTERNATIONAL CLASS	016			
GOODS OR SERVICES	KEEP ALL LISTED			
SPECIMEN FILE NAME(S)	\\TICRS\EXPORT5\IMAGEOUT5 \756\386\75638698\xml1\81 50002.JPG			
SPECIMEN DESCRIPTION	photograph of manual			
INTERNATIONAL CLASS	035			

GOODS OR SERVICES	KEEP ALL LISTED		
SPECIMEN FILE NAME(S)	\ <u>\TICRS\EXPORT5\IMAGEOUT5</u> \756\386\75638698\xml1\81 50003.JPG		
SPECIMEN DESCRIPTION	page from website		
INTERNATIONAL CLASS	041		
GOODS OR SERVICES	KEEP ALL LISTED		
SPECIMEN FILE NAME(S)	\ <u>\TICRS\EXPORT5\IMAGEOUT5</u> \756\386\75638698\xml1\81 50004.JPG		
SPECIMEN DESCRIPTION	page from website		
INTERNATIONAL CLASS	042		
GOODS OR SERVICES	KEEP ALL LISTED		
SPECIMEN FILE NAME(S)	\ <u>\TICRS\EXPORT5\IMAGEOUT5</u> \756\386\75638698\xml1\81 50005.JPG		
SPECIMEN DESCRIPTION	page from website		
PAYMENT SECTION			
NUMBER OF CLASSES	4		
NUMBER OF CLASSES PAID	4		
SUBTOTAL AMOUNT	1200		
TOTAL FEE PAID	1200		
SIGNATURE SECTION			
SIGNATURE	/Thomas B. O'Brien, Jr./		
SIGNATORY'S NAME	Thomas B. O'Brien Jr.		
SIGNATORY'S POSITION	Vice President & General Counsel		
DATE SIGNED	01/26/2009		
PAYMENT METHOD	DA		
FIL	ING INFORMATION		
SUBMIT DATE	Mon Jan 26 13:26:39 EST 2009		
TEAS STAMP	USPTO/S08N15-96.241.29.24 6-20090126132639117396-26 79320-44042b9939fe160f1de 789964cb9b619f7d-DA-10343 -20090126131432563889		

PTO Form 1583 (Rev 5/2006) OMB No. 0651-0055 (Exp 12/31/2011)

# Combined Declaration of Use and Incontestability under Sections 8 & 15 To the Commissioner for Trademarks:

#### **REGISTRATION NUMBER:** 2679320 **REGISTRATION DATE:** 01/28/2003

#### MARK: ASTM

The owner, American Society for Testing and Materials, having an address of 100 Barr Harbor Drive West Conshohocken, Pennsylvania 19428 US is filing a Combined Declaration of Use and Incontestability under Sections 8 & 15.

For International Class 016, the mark is in use in commerce on or in connection with **all** of the goods or services listed in the existing registration for this specific class; **and** the mark has been continuously used in commerce for five (5) consecutive years after the date of registration, or the date of publication under Section 12(c), and is still in use in commerce on or in connection with **all** goods or services listed in the existing registration for this class. Also, no final decision adverse to the owner's claim of ownership of such mark for those goods or services exists, or to the owner's right to register the same or to keep the same on the register; and, no proceeding involving said rights pending and not disposed of in either the U.S. Patent and Trademark Office or the courts exists.

The owner is submitting one specimen for this class showing the mark as used in commerce on or in connection with any item in this class, consisting of a(n) photograph of manual. Specimen File1

For International Class 035, the mark is in use in commerce on or in connection with **all** of the goods or services listed in the existing registration for this specific class; **and** the mark has been continuously used in commerce for five (5) consecutive years after the date of registration, or the date of publication under Section 12(c), and is still in use in commerce on or in connection with **all** goods or services listed in the existing registration for this class. Also, no final decision adverse to the owner's claim of ownership of such mark for those goods or services exists, or to the owner's right to register the same or to keep the same on the register; and, no proceeding involving said rights pending and not disposed of in either the U.S. Patent and Trademark Office or the courts exists.

The owner is submitting one specimen for this class showing the mark as used in commerce on or in connection with any item in this class, consisting of a(n) page from website. Specimen File1

For International Class 041, the mark is in use in commerce on or in connection with **all** of the goods or services listed in the existing registration for this specific class; **and** the mark has been continuously used in commerce for five (5) consecutive years after the date of registration, or the date of publication under Section 12(c), and is still in use in commerce on or in connection with **all** goods or services listed in the

existing registration for this class. Also, no final decision adverse to the owner's claim of ownership of such mark for those goods or services exists, or to the owner's right to register the same or to keep the same on the register; and, no proceeding involving said rights pending and not disposed of in either the U.S. Patent and Trademark Office or the courts exists.

The owner is submitting one specimen for this class showing the mark as used in commerce on or in connection with any item in this class, consisting of a(n) page from website. Specimen File1

For International Class 042, the mark is in use in commerce on or in connection with **all** of the goods or services listed in the existing registration for this specific class; **and** the mark has been continuously used in commerce for five (5) consecutive years after the date of registration, or the date of publication under Section 12(c), and is still in use in commerce on or in connection with **all** goods or services listed in the existing registration for this class. Also, no final decision adverse to the owner's claim of ownership of such mark for those goods or services exists, or to the owner's right to register the same or to keep the same on the register; and, no proceeding involving said rights pending and not disposed of in either the U.S. Patent and Trademark Office or the courts exists.

The owner is submitting one specimen for this class showing the mark as used in commerce on or in connection with any item in this class, consisting of a(n) page from website. Specimen File1

The registrant hereby appoints Carole R. Klein and the firm of Morgan, Lewis & Bockius LLP, MICHAEL F. CLAYTON, JAMES R. SIMS III, RON N. DREBEN, KAREN A. BUTCHER, BRETT I. MILLER, ANITA B. POLOTT, CAROLE R. KLEIN, JOSEPH E. WASHINGTON, KRISTIN H. ALTOFF, GENE K. PARK, MEGAN K. BOWEN, BRIAN P. OÂ'DONNELL, DANA S. GROSS, NATALIE A. WARD, HENRY SHINN, and SETH I. SHAIFER, members of the District of Columbia Bar, MERRY BIGGERSTAFF, member of the New York Bar, and DAN MARKS, member of the California Bar, all located at 1111 Pennsylvania Ave., NW, Washington, D.C. 20004, ROCHELLE D. ALPERT, CARLA B. OAKLEY, SHARON R. SMITH, and LEIGHA E. WILBUR, members of the California Bar, all located at One Market, Spear Street Tower, San Francisco, California 94105, and ANDREW J. GRAY IV, member of the California Bar, located at 2 Palo Alto Square, Suite 700, 3000 El Camino Real, Palo Alto, California 94306, all of whom should receive correspondence and documents related to this application through the offices of Morgan, Lewis & Bockius LLP

1111 Pennsylvania Avenue, NW

Washington, District of Columbia 20004 United States

to file this Combined Declaration of Use and Incontestability under Sections 8 & 15 on behalf of the registrant. The attorney docket/reference number is 035186.0007.

A fee payment in the amount of \$1200 will be submitted with the form, representing payment for 4 class(es), plus any additional grace period fee, if necessary.

#### Declaration

The mark is in use in commerce on or in connection with the goods and/or services identified above, as evidenced by the attached specimen(s) showing the mark as used in commerce. The mark has been in continuous use in commerce for five (5) consecutive years after the date of registration, or the date of publication under Section 12(c), and is still in use in commerce. There has been no final decision adverse JA00572

USCA Case #22-7063 Document #1982413 Filed: 01/20/2023 Page 95 of 395 Case 1:13-cv-01215-TSC Document 118-7 Filed 11/19/15 Page 212 of 267

to the owner's claim of ownership of such mark, or to the owner's right to register the same or to keep the same on the register; and there is no proceeding involving said rights pending and not disposed of either in the U.S. Patent and Trademark Office or in the courts.

The undersigned being hereby warned that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. Section 1001, and that such willful false statements and the like may jeopardize the validity of this document, declares that he/she is properly authorized to execute this document on behalf of the Owner; and all statements made of his/her own knowledge are true and that all statements made on information and belief are believed to be true.

Signature: /Thomas B. O'Brien, Jr./ Date: 01/26/2009 Signatory's Name: Thomas B. O'Brien Jr. Signatory's Position: Vice President & General Counsel

Mailing Address (current): KLETT ROONEY LIEBER & SCHORLING PC 2 LOGAN SQ 12TH FL PHILADELPHIA, Pennsylvania 19103-2756

Mailing Address (**proposed**): Morgan, Lewis & Bockius LLP 1111 Pennsylvania Avenue, NW Washington, District of Columbia 20004

Serial Number: 75638698 Internet Transmission Date: Mon Jan 26 13:26:39 EST 2009 TEAS Stamp: USPTO/S08N15-96.241.29.246-2009012613263 9117396-2679320-44042b9939fe160f1de78996 4cb9b619f7d-DA-10343-2009012613143256388 9

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#### **ROUTING SHEET TO POST REGISTRATION (PRU)**

**Registration Number:** 2679320



RAM Sale Number: 10343

#### RAM Accounting Date: 20090126

**Total Fees:** \$1200

Note: Process in accordance with Post Registration Standard Operating Procedure (SOP)

<u>Transaction</u>	Fee	Transaction	Fee per	Number	Number of	Total
	<u>Code</u>	<u>Date</u>	<u>Class</u>	<u>of Classes</u>	<u>Classes Paid</u>	<u>Fee</u>
§8 affidavit	7205	20090126	\$100	4	4	\$400
§15 affidavit	7208	20090126	\$200	4	4	\$800

Physical Location: 900 - FILE REPOSITORY (FRANCONIA)

Lost Case Flag: False

In TICRS (AM-FLG-IN-TICRS): True

Transaction Date: 20090126



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# **EXHIBIT 15**

Int. Cls.: 16, 35, 41 and 42

Prior U.S. Cls.: 2, 5, 22, 23, 29, 37, 38, 50, 100, 101, 102 and 107

United States Patent and Trademark Office Registered Feb. 11, 2003

#### TRADEMARK SERVICE MARK PRINCIPAL REGISTER

#### **ASTM INTERNATIONAL**

AMERICAN SOCIETY FOR TESTING AND MA-TERIALS (PENNSYLVANIA NON-PROFIT CORPORATION) 100 BARR HARBOR DRIVE WEST CONSHOHOCKEN, PA 19428

FOR: BOOKS FEATURING INFORMATION AND STANDARDIZATION OF SPECIFICATIONS AND THE METHODS OF TESTING FOR THE ENGI-NEERING, INDUSTRIAL AND ALLIED FIELDS, IN CLASS 16 (U.S. CLS. 2, 5, 22, 23, 29, 37, 38 AND 50).

FIRST USE 11-1-2001; IN COMMERCE 11-1-2001.

FOR: PROMOTING PUBLIC AWARENESS AND KNOWLEDGE OF AND THE NEED FOR TESTING METHODS, SPECIFICATIONS AND STANDARDS FOR THE ENGINEERING, INDUSTRIAL AND AL-LIED FIELDS, IN CLASS 35 (U.S. CLS. 100, 101 AND 102).

FIRST USE 10-1-2001; IN COMMERCE 10-1-2001.

FOR: EDUCATIONAL SERVICES, NAMELY, CONDUCTING SYMPOSIA AND COMMITTEE MEETINGS IN THE FIELD OF STANDARDIZA-TION OF SPECIFICATIONS AND METHODS OF TESTING FOR THE ENGINEERING, INDUSTRIAL AND ALLIED FIELDS, IN CLASS 41 (U.S. CLS. 100, 101 AND 107).

Reg. No. 2,685,857

FIRST USE 10-1-2001; IN COMMERCE 10-1-2001.

FOR: TESTING OF THE GOODS AND SERVICES OF OTHERS FOR THE PURPOSE OF CERTIFICA-TION AND THE ESTABLISHMENT OF STAN-DARDS AND SPECIFICATIONS, AND PROVIDING A WEBSITE FEATURING INFORMATION IN THE FIELD OF METHODS OF TESTING, SPECIFICA-TIONS AND STANDARDS, IN THE ENGINEERING, INDUSTRIAL AND ALLIED FIELDS, IN CLASS 42 (U.S. CLS. 100 AND 101).

FIRST USE 10-1-2001; IN COMMERCE 10-1-2001.

NO CLAIM IS MADE TO THE EXCLUSIVE RIGHT TO USE INTERNATIONAL, APART FROM THE MARK AS SHOWN.

SER. NO. 76-343,236, FILED 11-30-2001.

LESLIE RICHARDS, EXAMINING ATTORNEY

PTO Form 1583 (Rev 5/2006) OMB No. 0651-0055 (Exp 12/31/2011)

# Combined Declaration of Use and Incontestability under Sections 8 & 15

#### Input Field Entered 2685857 **REGISTRATION NUMBER REGISTRATION DATE** 02/11/2003 SERIAL NUMBER 76343236 MARK SECTION MARK ASTM INTERNATIONAL **OWNER SECTION (current)** NAME American Society for Testing and Materials STREET 100 Barr Harbor Drive CITY West Conshohocken STATE Pennsylvania **ZIP/POSTAL CODE** 19428 **COUNTRY** US PHONE 610-832-9500 FAX 610-832-9555 **ATTORNEY SECTION (current)** NAME Denise Adamucci FIRM NAME **KLETT ROONEY LIEBER & SCHORLING** STREET TWO LOGAN SQUARE, 12TH FLOOR CITY PHILADELPHIA STATE Pennsylvania POSTAL CODE 19103-2756 COUNTRY United States PHONE (215) 567-7658

## The table below presents the data as entered.

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dadamucci@klettrooney.com
)
Carole R. Klein
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20004
United States
202-739-5517
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trademarks@morganlewis.com
Yes
035186.0007.0160
the firm of Morgan, Lewis & Bockius LLP, MICHAEL F. CLAYTON, JAMES R. SIMS III, RON N. DREBEN, KAREN A. BUTCHER, BRETT I. MILLER, ANITA B. POLOTT, CAROLE R. KLEIN, JOSEPH E. WASHINGTON, KRISTIN H. ALTOFF, GENE K. PARK, MEGAN K. BOWEN, BRIAN P. OÂ'DONNELL, DANA S. GROSS, NATALIE A. WARD, HENRY SHINN, and SETH I. SHAIFER, members of the District of Columbia Bar, MERRY BIGGERSTAFF, member of the New York Bar, and DAN MARKS, member of the California Bar, all located at 1111 Pennsylvania Ave., NW, Washington, D.C. 20004, ROCHELLE D. ALPERT, CARLA B. OAKLEY, SHARON R. SMITH, and LEIGHA E. WILBUR, members of the California Bar, all located at One Market, Spear Street Tower, San Francisco, California 94105, and ANDREW J. GRAY IV, member of the California Bar, located at 2 Palo Alto Square, Suite 700, 3000 El Camino Real, Palo Alto, California 94306, all of whom should receive correspondence and documents related to this application through the offices

INTERNATIONAL CLASS	016			
GOODS OR SERVICES	KEEP ALL LISTED			
SPECIMEN FILE NAME(S)	\\TICRS\EXPORT5\IMAGEOUT5 \763\432\76343236\xml1\81 50002.JPG			
SPECIMEN DESCRIPTION	photograph of book cover			
INTERNATIONAL CLASS	035			
GOODS OR SERVICES	KEEP ALL LISTED			
SPECIMEN FILE NAME(S)	\\TICRS\EXPORT5\IMAGEOUT5 \763\432\76343236\xml1\81 50003.JPG			
SPECIMEN DESCRIPTION	page from website			
INTERNATIONAL CLASS	041			
GOODS OR SERVICES	KEEP ALL LISTED			
SPECIMEN FILE NAME(S)	\\TICRS\EXPORT5\IMAGEOUT5 \763\432\76343236\xml1\81 50004.JPG			
SPECIMEN DESCRIPTION	page from website			
INTERNATIONAL CLASS	042			
GOODS OR SERVICES	KEEP ALL LISTED			
SPECIMEN FILE NAME(S)	\\TICRS\EXPORT5\IMAGEOUT5 \763\432\76343236\xml1\81 50005.JPG			
SPECIMEN DESCRIPTION	page from website			
PAYMENT SECTION				
NUMBER OF CLASSES	4			
NUMBER OF CLASSES PAID	4			
SUBTOTAL AMOUNT	1200			
TOTAL FEE PAID	1200			
SIGNATURE SECTION				
SIGNATURE	/Thomas B. O'Brien, Jr./			
SIGNATORY'S NAME	Thomas B. O'Brien Jr.			
SIGNATORY'S POSITION	Vice President & General Cousel			
DATE SIGNED	01/26/2009			
PAYMENT METHOD	DA			
FILING INFORMATION				

### USCA Case #22-7063 Document #1982413 Filed: 01/20/2023 Page 106 of 395 Case 1:13-cv-01215-TSC Document 118-7 Filed 11/19/15 Page 223 of 267

SUBMIT DATE	Mon Jan 26 13:32:46 EST 2009
TEAS STAMP	USPTO/S08N15-96.241.29.24 6-20090126133246540365-26 85857-4402f99ac79415168fe bc61ba63e8b68dc-DA-10424- 20090126132142673988

PTO Form 1583 (Rev 5/2006) OMB No. 0651-0055 (Exp 12/31/2011)

# Combined Declaration of Use and Incontestability under Sections 8 & 15 To the Commissioner for Trademarks:

#### **REGISTRATION NUMBER:** 2685857 **REGISTRATION DATE:** 02/11/2003

MARK: ASTM INTERNATIONAL

The owner, American Society for Testing and Materials, having an address of 100 Barr Harbor Drive West Conshohocken, Pennsylvania 19428 US is filing a Combined Declaration of Use and Incontestability under Sections 8 & 15.

For International Class 016, the mark is in use in commerce on or in connection with **all** of the goods or services listed in the existing registration for this specific class; **and** the mark has been continuously used in commerce for five (5) consecutive years after the date of registration, or the date of publication under Section 12(c), and is still in use in commerce on or in connection with **all** goods or services listed in the existing registration for this class. Also, no final decision adverse to the owner's claim of ownership of such mark for those goods or services exists, or to the owner's right to register the same or to keep the same on the register; and, no proceeding involving said rights pending and not disposed of in either the U.S. Patent and Trademark Office or the courts exists.

The owner is submitting one specimen for this class showing the mark as used in commerce on or in connection with any item in this class, consisting of a(n) photograph of book cover. Specimen File1

For International Class 035, the mark is in use in commerce on or in connection with **all** of the goods or services listed in the existing registration for this specific class; **and** the mark has been continuously used in commerce for five (5) consecutive years after the date of registration, or the date of publication under Section 12(c), and is still in use in commerce on or in connection with **all** goods or services listed in the existing registration for this class. Also, no final decision adverse to the owner's claim of ownership of such mark for those goods or services exists, or to the owner's right to register the same or to keep the same on the register; and, no proceeding involving said rights pending and not disposed of in either the U.S. Patent and Trademark Office or the courts exists.

The owner is submitting one specimen for this class showing the mark as used in commerce on or in connection with any item in this class, consisting of a(n) page from website. Specimen File1

For International Class 041, the mark is in use in commerce on or in connection with **all** of the goods or services listed in the existing registration for this specific class; **and** the mark has been continuously used in commerce for five (5) consecutive years after the date of registration, or the date of publication under Section 12(c), and is still in use in commerce on or in connection with **all** goods or services listed in the

existing registration for this class. Also, no final decision adverse to the owner's claim of ownership of such mark for those goods or services exists, or to the owner's right to register the same or to keep the same on the register; and, no proceeding involving said rights pending and not disposed of in either the U.S. Patent and Trademark Office or the courts exists.

The owner is submitting one specimen for this class showing the mark as used in commerce on or in connection with any item in this class, consisting of a(n) page from website. Specimen File1

For International Class 042, the mark is in use in commerce on or in connection with **all** of the goods or services listed in the existing registration for this specific class; **and** the mark has been continuously used in commerce for five (5) consecutive years after the date of registration, or the date of publication under Section 12(c), and is still in use in commerce on or in connection with **all** goods or services listed in the existing registration for this class. Also, no final decision adverse to the owner's claim of ownership of such mark for those goods or services exists, or to the owner's right to register the same or to keep the same on the register; and, no proceeding involving said rights pending and not disposed of in either the U.S. Patent and Trademark Office or the courts exists.

The owner is submitting one specimen for this class showing the mark as used in commerce on or in connection with any item in this class, consisting of a(n) page from website. Specimen File1

The registrant hereby appoints Carole R. Klein and the firm of Morgan, Lewis & Bockius LLP, MICHAEL F. CLAYTON, JAMES R. SIMS III, RON N. DREBEN, KAREN A. BUTCHER, BRETT I. MILLER, ANITA B. POLOTT, CAROLE R. KLEIN, JOSEPH E. WASHINGTON, KRISTIN H. ALTOFF, GENE K. PARK, MEGAN K. BOWEN, BRIAN P. OÂ'DONNELL, DANA S. GROSS, NATALIE A. WARD, HENRY SHINN, and SETH I. SHAIFER, members of the District of Columbia Bar, MERRY BIGGERSTAFF, member of the New York Bar, and DAN MARKS, member of the California Bar, all located at 1111 Pennsylvania Ave., NW, Washington, D.C. 20004, ROCHELLE D. ALPERT, CARLA B. OAKLEY, SHARON R. SMITH, and LEIGHA E. WILBUR, members of the California Bar, all located at One Market, Spear Street Tower, San Francisco, California 94105, and ANDREW J. GRAY IV, member of the California Bar, located at 2 Palo Alto Square, Suite 700, 3000 El Camino Real, Palo Alto, California 94306, all of whom should receive correspondence and documents related to this application through the offices of Morgan, Lewis & Bockius LLP

1111 Pennsylvania Avenue, NW

Washington, District of Columbia 20004 United States

to file this Combined Declaration of Use and Incontestability under Sections 8 & 15 on behalf of the registrant. The attorney docket/reference number is 035186.0007.0160.

A fee payment in the amount of \$1200 will be submitted with the form, representing payment for 4 class(es), plus any additional grace period fee, if necessary.

#### Declaration

The mark is in use in commerce on or in connection with the goods and/or services identified above, as evidenced by the attached specimen(s) showing the mark as used in commerce. The mark has been in continuous use in commerce for five (5) consecutive years after the date of registration, or the date of publication under Section 12(c), and is still in use in commerce. There has been no final decision adverse JA00586
USCA Case #22-7063 Document #1982413 Filed: 01/20/2023 Page 109 of 395 Case 1:13-cv-01215-TSC Document 118-7 Filed 11/19/15 Page 226 of 267

to the owner's claim of ownership of such mark, or to the owner's right to register the same or to keep the same on the register; and there is no proceeding involving said rights pending and not disposed of either in the U.S. Patent and Trademark Office or in the courts.

The undersigned being hereby warned that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. Section 1001, and that such willful false statements and the like may jeopardize the validity of this document, declares that he/she is properly authorized to execute this document on behalf of the Owner; and all statements made of his/her own knowledge are true and that all statements made on information and belief are believed to be true.

Signature: /Thomas B. O'Brien, Jr./ Date: 01/26/2009 Signatory's Name: Thomas B. O'Brien Jr. Signatory's Position: Vice President & General Cousel

Mailing Address (current): KLETT ROONEY LIEBER & SCHORLING TWO LOGAN SQUARE, 12TH FLOOR PHILADELPHIA, Pennsylvania 19103-2756

Mailing Address (**proposed**): Morgan, Lewis & Bockius LLP 1111 Pennsylvania Avenue, NW Washington, District of Columbia 20004

Serial Number: 76343236 Internet Transmission Date: Mon Jan 26 13:32:46 EST 2009 TEAS Stamp: USPTO/S08N15-96.241.29.246-2009012613324 6540365-2685857-4402f99ac79415168febc61b a63e8b68dc-DA-10424-20090126132142673988





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#### **ROUTING SHEET TO POST REGISTRATION (PRU)**

**Registration Number:** 2685857





RAM Sale Number: 10424

#### RAM Accounting Date: 20090126

Total Fees: \$1200

Note: Process in accordance with Post Registration Standard Operating Procedure (SOP)

<u>Transaction</u>	Fee	Transaction	Fee per	Number	Number of	Total
	<u>Code</u>	<u>Date</u>	<u>Class</u>	<u>of Classes</u>	<u>Classes Paid</u>	<u>Fee</u>
§8 affidavit	7205	20090126	\$100	4	4	\$400
§15 affidavit	7208	20090126	\$200	4	4	\$800

Physical Location: 900 - FILE REPOSITORY (FRANCONIA)

Lost Case Flag: False

In TICRS (AM-FLG-IN-TICRS): True

Transaction Date: 20090126



 Int. Cl.: 16

 Prior U.S. Cls.: 2, 5, 22, 23, 29, 37, 38 and 50

 United States Patent and Trademark Office

 Reg. No. 2,651,796

 Registered Nov. 19, 2002

TRADEMARK PRINCIPAL REGISTER



AMERICAN SOCIETY FOR TESTING AND MA-TERIALS (PENNSYLVANIA NON-PROFIT CORPORATION) 100 BARR HARBOR DRIVE WEST CONSHOHOCKEN, PA 19428

FOR: PUBLICATIONS PUBLISHED FROM TIME TO TIME, NAMELY, MAGAZINES, BOOKS, PAMPHLETS, BROCHURES, NEWSLETTERS, AND JOURNALS RELATING TO TESTING METHODS, SPECIFICATIONS AND STANDARDS IN THE EN-GINEERING, INDUSTRIAL AND ALLIED FIELDS, IN CLASS 16 (U.S. CLS. 2, 5, 22, 23, 29, 37, 38 AND 50). FIRST USE 11-1-2001; IN COMMERCE 11-1-2001.

OWNER OF U.S. REG. NOS. 901,227 AND 993,094.

NO CLAIM IS MADE TO THE EXCLUSIVE RIGHT TO USE "INTERNATIONAL", APART FROM THE MARK AS SHOWN.

SER. NO. 76-343,235, FILED 11-30-2001.

LESLIE RICHARDS, EXAMINING ATTORNEY

PTO Form 1583 (Rev 5/2006) OMB No. 0651-0055 (Exp 12/31/2011)

## Combined Declaration of Use and Incontestability under Sections 8 & 15

Input Field	Entered		
<b>REGISTRATION NUMBER</b>	2651796		
<b>REGISTRATION DATE</b>	11/19/2002		
SERIAL NUMBER	76343235		
MARK SECTION			
MARK	ASTM INTERNATIONAL (stylized and/or with design)		
OWNER SECTION (current)			
NAME	American Society for Testing and Materials		
STREET	100 Barr Harbor Drive		
СІТҮ	West Conshohocken		
STATE	Pennsylvania		
ZIP/POSTAL CODE	19428		
COUNTRY	United States		
PHONE	610-832-9500		
FAX	610-832-9555		
ATTORNEY SECTION (current)			
NAME	DENISE ADAMUCCI		
FIRM NAME	KLETT ROONEY LIEBER & SCHORLING		
STREET	2 LOGAN SQ 12TH FL		
СІТҮ	PHILADELPHIA		
STATE	Pennsylvania		
POSTAL CODE	19103-2756		
COUNTRY	United States		
PHONE			

### The table below presents the data as entered.

JA00594

Case 1:13-cv-01215-TSC Document 118-7 Filed 11/19/15 Page 234 of 267

PHONE	(215) 567-7658			
FAX	(215) 567-2737			
EMAIL	dadamucci@klettrooney.com			
ATTORNEY SECTION (proposed)				
NAME	Carole R. Klein			
FIRM NAME	Morgan, Lewis & Bockius LLP			
STREET	1111 Pennsylvania Avenue, NW			
СІТҮ	Washington			
STATE	District of Columbia			
POSTAL CODE	20004			
COUNTRY	United States			
PHONE	202-739-5517			
FAX	202-739-3001			
EMAIL	trademarks@morganlewis.com			
AUTHORIZED TO COMMUNICATE VIA E-MAIL	Yes			
ATTORNEY DOCKET NUMBER	035186.0007.0151			
OTHER APPOINTED ATTORNEY	the firm of Morgan, Lewis & Bockius LLP, MICHAEL F. CLAYTON, JAMES R. SIMS III, RON N. DREBEN, KAREN A. BUTCHER, BRETT I. MILLER, ANITA B. POLOTT, CAROLE R. KLEIN, JOSEPH E. WASHINGTON, KRISTIN H. ALTOFF, GENE K. PARK, MEGAN K. BOWEN, BRIAN P. OÂ'DONNELL, NATALIE A. WARD, HENRY SHINN, and SETH I. SHAIFER, members of the District of Columbia Bar, and DANA S. GROSS and MERRY BIGGERSTAFF members of the New York Bar, all located at 1111 Pennsylvania Ave., NW, Washington, D.C. 20004, ROCHELLE D. ALPERT, CARLA B. OAKLEY, SHARON R. SMITH, DIANE J. MASON, and LEIGHA E. WILBUR, members of the California Bar, all located at One Market, Spear Street Tower, San Francisco, California 94105, and ANDREW J. GRAY IV, member of the California Bar, located at 2 Palo Alto Square, Suite 700, 3000 El Camino Real, Palo Alto, California 94306, all of whom should receive correspondence and documents related to this application through the offices			

**GOODS AND/OR SERVICES SECTION** 

INTERNATIONAL CLASS	016			
GOODS OR SERVICES	KEEP ALL LISTED			
SPECIMEN FILE NAME(S)	\\TICRS\EXPORT4\IMAGEOUT4 \763\432\76343235\xml1\81 50002.JPG			
SPECIMEN DESCRIPTION	cover of publication			
PAYMENT SECTION				
NUMBER OF CLASSES	1			
NUMBER OF CLASSES PAID	1			
SUBTOTAL AMOUNT	300			
TOTAL FEE PAID	300			
SIGNATURE SECTION				
SIGNATURE	/Thomas B. O'Brien Jr./			
SIGNATORY'S NAME	Thomas B. O'Brien Jr.			
SIGNATORY'S POSITION	Vice President & General Counsel			
DATE SIGNED	11/19/2008			
PAYMENT METHOD	DA			
FILING INFORMATION				
SUBMIT DATE	Wed Nov 19 21:06:20 EST 2008			
TEAS STAMP	USPTO/S08N15-72.73.50.2-2 0081119210620238721-26517 96-4006213692268b8ad7c14b 1d10351d8a60-DA-4608-2008 1119114901182352			

PTO Form 1583 (Rev 5/2006) OMB No. 0651-0055 (Exp 12/31/2011)

### Combined Declaration of Use and Incontestability under Sections 8 & 15 To the Commissioner for Trademarks:

#### **REGISTRATION NUMBER:** 2651796 **REGISTRATION DATE:** 11/19/2002

MARK: ASTM INTERNATIONAL (stylized and/or with design)

The owner, American Society for Testing and Materials, having an address of 100 Barr Harbor Drive
West Conshohocken, Pennsylvania 19428
United States
is filing a Combined Declaration of Use and Incontestability under Sections 8 & 15.

For International Class 016, the mark is in use in commerce on or in connection with **all** of the goods or services listed in the existing registration for this specific class; **and** the mark has been continuously used in commerce for five (5) consecutive years after the date of registration, or the date of publication under Section 12(c), and is still in use in commerce on or in connection with **all** goods or services listed in the existing registration for this class. Also, no final decision adverse to the owner's claim of ownership of such mark for those goods or services exists, or to the owner's right to register the same or to keep the same on the register; and, no proceeding involving said rights pending and not disposed of in either the U.S. Patent and Trademark Office or the courts exists.

The owner is submitting one specimen for this class showing the mark as used in commerce on or in connection with any item in this class, consisting of a(n) cover of publication. Specimen File1

The registrant hereby appoints Carole R. Klein and the firm of Morgan, Lewis & Bockius LLP, MICHAEL F. CLAYTON, JAMES R. SIMS III, RON N. DREBEN, KAREN A. BUTCHER, BRETT I. MILLER, ANITA B. POLOTT, CAROLE R. KLEIN, JOSEPH E. WASHINGTON, KRISTIN H. ALTOFF, GENE K. PARK, MEGAN K. BOWEN, BRIAN P. OÂ'DONNELL, NATALIE A. WARD, HENRY SHINN, and SETH I. SHAIFER, members of the District of Columbia Bar, and DANA S. GROSS and MERRY BIGGERSTAFF members of the New York Bar, all located at 1111 Pennsylvania Ave., NW, Washington, D.C. 20004, ROCHELLE D. ALPERT, CARLA B. OAKLEY, SHARON R. SMITH, DIANE J. MASON, and LEIGHA E. WILBUR, members of the California Bar, all located at One Market, Spear Street Tower, San Francisco, California 94105, and ANDREW J. GRAY IV, member of the California Bar, located at 2 Palo Alto Square, Suite 700, 3000 El Camino Real, Palo Alto, California 94306, all of whom should receive correspondence and documents related to this application through the offices of Morgan, Lewis & Bockius LLP

1111 Pennsylvania Avenue, NW

Washington, District of Columbia 20004

United States

to file this Combined Declaration of Use and Incontestability under Sections 8 & 15 on behalf of the registrant. The attorney docket/reference number is 035186.0007.0151.

A fee payment in the amount of \$300 will be submitted with the form, representing payment for 1 class(es), plus any additional grace period fee, if necessary.

#### Declaration

The owner, or its related company, is using the mark in commerce on or in connection with the goods and/or services identified above, as evidenced by the attached specimen(s) showing the mark as used in commerce. The owner, or its related company, has continuously used the mark in commerce on or in connection with the goods and/or services identified above, for five (5) consecutive years after the date of registration, or the date of publication under Section 12(c), and is still using the mark in commerce on or in connection with the identified goods and/or services. There has been no final decision adverse to the owner's claim of ownership of such mark for such goods and/or services, or to the owner's right to register the same or to keep the same on the register; and there is no proceeding involving said rights pending and not disposed of either in the U.S. Patent and Trademark Office or in the courts.

The undersigned being hereby warned that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. Section 1001, and that such willful false statements and the like may jeopardize the validity of this document, declares that he/she is properly authorized to execute this document on behalf of the Owner; and all statements made of his/her own knowledge are true and that all statements made on information and belief are believed to be true.

Signature: /Thomas B. O'Brien Jr./ Date: 11/19/2008 Signatory's Name: Thomas B. O'Brien Jr. Signatory's Position: Vice President & General Counsel

Mailing Address (current): KLETT ROONEY LIEBER & SCHORLING 2 LOGAN SQ 12TH FL PHILADELPHIA, Pennsylvania 19103-2756

Mailing Address (**proposed**): Morgan, Lewis & Bockius LLP 1111 Pennsylvania Avenue, NW Washington, District of Columbia 20004

Serial Number: 76343235 Internet Transmission Date: Wed Nov 19 21:06:20 EST 2008 TEAS Stamp: USPTO/S08N15-72.73.50.2-2008111921062023 8721-2651796-4006213692268b8ad7c14b1d103 51d8a60-DA-4608-20081119114901182352

JA00598

USCA Case #22-7063 Document #1982413 Filed: 01/20/2023 Page 121 of 395 Case 1:13-cv-01215-TSC Document 118-7 Filed 11/19/15 Page 238 of 267

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## WINNING PAPERS 2008 ASTM INTERNATIONAL ADVANTAGE ADVANTAGE AVARD

NOVEMBER/DECEMBER 2008

Oxygen Tank Safety Light Sport Aircraft Industry Questioned Document Examination

JA00599

#### **ROUTING SHEET TO POST REGISTRATION (PRU)**

**Registration Number:** 2651796





RAM Sale Number: 4608

#### RAM Accounting Date: 20081120

Total Fees: \$300

Note: Process in accordance with Post Registration Standard Operating Procedure (SOP)

<u>Transaction</u>	Fee	Transaction	Fee per	Number	Number of	Total
	<u>Code</u>	<u>Date</u>	<u>Class</u>	<u>of Classes</u>	<u>Classes Paid</u>	<u>Fee</u>
<pre>§8 affidavit §15 affidavit</pre>	7205	20081119	\$100	1	1	\$100
	7208	20081119	\$200	1	1	\$200

Physical Location: 900 - FILE REPOSITORY (FRANCONIA)

Lost Case Flag: False

In TICRS (AM-FLG-IN-TICRS): True

Transaction Date: 20081119



Case 1:13-cv-01215-TSC Document 118-7 Filed 11/19/15 Page 240 of 267

## **EXHIBIT 16**

JA00601



# 御

Reg. No. 4,079,772	AMERICAN SOCIETY FOR TESTING AND MATERIALS (PENNSYLVANIA CORPORA		
Registered Jan. 3, 2012	100 BARR HARBOR DRIVE WEST CONSHOHOCKEN, PA 194282959		
Int. Cl.: 16	FOR: PUBLICATIONS, NAMELY, MAGAZINES, BOOKS, PAMPHLETS, BROCHURES, NEWSLETTERS AND JOURNALS, RELATING TO TESTING METHODS, SPECIFICATIONS		
TRADEMARK	FROM TIME TO TIME, IN CLASS 16 (U.S. CLS. 2, 5, 22, 23, 29, 37, 38 AND 50).		
PRINCIPAL REGISTER	FIRST USE 3-15-1965; IN COMMERCE 3-15-1965.		
	OWNER OF U.S. REG. NOS. 993,094, 2,679,320 AND OTHERS.		
	THE MARK CONSISTS OF THE LETTERS "ASTM" IN CIRCULAR FORMAT.		
	SER. NO. 85-317,229, FILED 5-10-2011.		
	REBECCA GILBERT, EXAMINING ATTORNEY		

12



Jand J. Kg Nos

Director of the United States Patent and Trademark Office

#### REQUIREMENTS TO MAINTAIN YOUR FEDERAL TRADEMARK REGISTRATION

## WARNING: YOUR REGISTRATION WILL BE CANCELLED IF YOU DO NOT FILE THE DOCUMENTS BELOW DURING THE SPECIFIED TIME PERIODS.

#### Requirements in the First Ten Years* What and When to File:

*First Filing Deadline:* You must file a Declaration of Use (or Excusable Nonuse) between the 5th and 6th years after the registration date. *See* 15 U.S.C. §§1058, 1141k. If the declaration is accepted, the registration will continue in force for the remainder of the ten-year period, calculated from the registration date, unless cancelled by an order of the Commissioner for Trademarks or a federal court.

*Second Filing Deadline:* You must file a Declaration of Use (or Excusable Nonuse) **and** an Application for Renewal between the 9th and 10th years after the registration date.* *See* 15 U.S.C. §1059.

#### Requirements in Successive Ten-Year Periods* What and When to File:

You must file a Declaration of Use (or Excusable Nonuse) and an Application for Renewal between every 9th and 10th-year period, calculated from the registration date.*

#### **Grace Period Filings***

The above documents will be accepted as timely if filed within six months after the deadlines listed above with the payment of an additional fee.

## The United States Patent and Trademark Office (USPTO) will NOT send you any future notice or reminder of these filing requirements.

*ATTENTION MADRID PROTOCOL REGISTRANTS: The holder of an international registration with an extension of protection to the United States under the Madrid Protocol must timely file the Declarations of Use (or Excusable Nonuse) referenced above directly with the USPTO. The time periods for filing are based on the U.S. registration date (not the international registration date). The deadlines and grace periods for the Declarations of Use (or Excusable Nonuse) are identical to those for nationally issued registrations. *See* 15 U.S.C. §\$1058, 1141k. However, owners of international registrations do not file renewal applications at the USPTO. Instead, the holder must file a renewal of the underlying international registration at the International Bureau of the World Intellectual Property Organization, under Article 7 of the Madrid Protocol, before the expiration of each ten-year term of protection, calculated from the date of the international registration. *See* 15 U.S.C. §1141j. For more information and renewal forms for the international registration, see http://www.wipo.int/madrid/en/.

NOTE: Fees and requirements for maintaining registrations are subject to change. Please check the USPTO website for further information. With the exception of renewal applications for registered extensions of protection, you can file the registration maintenance documents referenced above online at http://www.uspto.gov.

Page: 2 / RN # 4,079,772

### JA00603

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## **EXHIBIT 17**

Case 1:13-cv-01215-TSC Document 118-7 Filed 11/19/15 Page 244 of 267



Case 1:13-cv-01215-TSC Document 118-7 Filed 11/19/15 Page 245 of 267



### Case 1:13-cv-01215-TSC Document 118-7 Filed 11/19/15 Page 246 of 267



Case 1:13-cv-01215-TSC Document 118-7 Filed 11/19/15 Page 247 of 267



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## **EXHIBIT 18**

#### $\Rightarrow$ PREAMBLE-NOT PART OF THE SPECIFICATION $\Leftarrow$

In order to promote public education and public safety, equal justice for all, a better informed citizenry, the rule of law, world trade and world peace, this legal document is hereby made available on a noncommercial basis, as it is the right of all humans to know and speak the laws that govern them.

The reader is advised:

- In this file, Public.Resource.Org has transformed this specification into the Hypertext Markup Language (HTML) for the purpose of informing citizens of their rights and obligations by making these provisions more accessible and more usable.
- This specification has been incorporated by reference into federal law by the Consumer Product Safety Commission as part of the Safety Standard for Infant Walkers (<u>16 CFR 1216</u>).
- Public.Resource.Org has made no changes to this specification. Any errors in the transformation of this specification should be reported to Public.Resource.Org.
- All hyperlinks to named standards are to versions that have been incorporated by reference into law and may not be the latest version.
- This file is based on the HTML 5, MathML, SVG, and CSS specifications and may not be compatible with some older browsers.
- Users may wish to modify this file. In particular, the header section calls the <u>MathJax</u> library and users may wish to use native MathML instead. There are also two calls to Google Fonts and one to our own external style sheet.
- Internal IDs have been assigned to each clause and section (e.g., <u>s3.1</u>), figure ("f1"), table ("t1"), and equation ("eq1").
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#### ⇒ END OF PREAMBLE-NOT PART OF THE SPECIFICATION ⇐

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#### Standard Consumer Safety Specification for Infant Walkers'

This standard is issued under the fixed designation F977; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

¹ This consumer safety specification is under the jurisdiction of <u>ASTM Committee F15</u> on Consumer Products and is the direct responsibility of <u>Subcommittee F15.17</u> on Carriages, Strollers, Walkers and Stationary Activity Centers.

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#### **INTRODUCTION**

This consumer safety specification addresses walker incidents that were identified by the U.S. Consumer Product Safety Commission (CPSC).

Based on data collected by the CPSC, the majority of incidents involved children falling down stairs or steps in walkers. Other incidents involved children tipping over in walkers or accessing hot surfaces or liquids. The injuries associated with these incidents ranged from cuts and bruises to burns, skull fractures, and deaths. Most of the children injured were under 15 months old.

In response to the incident data provided by the CPSC, this consumer safety specification attempts to minimize the risk of injury or death associated with children in walkers falling down stairs or between levels, or tipping over. It also contains provisions to address the risk of injury associated with walker seating systems and folding mechanisms.

#### 1. Scope

**1.1** This consumer safety specification covers performance requirements, test methods, and marking requirements to promote safe use of the infant walker (see <u>3.1</u>).

1.2 This consumer safety specification is intended to minimize accidents to children resulting from normal use and reasonably foreseeable misuse or abuse of walkers.

1.3 No walker produced after the approval date of this consumer safety specification shall, either by label or other means, indicate compliance with this specification unless it conforms to all requirements contained herein.

1.4 This consumer safety specification is not intended to address accidents and injuries resulting from the interaction of other persons with the child in the walker or the accidents resulting from abuse and misuse by children able to walk.

1.5 The values stated in inch-pound units are to be regarded as the standard. The SI units given in parentheses are for information only.

**1.6** The following precautionary caveat pertains only to the test method portion, <u>Section 7</u>, of this consumer safety specification: *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.* 

#### 2. Referenced Documents

#### 2.1 ASTM Standards:²

D3359 Test Methods for Measuring Adhesion by Tape Test

• F963 Consumer Safety Specification for Toy Safety

² For referenced ASTM standards, visit the ASTM website, <u>www.astm.org</u>, or contact ASTM Customer Service at <u>service@astm.org</u>. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

#### 2.2 Federal Regulations:³

- 16 CFR 1303 Ban of Lead-Containing Paint and Certain Consumer Products Bearing Lead-Containing Paint
- <u>16 CFR 1500</u> Hazardous Substances Act Regulations Including Sections:
  - <u>1500.48</u> Technical Requirements for Determining a Sharp Point in Toys or Other Articles Intended for Use by Children Under Eight Years of Age
  - <u>1500.49</u> Technical Requirements for Determining a Sharp Metal or Glass Edge in Toys or Other Articles Intended for Use by Children Under Eight Years of Age
  - 1500.50-.52 Test Methods for Simulating Use and Abuse of Toys and Other Articles Intended for Use by Children
- <u>16 CFR 1501</u> Method for Identifying Toys and Other Articles Intended for Use by Children Under Three Years of Age Which Present Choking, Aspiration, or Ingestion Hazards Because of Small Parts

³ Available from U.S. Government Printing Office, N. Capital and H Streets, NW, Washington, DC 20401.

#### 3. Terminology

#### 3.1 Definitions of Terms Specific to This Standard:

**3.1.1** conspicuous, adj— a label that is visible, when the unit is in a manufacturer's recommended use position, to a person standing near the unit at any one position around the unit but not necessarily visible from all positions.

**3.1.2** *dynamic load*, *n*- application of impulsive force through free fall of a weight.

**3.1.3** manufacturer's recommended use position, n— any position that is presented as a normal, allowable, or acceptable configuration for the use of the product by the manufacturer in any descriptive or instructional literature. This specifically excludes positions that the manufacturer shows in a like manner in its literature to be unacceptable, unsafe, or not recommended.

**3.1.4** *non-paper label, n*— any label material (such as plastic or metal) which either will not tear without the aid of tools or tears leaving a sharply defined edge.

3.1.5 occupant, n- that individual who is in a product that is set up in one of the manufacturer's recommended use positions.

**3.1.6** paper label, n- any label material which tears without the aid of tools and leaves a fibrous edge.

3.1.7 static load, n- a vertically downward force applied by a calibrated force gauge or by dead weights.

**3.1.8** *walker, n*— a mobile unit that enables a child to move on a horizontal surface when propelled by the child sitting or standing within the walker, and that is in the manufacturer's recommended use position. Examples of different style walkers can be seen in Fig. 1.



#### 4. Calibration and Standardization

**4.1** All testing shall be conducted on a concrete floor that may be covered with ½ in. (3 mm) thick vinyl floor cover, unless test instructs differently.

4.2 The walker shall be completely assembled, unless otherwise noted, in accordance with the manufacturer's instructions.

4.3 No testing shall be conducted within 48 h of manufacturing.

**4.4** The product to be tested shall be in a room with ambient temperature of  $73 \pm 9^{\circ}$ F ( $23 \pm 5^{\circ}$ C) for at least 1 h prior to testing. Testing then shall be conducted within this temperature range.

4.5 All testing required by this specification shall be conducted on the same unit.

4.6 The following guidelines shall apply to force gauges used for testing:

**4.6.1** Equipment— Force gauge with a range of 0 to 25 lbf (111 N) and a tolerance of 60.25 lbf (1.1 N). A calibration interval shall be maintained for the force gauge which will ensure that the accuracy does not drift beyond the stated tolerance.

**4.6.2** Equipment— Force gauge with a range 0 to 100 lbf (445 N) and a tolerance of 61 lbf (4.4 N). A calibration interval shall be maintained for the force gauge which will ensure that the accuracy does not drift beyond the stated tolerance.

#### **5. General Requirements**

5.1 The walker shall conform to the regulations specified in Section 2 of this specification before and after all testing.

5.2 Prior to testing, any exposed wood parts shall be smooth and free from splinters.

**5.3** Latching or Locking Mechanisms— Any unit that folds shall have a latching or locking device or other provision in the design that will prevent the unit from unintentionally folding when properly placed in the manufacturer's recommended use position. The unit shall remain in its manufacturer's recommended use position during and upon completion of the test, in accordance with <u>7.2</u>. If a unit is designed with a latching or locking device, that device shall remain engaged and operative after testing.

**5.4** *Openings*— Holes or slots that extend entirely through a wall section of any rigid material less than 0.375 in. (9.53 mm) thick and admit a 0.210 in. (5.33 mm) diameter rod shall also admit a 0.375 in. (9.53 mm) diameter rod. Holes or slots that are between 0.210 in. (5.33 mm) and 0.375 in. (9.53 mm) and have a wall thickness less than 0.375 in. (9.53 mm), but are limited in depth to 0.375 in. (9.53 mm) maximum by another rigid surface shall be permissible (see Fig. 2). The product shall be evaluated in all manufacturer's recommended use positions.



#### FIG. 2 Opening Examples

**5.5** *Scissoring, Shearing, Pinching*— A product, when in a manufacturer's recommended use position, shall be designed and constructed so as to prevent injury to the occupant from any scissoring, shearing, or pinching when members or components rotate about a common axis or fastening point, slide, pivot, fold or otherwise move relative to one another. Scissoring, shearing, or pinching that may cause injury shall not be

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permissible when the edges of any rigid parts admit a probe greater than 0.210 in. (5.33 mm) and less than 0.375 in. (9.53 mm) diameter at any accessible point throughout the range of motion of such parts.

**5.6** *Exposed Coil Springs*— Any exposed coil spring which is accessible to the occupant, having or capable of generating a space between coils of 0.210 in. (5.33 mm) or greater during static load testing in accordance with <u>7.1.2</u> shall be covered or otherwise designed to prevent injury from entrapment.

#### 5.7 Labeling

5.7.1 Warning labels, whether paper or non-paper, shall be permanent when tested per 7.4.1-7.4.3.

**5.7.2** Warning statements applied directly onto the surface of the product by hot stamping, heat transfer, printing, wood burning, etc. shall be permanent when tested per <u>7.4.4</u>.

5.7.3 Non-paper labels shall not liberate small parts when tested in accordance with 7.4.5.

**5.8** *Protective Components*— If a child can grasp components between the thumb and forefinger, or teeth (such as caps, sleeves, or plugs used for protection from sharp edges, points, or entrapment of fingers or toes), or if there is at least 0.040 in. (1.00 mm) gap between the component and its adjacent parent component, such component shall not be removed when tested in accordance with <u>7.5</u>.

**5.9** *Toys*— Toy accessories attached to, removable from, or sold with an infant walker, as well as their means of attachment, must meet applicable requirements of Consumer Safety Specification <u>F963</u>.

#### 6. Performance Requirements

*NOTE 1* — The forces that are to be applied to the sample in the tests described in <u>Section 7</u> of this specification are readily applied by means of a calibrated force gauge, or in the case of static load and dynamic load tests, by fixed masses.

#### 6.1 Stability

**6.1.1** *Tipping Resistance Against an Immovable Object* A minimum stability index of 18 shall be required to tip over a walker either forwards or backwards when tested in accordance with <u>7.3</u>.

**6.1.2** Occupant Leaning Over Edge— A walker shall remain upright (not tip over) when forces are applied forward, and sideward, in accordance with 7.3.4.

**6.2** Structural Integrity— All tests that cover static and dynamic loading, and support of the occupant, are to be performed on the same product, sequentially and without refurbishing or repositioning of adjustment, if any. At test conclusion, there shall be no failure of seams, breakage of materials, or changes in adjustments that could cause the unit not to fully support the child or create a hazardous condition as defined in <u>Section 5</u>. Maximum slippage of adjustable features, if any, is 1 in. (25 mm).

6.2.1 Dynamic Load- The occupant support member (seat) shall support a dynamic load when tested in accordance with 7.1.1.

6.2.2 Static Load- The walker shall not create a hazardous condition as defined in 5.4 when tested in accordance with 7.1.2.

**6.2.3** Leg Openings— The seat of the walker shall be designed so that the leg openings will not permit passage of the test probe (see Fig. 3) when tested in accordance with 7.1.3.



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*NOTE* – Dimensions are based on a 5th percentile 6-month-old child. Gauge may be modified to facilitate testing to allow for pulling of the gauge.

#### FIG. 3 Small Head Test Probe

**6.3** *Prevention of Falls Down Step(s)*— The walker shall maintain contact with and be supported only by the test platform at the conclusion of the tests in <u>7.6</u>.

**6.4** *Parking Device (applicable to walkers equipped with parking brakes)*— The walker shall have a maximum displacement of 1.97 in. (50 mm) for each test in each direction (forward, rearward, and sideward) when tested in accordance with 7.7.

#### 7. Test Methods

NOTE 2 - Except for the structural integrity tests (see 7.1), that shall be performed first, the tests can be performed in any sequence.

#### 7.1 Structural Integrity (see 6.2)

*NOTE 3* – All wood blocks are fabricated from 1 in. nominal thickness lumber having a finish thickness of ³/₄ in. (19 mm) unless otherwise stated.

#### 7.1.1 Dynamic Load (see <u>6.2.1</u>):

7.1.1.1 Position the walker in the manufacturer's recommended use position with all wheels on the floor. If adjustable, adjust to the highest and most upright position.

**7.1.1.2** Affix to the walker seat a 6 by 6 in. (150 by 150 mm) wood block. If the unit has a hammock type seat, use a standard 6 in. weld cap, as identified in Fig. 4. Attach the weld cap to the bottom of the test weight with the convex surface down.

**7.1.1.3** Drop a test weight of 33 lb (15.0 kg), with the weight of the weld cap included, onto the seat at least a distance of 1 in. (25 mm) 100 times at a rate of  $4 \pm 1$  s per cycle.

**7.1.1.4** When testing a spring supported adjustable bouncer walker, test with the unit in the highest adjustment position and support the frame so that the dropping of the 33 lb (15.0 kg) weight does not cause the frame to bottom out artificially.



*NOTE* – Caps furnished to ANSI standards unless otherwise specified. Welding caps are formed from steel plate and are ellipsoidal in shape. The minor axis being equal to one half the major axis radii "R" and "r" closely approximate the actual semi-ellipsoidal shape. All dimensions in inches and are in accordance with ANSI B16.9.

#### FIG. 4 Nominal 6 in. Weld Cap Weight (Approximately) 6.4 lb

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#### 7.1.2 Static Load (see 6.2.2):

#### **7.1.2.1** Position the walker as in <u>7.1.1.1</u>.

**7.1.2.2** Center a weight of 90 lb (40.8 kg) for a period of 1 min on a 6 by 6 in. (150 by 150 mm) wood block affixed to the walker seat. If the unit has a harmock type seat, use a standard 6 in. (150 mm) weld cap, convex surface down, as identified in Fig. 4 instead of the specified wood block. Include the weight of the weld cap in the 90 lb (40.8 kg) weight. If the natural action of a bouncer type walker will not allow the full application of 90 lb (40.8 kg) static load, then restrict the bouncer mechanism by any means possible so that the full static load can be applied to the seat or section of the walker occupied by the child.

7.1.2.3 Position the walker in the manufacturer's recommended use position with all wheels on the floor. If adjustable, adjust to the lowest use position.

**7.1.2.4** Center a weight of 50 lb (22.7 kg) for a period of 1 minute on a 6 by 6 in. (150 by 150 mm) wood block affixed to the walker seat. If the unit has a hammock type seat, use a standard 6 in. (150 mm) weld cap convex surface face down, as identified in <u>Fig. 4</u> instead of the specified wood block. Include the weight of the weld cap in the 50 lb (22.7 kg) weight. In this test DO NOT restrict the bouncer mechanism from folding or bottoming out. Observe visually the action of all supporting, locking, and adjusting components to make sure that they do not create a hazardous condition as defined in <u>5.4</u>.

#### 7.1.3 Leg Openings Test (see <u>6.2.3</u>).

7.1.3.1 If the seat is adjustable, adjust the seat to obtain the largest leg opening.

**7.1.3.2** Rotate the test probe shown in Fig. 3 to the orientation most likely to fail and gradually apply a force of 25 lbf (111 N). Apply the force perpendicular to the base of the probe within a period of 5 s and maintain it for an additional 10 s.

#### 7.2 Latching or Locking Mechanisms (see 5.3)

7.2.1 Erect the walker in accordance with the manufacturer's instructions and adjust to the highest and most upright recommended use position.

7.2.2 Position the walker so that the normal folding motion is not impeded.

**7.2.3** Apply a force of 10 lbf (44 N) in the direction normally associated with folding the walker in accordance with manufacturer's instructions. Apply the force gradually over a 5-s period and maintain for an additional 10 s before releasing the force.

7.2.4 Perform this procedure for a total of five times within a 2 min period.

#### 7.3 Stability Test (see 6.1)

**7.3.1** *Tipping Resistance Against An Immovable Object (see* <u>6.1.1</u>)— Establish a horizontal test plane with a piece of ½ in. (13 mm) high by ¾ in. (19 mm) wide aluminum angle stop affixed thereto. Its length shall be a minimum of 6 in. (150 mm) wider than the width of the walker being tested.

#### 7.3.2 Forward Tip Resistance.

**7.3.2.1** Place the walker on the horizontal test plane and adjust it to the manufacturers highest recommended use position. If the walker has a reclinable seat, place it in its most upright position. Place a six month old CAMI Infant Dummy Mark II4 in the walker and affix it in a position so that its feet just touch the test plane and its abdomen is positioned firmly against the forward edge of the occupant area (see Fig. 5). If the Dummy's feet do not touch the test plane when the walker is in its highest use position, lower the walker until the Dummy's feet just touch the test plane.



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#### FIG. 5 Placement of CAMI Infant Dummy

**7.3.2.2** Position the walker so that its two most forward wheels are touching and perpendicular to the aluminum stop. For walkers that have offset wheels, place the wheels in the most disadvantageous position.

**7.3.2.3** Pretension by gradually applying 3 lbf (13 N) forward horizontal force at a level just below the CAMI Dummy's4 armpits in a direction perpendicular to the axis connecting the two most forward wheels and centered halfway between the wheels (see <u>Fig. 6</u>). Then increase the horizontal force until the walker tips over forward.



FIG. 6 Tip Resistance Setup

**7.3.2.4** If during the application of the force the front edge of the walker contacts the test plane and the wheels contacting the aluminum stop begin to lift upward, release the force allowing the walker to rest upon the test plane, remove the stop from the wheels and position a suitable stop against the front edge of the walker. Then reapply the force as specified in <u>7.3.2.3</u> until the walker tips over forward.

**7.3.2.5** Record the distance pulled in inches after pretensioning and the maximum force exerted in pounds (including pre-tensioning). The sum of the distance pulled and maximum force exerted shall be considered the stability index.

#### 7.3.3 Rear Tip Resistance:

**7.3.3.1** Without adjusting the seat height or the height of the CAMI Dummy4 relative to the horizontal test plane, position the Dummy so that its back is firmly against the rear of the occupant area.

⁴ CAMI Infant Dummy (Mark II), Department of Transportation, Memorandum Report AAC-119-74-14, Revision II, Drawing No. SA-1101 (see Fig. 7).





*NOTE* – This CAMI Infant Dummy was constructed in accordance with the Department of Transportation Specification dated April 29, 1975.

#### FIG. 7 CAMI Infant Dummy-Mark II

**7.3.3.2** Position the walker so that its two most rearward wheels are touching and perpendicular to the aluminum stop. For walkers that have offset wheels, place wheels in the most disadvantageous position.

**7.3.3.3** Pretension by gradually applying a 3 lbf (13 N) horizontal force in a rearward direction perpendicular to the axis connecting the two most rear wheels and centered between the wheels. Apply the force at a level just below the CAMI Dummy's4 armpits. Then increase the force until the walker tips over. If the walker has a seat pad whose back is higher than the Dummy's armpits, apply the horizontal force at the same height as that of the Dummy's armpits.

**7.3.3.4** Record the distance pulled in inches after pretensioning and the maximum force exerted in pounds including pre-tensioning. The sum of the distance pulled and the maximum force exerted shall be considered the stability index.

#### 7.3.4 Occupant Leaning Outward Over Edge of Walker (see 6.1.2):

**7.3.4.1** Position walker in the manufacturer's recommended use position with all wheels on the floor (flat horizontal plane). For walkers that have offset wheels, place wheels in the most disadvantageous position. If the walker is adjustable, adjust to its highest use position.

**7.3.4.2** Clamp a 1 by 1 in. (25 by 25 mm) rigid aluminum angle to the uppermost front and rear horizontal frame members of the walker in a direction perpendicular to the axis of the two most forward wheels and centered between the wheels. The length of the aluminum angle should be such that it extends forward at least 12 in. (300 mm) beyond the front edge of the occupant seating area (see Fig. 8).



NOTE – Xinches depends on height of walker, Y= height of walker tray or uppermost frame member.

#### FIG. 8 Leaning Over Setup

**7.3.4.3** Locate the point on the aluminum angle that is 1 in. (25 mm) less than one half the difference between 32 in. (810 mm), and the height of the walker at the top edge of the tray adjacent to the seating area (see Fig. 8). Over a period of 5 s, gradually apply a vertically downward force of 17 lb to this point and maintain it for an additional 10 s.

NOTE 4 - 32 in. is the maximum height of the user.

**7.3.4.4** Repeat the steps in <u>7.3.4.1</u>, <u>7.3.4.2</u>, and <u>7.3.4.3</u>, except position the aluminum angle in a sideward direction perpendicular to the axis connecting the two most sideward wheels and centered halfway between the wheels. Be sure the aluminum angle extends at least 12 in. (300 mm) beyond the inside edge of the tray or horizontal frame member. Placement of the 17 lb (7.7 kg) weight to the side shall not cause the walker to tip over.

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#### 7.4 Permanency of Labels and Warnings (see 5.7)

**7.4.1** A paper label (excluding labels attached by a seam) shall be considered permanent if, during an attempt to remove it without the aid of tools or solvents, it cannot be removed, it tears into pieces upon removal, or such action damages the surface to which it is attached.

**7.4.2** A non-paper label (excluding labels attached by a seam) shall be considered permanent if, during an attempt to remove it without the aid of tools or solvents, it cannot be removed or such action damages the surface to which it is attached.

**7.4.3** A warning label attached by a seam shall be considered permanent if it does not detach when subjected to a 15 lb pull force applied in any direction most likely to cause failure using a  $\frac{3}{4}$  in. diameter clamp surface. Apply the force evenly over 5 s and maintain for an additional 10 s.

#### 7.4.4 Adhesion Test for Warnings Applied Directly onto the Surface of the Product:

7.4.4.1 Apply the tape test defined in Test Method B-Cross-Cut Tape Test of Test Methods D3359 eliminating parallel cuts.

7.4.4.2 Perform this test once in each different location where warnings are applied.

7.4.4.3 The warning statements will be considered permanent if the printing in the area tested is still legible and attached after being subjected to this test.

7.4.5 A non-paper label, during an attempt to remove it without the aid of tools or solvents, shall not be removed or shall not fit entirely within the small parts cylinder defined in <u>16 CFR 1501</u> if it can be removed.

#### 7.5 Removal of Components (see 5.8)

7.5.1 Test components in accordance with each of the following methods in the sequence listed.

7.5.2 Secure the walker so that it cannot move during the performance of the following tests.

**7.5.3** Torque Test— A torque of 3 lbf·in.  $(0.3 N \cdot m)$  shall be applied evenly within a period of 5 s in a clockwise direction until a rotation of 180° from the original position has been attained or 3 lbf·in.  $(0.3 N \cdot m)$  has been exceeded. The torque or maximum rotation shall be maintained for an additional 10 s. The torque shall then be removed and the test components permitted to return to a relaxed condition. This procedure shall then be repeated in a counter-clockwise direction.

#### 7.5.4 Tension Test.

**7.5.4.1** Attach a force gauge to the cap, sleeve or plug by means of any suitable device. For components that cannot reasonably be expected to be grasped between thumb and forefinger, or teeth, on their outer diameter but have a gap of at least 0.040 in. (1.00 mm) between the rear surface of the component and the structural member of the walker to which they are attached, a clamp such as the one shown in Fig. 9 may be a suitable device.



#### FIG. 9 Tension Test Adaptor/Clamp

7.5.4.2 Be sure that the attachment device does not compress or expand the component so that it hinders any possible removal.

**7.5.4.3** Gradually apply a 15 lbf (67 N) force in the direction that would normally be associated with the removal of the component over a 5 s period and hold for an additional 10 s.

#### 7.6 Step(s) Tests (see 6.3) (Refer to Table 1 and Fig. 10)

#### 7.6.1 Walker and Dummy Positioning for Step Tests:

**7.6.1.1** Adjust the walker seat and tray to the manufacturer's highest recommended use position. If the walker has any consumer controllable features (that is, manual brakes, toy bars, etc.), place them in the configuration deemed most likely to cause failure of this test.

**7.6.1.2** The dummy may be secured to the tray to maintain contact during the test. Raise the dummy's legs just enough so its feet do not touch the platform during the performance of the test and position using the rope specified in <u>Fig. 10</u>. The dummy's head shall remain unrestrained for all the step tests.



THE TEST TABLE SHALL BE OF ADEQUATE LENGTH TO ACCOMMODATE THE MAXIMUM CALCULATED LAUNCHING DISTANCE d



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7.6.2 Establish a vertical Plane A that passes through the center of the seating area and is parallel to the direction the child faces. Establish a vertical Plane B that is perpendicular to Plane A and passes through the center of the seating area.

#### 7.6.3 Forward Facing Step Test.

7.6.3.1 Center the walker on the test platform facing forward so that Plane A is perpendicular to the front edge of the platform and the walker is distance d from the center of the most forward wheel(s) to the edge of the test platform.

$$d_{ ext{CAMI}} = rac{(V_f^2 - V_o^2)^* (W_{ ext{CAMI}} + W_{ ext{walker}} + W_{ ext{drop weight}})}{2g(W_{ ext{drop weight}} \cdot \mu_k N_{ ext{CAMI}})}$$

(1)

#### TABLE 1 Summary of Step(s) Tests

Section Number	Facing Direction of Walker	Weight of CAMI Dummy, lb	Simulated Speed, ft/s	Apply Tipover Test
<u>7.6.3</u>	forward	17	4	yes
<u>7.6.3.7</u>	forward	28 (vest)	4	yes
7.6.4	sideward	17	2	yes
<u>7.6.4.7</u>	sideward	28 (vest)	2	yes
<u>7.6.5</u>	rearward	17	4	no
7.6.5.6	rearward	28 (vest)	4	no

where:

 $V_f$  = maximum velocity of walker at edge of platform (4 ft/s)

 $V_o$  = initial velocity (0)

WCAMI = measured weight of CAMI dummy

Wwalker = weight of walker

Wdrop weight = drop weight (8 lb)

 $\mu_k$  = dynamic coefficient of friction (0.05)

NCAMI = normal force (for CAMI dummy scenario) (weight of CAMI dummy + walker)

g = acceleration of gravity (32.2 ft/s²)

Position the swivel wheels in such a way that the walker moves forward in a straight line parallel to Plane A.

7.6.3.2 Place a CAMI Infant Dummy Mark II in the walker and position it as shown in Fig. 11 with the torso contacting the front of the occupant seating area and arms placed on the walker tray.



FIG. 11 Dummy Position for Forward Facing Test

**7.6.3.3** While holding the walker stationary, attach an 8-lb (3.6-kg) weight to the front of the walker base at Plane A by means of a 7-strand military rope with a 550 lb tensile strength (for example, paracord 550) and a stainless steel ball bearing pulley with an outside diameter of 1.25 in. (32 mm) and adjust the pulley so that the force is applied horizontally ( $0 \pm 0.5^{\circ}$  with respect to the table surface).

7.6.3.4 Release the walker. When the walker comes to rest the 8 lb (3.6 kg) weight must still be applied to the walker.

**7.6.3.5** If any part of the walker extends over the edge of the test platform, perform the following tipover test. Without repositioning the walker, remove the CAMI dummy and the 8 lb (3.6 kg) weight. Perform the tipover test as specified in <u>7.3.4.2</u> and <u>7.3.4.3</u> except that the aluminum angle should be positioned in Plane A.

7.6.3.6 Repeat 7.6.3.3-7.6.3.5 two additional times.

**7.6.3.7** Repeat <u>7.6.3.1-7.6.3.6</u> using the CAMI dummy with the weighted vest (see <u>Fig. 12</u>) and with distance computed using the following equation:

$$d_{ ext{CAMI w/vest}} = rac{\left(V_f^2 - V_o^2
ight)^* \left(W_{ ext{CAMI w/vest}} + W_{ ext{walker}} + W_{ ext{drop weight}}
ight)}{2g(W_{ ext{drop weight}} - \mu_k N_{ ext{CAMI w/vest}})}$$

where:

 $V_f$  = maximum velocity of walker at edge of platform (4 ft/s)

 $V_o$  = initial velocity (0)

WCAMI w/vest = measured weight of CAMI dummy and weighted vest

Wwalker = weight of walker

*W*_{drop weight} = drop weight (8 lb)

 $\mu_k$  = dynamic coefficient of friction (0.05)

NCAMI w/vest = normal force (for CAMI dummy fitted with 11 lb vest scenario) (weight of CAMI dummy + vest + walker)

 $g = \text{acceleration of gravity} (32.2 \text{ ft/s}^2)$ 



#### 7.6.4 Sideward Facing Step Test.

**7.6.4.1** Center the walker on the test platform facing sideways so that Plane B is perpendicular to the front edge of the platform and the walker is distance *d* from the center of the most sideward wheel(s) to the edge of the test platform.

$$d_{\text{CAMI}} = \frac{\left(V_f^2 - V_o^2\right)^* \left(W_{\text{CAMI}} + W_{\text{waker}} + W_{\text{drop weight}}\right)}{2g(W_{\text{drop weight}} - \mu_k N_{\text{CAMI}})}$$
(3)

where:

Vf = maximum velocity of walker at edge of platform (2 ft/s)

(2)
$V_o$  = initial velocity (0)

*WCAMI* = measured weight of CAMI dummy

Wwalker = weight of walker

*Wdrop weight* = drop weight (8 lb)

 $\mu_k$  = dynamic coefficient of friction (0.05)

NCAMI = normal force (for CAMI dummy scenario) (weight of CAMI dummy + walker)

g = acceleration of gravity (32.2 ft/s²)

Position the swivel wheels in such a way that the walker moves sideward in a straight line parallel to Plane B.

7.6.4.2 Place a CAMI Infant Dummy Mark II in the walker and position it as shown in Fig. 13 with the torso contacting the side of the occupant seating area.



FIG. 13 Dummy Position for Sideward Test

**7.6.4.3** While holding the walker stationary, attach an 8 lb (3.6 kg) weight to the side of the walker base at Plane B by means of a rope (as specified in  $\underline{7.6.3.3}$ ) and a pulley (as specified in  $\underline{7.6.3.3}$ ) and adjust the pulley so that the force is applied horizontally (0 ± 0.5° with respect to the table surface).

7.6.4.4 Release the walker. When the walker comes to rest the 8 lb (3.6 kg) weight still must be applied to the walker.

**7.6.4.5** If any part of the walker extends over the edge of the test platform, perform the following tipover test. Without repositioning the walker, remove the CAMI dummy and the 8 lb (3.6 kg) weight. Perform the tipover test as specified in <u>7.3.4.2</u> and <u>7.3.4.3</u> except that the aluminum angle should be positioned in Plane B.

7.6.4.6 Repeat 7.6.4.3-7.6.4.5 two additional times.

**7.6.4.7** Repeat <u>7.6.4.1-7.6.4.6</u> using the CAMI dummy with the weighted vest (see <u>Fig. 12</u>) and with distance computed using the following equation:

$$d_{ ext{CAMI w/vest}} = rac{(V_f^2 - V_o^2)^* (W_{ ext{CAMI w/vest}} + W_{ ext{walker}} + W_{ ext{drop weight}})}{2g(W_{ ext{drop weight}} - 
u_k N_{ ext{CAMI w/vest}})}$$

where:

Vf = maximum velocity of walker at edge of platform (2 ft/s)

 $V_o$  = initial velocity (0)

WCAMI w/vest = measured weight of CAMI dummy and weighted vest

Wwalker = weight of walker

Wdrop weight = drop weight (8 lb)

 $\mu_k$  = dynamic coefficient of friction (0.05)

(4)

NCAMI w/vest = normal force (for CAMI dummy fitted with 11 lb vest scenario) (weight of CAMI dummy + vest + walker)

g = acceleration of gravity (32.2 ft/s²)

### 7.6.5 Rearward Facing Step Test.

**7.6.5.1** Center the walker on the test platform facing rearward so that Plane A is perpendicular to the front edge of the platform and the walker is distance *d* from the center of the most rearward wheel(s) to the edge of the test platform.

 $d_{ ext{CAMI}} = rac{(V_f^2 - V_o^2) st (W_{ ext{CAMI}} + W_{ ext{walker}} + W_{ ext{drop weight}})}{2g(W_{ ext{drop weight}} - \mu_e N_{ ext{CAMI}})}$ 

where:

Vf = maximum velocity of walker at edge of platform (4 ft/s)

 $V_o$  = initial velocity (0)

WCAMI = measured weight of CAMI dummy

Wwalker = weight of walker

Wdrop weight = drop weight (8 lb)

 $\mu_k$  = dynamic coefficient of friction (0.05)

NCAMI = normal force (for CAMI dummy scenario) (weight of CAMI dummy + walker)

g = acceleration of gravity (32.2 ft/s²)

Position the swivel wheels in such a way that the walker moves rearward in a straight line parallel to Plane A. If the walker has an open back base design, attach the ends of a lightweight bar to the back of the walker near the wheels using loops of cord to allow the bar to float. The distance between the attachment points on the bar and those on the walker must be equal to prevent pulling the wheels inward or outward during the test. The cord from the 8-lb (3.6-kg) weight is then attached to the bar halfway between the attachment points (see Fig. 14).



FIG. 14 Open Back Base

7.6.5.2 Place a CAMI Infant Dummy Mark II in the walker and position it as shown in Fig. 15 with the torso contacting the back of the occupant seating area.



(5)

### FIG. 15 Dummy Position for Rear Facing Test

**7.6.5.3** While holding the walker stationary, attach an 8 lb (3.6 kg) weight to the rear of the walker base at Plane A by means of a rope (as specified in  $\underline{7.6.3.3}$ ) and a pulley (as specified in  $\underline{7.6.3.3}$ ) and adjust the pulley so that the force is applied horizontally (0 ± 0.5° with respect to the table surface).

7.6.5.4 Release the walker. When the walker comes to rest the 8 lb (3.6 kg) weight must still be applied to the walker.

7.6.5.5 Repeat 7.6.5.3 and 7.6.5.4 two additional times.

**7.6.5.6** Repeat <u>7.6.5.1-7.6.5.5</u> using the CAMI dummy with the weighted vest (see Fig. 12) and with distance computed using the following equation:

$$d_{ ext{CAMI w/vest}} = rac{(V_f^2 - V_o^2)^* (W_{ ext{CAMI w/vest}} + W_{ ext{walker}} + W_{ ext{drop weight}})}{2g(W_{ ext{drop weight}} - \mu_k N_{ ext{CAMI w/vest}})}$$

(6)

where:

 $V_f$  = maximum velocity of walker at edge of platform (4 ft/s)

 $V_o$  = initial velocity (0)

WCAMI = measured weight of CAMI dummy

Wwalker = weight of walker

Wdrop weight = drop weight (8 lb)

 $\mu_k$  = dynamic coefficient of friction (0.05)

NCAMI = normal force (for CAMI dummy scenario) (weight of CAMI dummy + walker)

g = acceleration of gravity (32.2 ft/s²)

### 7.7 Parking Device Test (see <u>6.4</u>)

**7.7.1** Perform the parking device test using a Test Mass that is A rigid cylinder  $6.30 \pm 0.04$  in. ( $160 \pm 1$  mm) in diameter,  $11.02 \pm 0.04$  in. ( $280 \pm 1$  mm) in height with a mass of 16.9 lb (7.65 kg), with its center of gravity in the center of the cylinder.

**7.7.2** Adjust the walker seat to the highest position (if applicable). Place the Test Mass vertically in the walker seat. Set any manual speed control to the fastest position (if applicable). Establish a vertical plane A that passes through the center of the seating area and is parallel to the direction the child faces. Establish a vertical plane B that is perpendicular to plane A and passes through the center of the seating area.

7.7.3 Perform the parking device test in the forward, sideward, and rearward directions.

### 7.7.4 Forward Facing Test of Parking Devices.

**7.7.4.1** Position the walker including the Test Mass facing forward so that plane A is perpendicular to the front edge of the platform (see Fig. 10) and passes through the center of the pulley. Engage all parking devices in accordance with the manufacturer's instructions.

**7.7.4.2** Within 1 min of placing the walker with the Test Mass on the platform, attach an 8-lb (3.6-kg) weight gradually within 5 s to the walker frame base at plane A by means of a rope and a pulley per the test apparatus specifications in the step test procedure, adjusted so that the force is applied horizontally (rope angle shall be  $0 \pm 0.5^{\circ}$ ). Remove the 8-lb (3.6-kg) weight after 1 min. Measure the displacement.

### 7.7.5 Sideward Facing Test of Parking Devices.

**7.7.5.1** Position the walker including the Test Mass facing sideward so that plane B is perpendicular to the front edge of the platform and passes through the center of the pulley. Engage all parking devices in accordance with the manufacturer's instructions.

**7.7.5.2** Within 1 min of placing the walker with the Test Mass on the platform, attach an 8-lb (3.6-kg) weight gradually within 5 s to the walker frame base at plane B by means of a rope and a pulley per the test apparatus specifications in the step test procedure, adjusted so that the force is applied horizontally (rope angle shall be  $0 \pm 0.5^{\circ}$ ). Remove the 8-lb (3.6-kg) weight after 1 min. Measure the displacement.

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**7.7.5.3** If the walker is equipped with fixed direction rear wheels and the walker is displaced in a curved path, establish the location of the rope attachment as the reference point and measure the linear displacement of that reference point after performing the procedure as described in <u>7.7.5.1</u> and <u>7.7.5.2</u>.

### 7.7.6 Rearward Facing Test of Parking Devices.

**7.7.6.1** Position the walker including the Test Mass facing rearward so that plane A is perpendicular to the front edge of the platform and passes through the center of the pulley. Engage all parking devices in accordance with the manufacturers' instructions.

**7.7.6.2** Within 1 min of placing the walker with the Test Mass on the platform, attach an 8-lb (3.6-kg) weight gradually within 5 s to the walker frame base at plane A by means of a rope and a pulley per the test apparatus specifications in the step test procedure, adjusted so that the force is applied horizontally (rope angle shall be  $0 \pm 0.5^{\circ}$ ). Remove the 8-lb (3.6-kg) weight after 1 min. Measure the displacement.

# 8. Marking and Labeling

8.1 Each product and its retail package shall be marked or labeled clearly and legibly to indicate the following:

**8.1.1** The name of the manufacturer, distributor, or seller and either the place of business (city, state, and mailing address, including zip code) or telephone number, or both.

8.1.2 A code mark or other means that identifies the date (month and year as a minimum) of manufacture.

8.1.3 The markings on the product shall be permanent.

8.1.4 Any upholstery label required by law shall not be used to meet the requirements of 8.1.

8.2 Each walker shall be labeled with warning statements. The warning statements shall be in contrasting color(s), permanent, conspicuous, and in sans serif style font.

**8.2.1** In warning statements, the word "**WARNING**" shall not be less than 0.2 in. (5 mm) high and the remainder of the text shall be in letters not less than 0.1 in. (2.5 mm) high except as specified.

**8.2.2** The warnings shall include the following exactly as stated below:

### A WARNING

Never leave child unattended. Always keep child in view while in walker.

8.2.3 Additional warnings shall address the following:

8.2.3.1 Use only on flat surfaces free of objects that could cause the walker to tip over.

8.2.3.2 To avoid burns, keep the child away from hot liquids, ranges, radiators, space heaters, fireplaces, etc.

8.2.3.3 If the walker is equipped with a parking brake, a warning statement shall address the following:

WARNING: Parking brake use does not totally prevent walker movement. Always keep child in view when in the walker, even when using the parking brakes.

8.2.4 Each walker shall be labeled with a separate stairs warning visible to the consumer when placing the child in the walker.

**8.2.4.1** In the stairs warning, the safety alert symbol " $\triangle$ " and the word "WARNING" shall not be less than 0.2 in. (5 mm) high and shall be black lettering on orange background surrounded by a black border. The remainder of the text shall be characters whose upper case shall be at least 0.1 in. (2.5 mm) high and shall be black lettering on white background.

8.2.4.2 The stairs warning shall be stated exactly as follows:

**▲ WARNING-STAIR HAZARD** 

Avoid serious injury or death

Block stairs/steps securely before using walker even when using parking brake

1. The statement "even when using parking brake" applies only to walkers equipped with a parking brake.

### 9. Instructional Literature

**9.1** Instructions must be provided with the walker, and shall be easy to read and understand. Assembly, maintenance, cleaning, operating, folding instructions, and warnings, where applicable, must be included.

9.1.1 The instructions shall include the following:

Read all instructions before assembly and use of the walker. Keep instructions for future use.

### 9.2 Warning Statements with the Instructional Literature:

**9.2.1** In warning statements located in the instructional literature, the letters of the word "WARNING" shall not be less than 0.2 in. (5 mm) high and the remainder of the text shall be in letters not less than 0.1 in. (2.5 mm) high.

9.2.2 If the unit is designed with a restraint, the instructions must advise that the restraint system be used.

**9.2.3** The instructions must indicate the manufacturer's recommended height, weight, or age, or combination thereof, of the child for which the walker is intended. If the walker is not intended for use by a child who can already walk unassisted, the instructions shall so state this limitation.

9.2.4 The instructions shall contain warning statements which address the following:

- 1. Do not use the walker if it is damaged or broken.
- 2. Do not use until baby can sit up by itself.
- 3. Address the following if the walker uses friction devices to pass the stair test. Clean (friction components) regularly to maintain stopping performance.

9.2.5 The instructions must include all warnings in 8.2.

# 10. Keywords

10.1 infant walker

# APPENDIX (Nonmandatory Information)

# **X1. RATIONALE**

**X1.1** The 8 lb falling weight is based on the horizontal force generated when ten different children were tested in walkers. The children ranged in age from 6 ½ to 11 months and in weight from 15 to 23 lb. The children were placed in walkers on several different floor surfaces and the force they generated to move the walker was measured. The highest measured force out of approximately 125 readings was 7.5 lb.

**X1.2** The use of the falling weight simulates a child in a walker approaching a step at approximately 4 ft/s (for the forward and rearward directions) or 2 ft/s (for the sideward direction). It assumes the walker's weight is 8 lb, the child's weight is 17 lb (or 28 lb), and the walker has normal caster wheels with normal rolling friction. By varying distance *d* the desired number of ft/s can be achieved.

**X1.3** The 4 ft/s is based on the test results of seven different children in walkers. The maximum speed attained was 4.02 ft/s. It should be noted that the children were selected because they were judged to be very active in a walker. Additionally, top speeds were sustained for only very brief moments under ideal conditions, that is, smooth floors with plenty of space to get up speed.

X1.4 The test is performed at both ends of the weight range for children who use walkers. The CAMI Infant Dummy Mark II represents the 50th percentile weight of 6 to 8 month old children. The 28 lb CAMI Infant Dummy (CAMI with weighted vest) represents the 95th percentile weight of 12 to 15 month old children.

**X1.5** The 17 lb weight in the tipover test simulates a child leaning forward or sideways over the edge of the occupant seating area. Seventeen pounds represents the upper body weight of children in the 12 to 15 month age range (17 lb = % of 28 lb, the 95th percentile weight of 12 to 15 month old children.)

**X1.6** The tipover sequence is not included in the rearward facing tests since the walker seat back prevents a child from leaning backward in a walker to any significant degree.

**X1.7** The use of a 36 in. opening on the test platform is based on a CPSC study of walker stair/step incidents in which approximately 80 % of the openings the walkers passed through prior to going over steps were 36 in. or less.

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X1.8 Sections 6.2.3 and 7.1.3— This test is to address entrapment in the leg openings. Leg openings are evaluated after application of a 25lbf force to the small head probe. This is the same force used in evaluating leg openings in passive restraint systems in high chairs, entrapment in non-full-size crib/play yard attachments, entrapment in shelves in changing tables, and for evaluating mattress support systems in full-size cribs and non-full-size cribs/play yards. Users of these products are of similar developmental stage to users of infant walkers.

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# UNITED STATES DISTRICT COURT FOR THE DISTRICT OF COLUMBIA

AMERICAN SOCIETY FOR TESTING AND MATERIALS d/b/a/ ASTM INTERNATIONAL;	
NATIONAL FIRE PROTECTION ASSOCIATION, INC.; and	
AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS,	Case No. 1:13-cv-01215-TSC
Plaintiffs/ Counter-Defendants,	
v.	
PUBLIC.RESOURCE.ORG, INC.,	
Defendant/ Counter-Plaintiff.	

# DECLARATION OF JAMES T. PAULEY IN SUPPORT OF PLAINTIFFS' MOTION FOR SUMMARY JUDGMENT

I, James T. Pauley, declare as follows:

1. I am the President and Chief Executive Officer of the National Fire Protection

Association ("NFPA"). I am generally responsible for the management, direction and

administration of NFPA and its activities including its standards development activities. I have

held this position since July 1, 2014. The following facts are based upon my own personal

knowledge, and if called upon to do so, I could and would testify competently thereto.

# **Background**

2. I am a native of Kentucky, and I have a degree in electrical engineering from the University of Kentucky.

3. Prior to my employment with NFPA, I worked in the electrical industry for nearly 30 years, beginning in 1985. I began my career as an engineer for Square D, an electrical equipment manufacturer, and then worked for Schneider Electric, an electrical distribution and management company, after it acquired Square D in 1991. My responsibilities at Schneider Electric included product development and marketing, industry standards, and global standards strategy. In 2001, I became a vice president of industry standards and government relations at Schneider Electric. In 2011, I became senior vice president for external affairs and government relations at until being named NFPA's president in 2014.

4. NFPA is a nonprofit organization, based in Quincy, Massachusetts, devoted to eliminating death, injury, and property and economic loss due to fire, electrical, and related hazards. NFPA was founded in 1896, and has continuously developed standards since that time. The association delivers information and knowledge through more than 300 consensus codes and standards, research, training, education, outreach and advocacy. NFPA's membership totals more than 65,000 individuals throughout the world.

5. Standards development is NFPA's principal activity and serves to further NFPA's mission of reducing the risk of loss from fire, electrical, and related hazards. NFPA develops standards based on the best available research and input from a wide variety of stakeholders. These standards provide guidance, instructions, and best practices to prevent the occurrence of disasters, manage their impact, and protect human life and property.

6. NFPA has continuously asserted copyright in its standards and made copies of its standards available for sale to the public since it first began publishing standards. The revenue

NFPA has obtained from the sale of its copyrighted standards has been NFPA's primary means of financial support for many decades.

7. NFPA's flagship standard is NFPA 70, the National Electrical Code ("NEC"). The first edition of the NEC was published in 1897. NFPA currently releases a new edition of the NEC on a three-year cycle. The current edition of the NEC is the 2014 edition, which is over 900 pages long. The prior edition was the 2011 edition.

8. The NEC addresses the installation of electrical conductors, equipment, and raceways; signaling and communications conductors, equipment, and raceways; and optical fiber cables and raceways in commercial, residential, and industrial occupancies. The NEC is the world's leading standard for electrical safety and provides the benchmark for safe electrical design, installation, and inspection to protect people and property from electrical hazards.

9. Additional NFPA standards include NFPA 101, the Life Safety Code. The Life Safety Code is the most widely used standard for building construction, protection, and occupancy features that minimize the effects of fire and related hazards on human life. The Life Safety Code includes provisions for building egress, fire protection features, sprinkler systems, alarms, emergency lighting, smoke barriers, and special hazard protection.

10. Many NFPA standards are incorporated by reference in federal and state laws and regulations. NFPA is aware that its standards are frequently incorporated by reference, but NFPA does not develop any standards solely for that purpose.

11. NFPA develops new standards based on a determination that developing a standard in a particular area would serve NFPA's mission of reducing the risk of loss from fire and related hazards. NFPA does not consider whether the standard will generate revenue when deciding whether to develop the standard.

12. All NFPA standards have a range of applications and uses even if they are not incorporated by reference in government laws or regulations. For example, the nationwide use of the NEC by builders and electrical manufacturers ensures that consumers may travel throughout the United States with the expectation that their electrical appliances can be plugged in and will operate safely and effectively. Additionally, widespread use of the NEC and the Life Safety Code provide benchmark safety guidance that can be relied on by individuals, companies, and insurers, among others.

13. The primary users of NFPA standards are professionals and tradespeople who use these standards in the course of their business, such as electricians, architects, and electrical equipment manufacturers. NFPA makes its standards available, both for free viewing and for sale, through a variety of channels, including through its website, through a mail-order catalog distributed to NFPA members, and through various retail outlets.

# NFPA's Process of Developing Voluntary Consensus Standards

14. Private-sector standards development in the United States is generally coordinated and accredited by the American National Standards Institute ("ANSI"). ANSI is a nonprofit membership organization that facilitates the development of private sector standards and promotes their integrity by accrediting standards development organizations ("SDOs") whose procedures comply with ANSI's Essential Requirements. I am familiar with ANSI requirements, having served as chair of the ANSI Board of Directors from January 2012 through May 2014.

15. To achieve ANSI accreditation, an SDO's standards development committees must contain balanced membership, taking into account the views of a variety of groups including technical experts on the subject matter of the standard, consumer representatives, government representatives, and industry representatives. ANSI accreditation also requires that

the SDO maintain open proceedings; provide public notice of standards development activity; allow opportunity for public comment; give consideration and response to public comments; and provide an opportunity to appeal committee decisions. Standards that are developed in accordance with ANSI requirements are known as voluntary consensus standards.

16. ANSI periodically audits all its accredited developers to verify that they are following their ANSI approved procedures. NFPA is classified as an Audited Designator by ANSI because it submits to more in-depth ANSI auditing of its standards process. This allows NFPA to designate its standards as "American National Standards" (ANSs) when they complete the NFPA process. All NFPA standards carry the ANS designation and are revised frequently to remain current with state-of-the-art technology developments.

17. I have been familiar with NFPA standards and the NFPA standards development process for many years, including before I became President of NFPA. From 2000 to 2013, I served on NFPA's Standards Council, and I served as Chair of the Standards Council from 2008 to 2013. The Standards Council oversees NFPA's standards development activities, administers the rules and regulations, and acts as an appeals body.

18. NFPA's rigorous and open standards development process requires NFPA to expend substantial resources on standards development. In addition to the time contributed by the thousands of volunteers who participate in NFPA standards development, NFPA pays for salary and benefits for its own administrative, editorial, and expert staff, office space, meeting facilities for the more than 250 Technical Committees who participate in NFPA standards development processes, outreach and education efforts, information technology, and other costs.

19. Each NFPA standard goes through two full rounds of public and committee input, comments, review and drafts before being finalized.

20. NFPA is continuously investing in improvements to its standards development process. For example, NFPA has recently spent significant sums to build a computerized interface that allows for the online development and revision of its standards. NFPA has spent more than \$2.9 million on this system over the past four years.

21. NFPA has also expended resources to increase the participation of underrepresented groups on its Technical Committees, including by creating an Enforcer Funding Program to raise the percentage of government enforcement officials on the Committees by reimbursing these officials for the majority of their travel costs and other costs of Committee membership.

22. NFPA's standards are state of the art. NFPA systematically and regularly revises and updates its standards. The most used NFPA standards, including the NEC, are revised on a three-year cycle in order to keep pace with changes in technology and design, and advances in safety research and understanding.

23. The standards that emerge from this process are sophisticated and complex technical works that provide unique guidance and best practices covering a wide range of topics. These works reflect creative input and decisions from all of the many participants in the standards development process.

24. NFPA's standards development process incorporates significant creative input from three primary groups of participants. These include (i) members of the public who provide input and comment; (ii) the members of the Technical Committees who consider and vote on proposed changes to the standards; and (iii) the NFPA staff who assist and advise the Technical Committees and who draft and finalize the wording of the actual document that, through the balloting and voting process, becomes the standard. 25. NFPA publishes its standards with copyright notices that alert the public, including the people who participated in the standards development process, that the copyright is owned by NFPA.

26. NFPA is not aware of any other person who claims to have any copyright interest in NFPA standards.

27. Members of the public participate in NFPA's standards development process by submitting input, including proposed changes to NFPA standards and comments on proposed changes. It is NFPA policy that all persons who submit public input must assign all rights, including copyright, in their contributions to NFPA. NFPA does not accept public input without a signed copyright assignment, which is printed on the standard forms by which members of the public submit input.

28. In my experience, members of the public who make contributions to the standards development process understand and intend that NFPA will own the copyright in their contributions and in the standards. I have never heard any contributor suggest that NFPA did not own the copyright in NFPA standards or that the contributors have any rights in NFPA standards.

29. Prior to my employment with NFPA, and during the time I was employed in the electrical manufacturing industry, I personally submitted proposals and comments on NFPA standards. For example, I submitted several proposals and comments for the 2011 NEC, with specific suggestions for revisions to the wording of various provisions of the NEC. The Technical Committees accepted some of my proposals and comments, and they were incorporated into the final standards..

30. Like all members of the public who submit input, I submitted these comments and proposals on the standard NFPA forms for such submissions. As part of submitting the forms, I

expressly agreed that I assigned all and full copyrights in my contributions to NFPA. I understood and expressly intended that NFPA would own the copyright both in my contribution and in the final standard. True and correct copies of some of the proposals and comments that I submitted for the 2011 NEC, including my signed assignment of copyright in my contributions to NFPA, are attached hereto as Exhibit A.

31. As I have explained above, many other members of the public also have submitted proposals and comments for NFPA standards, and they, too, have executed copyright assignments relating to their contributions. I have attached hereto as Exhibit B a sampling of true and correct copies of proposals and comments submitted by members of the public for the 2014 NEC, including their signed assignments of copyright in their contributions, are attached hereto as Exhibit B.

32. The members of NFPA Technical Committees also contribute to NFPA's standards development process. The Technical Committees are the principal consensus bodies responsible for the development and revision of NFPA standards.

33. The Technical Committees meet to consider proposals submitted by the public, and they may also suggest their own revisions to the standards. The Committees discuss and reach consensus on which changes should be made. For a large standards such as the NEC, there are multiple Technical Committees. There is a Technical Correlating Committee that oversees the overall NEC development process, and there are several Technical Committees known as Code-Making Panels that are responsible for particular sections of the NEC.

34. It is NFPA policy that anyone who wishes to become a Technical Committee member submits an application on NFPA's Committee Application form, including by signing an assignment of copyright to NFPA. Attached hereto as Exhibit C is a true and correct copy of

the NFPA Technical Committee Application form. The Application contains the following language, which has remained unchanged in substance for many years:

I agree that any material that I author, either individually or with others, in connection with work performed as a member of an NFPA Technical Committee shall be considered to be works made for hire for the NFPA. To the extent that I retain any rights in copyright as to such material, or as to any other material authored by me that I submit for the use of an NFPA Technical Committee in the drafting of an NFPA code, standard or other NFPA document, I hereby grant and assign all and full rights in copyright to the NFPA. I further agree and acknowledge that I acquire no rights in any publication of the NFPA and that copyright and all rights in materials produced by NFPA Technical Committees are owned by the NFPA and that the NFPA may register copyright in its own name.

35. Before being employed by NFPA, I served on a number of NFPA Technical Committees, including, for example, the Code-Making Panel No. 2 for the 2011 and 2014 editions of the NEC. Each time I applied to be a member of a Technical Committee, I submitted a Committee Application form in which I signed the copyright assignment containing the language quoted in paragraph 29 of this Declaration. It has for many years been NFPA's policy and practice that all members of NFPA Technical Committees execute such copyright assignments.

36. In my work on NFPA Technical Committees, I understood, agreed, and expressed the intention that NFPA would own the copyright in the final standards, consistently with the Committee Application form I had submitted.

37. In my experience participating on the Technical Committees, I understood that all members of the Committees shared the understanding and expressed the common intention that NFPA would own the copyright in the final standard. I have frequently heard other Technical Committee members refer to NFPA's copyright ownership of NFPA standards. I have never heard any member of a NFPA Technical Committee suggest that NFPA does not own the

copyright in NFPA standards or that the Technical Committee members retain any rights in their contributions to the standards.

38. NFPA staff also participate in NFPA's standards development process in the course of their employment. NFPA technical staff assist and advise the Technical Committees, and NFPA technical and editorial staff revise and finalize the wording of the actual document that becomes the standard.

39. There is an NFPA staff liaison assigned to every NFPA Technical Committee. Each staff liaison has technical expertise in the appropriate field, and the staff liaisons provide information and advice to the Committee during Committee meetings.

40. The staff liaisons also record the decisions made at the Committee meetings about revisions to NFPA staff liaisons work together with the Committees to craft appropriate wording in the draft of the standard that accurately captures the intent and purpose of Committee decisions. The technical staff are also responsible for ensuring that revisions to the standard are drafted in a way that maintains technical and editorial consistency across the different sections of the standard.

41. After Technical Committee meetings, the technical staff work with NFPA editorial staff to finalize the language of the draft standard before submitting it for balloting by the Technical Committees. Every revision and modification in the text of an NFPA standard goes through multiple levels of review and revision by NFPA technical and editorial staff.

42. NFPA invests significant resources in the development of each new edition of the NEC. For example, the development process of the 2017 NEC is currently ongoing. The preparation of the first draft report involved consideration of over 4,000 proposals from the public. A total of 485 Technical Committee members on 19 Code-Making Panels, who were

supported by at least 45 NFPA staff members, held concurrent, multi-day committee meetings for a total of 75 meeting days over a two-week period. The first draft was finalized by a four-day meeting of the Technical Correlating Committee, assisted by three NFPA staff members. The preparation of the second draft report, which is ongoing now, has so far involved consideration of over 1,500 public comments, and a large number of Committee meetings over a two-week period, assisted by at least 19 NFPA staff members. There will be two more multi-day Technical Correlating Committee meetings prior to the issuance of the NEC. In addition, there have been numerous conference calls, online seminars, and other interactions among Committee Members and NFPA staff.

43. The final versions of the standard also go through a rigorous quality control process by NFPA staff, to ensure that the final document is as accurate as possible. This painstaking review is costly, but NFPA commits the resources because technical accuracy of NFPA standards is essential for NFPA's mission of promoting public safety.

# How NFPA Funds Its Standards Development

44. NFPA sells its standards at reasonable cost and in a variety of formats. For example, the 2014 edition of the NEC, which is 910 pages long, is offered for purchase as a PDF, an eBook, or in softcover, looseleaf, or spiralbound versions. The price for the NEC ranges from \$95 to \$105, depending on the format in which it is purchased. NFPA's other standards are sold at prices ranging from \$39 to \$100, depending on the length of the standard and other factors. NFPA also makes several digital subscription services available, so interested purchasers can obtain unlimited digital access to a variety of NFPA standards.

45. In addition, NFPA is committed to providing the full text of NFPA standards available for free viewing on its website. For more than a decade, NFPA has provided such

access to its standards, in read-only format, and all NFPA standards can currently be accessed on NFPA's website at <u>www.nfpa.org/codes-and-standards/free-access</u>. This access allows any member of the public to review NFPA standards in full and without cost. NFPA also encourages jurisdictions that incorporate its standards by reference to link their websites to its free, online version of the standards, and provides a widget that easily enables such access.

46. NFPA funds its standards development activities primarily with the revenue obtained from sales of its copyrighted standards. For example, in 2014 NFPA's publications sales accounted for over 70% of NFPA's total operating revenues. The overwhelming majority of that publications revenue comes from the sale of codes and standards.

47. NFPA would not be able to maintain its existing voluntary consensus standards development and revision processes at current levels if there were a significant reduction in the revenue it obtains from the sale of publications.

48. If NFPA were unable to maintain its current level of standards development and revision activities, the standards would not keep up with technological advancements to address fire, electrical and related hazards nor would they reflect the most current knowledge and experience of the experts who participate in the process. This failure would result in a lower level of overall public safety.

49. In NFPA's experience, to preserve the revenue from sales of publications, NFPA must be able to assert copyright in its standards to prevent unauthorized copying of NFPA standards, which threaten to substantially undermine NFPA's sales.

50. NFPA has attempted for years to develop alternative sources of revenue but has been unable to identify any such revenue sources that would come close to replacing the revenue from sales of NFPA standards.

51. If NFPA were to lose copyright protection of its standards and the related revenue, NFPA would have to significantly limit its activities. Such limitations could include ceasing to develop standards that, while important, do not necessarily generate sufficient revenue to cover their costs including, for example, personal protective equipment standards that help keep fire fighter personnel safe.

# Harm to NFPA From Public.Resource.Org's Unauthorized Appropriation and Use of NFPA's Copyrighted Codes and Trademarks

52. The activity of Public.Resource.Org, in posting unauthorized copies of NFPA standards on the internet, threatens NFPA's ability to generate revenue from these standards and its ability to continue to fund the development of new and updated standards.

53. In addition, Public.Resource.Org's posting of unauthorized copies that have not gone through NFPA's quality control process threatens the reputation for careful and quality publications that NFPA has built up for over a century and undermines the goodwill associated with NFPA's name.

54. I understand that Public.Resource.Org converted NFPA standards to html format and posted the html versions on the internet. The conversion process inevitably resulted in errors. For example, I am aware that the html version of the 2011 version of the NEC that was posted to Public.Resource.Org's website contains many errors. These include many obvious typographical errors, but they also include errors that distort the meaning of the standard. Some of those errors are:

> a. Article 310.10(F) of the 2011 NEC addresses conductors used in direct-burial applications, and states: "Cables rated above 2000 volts shall be shielded." This requirement that high-voltage cables in direct-burial applications be shielded is important to prevent damage to the cables and a resulting risk of electrical shock.

This language, however, is completely omitted from the html version that was posted on Public.Resource.Org's website.

- b. Article 424.59 of the 2011 NEC states that "heaters installed within 1.2m (4 ft) of the outlet of an air-moving device … may require turning vanes, pressure plates, or other devices on the inlet side of the duct heater to ensure an even distribution of air over the face of the heater." In Public.Resource.Org's html version however, the "m"—representing meters—is incorrectly rendered as "in"—which represents inches. In other words, the Public.Resource.Org version says that the requirement is only triggered if a heater is less than 1.2 *inches* from an air-moving device, rather than the correct and much greater distance of 1.2 meters.
- c. Article 430.35(B) of the 2011 NEC states that "motor overload protection shall not be shunted or cut out during the starting period if the motor is automatically started." Inadequate motor overload protection can result in overheating and damage. In Public.Resource.Org's html version, however, this provision incorrectly says that motor overload protection shall not be shunted or cut out during the "stalling period."
- d. A similar error occurs in Article 502.134(b)(5), which identifies requirements for "starting and control equipment for electric-discharge lamps." In Public.Resource.Org's html version, this article erroneously refers to "stalling and control equipment."
- e. Article 517.2 of the 2011 NEC defines "X-Ray Installations, Portable" as "X-ray equipment designed to be hand-carried." In Public.Resource.Org's html version,

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however, this definition erroneously refers to "X-ray equipment designed to be hand-earned."

f. There are many typographical errors in the cross-references in Public.Resource.Org's html version. In order to understand a provision of the NEC that contains a cross-reference, the user must be able to identify and refer to the Article identified in that cross-reference. However, Public.Resource.Org's html version contains many erroneous cross-references, including in Articles 110.14(B)(1), 310.10(E), 410.140, 430.75, 504.70, 645.10(B), 670.3(B), and 680.25(B).

I declare under penalty of perjury under the laws of the United States that the foregoing is true and correct and that this declaration was executed this  $\frac{18}{2}$  day of November 2015 at

Quincy, Massachusetts.

AMES T. PAULEY

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# EXHIBIT A

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# FORM FOR PROPOSALS FOR 2011 NATIONAL ELECTRICAL CODE®

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4. Statement of Problem and Substantiation for Proposal: (Note: State the problem that would be resolved by your recommendation; 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.)

Currently, the provisions in 110.31(A) are both incomplete and somewhat out of place. The language doesn't really have any driving language as to when the requirements might apply.

The following addresses the specific changes:

1) The title is changed to just "electrical vaults" since it is proposed that the section cover more than just the fire resistance rating.

2) Driving language has been added in the main paragraph to indicate that the section applies when a vault is required or specified. Since the NEC doesn't have specific requirements to use a vault (except for Article 450), this appears to be the only way to actually have some application of the language.

3) The section is split into a number of subsections. Item (1) applies to walls and roofs and contains the requirement currently in 110.31(A). Item (2) is added to apply to floors and contains the current provisions in 110.31(A) for floors. Note that the sentence regarding studs and wall board is moved into item (1) since it would not apply to the floor. The reference to "doors" has been taken out of these sections and moved to a new item (3).

4) Item (3) has been added to apply to doors and is taken from 450.43(A).

5) Item (4) has been added to specify the locking requirements for the doors on the vault. These requirements were taken from 450.43(C).

6) Item (5) has been added to make it clear that any vault that is required due to the requirements of Article 450 must be constructed to Article 450 Part III. Although the language in 450 is similar to this proposal, there are requirements for door sills and ventilation that would not be applicable in an equipment/conductor vault. As such, it makes more sense to simply defer to Article 450 where the vault includes a transformer that is required by Article 450 to be in a vault.

7) An exception to the construction requirements is added to allow for 1 hr construction when the vault is protected by a fire suppression system. This exception is taken from 450.42 and 43. If I can reduce a transformer vault to 1 hr by adding fire suppression, having similar permission for a general electrical vault would be acceptable since the transformer fires are likely more severe than what would occur in an equipment room without a transformer.

8) Two new FPNs are added that parallel the existing FPNs in 450.42 and 450.53. Proposed FPN No. 1 is a combined FPN derived from 450.42 FPN 1 and 450.53 FPN. Proposed FPN No. 2 is taken from 450.42 FPN No. 2.

Overall this proposal will improve the usability, completeness and applicability of 110.31(A).

5. Copyright Assignment

(a) X I am the author of the text or other material (such as illustrations, graphs) proposed in this Proposal.

(b) Some or all of the text or other material proposed in this Proposal was not authored by me. Its source is as follows (please identify which material and provide complete information on its source):

I agree that any material that I author, either individually or with others, in connection with work performed by an NFPA Technical Committee shall be considered to be works made for hire for the NFPA. To the extent that I retain any rights in copyright as to such material, or as to any other material authored by me that I submit for the use of an NFPA Technical Committee in the drafting of an NFPA code, standard, or other NFPA document, I hereby grant and assign all and full rights in copyright to the NFPA. I further agree and acknowledge that I acquire no rights in any publication of the NFPA and that copyright and all rights in materials produced by NFPA Technical Committees are owned by the NFPA and that the NFPA may register copyright in its own name.

Signature (Required)

J: Pauling

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INSTRUCTIONS — PLEASE Type or print legibly in black ink. Use a separate c each proposal to a SINGLE section. All proposals <b>5 p.m., EST, Friday, November 7, 2008</b> , to be con Electrical Code. Proposals received after 5:00 p.m., will be returned to the submitter. If supplementary : etc.) is included, you may be required to submit suf alternates of the technical committee. For technical assistance, please call NFPA at 1	READ CAREFULLY opy for each proposal. Li must be received by NF nsidered for the 2011 Nat , EST, Friday, November material (photographs, di fficient copies for all men I-800-344-3555.	mit PA by ional 7, 2008, agrams, reports, abers and	FOR OFFICE USE ONLY         Log #:       3753         Date Rec'd:         NOV 0 © 2008
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Date November 7, 2008 Name Jim Pauley	<u>.</u>	Tel. No. 859-	245-7923
Company Square D Company/Schneider Electric		Email jim.pauley@	Jus.schneider-electric.com
Street Address 1601 Mercer Road	CityLexington	_ State	<u>KY</u> <b>Zip</b> 40511
Please indicate organization represented (if any)None			
1. Section/Paragraph 225 Part II and 225.30			
2. Proposal Recommends (check one):	new text	revised text	deleted text
3. Proposal (include proposed new or revised wording, legislative format; i.e., use underscore to denote wording to b (deleted wording).]	or identification of wordin be inserted ( <u>inserted wording</u>	g to be deleted): [Note ) and strike-through to	: Proposed text should be in denote wording to be deleted
Revise the title of Part II to Article 225 to read as f	ollows:		
II More than One Building or Other Structure	-Buildings or Other Sur	plied by a Feeder(	s) or Branch Circuit(s)
In addition, revise the text of 225.30 to read as she <b>225.30 Number of Supplies.</b> Where more than a single management, each additional building or ot side of the <u>a</u> service disconnecting means shall be 225.30(A) through (E). For the purpose of this sec	own: <u>her structure</u> that is sen supplied by only one tion, a multiwire branch	structure <del>is on the c</del> ved by a branch cir eeder or branch cir i circuit shall be cor	came property and under reuit or feeder on the load reuit unless permitted in nsidered a single circuit.
4. Statement of Problem and Substantiation for Propose specific reason for your Proposal, including copies of tests, re publication.)	al: (Note: State the problem esearch papers, fire experien	that would be resolved ce, etc. If more than 20	by your recommendation; give the 0 words, it may be abstracted for
The overall intent of Part II of Article 225 need amount of time being spent arguing over whet structure or from something else. It would app require that we have appropriate disconnecting or feeder. If that is the case, why not simply re	is to be clarified. The p her or not a building is bear that the ultimate in g means at any building evise the language to n	resent wording is la supplied from anot tent of these provis g or structure that is nake that clear.	eading to a significant her building or from a sions in Article 225 is to s supplied by a branch circuit
For example, take a building that has the servi determined by the AHJ to not be at the buildin are an outside feeder. We would expect that t	ice disconnect located g itself). The conducto he provisions of Part II	away from the build rs from the service apply to that feede	ling by some distance (i.e. disconnect to the building r when it gets to the building.
The problem is with the present wording that s a pad mounted single switchboard section, the switchboard is a "structure". I believe that it or structure.	ays "each additional be only way you can arg nly adds confusion to s	uilding or structure" ue that Part II of 22 ay that a piece of e	. If the service disconnect is 5 applies is to argue that the lectrical equipment is a
The proposed revision to both the Part II title a building supplied by a feeder or branch circuit,	and to 225.30 would sin you have to comply w	nply the text to simp th Part II. Note that	oly say that if you have a It the proposed title for Part II

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is identical to the title used by CMP 5 for 250.32. The use of the same terminology in both parts of the code would greatly benefit users in applying the proper rules.

The suggested revision to 225.30 that changes "... of the service disconnecting..." to ... of a service disconnecting... is to simply recognize that there may be more than one service disconnecting means on the premises.

5. Copyright Assignment

(a) I am the author of the text or other material (such as illustrations, graphs) proposed in this Proposal.

(b) Some or all of the text or other material proposed in this Proposal was not authored by me. Its source is as follows (please identify which material and provide complete information on its source):

I agree that any material that I author, either individually or with others, in connection with work performed by an NFPA Technical Committee shall be considered to be works made for hire for the NFPA. To the extent that I retain any rights in copyright as to such material, or as to any other material authored by me that I submit for the use of an NFPA Technical Committee in the drafting of an NFPA code, standard, or other NFPA document, I hereby grant and assign all and full rights in copyright to the NFPA. I further agree and acknowledge that I acquire no rights in any publication of the NFPA and that copyright and all rights in materials produced by NFPA Technical Committees are owned by the NFPA and that the NFPA may register copyright in its own name.

Signature (Required)

Fauler

PLEASE USE SEPARATE FORM FOR EACH PROPOSAL • email: <u>proposals_comments@nfpa.org</u> • NFPA Fax: (617) 770-3500 Mail to: Secretary, Standards Council, National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471

11/6/2008

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Date   November 7, 2008   Name   Jim Pauley   Tel. No.	859-245-7923
Company Square D Company/Schneider Electric Email ji	m.pauley@us.schneider-electric.com
Street Address 1601 Mercer Road City Lexington State	<u>KY</u> Zip <u>40511</u>
Please indicate organization represented (if any) None	
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2. Proposal Recommends (check one):	d text deleted text
5. Proposal (include proposed new or revised wording, or identification of wording to be deter legislative format; i.e., use underscore to denote wording to be inserted ( <u>inserted wording</u> ) and strike-to ( <u>deleted wording</u> ).]	hrough to denote wording to be deleted
<ul> <li>(B) Conductor Characteristics. The paralleled conductors in each phase, polarity, er equipment grounding conductor, or equipment bonding jumper shall comply with</li> <li>(F) Equipment Bonding Jumpers. Where parallel equipment bonding jumpers are sized and installed in accordance with 250.102.</li> <li>4. Statement of Problem and Substantiation for Proposal: (Note: State the problem that would be specific reason for your Proposal, including copies of tests, research papers, fire experience, etc. If momentian accordance with parallel papers.</li> </ul>	neutral, grounded circuit conductor, all of the following: installed in raceways, they shall be e resolved by your recommendation; give the re than 200 words, it may be abstracted for
During a recent review of a set of plans, it became evident that we do not address to bonding jumpers in 310.4. Take the example of a transformer (separately derived s switchboard with multiple paralleled conduits. The conductor that joins the metallic switchboard is actually an equipment bonding jumper and not an equipment ground sizing requirements for the equipment bonding jumper in this case and makes it clear the parallel conduits and is sized based on the conductors in the conduit.	he issue of paralleled equipment ystem) that is supplying a large parts of the transformer and the ing conductor. 250.102(C) has the ar that the EBJ has to be installed in

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I agree that any material that I author, either individually or with others, in connection with work performed by an NFPA Technical Committee shall be considered to be works made for hire for the NFPA. To the extent that I retain any rights in copyright as to such material, or as to any other material authored by me that I submit for the use of an NFPA Technical Committee in the drafting of an NFPA code, standard, or other NFPA document, I hereby grant and assign all and full rights in copyright to the NFPA. I further agree and acknowledge that I acquire no rights in any publication of the NFPA and that copyright and all rights in materials produced by NFPA Technical Committees are owned by the NFPA and that the NFPA may register copyright in its own name.

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11/6/2008

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# FORM FOR PROPOSALS FOR 2011 NATIONAL ELECTRICAL CODE®

	INSTRUCTIONS — PLEASE READ CAREFULLY         Type or print legibly 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., EST, Friday, November 7, 2008, to be considered for the 2011 National         Electrical Code. Proposals received after 5:00 p.m., EST, Friday, November 7, 2008,         will be returned to the submitter. 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.         For technical assistance, please call NFPA at 1-800-344-3555.         Please indicate in which format you wish to receive your ROP/ROC       electronic       paper       paper       download         Note: If choosing the download option, you must view the ROP/ROC from our website; no copy will be sent to you.)       for you.)
Dat	te November 7, 2008 Name Jim Pauley Tel. No. 859-245-7923
Co	npany Square D Company/Schneider Electric Email jim.pauley@us.schneider-electric.com
Str	eet Address 1601 Mercer Road City Lexington State KY Zip 40514
Pie	ase indicate organization represented (if any) None
1.	Section/Paragraph 517.13(B)
2.	Proposal Recommends (check one): new text deleted text
3. legi ( <del>del</del>	Proposal (include proposed new or revised wording, or identification of wording to be deleted): [Note: Proposed text should be in slative format; i.e., use underscore to denote wording to be inserted (inserted wording) and strike-through to denote wording to be deleted eted wording).]
	Revise 517.13(B) to read as follows (B) Insulated Equipment Grounding Conductor. (1) General. The following shall be directly connected to an insulated copper equipment grounding conductor that is installed in metal raceways or as a part of listed cables having a metallic armor or sheath assembly with the branch- circuit conductors supplying these receptacles or fixed equipment.
	(1) The grounding terminals of all receptacles.
	(2) Metal boxes and enclosures containing receptacles.
	(3) All non-current carrying conductive surfaces of fixed electrical equipment likely to become energized that are subject to personal contact, operating at over 100 volts.
<u> </u>    	Exception No. 1 to (1): The equipment grounding terminal of a receptacle shall be permitted to be connected to an insulated equipment bonding jumper that extends from a metal box or enclosure that is connected to an insulated equipment grounding conductor.
	Exception No. 2 to (2): Metal boxes and enclosures containing an isolated ground receptacle(s) as permitted by 250.146(D)
l I	Exception No. 3 to (3): Metal faceplates shall be permitted to be connected to the equipment grounding conductor by means of a metal mounting screw(s) securing the faceplate to a grounded outlet box or grounded wiring device.
E F E	Exception No. 4 to (3): Luminaires more than 2.3 m (71/2 ft) above the floor and switches located outside of the batient care vicinity shall be permitted to be connected to an equipment grounding return path complying with 517.13(A).
(	2) <u>Sizing.</u> Equipment grounding conductors and equipment bonding jumpers shall be sized in accordance with Table 250.122.

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200-

4. Statement of Problem and Substantiation for Proposal: (Note: State the problem that would be resolved by your recommendation; 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.)

The objective of this proposal is to rearrange the text in 517.13(B) for usability and to clear up some confusion about whether or not the metal box is required to be directly connected to the insulated equipment grounding conductor.

The revisions rearrange the paragraph to create a direct first sentence to state what must be connected to the copper equipment grounding conductor. The existing items in the paragraph are now numbered and a new item (2) is added to specifically state that the insulated equipment grounding conductor must be connected to the metal box that contains the receptacle. This arrangement is the only way to get true "redundant" paths. Today, many of these installations are being made by taking the insulated equipment grounding conductor to the receptacle without connection to the box.

Two new exceptions are added that will recognize some additional situations. Exception No. 1 would allow a bonding jumper to be installed from the box to the receptacle. This would result in the insulated equipment grounding conductor being terminated to the box and then a bonding jumper to go from the box to the receptacle.

Exception No. 2 is to recognize that there are situations where isolated ground receptacles may be installed and this exception would allow you to omit the connection to the box and take the conductor directly to the receptacle.

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Signature (Required)

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11/6/2008

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# EXHIBIT B

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# FORM FOR PROPOSAL FOR 2014 NATIONAL ELECTRICAL CODE®

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For technical assistance, please call	NFPA at 1-800-344-3555.		
Please indicate in which format (Note: If choosing the download	you wish to receive your ROP/ROC option, you must view the ROP/ROC free	electronic pm our website; no copy	paper D download will be sent to you.)
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***If you wish to receive a hard copy, a street add	tress MUST be provided. Deliveries c	annot be made to PO	boxes.
Please indicate organization represented (if any)	) N/A	a ba a bha bha bha a bha a bha bha ba bha ba ba ba ba ba bha bh	ad ad Ana (d da 1911) a fan a da an da anna an
1. Section/Paragraph 725.179 (F)			
2. Proposal Recommends (check one):	new text	revised text	deleted text
3. Proposal (include proposed new or revised legislative format; i.e., use underscore to denote we (deleted wording).]	wording, or identification of wording ording to be inserted ( <u>inserted wording</u>	g to be deleted): [Note ) and strike-through to	: Proposed text should be in denote wording to be deleted
Revise 725.179 (F) to read as follows and an	add new Informational Note	and the second s	
(F) Circuit Integrity (CI) Cable or Electrica Cables used for survivability of critical circuit specified in 725.154(A), (B), (D)(1), and (E), CI". Cables that are part of a listed electrical of (1) Circuit Integrity (CI) cables speci shall have the additional classification an Electrical Circuit Protective System	al Circuit Protective System. s shall be listed as circuit integrity and used for circuit integrity, shall ircuit protective system shall be co fied in 725.179(A). (B). (D)(1), an n using the suffix "-Cl". These cab m.	(CI) eable. Cables have the additional of nsidered to meet the d (E) and used for su les shall not be insta	elassification using the suffix "- requirements of survivability- rvivability of critical circuits fled in a raceway unless part of
(2) <u>Electrical Circuit Protective System</u> an Electrical Circuit Protective System	<u>m meeting the requirements for su</u> <u>m shall be identified with the syste</u>	rvivability of critical m number printed or	circuits. Cables that are part of the outer surface.
Informational Note No. 2: UL guide informati installation requirements to maintain the fire ra	on for electrical circuit protective s ating.	systems (FHIT) conta	nins information on proper
4. Statement of Problem and Substantiation for specific reason for your Proposal, including copies publication.)	or Proposal: (Note: State the problem of tests, research papers, fire experienc	that would be resolved e, etc. If more than 200	by your recommendation; give the ) words, it may be abstracted for
Substantiation: This proposal separates the two tested as part of an electrical circuit protective attachment) states "CI cable is tested on steel r raceway it is so tested. CI cable that has been t cable options and marking requirements.	o methods of establishing cable sur system. The UL Guide Information ings to simulate installation in free ested in a raceway will be specified	vivability. Cable are n "FHIT- Electrical ( air. If CI cable is in I in the system." Th	either tested as a CI cable or Circuit Protective Systems" (see tended to be installed in a e new text clarifies the two

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I hereby grant and assign to the NFPA all and full rights in copyright in this Proposal and 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. Except to the extent that I do not have authority to make an assignment in materials that I have identified in (b) above, I hereby warrant that I am the author of this Proposal and that I have full power and authority to enter into this assignment.

Signature (Required)

# PLEASE USE SEPARATE FORM FOR EACH PROPOSAL

Mail to: Secretary, Standards Council · National Fire Protection Association 1 Batterymarch Park · Quincy, MA 02169-7471 OR Fax to: (617) 770-3500 OR Email to: <u>proposals_comments@nfpa.org</u> 8/5/2010 Case 1:13-cv-01215-TSC Document 118-8 Filed 11/19/15 Page 28 of 34

# FORM FOR PROPOSAL FOR 2014 NATIONAL ELECTRICAL CODE®

	Type or print legibly in black ink. Use a sepa each proposal to a SINGLE section. All prop 5 p.m., EST, Friday, November 4, 2011, to Electrical Code. Proposals received after 5:00 will be returned to the submitter. If suppleme etc.) is included, you may be required to subr alternates of the technical committee. For technical assistance, please call NFF Please indicate in which format you (Note: If choosing the download opti	EASE READ CAREFULLY arate copy for each proposal. Lim bosals must be received by NFPA be considered for the 2014 Nation 0 p.m., EST, Friday, November 4, antary material (photographs, diag nit sufficient copies for all member PA at 1-800-344-3555.	t by lal 2011, ams, reports, rs and electronic paj pur website; no copy w	FOR OFFICE USE ONLY Log #: $2056$ Date Rec'd: NOV 1 - 2011 per download ill be sent to you.)
Da	te 11/1/2011 Name Ed Briesch		Tel. No.	847 664-3174
Ce	mpany Underwriters Laboratories		Email e	dward.m.briesch@ul.com
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Ple	ase indicate organization represented (if any)		-	
1.	Section/Paragraph 500.8(C)(4)			
2.	Proposal Recommends (check one):	new text	revised text	deleted text
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Case 1:13-cv-01215-TSC Document 118-8 Filed 11/19/15 Page 29 of 34

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IN Type or print legibly each proposal to a SI 5 p.m., EST, Friday Electrical Code. Prop will be returned to th etc.) is included, you alternates of the techn For technical assis	ISTRUCTIONS — PLEA in black ink. Use a separa INGLE section. All propo v, November 4, 2011, to be posals received after 5:00 p e submitter. If supplement may be required to submi nical committee. stance, ptease call NFPA	ASE READ CAREFULI ate copy for each proposa sals must be received by e considered for the 2014 p.m., EST, Friday, Noven tary material (photograph it sufficient copies for all at 1-800-344-3555.	LY I. Limit NFPA by National uber 4, 2011, s, diagrams, reports, members and	FOR OFFICE USE ONLY Log #: 2323 Date Rcc'd:
Please ind (Note: I	icate in which format you v f choosing the download option	vish to receive your ROP/F n, you must view the ROP/RO	tOC 🛛 electronic 🗔 p C from our website; no copy	paper 🔲 download will be sent to you.)
Date Nov. 8. 2010	Name Eric Kench. P.E.		Tel. No.	347-673-6773
<b>Company</b> Kench Engir	neering Consultant		Email	kenchengineeringconsultants@hot mail.com
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Please indicate organizatio	on represented (if any)			
I. Section/Paragraph	NEC 501.15(E)(1)	_	5-7	<b></b>
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(b) Some or follows: (please	all of the text or other m identify which material and	aterial proposed in this d provide complete inform	Proposal was not auther ation on its source)	ored by me. Its source is as
hereby grant and assign to t which this Proposal in this of aterials that I have identified his assignment.	the NFPA all and full rights in or another similar or analogou d in (b) above, I hereby warran	copyright in this Proposal and us form is used. Except to the nt that I am the author of this	d understand that I acquire ( e extent that I do not have a Proposal and that I have fu	no rights in any publication of NFPA nuthority to make an assignment in Il power and authority to enter into
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INSTRUCTIONS — PLJ Type or print legibly. Use a separate copy for each each comment to a SINGLE section. All commer 5 p.m., EDST, Wednesday, October 17, 2012, to Electrical Code. Comments received after 5:00 p. will be returned to the submitter. For technical assistance, please call NFP	EASE READ CAREFULLY a comment. Limit ats must be received by NFPA by be considered for the 2014 Nation m., EDST, Wednesday, October 17 A at 1-800-344-3555.	, .al , 2012,	FOR OFFICE USE ONLY Log #: 776 Date Ree'd: OCT 082012				
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lease indicate organization represented (if any)	Chairman, EPRI Electric Transpor	tation Infrastructure V	Vorking Council's NEC Task Force				
. Section/Paragraph 625.2 [section number base	d on new numbering]						
Comment on Proposal No. (from ROP): 12-52	2		we are also that the second				
. Comment recommends (check one):	new text	revised text	deleted text				
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afined in Article 626. It is proposed that the same defi rticle 100.	inition be added to 625.2 or, altern	atively, that the term	be defined commonly in				
Copyright Assignment							
(a) $\mathbf{X}$ I am the author of the text or other	material (such as illustrations,	graphs) proposed	in the Comment.				
(b) ∐ Some or all of the text or other material (please identify which material and provide of a straight of the straighto	terial proposed in this Commen complete information on its source	it was not authored )	by me. Its source is as follows:				
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Case 1:13-cv-01215-TSC Document 118-8 Filed 11/19/15 Page 31 of 34

# EXHIBIT C

My Committee Application Detrik TSC Document 118-8 Filed 11/19/15 Page 32 of Page 1 of 3

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	APPLICANT PER	SONAL INFO	) .			
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	Dur	igeon				
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	Email: 1000	member@nfpa.p	a			
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	🖾 i hav	e previously appl	ied to this or another NFPA of	ommittee.		
	Please indicate position to membership types.	r which you are a	oplying. See <u>Information She</u>	et for Technical Corr	mittee Applicants fo	r descriptions of
	Principal Member Sel	ect a Member Ca	tegory			
	Category: If applying as an alternate	indicate name of	current principal or principal	annlicant		
				аррлоанк.		
	 (If you are applying as an ا	Organization Rep	resentative" fill out section 3	below.)		
	1. QUALIFICATIO	NS OF APPL	ICANT (SEE SECTI	ON 7 TO ATTA	CH YOUR RE	SUME)
	(limit of 1000 characters p	er question respo	ise)			
	*a, Provide evidence of y *Required	our general kno	wiedge and competence in	the scope (work) of	f the committee:	
		·····				
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	b. vwnat is your specific re!	aconship to one o	r more elements of the scop	e or work of the com/	nittee?	
	2. PUBLIC SECTO	R OFFICIAL	S ONLY			

http://www.nfpa.org/my-profile/my-committee-application-details

NFPA-PR0038518

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	]
b. How do you utilize codes and standards developed by NFPA or other Standard Development Organizations?	
c. Describe additional work experience that may be of value to a technical committee:	
d. What is your educational background?	
e. Have you published any articles or publications related to your industry or related to Codes and Standards?	
3. ORGANIZATION REPRESENTATIVES	
(limit of 1000 characters per question response)	
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AMERICAN SOCIETY FOR TESTING AND MATERIALS d/b/a/ ASTM INTERNATIONAL;	
NATIONAL FIRE PROTECTION ASSOCIATION, INC.; and	
AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS,	Case No. 1:13-cv-01215-TSC
Plaintiffs/ Counter-Defendants,	
V.	
PUBLIC.RESOURCE.ORG, INC.,	
Defendant/ Counter-Plaintiff.	

#### UNITED STATES DISTRICT COURT FOR THE DISTRICT OF COLUMBIA

#### **DECLARATION OF KEVIN REINERTSON**

I, Kevin Reinertson, declare as follows:

1. I am the Deputy Fire Marshal for Riverside County Fire, Office of the Fire Marshal. I previously served, from February, 2006 to May, 2015, as the Division Chief for the California Office of the State Fire Marshal (OSFM). The following facts are based upon my own personal knowledge, and if called upon to do so, I could and would testify competently hereto.

2. I have been personally involved in the standard setting processes of organizations, including the National Fire Protection Association (NFPA) and the International Code Council (ICC), and served as the OSFM representative on working groups and other projects in the development of building and fire safety codes and reports. I am familiar with the lengthy,

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rigorous, and complicated processes that organizations like the NFPA follow to develop standards for various subject matters.

3. The OSFM supports the mission of the California Department of Forestry and Fire Protection by focusing on fire prevention. The OSFM provides support through a wide variety of fire safety responsibilities including: regulating buildings in which people live, congregate, or are confined; by controlling substances and products which may, in and of themselves, or by their misuse, cause injuries, death and destruction by fire; by providing statewide direction for fire prevention within wildland areas; by regulating hazardous liquid pipelines; by reviewing regulations and building standards; and by providing training and education in fire protection methods and responsibilities.

4. As part of this mission, the OSFM's Code Development and Analysis Division reviews all of California's regulations relating to fire and life safety for relevancy, necessity, conflict, duplication, and/or overlap. The division also prepares the OSFM's fire and life safety regulations and building standards for review and adoption by the California Building Standards Commission (CBSC).

5. In preparing regulations and standards for review and adoption by the CBSC, the Code Development and Analysis Division frequently looks to and incorporates into regulations the standards prepared by private codes and standards setting organizations.

6. The OSFM, along with other California state agencies, have incorporated by reference the following codes and standards developed by private standard setting organizations: the International Building Code, the International Fire Code, the International Residential Code, the National Electrical Code, the Uniform Mechanical Code, the Uniform Plumbing Code, and specific NFPA standards as referenced in the above codes (e.g., NFPA 13, NFPA 24 California

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edition, NFPA 72, etc.). The OSFM follows a triennial code adoption cycle to keep the California Building Standards Codes current. Every three years, the OSFM develops an adoption package to incorporate by reference the most recent editions of the privately developed codes and standards along with amendments that pertain specifically to California law.

7. The California Electrical Code incorporates by reference the National Electrical Code, which is prepared by the NFPA. A freely accessible version of the California Electrical Code is available at: <u>http://www.nfpa.org/codes-and-standards/document-information-pages/free-access?mode=view.</u> That link is also provided on the California Building Standards Commission website.

8. Similarly, since 2008, the California Fire Code has incorporated by reference the International Fire Code, which is prepared by the ICC (prior to the International Fire Code, the California Fire Code was based on the adoption by reference of the Uniform Fire Code published jointly by the Western Fire Chiefs Associations and the International Association of Building Officials). A freely accessible version of the California Fire Code is available at: http://www.ecodes.biz/ecodes support/Free Resources/2013California/13Fire/13Fire main.html

9. During my work with the OSFM on the code adoption process, I was aware that NFPA and other private sector standards developers own the copyright on the standards they develop. It was not my view, and nor did I hear others at the OSFM express the view, that the OSFM's code adoptions interfered with the standards developers' copyright interest in any way.

10. I was also aware that NFPA makes the California Electrical Code available to the public both through a freely accessible version on the NFPA website and through making it available for sale in multiple formats.

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11. The OSFM, and more generally the State of California, utilizes the expertise and resources of private sector standard developers such as the NFPA. The standards created by private standard setting organizations allow government agencies like the OSFM to draw on the expertise and resources of private sector standard developers to serve the public interest.

12. Incorporating standards by reference allows the OSFM and the State of California to develop comprehensive regulatory schemes covering several subject matter areas quickly and with limited costs. Moreover, standards created by standard setting organizations reflect the collective experience, knowledge, and judgment of not only government officials, but also industry representatives, practitioners, academics, and other experts. The diversity of viewpoints offered by private standard setting organizations is particularly useful with respect to quickly-evolving industries and technologies, such as those relevant to fire safety and protection.

13. If private standard setting organizations could not develop and create standards, the OSFM and similar government agencies would face significant costs if they were to replace the role of such organizations and create standards themselves. The expense of coordinating, updating, testing, educating government, industry, and the public, and the many other activities private standard setting organizations engage in to keep standards up to date and to comply with their own rigorous procedural requirements, would be very costly for the OSFM, which is currently not funded to handle such tasks.

14. Through the efforts of the codes and standards writing organizations, the OSFM was able to amend and adopt specific regulations in the California Fire Code made by ICC to implement fire safety provisions that reference a current Hydrogen Technologies Code (NFPA 2) produced by NFPA. The OSFM did not have the resources to accomplish the necessary research and testing to timely effectuate new codes and standards for such a complex subject matter such

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as hydrogen fuel technologies. Without the development of these codes and standards, the OSFM would have had to expend significant resources to produce these items on its own. Moreover, it would have taken an unknown length of time to produce such codes and standards, thereby potentially hampering the introduction of new technology (hydrogen fuel cell vehicles). These requirements and standards are being utilized to build hydrogen fueling stations.

I declare under penalty of perjury under the laws of the United States that the foregoing is true and correct.

Executed in Riverside, CA on November 17, 2015

KEVIN REINERTSON

#### UNITED STATES DISTRICT COURT FOR THE DISTRICT OF COLUMBIA

AMERICAN SOCIETY FOR TESTING AND MATERIALS d/b/a/ ASTM INTERNATIONAL;

NATIONAL FIRE PROTECTION ASSOCIATION, INC.; and

AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR-CONDITIONING ENGINEERS, INC.

Plaintiffs,

v.

PUBLIC.RESOURCE.ORG, INC.,

Defendant.

PUBLIC.RESOURCE.ORG, INC.,

Counterclaimant,

v.

AMERICAN SOCIETY FOR TESTING AND MATERIALS d/b/a/ ASTM INTERNATIONAL;

NATIONAL FIRE PROTECTION ASSOCIATION, INC.; and

AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR-CONDITIONING ENGINEERS, INC.

Counterdefendants.

Case No. 1:13-cv-01215-TSC-DAR

#### **DECLARATION OF STEPHANIE REINICHE**

I, Stephanie Reiniche, declare as follows:

1. I am currently employed by the American Society of Heating, Refrigerating, and Air Conditioning Engineers ("ASHRAE") as its Senior Manager of Standards. I have been employed by ASHRAE since 2003. Based on the information known to me as a result of the duties and responsibilities of my position, as well as information I have gathered from relevant ASHRAE personnel and staff, I have personal knowledge of the facts set forth herein and could and would testify competently thereto if called as a witness.

2. ASHRAE is a non-profit organization that operates with the mission of advancing the arts and sciences of heating, ventilating, air conditioning and refrigerating to serve humanity and promote a sustainable world. ASHRAE has leveraged its expertise in HVAC systems, as well as the expertise of its volunteer members, to develop and maintain over 100 consensus based standards. These standards, which are developed based needs in the industry, apply to a variety of fields within the building industry, such as energy efficiency, indoor air quality, refrigeration, and sustainability.

3. The specific ASHRAE standard that I understand to be at issue here, Standard 90.1, pertains to energy efficiency in commercial and high-rise residential buildings. The standard has a variety of uses, including use by builders as a best-practices guide to achieve greater energy efficiency in building projects (even when not required by law) and use as a guide for how to achieve LEED certification for new buildings (a private rating system for energy efficiency in new buildings administered by the U.S. Green Building Council). Though Standard 90.1 is sometimes incorporated into laws and government regulations, such incorporation is not the primary motivation for ASHRAE's continued maintenance and updating of Standard 90.1. In fact, ASHRAE's drafting and maintenance of Standard 90.1 dates back to the 1970s and significantly

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predates Standard 90.1's widespread incorporation into federal laws or regulations—e.g., the most significant law referencing Standard 90.1, the Energy Policy Act, was not passed until 1992. Additionally, ASHRAE maintains numerous standards that are not incorporated by reference into any law or regulation.

4. As part of my job responsibilities, I am one of the ASHRAE employees who oversees ASHRAE's standards-development process, including as that process relates to Standard 90.1. ASHRAE has a prescribed development process that is used to develop new standards and maintain existing standards. The process is designed to ensure compliance with American National Standards Institute ("ANSI") requirements and broad participation from a variety of materially interested parties.

5. Many ASHRAE standards, including 90.1, have existed for years but are considered to be in "continuous maintenance," which means that the standard is updated continuously via addenda with supplements being published every 18 months and all addenda being incorporated for a new version every three years using the same development and editing process.

6. ASHRAE's Standard 90.1 is developed with input from a project committee, which consists of a group of experts in the field that include but not limited to utilities representatives, engineers, manufacturers, trade organizations and architects that volunteer their time to work on Standard 90.1. The project committee members are selected by the Chair of the project committee and approved by ASHRAE's Standards Committee and subcommittee based on expertise in the field and in order to ensure a balanced representation of different interest groups.

7. As with ASHRAE's other standards, the 90.1 project committee is subject to procedural oversight from ASHRAE's Board of Directors, Standards Committee, and Technology Council. Members of the public may also participate in creating the standard through submitting public comments that will be considered by the project committee.

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8. Substantive drafting and changes to Standard 90.1 happen through a consensus of the project committee and involve input form the many participants in the development process. The standard is not simply the work of individual members. For each proposed change to a standard or any new language that will be added to a standard, the project committee must vote to approve the change. Voting on changes to the standard may occur at an in-person meeting following discussion on the issue, by letter ballot, or a combination of the two. For a change to be approved, a majority of project committee members must vote in the affirmative and a two-thirds majority of those actually casting votes on that particular change must vote in the affirmative. Whether at an in-person meeting, by letter ballot, or a combination thereof, committee members who submit negative votes are given the opportunity to provide written comments explaining their decision. If the vote passes with one or more negative votes, the results are held in abeyance until the comments are transmitted to all eligible voters and they are given an opportunity to change their votes. Similarly, the committee also votes on how to respond to public comments on all revisions and new drafts of Standard 90.1. In the event that responses don't resolve the commenters on public review drafts the committee members are given an opportunity again to change their vote prior to the changes being published or to decide to revise the change and conduct another public review.

9. For each ASHRAE standard, ASHRAE assigns one or more staff liaisons to work with that standard's project committee. These staff liaisons report to me. For Standard 90.1, the liaison is Steve Ferguson. Mr. Ferguson, who has an engineering degree and is knowledgeable concerning HVAC systems, has worked as the staff liaison for Standard 90.1 since February 2005.

10. The job responsibilities of an ASHRAE staff liaison include facilitating meetings of the project committee, including attending meetings, keeping minutes, processing voting ballots, and often recording proposed changes to the Standard that are under discussion. The staff liaisons

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also work together with the project committees to craft the appropriate wording of the standards by reviewing all proposed changes and drafts of the standards to make sure they are written clearly, in the proper format, comply with ANSI and ASHRAE requirements, and are both technically and editorially consistent. For instance, when a change is made, the liaison might determine that language in another part of the standard also needs to be changed to make the standard internally consistent, at which point the liaison would submit an addenda back to the project committee for further consideration. For each standard, the staff liaison also provides the project committee with the comments and proposals submitted by the public and any materially affected parties and subsequently reviews the project committee's formal responses to public comments and proposals to make sure they are clearly worded and in a proper format.

11. Every three years, when ASHRAE performs a roll-up of all proposed changes and edits to a standard under continuous maintenance, like Standard 90.1, the staff liaison and other ASHRAE staff will work with certain members of the project committee to perform a final review and edit of the new version of each standard to make sure that all proposed changes have been properly incorporated. Additionally, members of ASHRAE's staff are responsible for reviewing and updating certain language in ASHRAE standards that does not relate to the technical requirements of the standard, including the initial policy statement and notice of instructions for submitting a proposed change.

12. In my experience, members of the project committee, other ASHRAE members, and members of the public who contribute to ASHRAE standards fully understand and intend that ASHRAE will own the copyrights in the completed ASHRAE standards.

13. Anyone who contributes to Standard 90.1 as a project committee member, or by submitting a change proposal or public comment, is required by ASHRAE to execute an Application for Membership on an ASHRAE Committee or a Form for Commenting on a Public

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Review Draft ASHRAE Standard, both of which contain an acknowledgment stating "I understand that I acquire no rights in publication of such documents in which my contributions or other similar analogous form are used." A true and correct copy of a sample Form for Commenting on a Public Review Draft ASHRAE Standard is attached hereto as Exhibit 1, and a true and correct copy of a sample Application for Membership on an ASHRAE Committee is attached as Exhibit 2. All forms signed by commenters or committee membership on the 2004, 2007, and 2010 versions of Standard 90.1 would have contained substantially the same language as these forms.

14. As a general matter, ASHRAE does not permit alterations to the forms that must be signed by public commenters or committee members, and I am not aware of any contribution made to ASHRAE Standards 90.1-2004, 90.1-2007, or 90.1-2010, for which the contributor altered a standard ASHRAE form or refused to execute the form. To the extent any comment has been submitted and considered by the project committee without a properly executed form, it would be an exception to the general practices and requirements imposed by ASHRAE.

15. ASHRAE has valid copyright registrations for the versions of Standard 90.1 at issue in this case (i.e., the 2004, 2007, and 2010 versions). True and correct copies of those registrations are attached hereto as Exhibits 3, 4, and 5. Additionally, on each version of ASHRAE 90.1, it is ASHRAE's practice to place a copyright notice prominently on the standard to alert members of the public that ASHRAE has copyrighted the standard. Members of the project committee are also aware of this practice and are thus aware that ASHRAE copyrights its standards, including each successive version of Standard 90.1. ASHRAE is not aware of any member of the 90.1 project committee or member of the public who commented on 90.1 who has contested ASHRAE's copyright rights in the standard or claimed an ownership interest in any part of ASHRAE 90.1.

16. In addition to its copyrights, ASHRAE also holds several registered trademarks, including U.S. Registration Nos. 1,503,000 and 4,262,297, which protect the following logos:

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True and correct copies of ASHRAE's registrations for these two marks are attached as Exhibits 6 and 7. Additionally, for mark number 1,503,000, which has been used in commerce since 1959, ASHRAE has filed a Section 15 declaration in support of the incontestability of its registration. ASHRAE's use of these marks in connection with its standards and other goods and services has been substantially continuous, and these marks, which are routinely affixed to ASHRAE's standards, have become associated with ASHRAE and its standards. ASHRAE considers these marks to be valuable assets and has developed substantial goodwill associated with these marks over the years.

17. Each time new versions of ASHRAE standards are developed, ASHRAE offers those standards for sale. Sales of the standards are an important piece of ASHRAE's yearly revenues. The primary purchasers and users of ASHRAE's standards include builders, architects, and heating, air-conditioning, and refrigeration manufacturers who use the standards in their businesses.

18. ASHRAE's pricing and access policies are generally tailored to afford broad access to the standards. Prices typically range from \$25 to \$120, with no standard costing more than \$200. The standards are priced on the basis of ASHRAE's costs and ASHRAE does not charge more for standards that have been incorporated into laws or regulations. ASHRAE also offers discounts for libraries, educational uses, government entities, and individuals or entities who purchase the standards on a subscription basis.

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19. To further ensure broader access to the standards, ASHRAE also offers online readonly access to many of its standards-particularly those standards that have been incorporated into codes-on the ASHRAE website, available at https://www.ashrae.org/standards-research-technology/standards--guidelines/other-ashrae-standards-referenced-in-code. This portion of the ASHRAE website allows viewers to read ASHRAE standards, including the 2004, 2007, and 2010 versions of Standard 90.1. For certain standards, including Standard 90.1, users of the ASHRAE website can even perform keyword searches within the read-only versions of the documents.

20. ASHRAE is unaware of anyone, except the defendant in this matter, who has complained that the various channels of access ASHRAE provides to Standard 90.1 are insufficient. Additionally, ASHRAE is aware that Defendant has recently removed ASHRAE Standards 90.1-2004, 90.1-2007, and 90.1-2010 from its site at the suggestion of the Court in this matter. Since that occurred, I am not aware of any complaints ASHRAE has received regarding a perceived loss of access to these standards.

I declare under penalty of perjury under the laws of the United States that the foregoing is true and correct.

Executed this <u>19</u>th day of November, 2015 at <u>Atlanta</u>, Georgia. <u>Juphanie Beinche</u>

DECLARATION OF STEPHANIE REINICHE IN SUPPORT OF PLAINTIFFS' MOTION FOR SUMMARY JUDGMENT Case 1:13-cv-01215-TSC Document 118-10 Filed 11/19/15 Page 9 of 29

# EXHIBIT 1

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N. E. /#

#### 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.

itter:
itter:

Affiliation.

Address:	City:	State:	Zip:	Country:
Telephone:	Fax:	E-Mail:		

I hereby grant the American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (ASHRAE) the nonexclusive 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.

Submitter's signature: Dat	5:
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#### All electronic submittals must have the following statement completed:

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 standard:

3. Page number and clause (section), subclause, or paragraph number:

 4. I propose to:
 [] Change to read as follows
 [] Delete and substitute as follows

 (check one)
 [] Add new text as follows
 [] Delete without substitution

Use underscores to show material to be added (added) and strike through material to be deleted (deleted). Use additional pages if needed.

5. Proposed change:

6. Reason and substantiation:

7. Will the proposed change increase the cost of engineering or construction? If yes, provide a brief explanation as to why the increase is justified.

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

[ ] Check if attachments or referenced materials cited in this proposal accompany this proposed change. Please verify that all attachments and references are relevant, current, and clearly labeled to avoid processing and review delays. *Please list your attachments here:* 

Rev. 3-9-2007

ASHRAE0001605

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# EXHIBIT 2

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5. By signing below, I certify that:

If elected as a 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.

#### SIGNATURE

Note: This form is not valid unless signed by Applicant

Submit Completed Form to: Standards. Section@ashrae.org; Tel. (678) 539-1143; Fax (678) 539-2143

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.

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#### 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.

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.

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# **EXHIBIT 3**

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Case 1:13-cv-01215-TSC Document 118-10 Filed 11/19/15 Page 16 of 29 Certificate of Registration



This Certificate issued under the seal of the Copyright Office in accordance with title 17, United States Code, attests that registration has been made for the work identified below. The information on this certificate has been made a part of the Copyright Office records.

arybeth Seter



Register of Copyrights, United States of America DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET. TITLE OF THIS WORK ANSI/ASHRAE/IESNA Standard 90 1-2004, Energy Standard for Buildings Except Low-Rise Residential Buildings (I-P Edition) PREVIOUS OR ALTERNATIVE TITLES ▼ ANSI/ASHRAE/IESNA Standard 90 1-2001, Energy Standard for Buildings Except Low-Rise Residential Buildings (エルビング) PUBLICATION AS A CONTRIBUTION If this work was published as a contribution to a periodical, serial, or collection, give information about the collective work in which the contribution appeared Title of Collective Work V collective work in which the contribution appeared If published in a periodical or serial give Volume V Number V Issue Date V On Pages 🔻 NAME OF AUTHOR DATES OF BIRTH AND DEATH Year Born Year Died American Society of Heating, Refrigerating & Air-Conditioning Engrs а AUTHOR'S NATIONALITY OR DOMICILE WAS THIS AUTHOR'S CONTRIBUTION TO Was this contribution to the work a work made for hire"? THE WORK If the answer to e of these question "Yes," see details Yes Citizen of OR □Yes □ No Anonymous U.S.A [] No Domiciled in □Yes □ No instruction Pseudonymous? NATURE OF AUTHORSHIP Briefly describe nature of material created by this author in which copyright is claimed NOTE Provide minimum requirements for energy-efficient design of bldgs except low-rise residential bldgs Under the law DATES OF BIRTH AND DEATH NAME OF AUTHOR the "author" of a "work made for hire" is generally the employer, not the employee (see instruc-tions) For any part of this work these the "author" of Year Born Year Died AUTHOR'S NATIONALITY OR DOMICILE WAS THIS AUTHOR'S CONTRIBUTION TO Was this contribution to the work a work made for hire THE WORK If the answer to elt of these question "Yes " see detaile os la Citizen of 1) Yes Anonymous? Yes 🗆 No OR. Domiciled in D No instructions Pseudonymous? Yes No work that was "made for hire" check "Yes" in NATURE OF AUTHORSHIP Briefly describe nature of material created by this author in which copyright is claimed the space provided, give the employer NAME OF AUTHOR DATES OF BIRTH AND DEATH Year Born 🔻 Year Died (or other person for whom the work was prepared) as "Author" of that part, and leave the С AUTHOR'S NATIONALITY OR DOMICILE WAS THIS AUTHOR'S CONTRIBUTION TO Was this contribution to the work a work made for hire'? THE WORK If the answer to eithe of these questions is 1 Yes Citizen of OR Anonymous? 11 Yes 17 No Yes," se Instructions Domiciled in space for dates of birth and D No □Yes □No Pseudonymous NATURE OF AUTHORSHIP Briefly describe nature of material created by this author in which copyright is claimed death blank YEAR IN WHICH CREATION OF THIS WORK WAS COMPLETED 2004 Vear in all cases DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR WORK Complete this information Month December Day 21 Year 2004 Complete this inform ONLY if this work has been published. Day 21 a D U.S.A < Nat APPLICATION RECEIVED DEC 3 0 2004 ONE DEPOSIT RECEIVED COPYRIGHT CLAIMANT(S) Name and address must be given even if the claimant is the same as the author given in space 2 American Society of Heating, Refrigerating & Air-Conditioning Engrs 1791 Tullie Circle, NE Atlanta, GA 30329-2305 **TWO DEPOSITS RECEIVED** DEC 3 0 2004 TRANSFER If the claimant(s) named here in space 4 is (are) different from the author(s) named in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright

MORE ON BACK . Complete all applicable spaces (numbers 5-9) on the reverse side of this page · See detailed instructions . Sign the form at line 6

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# **EXHIBIT 4**

	This Certificate issue Office in accordance attests that registratic identified below. The been made a part of t	d under the seal of the Copyright with title 17, United States Code, on has been made for the work information on this certificate has the Copyright Office records.	
5. 1870 30 NT	Marybeth Register of Copyrigh	Peters ts, United States of America PECENTED	Registration Number: TX 6-842-936
		JUN 1 8 2008 SPECIAL PUBS	Effective date of registration:
Title	The states a	NSI/ASHPAE/JESNIA Standard 00 1	2007 Energy Standard for Buildings Event
9-28-88-8	Interior Work: A	ow-Rise Residential Buildings (I-P)	-2007, Energy Standard for Buildings Except
Previous	or Alternative Title; A	NSI/ASHRAE/IESNA Standard 90.1 xcept Low-Rise Residential Building	1-2004, Energy Standard for Buildings is (I-P)
Completion Da	/ Publication — Year of Completion; 2 te of 1st Publication; J	008 anuary 9, 2008 Nation o	f 1st Publication: United States
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Limitation (	of copyright clai uded from this claim:	M Derivative work, previously published	d material.
Material excl	Previously registered:	Yes	성상가 (2012년) 2014년 - 11년 - 11년 - 11년 - 11년 11월 - 11일 - 11일 11월 - 11일
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Copyright claimant		NUCL CLUT STATES	and the second
Copyright claimant Copyright Claimant:	American Society of Heating I Inc., dba ASHRAE 1791 Tullie Circle, NE, Atlanta	Refrigerating and Air-Condit 1, GA, 30329-2305	ioning Engineers
Copyright claimant Copyright Claimant: Limitation of copyright cla	American Society of Heating I Inc., dba ASHRAE 1791 Tullie Circle, NE, Atlanta	Refrigerating and Air-Condit	ioning Engineers
Copyright claimant Copyright Claimant: Limitation of copyright cla Material excluded from this claim:	Ametican Society of Heating I Inc., dba ASHRAE 1791 Tullie Circle, NE, Atlanta aim text, Illustrations	Refrigerating and Air-Condit	ioning Engineers
Copyright claimant Copyright Claimant: Limitation of copyright cla Material excluded from this claim: Previous registration and year:	American Society of Heating I Inc., dba ASHRAE 1791 Tullie Circle, NE, Atlanta im text, Illustrations TX 6-842-936 2008	Refrigerating and Air-Condit , GA; 30329-2305	ioning Engineers
Copyright claimant Copyright Claimant: Limitation of copyright cla Material excluded from this claim: Previous registration and year:	American Society of Heating I Inc., dba ASHRAE 1791 Tullie Circle, NE, Atlanta im text, Illustrations TX 6-842-936 2008 TX 6-091449 2004 text, editing	Refrigerating and Air-Condit	ioning Engineers
Copyright claimant Copyright Claimant: Limitation of copyright cla Material excluded from this claim: Previous registration and year: New material included in claim: Rights and Permissions	American Society of Heating I Inc., dba ASHRAE 1791 Tullie Circle, NE, Atlanta text, Illustrations TX 6-842-936 2008 TX 6-091449 2004 text, editing	Refrigerating and Air-Condit	ioning Engineers
Copyright claimant Copyright Claimant: Limitation of copyright claimant: Material excluded from this claim: Previous registration and year: New material included in claim: Rights and Permissions Organization Name:	American Society of Heating I Inc., dba ASHRAE 1791 Tullie Circle, NE, Atlanta text, Illustrations TX 6-842-936 2008 TX 6-091449 2004 text, editing American Society of Heating I Air-Conditioning Engineers In	Refrigerating and Air-Condit , GA, 30329-2305 Refrigerating and c.	ioning Engineers
Copyright claimant Copyright Claimant: Limitation of copyright claimant: Material excluded from this claim: Previous registration and year: New material included in claim: Rights and Permissions Organization Name: Name:	American Society of Heating I Inc., dba ASHRAE 1791 Tullie Circle, NE, Atlanta text, Illustrations TX 6-842-936 2008 TX 6-091449 2004 text, editing American Society of Heating I Air-Conditioning Engineers In Steve Comstock	Refrigerating and Air-Condit , GA; 30329-2305 Refrigerating and c.	Telenhone: 678-539-110
Copyright claimant Copyright Claimant: Copyright Claimant: Limitation of copyright claim Material excluded from this claim: Previous registration and year: New material included in claim: New material included in claim: Corganization Name: Name: Email: Address:	American Society of Heating I Inc., dba ASHRAE 1791 Tullie Circle, NE, Atlanta im text, Illustrations TX 6-842-936 2008 TX 6-091449 2004 text, editing American Society of Heating I Air-Conditioning Engineers In Steve Comstock scomstock@ashrae.org 1791 Tullie Circle, NE	Refrigerating and Air-Condit , GA; 30329-2305 Refrigerating and c.	ioning Engineers
Copyright claimant Copyright Claimant: Limitation of copyright claimant: Material excluded from this claim: Previous registration and year: New material included in claim: Rights and Permissions Organization Name: Name: Email: Address:	American Society of Heating I Inc., dba ASHRAE 1791 Tullie Circle, NE, Atlanta text, Illustrations TX 6-842-936 2008 TX 6-091449 2004 text, editing American Society of Heating I Air-Conditioning Engineers In Steve Comstock scomstock@ashrae.org 1791 Tullie Circle, NE Atlanta, GA 30329-2305	Refrigerating and Air-Condit , GA, 30329-2305 Refrigerating and	ioning Engineers

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# EXHIBIT 6

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Services	USE IN COMMERCE: 19590100
Mark	
Drawing Code	(3) DESIGN PLUS WORDS, LETTERS, AND/OR NUMBERS
Design	15.07.01 - Cog wheels; Gears
Search Code	24.05.02 - Seals having some other shape 26.01.07 - Circles with a decorative border, including scalloned, ruffled and zig-zag edges
	26.01.27 - Circles containing irregular exterior lining or elements not amounting to a decorative border
	26.15.08 - Polygons comprised of letters, numerals or punctuation and letters, numerals or punctuation
	26.15.20 - Polygons inside one another
Carial	26.15.21 - Polygons that are completely or partially shaded
Serial Number	73708160
Filing Date	January 28, 1988
Current Basis	1A
Original	
Filing Basis	1A
Filing Basis Published	1A

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Opposition	
Registration Number	1503000
Registration Date	September 6, 1988
Owner	(REGISTRANT) AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC. CORPORATION NEW YORK 1791 TULLIE CIRCLE, N.E. ATLANTA GEORGIA 30329
Attorney of Record	Emily B. Brown
Prior Registrations	1470160
Type of Mark	TRADEMARK
Register	PRINCIPAL
Affidavit Text	SECT 15. SECT 8 (6-YR). SECTION 8(10-YR) 20080927.
Renewal	1ST RENEWAL 20080927
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# **EXHIBIT 7**
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Code Design Search Code	26.15.03 - Incomplete polygons and polygons made of broken or dotted lines; Polygons (incomplete); Polygons made with broken lines			
Serial Number	85429689			
Filing Date Current Basis	September 22, 2011 1A			
Original Filing Basis	1B			
Published for Opposition	March 6, 2012			
Registration Number	4262297			
Registration Date	December 18, 2012			
Owner	(REGISTRANT) American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. CORPORATION NEW YORK 1791 Tullie Circle, N.E. Atlanta GEORGIA 30329			
Attorney of Record	Emily B. Brown			
http://tmsearch.uspto.gov/bin/showfield?f=doc&state=4808;jta207.2.5				

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Prior Registrati	1922 ons	697;225521	0;3324653;3	324654;AI		3			
<b>Description of</b> Color is not claimed as a feature of the mark. The mark consists of the word "ASHRAE" super Mark horizontally breaking the left side of a hexagon.			E" superimposed						
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#### UNITED STATES DISTRICT COURT FOR THE DISTRICT OF COLUMBIA

AMERICAN SOCIETY FOR TESTING AND MATERIALS d/b/a/ ASTM INTERNATIONAL;	
NATIONAL FIRE PROTECTION ASSOCIATION, INC.; and	
AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS,	Case No. 1:13-cv-01215-TSC
Plaintiffs/ Counter-Defendants,	
V.	
PUBLIC.RESOURCE.ORG, INC.,	
Defendant/ Counter-Plaintiff.	

#### **DECLARATION OF JAMES THOMAS**

Pursuant to 28 U.S.C. § 1746, I, James Thomas, declare the following statements to be true under the penalties of perjury:

1. I am over the age of 18 years and am fully competent to testify to the matters stated in this Declaration.

2. This declaration is based on my personal knowledge. If called to do so, I would

and could testify to the matters stated herein.

3. I am the President of ASTM International ("ASTM"), which is a not-for-profit

organization headquartered in Pennsylvania. I have worked at ASTM since 1972.

4. ASTM was founded in 1898 when a group of railroad experts and engineers got

together to respond to technical issues that had been identified in the early days of the railroad

industry. The very first ASTM standard, standard A1, provided uniform specifications for

# USCA Case #22-7063 Document #1982413 Filed: 01/20/2023 Page 220 of 395 Case 1:13-cv-01215-TSC Document 118-11 Filed 11/19/15 Page 2 of 7

carbon steel rails. This made it possible for manufacturers from different parts of the country to produce uniform rails that could be used in a national railroad.

5. ASTM's activities have expanded over the past one hundred years and ASTM now develops standards that are used in a wide range of fields, including consumer products, iron and steel products, rubber, paints, plastics, textiles, medical services and devices, electronics, construction, energy, water, and petroleum products.

6. The term "standards" refers to a variety of technical works, including works that contain product specifications, installation methods, methods for manufacturing or testing materials, recommended practices to ensure safety or efficiency, or other guidelines or best practices.

7. An organization that develops standards is a "standards development organization" or "SDO."

8. In the United States, standards are typically developed by private organizations that have technical expertise in the relevant area.

9. Standards are usually highly technical and specialized, and are written for audiences that have particular expertise in the relevant fields.

10. Standards are used by industry actors as a form of self-regulation and as a source of best practices.

11. ASTM's mission is to be recognized as the premier developer and provider of voluntary consensus standards, related technical information and services that promote public health and safety, support the protection and sustainability of the environment, and improve the overall quality of life; contribute to the reliability of materials, products, systems and services; and facilitate international, regional, and national commerce.

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12. ASTM develops voluntary consensus standards and is accredited by the American National Standards Institute.

13. ASTM standards are developed based on public demands, industry needs, and public safety concerns and advancements in technology. They address a technical issue or problem identified by a group of people in the relevant sector that can be addressed with a standard-based solution.

14. ASTM's standards are used by scientists and engineers in their laboratories, by architects and designers in their plans, and by industry in their business contracts.

15. On occasion, government agencies incorporate ASTM's standards by reference into regulations. Approximately 10 percent of ASTM's standards are incorporated by reference into federal regulations.

16. ASTM standards are not developed for the purpose of being incorporated into regulations.

17. When it develops a new standard, ASTM does not know whether the standard will be incorporated by reference into government regulations.

18. ASTM does not lobby government agencies to reference its standards.

19. Membership in ASTM costs \$75 per year for an individual member and \$400 per year for an organizational member. Each member receives one free volume of the Annual Book of ASTM Standards as well as other membership benefits.

20. ASTM has kept its membership fees at \$75 for over fifteen years to permit the widest participation possible in the standard development process, so as to prevent its standards from being biased toward the interests of only stakeholders who can afford to pay higher membership fees. ASTM's membership fees have never exceeded \$75.

21. ASTM has over 140 technical committees made up of over 23,000 technical members representing producers, users, consumers, government, and academia from more than 150 countries.

22. Each technical committee contains a balanced voting membership, including industry representatives, government representatives, consumers, people with particular expertise in the subject matter, and others.

23. Throughout the standards development process, ASTM and its committees make it clear that all participants' contributions to any particular standard will be merged into a unitary standard.

24. ASTM's standard development process begins with an individual registering a "work item," which describes the idea for a new standard that will be published and owned by ASTM, or moving to draft a new standard at a subcommittee meeting.

25. The chair of the relevant subcommittee then reviews the work item request and considers, among other things, whether there is a need for the proposed standard and whether there will be sufficient interest from a balanced group necessary to develop the standard. If the chair approves the work item or if the subcommittee approves the motion for a new standard, a task group will develop a draft of the standard.

26. The technical contact is the leader of the task group.

27. The draft standard is then edited by an ASTM staff member, who also adds certain language and components that are required by the ASTM form and style guide.

28. The draft standard is then voted on by first the entire subcommittee, followed by the entire main committee and the complete Society, and reviewed by the Committee on Standards to ensure that all procedures were followed.

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29. Technical committees make decisions about the appropriate content of the standards, including the relevant measurements, values, descriptions, and other specifications, as well as the language with which to express these standards.

30. There are other standard developing organizations that create standards that cover the same or similar subject matter as the standards developed by ASTM, including, for example, the International Organization for Standards, SAE International, and the American Association of State Highway and Transportation Officials. The content and language of these SDO's standards differs from the content of the corresponding ASTM standards.

31. At each level of balloting, voters can suggest edits or provide comments. Each negative vote must be addressed to determine if it is persuasive. At least 66.7% of the voting subcommittee members and 90% of the voting main committee members must approve all standard actions, with not less than 60% of the voting members returning ballots.

32. ASTM has developed over 12,000 standards.

33. All ASTM standards are required to be reviewed on a 5 year schedule and each standard is either reapproved, revised or withdrawn. It takes approximately 8-12 months to complete a revision cycle.

34. ASTM incurs substantial costs for its standards development infrastructure and delivery platforms, including the resources it provides to encourage collaboration among members; expenses relating to technical committee meetings and balloting as the standards make their way through the development process; and editing, producing, distributing and promoting the completed standards.

35. In 2014, ASTM spent more than \$9 million to cover the cost of technical committee operations and \$19 million for publication of copyrighted materials.

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36. ASTM develops its standards with the understanding that the standards will be protected by copyright, which provides ASTM with the exclusive right to sell, reproduce, display and create derivative works based on the standards.

37. ASTM depends on the revenue it generates from sales of its copyrighted materials to conduct its operations and requires that revenue to be in a position to continue to develop its standards in the manner in which it currently operates.

38. ASTM generates over two-thirds of its revenue from the sale of copyrighted materials.

39. ASTM has devoted substantial efforts to develop and promote the sale of products and services that are related or complementary to ASTM's standards. ASTM does not generate substantial income from these goods and services.

40. ASTM generated a net loss of \$3 million in 2014 for non-standards related products and services.

41. ASTM's copyrighted materials give ASTM a competitive advantage in selling ancillary or complementary products and services. ASTM can include copies of its standards as part of a package it provides to customers in training or certification programs.

42. ASTM does not consider the likelihood and extent to which a standard will generate revenues when deciding whether to develop or maintain a standard.

43. Sales of a limited number of standards drive the bulk of ASTM's revenues. Because of their relevance to smaller market audiences, many ASTM standards generate very limited revenues, which do not cover the costs of the development process. The sales of the best-selling standards effectively subsidize the creation and maintenance of the remaining standards.

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44. ASTM publishes its standards in hard copy and digital formats, including pdfs, html and xml formats, which can be purchased from ASTM or its authorized resellers.

45. When purchased individually, the price per ASTM standard is \$38-\$89.

46. The price of each ASTM new individual standard is calculated based on the number of pages in the standard.

47. ASTM does not seek to obtain higher prices for standards that have been incorporated by reference.

48. ASTM provides copies of its standards at a reduced cost or at no cost when it is informed that the regular cost is a burden to the requester.

49. For example, ASTM has a "10 Standards for Students" program through which professors can select any 10 ASTM standards and students can purchase a packet containing all 10 standards for just \$10 per student.

50. ASTM provides the public with free, read-only access to all ASTM standards that ASTM is aware have been incorporated by reference into federal regulations.

ASTM identifies standards that have been incorporated by reference into federal 51. regulations from the database created by the National Institute of Standards and Technology.

52. ASTM publicizes the free read-only access provided on its website.

53. During the notice and comment period regarding proposed federal regulations, upon request by the relevant federal agency, ASTM provides free, read-only access to standards that are incorporated by reference in proposed regulations.

ASTM has not received any complaints about lack of accessibility of its standards 54. other than from Defendant.

Dated: November 18, 2015

James Thimar James Thomas

#### MATERIAL UNDER SEAL DELETED

# JA00704-JA00817

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# **EXHIBIT 2**

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Plai Coun	ntiffs,/ ter-Defendants,	Case No.:	
VS.		1:13-cv-01215-EGS	
PUBLIC.RESOUR	CE.ORG, INC.		
Defe Coun	ndant/ ter-Plaintiff	,	
DATE:	Thursday, Februar	y 26, 2015	
TIME:	10:07		
LOCATION:	1 Market Street, 2000, San Francis	Spear Tower, Suite co, California	
Reported by:	Ashley Soevyn Certified Shortha License Number 12	nd Reporter 019	

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		23
1	Resource?	10:23:05AM
2	A I am.	10:23:06AM
3	Q What is your position at Public Resource	10:23:08AM
4	at this time?	10:23:10AM
5	A I'm the president and founder.	10:23:11AM
6	Q Has that been your title ever since you	10:23:14AM
7	founded Public Resource?	10:23:16AM
8	A Yes.	10:23:18AM
9	Q Is that a full-time position?	10:23:20AM
10	A It is.	10:23:24AM
11	Q Do you do any other work that leads to any	10:23:26AM
12	sort of compensation other than your work for Public	10:23:30AM
13	Resource at this time?	10:23:32AM
14	A I do not.	10:23:34AM
15	Q As the president and founder of Public	10:23:37AM
16	Resource, what are your job responsibilities?	10:23:39AM
17	MR. BRIDGES: Objection, vague and	10:23:46AM
18	ambiguous.	10:23:46AM
19	THE WITNESS: I run the corporation.	10:23:51AM
20	BY MR. FEE:	10:23:53AM
21	Q Okay. Can you be any more specific than	10:23:53AM
22	that?	10:23:59AM
23	MR. BRIDGES: Same objection.	10:24:00AM
24	THE WITNESS: I speak. I program. I run	10:24:03AM
25	computers.	10:24:06AM

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		24
1	BY MR. FEE:	10:24:07AM
2	Q What is Public Resource?	10:24:09AM
3	MR. BRIDGES: Objection, vague and	10:24:12AM
4	ambiguous.	10:24:13AM
5	THE WITNESS: A 501(c)(3) nonprofit	10:24:14AM
6	corporation.	10:24:19AM
7	BY MR. FEE:	10:24:20AM
8	Q What products or services does Public	10:24:20AM
9	Resource provide?	10:24:22AM
10	MR. BRIDGES: Objection, vague and	10:24:23AM
11	ambiguous, argumentative.	10:24:25AM
12	THE WITNESS: We make government	10:24:31AM
13	information more broadly available to inform	10:24:32AM
14	citizens.	10:24:35AM
15	BY MR. FEE:	10:24:35AM
16	Q How does Public Resource do that?	10:24:39AM
17	A I'm sorry?	10:24:42AM
18	Q How does Public Resource do that?	10:24:43AM
19	A We use the Internet.	10:24:46AM
20	Q At this point in time, do you own any	10:25:03AM
21	controlling interest in the corporation, or do you	10:25:07AM
22	hold any positions for any nonprofit organizations	10:25:09AM
23	other than Public Resource?	10:25:13AM
24	MR. BRIDGES: Objection, compound.	10:25:15AM
25	MR. FEE: It is compound. I'll break that	10:25:17AM

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		25
1	down. Let me re-ask that.	10:25:19AM
2	BY MR. FEE:	10:25:21AM
3	Q First of all, do you own a controlling	10:25:21AM
4	interest in any corporation putting aside what you	10:25:23AM
5	do for Public Resource?	10:25:27AM
6	A No, I do not.	10:25:29AM
7	Q Do you have a role in connection with any	10:25:31AM
8	nonprofit organization other than Public Resource	10:25:34AM
9	at	10:25:38AM
10	MR. BRIDGES: Objection, vague and	10:25:38AM
11	ambiguous.	10:25:39AM
12	BY MR. FEE:	10:25:39AM
13	Q at this time?	10:25:40AM
14	MR. BRIDGES: Objection, vague and	10:25:40AM
15	ambiguous.	10:25:40AM
16	THE WITNESS: I'm on the board of	10:25:41AM
17	directors of Common Crawl, a 501(c)(3) nonprofit	10:25:42AM
18	corporation.	10:25:46AM
19	BY MR. FEE:	10:25:48AM
20	Q Any others?	10:25:49AM
21	A No, sir.	10:25:51AM
22	MR. BRIDGES: Just leave me time to	10:25:52AM
23	object. I should have objected to that one.	10:25:52AM
24	BY MR. FEE:	10:25:56AM
25	Q What is Common Crawl?	10:25:56AM

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		30
1	THE WITNESS: And and manage those	10:31:03AM
2	objects, yes.	10:31:03AM
3	BY MR. FEE:	10:31:04AM
4	Q Can you explain to me what the basis is	10:31:05AM
5	for that belief?	10:31:08AM
6	A Well, there are a large number of	10:31:11AM
7	collections on the Internet Archive, such as the	10:31:13AM
8	Grateful Dead Archive, for example.	10:31:16AM
9	Q Has Public.Resource.Org ever posted any	10:31:20AM
10	materials to the Internet Archive?	10:31:24AM
11	A Yes.	10:31:26AM
12	Q Does Public Resource have any employees	10:31:37AM
13	besides yourself?	10:31:39AM
14	A No.	10:31:41AM
15	Q Since its found founding, did Public	10:31:43AM
16	Resource have any employees other than yourself?	10:31:46AM
17	A Yes, I had one employee.	10:31:51AM
18	Q Who is that?	10:31:53AM
19	A Joel Hardi, H-A-R-D-I.	10:31:54AM
20	Q What was Joel Hardi's role at Public	10:32:00AM
21	Resource while he was there?	10:32:03AM
22	A He was a systems administrator and	10:32:05AM
23	programmer.	10:32:09AM
24	Q During what time frame did Mr. Hardi work	10:32:13AM
25	at Public Resource?	10:32:15AM

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		63
1	A No, that was it.	11:07:41AM
2	Oh, I'm sorry. I got e-mail from	11:08:10AM
3	Mr. Cooper at ANSI as well.	11:08:13AM
4	Q Do you recall the substance of that	11:08:16AM
5	e-mail?	11:08:18AM
6	A I think he liked the packaging.	11:08:18AM
7	THE REPORTER: You said that he's from	11:08:24AM
8	ANSI?	11:08:24AM
9	THE WITNESS: A-N-S-I, American National	11:08:24AM
10	Standards Institution or Institute.	11:08:30AM
11	BY MR. FEE:	11:08:34AM
12	Q When you were purchasing the 73 standards,	, 11:08:35AM
13	why did you decide to buy paper copies as opposed to	0 11:08:38AM
14	electronic copies?	11:08:41AM
15	MR. BRIDGES: Objection, vague, ambiguous,	, 11:08:43AM
16	relevance.	11:08:44AM
17	THE WITNESS: It's by far the easiest way	11:08:45AM
18	to process them.	11:08:48AM
19	BY MR. FEE:	11:08:49AM
20	Q Can you explain why it would be easier to	11:08:50AM
21	process paper documents than to, for example, print	11:08:53AM
22	electronic copies?	11:08:56AM
23	A A paper document you throw it on a scanner	r 11:08:57AM
24	and you scan it.	11:09:01AM
25	Q So you take the paper and make an	11:09:02AM

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		64
1	electronic copy as opposed to just having the	11:09:05AM
2	electronic copy?	11:09:08AM
3	MR. BRIDGES: I'll object I object.	11:09:09AM
4	Argumentative terminology, vague and ambiguous.	11:09:10AM
5	THE WITNESS: Yes, you scan it and make an	11:09:12AM
6	electronic copy.	11:09:14AM
7	BY MR. FEE:	11:09:15AM
8	Q So wouldn't it have been easier to	11:09:16AM
9	purchase electronic copies from the standards	11:09:19AM
10	organizations?	11:09:21AM
11	MR. BRIDGES: Objection, lacks foundation,	11:09:22AM
12	vague and ambiguous, argumentative.	11:09:23AM
13	THE WITNESS: No, it wouldn't be.	11:09:26AM
14	BY MR. FEE:	11:09:28AM
15	Q And your decision to buy paper copies as	11:09:28AM
16	opposed to electronic copies was not in order to	11:09:32AM
17	avoid any terms of use in connection with a license	11:09:34AM
18	agreement of an electronic copy?	11:09:39AM
19	MR. BRIDGES: Objection, lacks foundation,	11:09:41AM
20	vague and ambiguous.	11:09:42AM
21	THE WITNESS: Both terms of use and the	11:09:43AM
22	way a PDF document are packaged make them much	11:09:47AM
23	harder to work with.	11:09:53AM
24	BY MR. FEE:	11:09:54AM
25	Q If you had purchased an electronic copy of	11:09:55AM

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		71
1	in many news media reports, for example.	11:29:55AM
2	BY MR. FEE:	11:29:58AM
3	Q Are you aware of any individuals who	11:29:58AM
4	actually had a problem accessing one of the	11:30:00AM
5	plaintiffs' standards and and that were governed	11:30:03AM
6	by those standards via incorporation by reference?	11:30:06AM
7	MR. BRIDGES: All the same objections as I	11:30:13AM
8	last said.	11:30:14AM
9	THE WITNESS: Yes, I am.	11:30:15AM
10	BY MR. FEE:	11:30:16AM
11	Q Identify all those for me.	11:30:16AM
12	A I don't know if I can identify all of	11:30:17AM
13	them, but can can I	11:30:19AM
14	Q Identify all that you can think of sitting	11:30:21AM
15	here right now.	11:30:23AM
16	A Okay. Mr. Carl Weimer is the executive	11:30:24AM
17	director of the Pipeline Safety Trust.	11:30:29AM
18	MR. BRIDGES: You've been asked to	11:30:35AM
19	identify the individuals. That's what he's asked	11:30:35AM
20	you to do.	11:30:39AM
21	BY MR. FEE:	11:30:41AM
22	Q Who else.	11:30:41AM
23	A There were a large number of submissions	11:30:46AM
24	to federal information gathering that included	11:30:52AM
25	submissions by groups that complained about lack of	11:31:01AM

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		72
1	access.	11:31:06AM
2	Q Any others that you can identify?	11:31:07AM
3	MR. BRIDGES: Same same objections as	11:31:10AM
4	to my earlier as as my earlier objections.	11:31:12AM
5	THE WITNESS: Again, in the dockets there	11:31:16AM
6	were a large number of groups that identified	11:31:18AM
7	access problems.	11:31:22AM
8	BY MR. FEE:	11:31:22AM
9	Q But the only individual that you've	11:31:23AM
10	identified is Carl Weimer; is that right?	11:31:25AM
11	A That I	11:31:27AM
12	MR. BRIDGES: Same same objections as	11:31:30AM
13	my earlier ones.	11:31:31AM
14	THE WITNESS: The only one identified by	11:31:33AM
15	name, yes.	11:31:34AM
16	BY MR. FEE:	11:31:34AM
17	Q And Mr. Weimer, as you said, was the	11:31:35AM
18	executive director of Pipeline Safety Trust; is that	11:31:35AM
19	right?	11:31:39AM
20	A Yes.	11:31:40AM
21	Q And what did he tell you about his	11:31:41AM
22	inability to access one of the plaintiffs'	11:31:43AM
23	standards?	11:31:45AM
24	MR. BRIDGES: Objection, lacks foundation,	11:31:46AM
25	vague and ambiguous.	11:31:47AM

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		73
1	THE WITNESS: He spoke at a information	11:31:52AM
2	gathering process at PHMSA, P-H-M-S-A, which is a	11:31:54AM
3	federal government agency.	11:32:05AM
4	MR. BRIDGES: I'll ask the witness to	11:32:07AM
5	listen to the question and to answer the question.	11:32:08AM
6	THE WITNESS: Okay.	11:32:10AM
7	BY MR. FEE:	11:32:11AM
8	Q So what did Mr. Weimer say about his	11:32:15AM
9	inability to access plaintiffs' standards?	11:32:18AM
10	MR. BRIDGES: Objection, lacks foundation,	11:32:24AM
11	vague and ambiguous.	11:32:25AM
12	THE WITNESS: He said that lack of	11:32:27AM
13	availability of the standards was a significant	11:32:27AM
14	issue for him.	11:32:33AM
15	MR. FEE: Did he identify the lack of	11:32:34AM
16	availability of one of the plaintiffs' standards in	11:32:37AM
17	particular?	11:32:41AM
18	A I don't recall.	11:32:42AM
19	Q Did he explain to you or to this is a	11:32:42AM
20	group speech he made; is that what you said? He	11:32:44AM
21	made a presentation?	11:32:46AM
22	MR. BRIDGES: Objection, compound, vague	11:32:47AM
23	and ambiguous.	11:32:49AM
24	THE WITNESS: It was testimony before a	11:32:50AM
25	federal proceeding.	11:32:52AM

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		74
1	BY MR. FEE:	11:32:53AM
2	Q During his testimony did Mr. Weimer	11:32:54AM
3	explain why he was unable to access any standards	11:32:57AM
4	through reading rooms who were purchasing copies of	11:33:00AM
5	those standards?	11:33:04AM
6	MR. BRIDGES: Objection, lacks foundation,	11:33:05AM
7	argumentative, vague and ambiguous.	11:33:06AM
8	THE WITNESS: I don't recall.	11:33:08AM
9	BY MR. FEE:	11:33:08AM
10	Q Do you recall any explanation as to why	11:33:08AM
11	Mr. Weimer could not access any of the plaintiffs'	11:33:10AM
12	standards?	11:33:13AM
13	MR. BRIDGES: Objection, lacks foundation,	11:33:15AM
14	vague and ambiguous.	11:33:16AM
15	THE WITNESS: I don't recall.	11:33:18AM
16	BY MR. FEE:	11:33:18AM
17	Q Do you recall any testimony about why	11:33:19AM
18	Mr. Weimer couldn't access any standard that had	11:33:20AM
19	been incorporated by reference by any governmental	11:33:23AM
20	agency?	11:33:26AM
21	MR. BRIDGES: Objection, lacks foundation,	11:33:28AM
22	vague and ambiguous.	11:33:28AM
23	THE WITNESS: I remember the general topic	11:33:37AM
24	of his testimony, but not the specifics.	11:33:39AM
25	BY MR. FEE:	11:33:41AM

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		75
1	Q So you can't recall any circumstance that	11:33:42AM
2	prevented him from accessing any particular	11:33:46AM
3	standard?	11:33:49AM
4	MR. BRIDGES: Objection, lacks foundation,	11:33:50AM
5	vague and ambiguous.	11:33:50AM
6	THE WITNESS: I I don't recall.	11:33:52AM
7	BY MR. FEE:	11:33:52AM
8	Q Can you identify any circumstances in	11:33:53AM
9	which any home builder, for example, was unable to	11:33:55AM
10	access standards that were incorporated by reference	11:33:58AM
11	that might be relevant to someone building a home?	11:34:00AM
12	MR. BRIDGES: Objection, competence, may	11:34:04AM
13	call for speculation, vague and ambiguous, lacks	11:34:07AM
14	foundation.	11:34:09AM
15	THE WITNESS: Mr. Peterson related such a	11:34:11AM
16	story.	11:34:13AM
17	BY MR. FEE:	11:34:15AM
18	Q Any others?	11:34:17AM
19	MR. BRIDGES: Same objections.	11:34:19AM
20	THE WITNESS: I don't recall.	11:34:22AM
21	BY MR. FEE:	11:34:22AM
22	Q So Mr. Peterson identified one instance in	11:34:23AM
23	which a home builder was unable to access a standard	11:34:26AM
24	as incorporated by reference?	11:34:29AM
25	MR. BRIDGES: Same objections.	11:34:32AM

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		76
1	THE WITNESS: It's in a video on our	11:34:34AM
2	website.	11:34:37AM
3	BY MR. FEE:	11:34:37AM
4	Q And it's one home builder?	11:34:39AM
5	MR. BRIDGES: Same objection.	11:34:44AM
6	THE WITNESS: I I don't recall.	11:34:45AM
7	BY MR. FEE:	11:34:45AM
8	Q Do you recall there being more than one	11:34:45AM
9	home builder that he referenced?	11:34:47AM
10	A I'd have to review the transcript to see	11:34:49AM
11	if he was speaking about one or many.	11:34:52AM
12	MR. BRIDGES: The answer (sic) is do you	11:34:54AM
13	recall.	11:34:56AM
14	THE WITNESS: No, I don't.	11:34:59AM
15	MR. BRIDGES: Please	11:34:59AM
16	BY MR. FEE:	11:34:59AM
17	Q Are you aware of any circumstances	11:34:59AM
18	MR. BRIDGES: I've just I've got to	11:34:59AM
19	instruct the witness. Please listen carefully to	11:34:59AM
20	his questions and answer his question.	11:35:00AM
21	THE WITNESS: Okay.	11:35:04AM
22		
23	BY MR. FEE:	11:35:04AM
24	Q Are you aware of any of the circumstances	11:35:23AM
25	that led to this home builder's inability to access	11:35:25AM

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		77
1	standards that he was governed by via incorporation	11:35:29AM
2	by reference?	11:35:35AM
3	MR. BRIDGES: Objection, lacks foundation,	11:35:38AM
4	assumes facts not in evidence, vague and ambiguous,	11:35:38AM
5	argumentative.	11:35:39AM
6	THE WITNESS: No.	11:35:41AM
7	MR. BRIDGES: I'm sorry?	11:35:41AM
8	THE WITNESS: No.	11:35:41AM
9	BY MR. FEE:	11:35:41AM
10	Q Are you aware of any evidence that that	11:35:48AM
11	home was actually not built due to this inability to	11:35:49AM
12	access standards incorporated by reference?	11:35:53AM
13	MR. BRIDGES: Objection, completely lacks	11:35:57AM
14	foundation, vague and ambiguous, argumentative.	11:35:58AM
15	THE WITNESS: No.	11:36:01AM
16	BY MR. FEE:	11:36:01AM
17	Q Have you been looking for somebody who you	11:36:36AM
18	could identify as an example of a person who	11:36:39AM
19	suffered as a result of inability to access a	11:36:44AM
20	standard incorporated by reference?	11:36:47AM
21	MR. BRIDGES: Objection, argumentative,	11:36:49AM
22	lacks foundation, argumentative or that's I	11:36:50AM
23	guess I said that vague and ambiguous.	11:36:54AM
24	THE WITNESS: No.	11:36:58AM
25	BY MR. FEE:	11:36:58AM

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		83
1	registration for any of the plaintiffs' standards?	11:43:24AM
2	MR. BRIDGES: Lacks foundation, vague and	11:43:28AM
3	ambiguous.	11:43:29AM
4	THE WITNESS: Yes.	11:43:30AM
5	BY MR. FEE:	11:43:30AM
6	Q Have you seen copyright registrations for	11:43:31AM
7	all three of the plaintiffs' works?	11:43:34AM
8	MR. BRIDGES: Same objections.	11:43:36AM
9	THE WITNESS: I don't know.	11:43:39AM
10	BY MR. FEE:	11:43:39AM
11	Q Which plaintiffs do you recall seeing	11:43:40AM
12	copyright registrations for?	11:43:42AM
13	MR. BRIDGES: Same objections.	11:43:44AM
14	THE WITNESS: I actually don't recall.	11:43:48AM
15	BY MR. FEE:	11:43:59AM
16	Q Are you aware of any evidence that any	11:44:03AM
17	participants in the ASTM standard development	11:44:06AM
18	process claimed to be the owner of the copyrights	11:44:10AM
19	for any of the standards that ASTM claims to be	11:44:13AM
20	infringed in this case?	11:44:17AM
21	MR. BRIDGES: Well, objection. Calls for	11:44:19AM
22	a legal conclusion, may call for attorney-client	11:44:20AM
23	communications, in which case I would instruct him	11:44:29AM
24	not to answer.	11:44:33AM
25	THE WITNESS: I don't know. I'm sorry.	11:44:35AM

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		84
1	MR. BRIDGES: Please let me	11:44:36AM
2	THE WITNESS: I'm sorry.	11:44:38AM
3	MR. BRIDGES: finish my objections.	11:44:38AM
4	Assumes facts not in evidence and lacks foundation.	11:44:44AM
5	BY MR. FEE:	11:44:45AM
6	Q Are you aware of any evidence that any	11:44:45AM
7	participants in the NFPA standard development	11:44:47AM
8	process claim to be the owner of the copyright for	11:44:51AM
9	any NFPA standards?	11:44:55AM
10	MR. BRIDGES: All the same objections, and	11:44:58AM
11	I can't remember if I included argumentative.	11:44:59AM
12	THE WITNESS: I don't know.	11:45:02AM
13	BY MR. FEE:	11:45:02AM
14	Q You don't know if you're aware or you're	11:45:03AM
15	not aware of any?	11:45:04AM
16	A I I'm not aware of any.	11:45:06AM
17	Q Are you aware of any evidence that members	11:45:07AM
18	or participants in the ASHRAE standard development	11:45:11AM
19	process claimed to be owners of the copyrights that	11:45:15AM
20	are at issue and were registered by ASHRAE?	11:45:19AM
21	MR. BRIDGES: I'm I'm sorry. Can you	11:45:26AM
22	repeat that, please?	11:45:26AM
23	(The reporter read the record	11:45:41AM
24	as requested.)	9:21:04AM
25	MR. BRIDGES: Okay. Calls for a legal	11:45:41AM

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		85
1	conclusion, assumes facts not in evidence,	11:45:43AM
2	argumentative, lacks foundation, vague and	11:45:45AM
3	ambiguous.	11:45:47AM
4	THE WITNESS: I'm not aware of any.	11:45:48AM
5	MR. BRIDGES: And and one other,	11:45:51AM
6	please, attorney-client privilege. I'm asking him	11:45:51AM
7	not to testify as to attorney-client privileged	11:45:55AM
8	and work product. Asking you not to testify as to	11:45:59AM
9	anything you may know from counsel or subject to	11:46:04AM
10	communication with counsel.	11:46:06AM
11	BY MR. FEE:	11:46:08AM
12	Q Are you aware of any evidence that any	11:46:08AM
13	participants in the ASTM standard development	11:46:11AM
14	process claimed to be the owners of the copyrights	11:46:14AM
15	in the standards that they were involved in?	11:46:17AM
16	MR. BRIDGES: All the same objections.	11:46:22AM
17	THE WITNESS: Same answer; I'm not aware.	11:46:24AM
18	BY MR. BRIDGES:	11:46:25AM
19	Q You're not aware of any evidence along	11:46:26AM
20	those lines?	11:46:28AM
21	MR. BRIDGES: All the same objections.	11:46:32AM
22		
23	BY MR. FEE:	11:46:33AM
24	Q Correct?	11:46:34AM
25	A I I don't want to discuss	11:46:35AM

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			89
1	Q	Do you deny saying that?	11:49:47AM
2	А	I don't think I would ever use the phrase,	11:49:50AM
3	"strong c	opyright interests," sir.	11:49:50AM
4	Q	No?	11:49:53AM
5	А	That doesn't sound like me.	11:49:53AM
6	Q	Okay. Who is Debra Hunt?	11:50:05AM
7	А	I I don't recall.	11:50:18AM
8	Q	I'm going to hand you what's been marked	11:50:32AM
9	as Exhibi	t 33. It's a series of e-mails between you	11:50:34AM
10	and Debra	Hunt, Bates-labeled PRO_166616 through 18.	11:50:38AM
11	(Ex	hibit 33 marked for identification.)	11:50:51AM
12		THE WITNESS: Yeah, this appears to be an	11:51:29AM
13	exchange	between me and and Ms. Hunt.	11:51:31AM
14	BY MR. FE	Е:	11:51:32AM
15	Q	Have you had a chance to read this e-mail	11:51:35AM
16	enough to	see that you referred to the standards	11:51:37AM
17	having a	strong copyright interest?	11:51:40AM
18	А	I do indeed.	11:51:42AM
19	Q	Okay. Does that refresh your recollection	11:51:43AM
20	about whe	ther or not you've referred to the	11:51:44AM
21	standards	as having strong copyright interests in	11:51:47AM
22	the past?		11:51:51AM
23		MR. BRIDGES: Objection, may call for a	11:51:52AM
24	legal co	nclusion and vague and ambiguous.	11:51:54AM
25		THE WITNESS: And I think you've pulled	11:51:58AM

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		99
1	standards?	12:00:36PM
2	A I don't recall.	12:00:44PM
3	Q I want to draw your attention to the first	12:00:47PM
4	page you see at the top it says on March 12, 2012	12:00:50PM
5	at 12:41 p.m., Seamus Kraft wrote and it says,	12:00:58PM
6	"can you give me a few more details on what is going	12:01:01PM
7	to happen?"	12:01:05PM
8	Do you see that?	12:01:06PM
9	A Uh-huh. Yes.	12:01:06PM
10	Q And then below there is one, two, three,	12:01:07PM
11	four, five six paragraphs and a numbered list of	12:01:09PM
12	three items. Do you see that?	12:01:15PM
13	A Yes, I do.	12:01:18PM
14	Q And then your name is below that, correct?	12:01:19PM
15	A Yes.	12:01:24PM
16	Q And isn't it correct that you wrote those	12:01:25PM
17	paragraphs that list the three items and your name	12:01:28PM
18	there?	12:01:32PM
19	A Yes.	12:01:34PM
20	Q I want to turn your attention to the	12:01:36PM
21	second paragraph on this, the one that starts with	12:01:38PM
22	sure. Do you see that?	12:01:40PM
23	A Uh-huh. Yes.	12:01:42PM
24	Q So the third sentence says all of these	12:01:42PM
25	standards are heavily copyright protected.	12:01:47PM

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			100
1		Do you see that?	12:01:50PM
2		MR. BRIDGES: Objection, misstates the	12:01:51PM
3	document	and yeah, misstates misdescribes the	12:01:52PM
4	document		12:01:58PM
5		THE WITNESS: I see that sentence in that	12:02:00PM
6	paragrap	h, yes.	12:02:02PM
7	BY MR. FE	E:	12:02:02PM
8	Q	Okay. And you wrote that, correct?	12:02:03PM
9	A	Yes, I did.	12:02:05PM
10	Q	And you were referencing the 73 standards,	12:02:06PM
11	correct?		12:02:15PM
12	A	Yes, sir.	12:02:16PM
13	Q	What did you mean when you said that all	12:02:16PM
14	of the 73	standards are heavily copyright protected?	12:02:18PM
15		MR. BRIDGES: Objection to the extent it	12:02:23PM
16	calls fo	r a legal conclusion, vague and ambiguous.	12:02:24PM
17		THE WITNESS: I meant that the standards	12:02:27PM
18	bodies w	ere very aggressive in claiming copyright	12:02:29PM
19	on those	documents.	12:02:33PM
20	BY MR. FE	E:	12:02:34PM
21	Q	So you understood that they were copyright	12:02:34PM
22	protected	?	12:02:37PM
23		MR. BRIDGES: Objection. That calls for a	12:02:38PM
24	legal co	nclusion.	12:02:40PM
25		THE WITNESS: That's not what I said. I	12:02:42PM

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		108
1	Q So it's your understanding that the NFPA	12:09:24PM
2	web NFPA website has evidence of federal	12:09:27PM
3	government employees attempting to assign whatever	12:09:31PM
4	copyrights they have to NFPA?	12:09:34PM
5	MR. BRIDGES: All the same objections as	12:09:37PM
6	to the earlier line of questions and same	12:09:38PM
7	instruction.	12:09:43PM
8	THE WITNESS: Yes.	12:09:43PM
9	BY MR. FEE:	12:09:43PM
10	Q Did you see similar information with	12:09:45PM
11	respect to the other plaintiffs in this case?	12:09:46PM
12	MR. BRIDGES: All the same objections,	12:09:49PM
13	plus lacks foundation, vague and ambiguous.	12:09:50PM
14	THE WITNESS: I actually don't recall.	12:09:53PM
15	BY MR. FEE:	12:09:54PM
16	Q Aside from federal government employees,	12:09:57PM
17	are you aware of any other evidence that	12:09:58PM
18	participants in the standard development for any of	12:10:02PM
19	the plaintiffs failed to properly transfer their	12:10:05PM
20	copyright interests to the plaintiffs in this case?	12:10:09PM
21	MR. BRIDGES: All the same objections.	12:10:11PM
22	THE WITNESS: That's totally beyond my	12:10:15PM
23	expertise. I I can't answer that question.	12:10:17PM
24	BY MR. FEE:	12:10:19PM
25	Q Does Public Resource claim to be the owner	12:10:26PM

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1		109
Ţ	of any copyrighted interest in any of the standards	12:10:29PM
2	at issue in this case?	12:10:32PM
3	MR. BRIDGES: Objection, calls for a legal	12:10:34PM
4	conclusion.	12:10:35PM
5	THE WITNESS: No.	12:10:36PM
6	BY MR. FEE:	12:10:37PM
7	Q Do you personally claim to be the owner of	12:10:37PM
8	any copyright interest for any of the standards at	12:10:39PM
9	issue in this case?	12:10:43PM
10	MR. BRIDGES: Same objections.	12:10:44PM
11	THE WITNESS: No.	12:10:46PM
12	BY MR. FEE:	12:10:46PM
13	Q Do you acknowledge that the writing of	12:11:06PM
14	plaintiffs' standards requires some sort of	12:11:09PM
15	creativity to actually put words on paper?	12:11:13PM
16	MR. BRIDGES: Objection to the extent it	12:11:17PM
17	calls for a legal conclusion, assumes many facts	12:11:19PM
18	not in evidence, lacks foundation, competence,	12:11:23PM
19	calls for speculation and vague and ambiguous.	12:11:25PM
20	THE WITNESS: I'm not qualified to answer	12:11:35PM
21	that question, sir.	12:11:36PM
22		
23	BY MR. FEE:	12:11:36PM
24	Q Are you aware of any evidence that would	12:11:36PM
25	suggest that any of the standards at issue in this	12:11:38PM

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		141
1	THE WITNESS: A specific incorporation by	1:08:27PM
2	reference for PHMSA, of the Pipeline and Hazardous	1:08:30PM
3	Materials Safety Administration is actually Section	1:08:32PM
4	192.7 of that section of the CFR.	1:08:37PM
5	BY MR. FEE:	1:08:41PM
6	Q Okay.	1:08:41PM
7	MR. FEE: What are we on?	1:09:02PM
8	THE REPORTER: Now we're on 38.	1:09:05PM
9	(Exhibit 38 marked for identification.)	1:09:06PM
10	BY MR. FEE:	1:09:07PM
11	Q I'm going to hand you what's been marked	1:09:07PM
12	as Exhibit 38. It's entitled, "Public Safety	1:09:10PM
13	Standards, United States Federal Government,"	1:09:12PM
14	PRO_166182 through 166257.	1:09:12PM
15	MR. BRIDGES: Do you have any further	1:09:29PM
16	questions on Exhibit 37 or	1:09:30PM
17	MR. FEE: We're going to be going back to	1:09:37PM
18	that.	1:09:41PM
19	BY MR. FEE:	1:09:41PM
20	Q Mr. Malamud, do you recognize what Exhibit	1:09:41PM
21	38 is?	1:09:46PM
22	A It appears to be our U.S. manifest for the	1:09:47PM
23	Code of Federal Regulations.	1:09:50PM
24	Q Can you identify a place in Exhibit 38	1:09:54PM
25	where you identify any standard or identified	1:09:57PM

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	151
of the specific standard. Those are the two	1:21:50PM
criteria we use.	1:21:53PM
THE REPORTER: 40.	1:22:12PM
(Exhibit 40 marked for identification.)	11:31:26AM
BY MR. FEE:	1:22:13PM
Q I'm going to hand you what's been marked	1:22:14PM
as Exhibit 40. It's a entitled, "Public Safety	1:22:15PM
Codes Incorporated by Law," PRO_166258 through -267.	1:22:18PM
Mr. Malamud, is Exhibit 40 essentially the	1:22:53PM
state version of Exhibit 38 that you were testifying	1:22:55PM
about earlier?	1:22:57PM
MR. BRIDGES: Objection, vague and	1:22:58PM
ambiguous.	1:22:59PM
THE WITNESS: This appears to be an older	1:23:03PM
version of our there's no date on this. When	1:23:04PM
was this screen dump taken?	1:23:13PM
BY MR. FEE:	1:23:16PM
Q Your you produced this document. Do	1:23:16PM
you see the Bates label?	1:23:17PM
A Okay. Yeah, this this says, "Public	1:23:20PM
Safety Codes Incorporated by Law" and by States	1:23:22PM
and and one city.	1:23:27PM
Q Do you believe Exhibit 40 to be an old	1:23:29PM
version of this document?	1:23:31PM
MR. BRIDGES: Objection, vague and	1:23:33PM
	<pre>of the specific standard. Those are the two criteria we use.</pre>

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1	of the standards that were posted on Public	156 1:27:37PM
2	Resource's website as a result of an incorporation	1:27:39PM
3	by reference by a nonfederal government entity?	1:27:42PM
4	A I think so.	1:27:49PM
5	MR. FEE: We've been going about an hour	1:28:58PM
6	again. Do you want to take a lunch break now?	1:29:00PM
7	MR. BRIDGES: If you want.	1:29:02PM
8	MR. FEE: Why don't we do that.	1:29:04PM
9	THE VIDEOGRAPHER: We're going off the	1:29:05PM
10	record. The time is 1:29 p.m.	1:29:06PM
11	(Lunch recess taken.)	10:27:40AM
12	THE VIDEOGRAPHER: We're back on the	2:25:54PM
13	record. The time is 2:26 p.m.	2:25:55PM
14	BY MR. FEE:	2:25:58PM
15	Q Mr. Malamud, before lunch we spoke a	2:25:59PM
16	little bit about the process that you went through	2:26:02PM
17	in purchasing and making copies of the 73 standards.	2:26:05PM
18	I I want to talk to you now about the process you	2:26:09PM
19	used to make electronic copies of some of the	2:26:12PM
20	standards going forward.	2:26:16PM
21	Can you describe briefly what process you	2:26:19PM
22	go through to post the standards at issue on your	2:26:21PM
23	website?	2:26:26PM
24	A Step one is to determine whether a	2:26:31PM
25	standard has been explicitly incorporated by	2:26:33PM

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1	reference. Step two is to get a copy of the	157 2:26:38PM
2	standard and scan it. Step three is to append a	2:26:43PM
3	cover sheet. And then Step four is to transfer it	2:26:55PM
4	onto the htdocs segment of our web server, which is	2:27:01PM
5	where documents live.	2:27:05PM
6	Q And once the document is on your htdocs	2:27:11PM
7	web server, is it generally accessible to the	2:27:14PM
8	public?	2:27:25PM
9	A Yes.	2:27:25PM
10	Q Now, for the standards that are posted on	2:27:25PM
11	your website, did you always purchase paper copies	2:27:29PM
12	of those standards and then scan them, or did you	2:27:32PM
13	buy electronic copies at times?	2:27:36PM
14	A For the standards at issue they're all	2:27:39PM
15	paper copies.	2:27:43PM
16	Q Did you purchase any of the paper copies	2:27:45PM
17	of the standards at issue directly from one of the	2:27:47PM
18	plaintiffs?	2:27:50PM
19	MR. BRIDGES: Objection, asked and	2:27:51PM
20	answered.	2:27:51PM
21	THE WITNESS: We we already went over	2:27:52PM
22	that, I believe, on NFPA and ASTM for	2:27:53PM
23	BY MR. FEE:	2:27:57PM
24	Q And that was with respect to standards	2:27:58PM
25	that are on the Public Resource website? You did	2:28:01PM

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		158
1	purchase directly from NFPA and ASTM?	2:28:05PM
2	MR. BRIDGES: Same objection.	2:28:13PM
3	THE WITNESS: Yes.	2:28:13PM
4	BY MR. FEE:	2:28:14PM
5	Q And, to the best of your recollection, you	2:28:14PM
6	never purchased electronic copies of any of the	2:28:16PM
7	standards at issue; is that right?	2:28:19PM
8	A That is correct.	2:28:23PM
9	Q Now, how did you determine whether or	2:28:23PM
10	strike that.	2:28:34PM
11	Once you obtained a paper copy of the	2:28:41PM
12	standard, who scanned that paper copy?	2:28:44PM
13	A I did.	2:28:48PM
14	Q And that's true for all the standards at	2:28:49PM
15	issue in this case?	2:28:55PM
16	A Yes.	2:28:56PM
17	Q In what file format was the output from	2:28:56PM
18	your scan?	2:29:00PM
19	MR. BRIDGES: Objection, vague, ambiguous.	2:29:03PM
20	THE WITNESS: PDF.	2:29:06PM
21	BY MR. FEE:	2:29:07PM
22	Q Did you post a PDF copy of every of the	2:29:14PM
23	standards at issue in this case on the Public	2:29:18PM
24	Resource website?	2:29:21PM
25	MR. BRIDGES: Objection, vague and	2:29:23PM

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-		159
1	ambiguous.	2:29:24PM
2	THE WITNESS: Each of the standards at	2:29:28PM
3	issue were posted on our website.	2:29:29PM
4	BY MR. FEE:	2:29:32PM
5	Q In PDF format?	2:29:33PM
6	A In PDF format.	2:29:34PM
7	Q Now, is it true that you also posted at	2:29:36PM
8	least a subset of the standards at issue in a file	2:29:39PM
9	format other than PDF?	2:29:42PM
10	A Yes.	2:29:43PM
11	Q How did you go about taking the PDF file	2:29:48PM
12	format and wind up with some other file format?	2:29:52PM
13	A Sent it to our contractor, HTC, which	2:29:55PM
14	double-keyed the standards into HTML.	2:30:01PM
15	THE WITNESS: We're going to be doing a	2:30:11PM
16	lots of acronyms, so let me know.	2:30:12PM
17	THE REPORTER: Okay. Slow it down.	2:30:13PM
18	BY MR. FEE:	2:30:16PM
19	Q Are there any other steps that were	2:30:21PM
20	implemented to take the PDF file format and arrive	2:30:23PM
21	at some other file format that was posted on the	2:30:27PM
22	Public Resource website?	2:30:29PM
23	MR. BRIDGES: Objection, vague and	2:30:31PM
24	ambiguous.	2:30:31PM
25	THE WITNESS: Well, the second step of the	2:30:33PM

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-		160
1	workflow is the double-key operation, um, and	2:30:35PM
2	that's the conversion into an HTML file with JPG	2:30:36PM
3	images, J J-P-G.	2:30:39PM
4	BY MR. FEE:	2:30:42PM
5	Q Who did the conversion of the HTM HTML	2:31:00PM
6	file into JPG?	2:31:03PM
7	A HTC did.	2:31:07PM
8	THE REPORTER: HTC?	2:31:09PM
9	THE WITNESS: HTC.	2:31:09PM
10	BY MR. FEE:	2:31:09PM
11	Q What would happen after the file was	2:31:16PM
12	converted into a JPG format and before it was posted	2:31:19PM
13	on the Public Resource website?	2:31:22PM
14	A I'm not sure I understand that question.	2:31:29PM
15	Q Okay. Right. Isn't it the case that at	2:31:34PM
16	least with some of the standards at issue you posted	2:31:37PM
17	file formats that included SVG and/or MathML	2:31:40PM
18	elements?	2:31:43PM
19	A That would be the third step of the	2:31:46PM
20	workflow after the HTML JPG step.	2:31:48PM
21	Q Okay. That's what I was trying to get at.	2:31:53PM
22	Who did that work?	2:31:54PM
23	A Point.B Studio.	2:31:55PM
24	Q And Point.B Studio is run by your wife,	2:32:03PM
25	Rebecca Malamud, correct?	2:32:07PM

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		162
1	understanding, yes.	2:33:30PM
2	BY MR. FEE:	2:33:31PM
3	Q Do you have any more detailed knowledge	2:33:32PM
4	regarding the process used that were used by your	2:33:34PM
5	contractors other than what you've already described	2:33:37PM
6	to me?	2:33:39PM
7	MR. BRIDGES: Objection, argumentative,	2:33:40PM
8	vague and ambiguous.	2:33:40PM
9	THE WITNESS: Yeah, I have a vague and	2:33:42PM
10	overall understanding of the process they went	2:33:44PM
11	through.	2:33:46PM
12	BY MR. FEE:	2:33:47PM
13	Q Okay. Well, let's start with HTC, then.	2:33:47PM
14	First of all, I want to make sure I understand. You	2:33:49PM
15	delivered to HTC PDFs of the standards at issue in	2:33:53PM
16	this case, correct?	2:33:58PM
17	A That's correct.	2:33:59PM
18	Q After HTC received the PDF files, what is	2:34:00PM
19	your understanding as to the next step that was done	2:34:06PM
20	by HTC Global?	2:34:08PM
21	A The next	2:34:10PM
22	MR. BRIDGES: Objection, vague and	2:34:12PM
23	ambiguous.	2:34:13PM
24	Sorry.	2:34:14PM
25	THE WITNESS: Next step is to take each of	2:34:15PM

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		163
1	the images inside of the document and save them as	2:34:17PM
2	a separate JPG file with a very specific	2:34:21PM
3	file-naming convention which I gave them.	2:34:25PM
4	BY MR. FEE:	2:34:27PM
5	Q What happens next at HTC, to the best of	2:34:29PM
6	your knowledge?	2:34:32PM
7	A They then go through the double-key	2:34:33PM
8	process with the text.	2:34:35PM
9	Q What is the double-key process?	2:34:40PM
10	A In the double-key process, two individuals	2:34:41PM
11	or two teams of individuals independently type in	2:34:45PM
12	the document and then the two versions are compared	2:34:50PM
13	to find any errors.	2:34:55PM
14	Q Is it your understanding as of today that	2:35:13PM
15	HTC Global engaged in a double-key process for the	2:35:15PM
16	standards at issue?	2:35:19PM
17	A Yes.	2:35:23PM
18	Q You don't believe that HTC was using OCR	2:35:40PM
19	software to deliver the HTML that was provided to	2:35:46PM
20	you?	2:35:52PM
21	MR. BRIDGES: Objection, lacks foundation,	2:35:52PM
22	vague and ambiguous, argumentative.	2:35:53PM
23	THE WITNESS: I I don't believe they	2:35:56PM
24	were.	2:35:57PM
25	BY MR. FEE:	2:35:59PM

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1	DV MD FFF.	165 2•37•26DM
T	DI MR. FEE.	2.37.20FM
2	Q Did you consider using a triple-key	2:37:27PM
3	process with HTC Global?	2:37:29PM
4	MR. BRIDGES: Objection, vague and	2:37:32PM
5	ambiguous.	2:37:33PM
6	THE WITNESS: I asked HTC for a quote for	2:37:34PM
7	triple-key.	2:37:37PM
8	BY MR. FEE:	2:37:38PM
9	Q Did HTC provide a quote for triple-key?	2:37:39PM
10	A They did.	2:37:44PM
11	Q I'm going to hand you I'm going to hand	2:37:47PM
12	you what's previously been marked as Exhibit 2.	2:37:54PM
13	It's an e-mail to you from Hemant Talwalkar,	2:37:58PM
14	Bates-label PRO_4964.	2:38:01PM
15	MR. BRIDGES: I'm sorry. Can you read	2:38:29PM
16	back his statement?	2:38:29PM
17	(The reporter read the record	2:38:30PM
18	as requested.)	2:38:30PM
19	MR. BRIDGES: I'm sorry.	
20	THE REPORTER: Sure.	
21	BY MR. FEE:	2:38:31PM
22	Q First of all, do you recognize Exhibit 2	2:38:31PM
23	as an e-mail between you and Hemant Talwalkar?	2:38:32PM
24	A It appears to be a message from Hemant to	2:38:40PM
25	me.	2:38:42PM

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		166
1	Q Is this the price quote that you were	2:38:43PM
2	referencing?	2:38:45PM
3	A It is, yes.	2:38:49PM
4	Q In the chart that has the price quote, do	2:38:50PM
5	you see that there's a column there that says,	2:38:53PM
6	"accuracy"?	2:38:56PM
7	A Yes.	2:38:59PM
8	Q And for double-key compare, it has an	2:39:00PM
9	accuracy of 99.51 percent. Do you see that?	2:39:05PM
10	A I do.	2:39:11PM
11	MR. BRIDGES: Objection.	2:39:11PM
12	THE WITNESS: I'm sorry.	2:39:13PM
13	BY MR. FEE:	2:39:16PM
14	Q Do you have an understanding as to what	2:39:17PM
15	that means?	2:39:18PM
16	MR. BRIDGES: Objection, lack of	2:39:21PM
17	competence, may call for speculation, vague and	2:39:24PM
18	ambiguous.	2:39:26PM
19	THE WITNESS: That is the error tolerance	2:39:28PM
20	for the double-key versus the triple-key process.	2:39:30PM
21	BY MR. FEE:	2:39:38PM
22	Q Is it your understanding that the e-mail	2:39:38PM
23	from Mr. Talwalkar, first of all, he's from HTC	2:39:43PM
24	Global, right?	2:39:45PM
25	A Yes.	2:39:47PM

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		167
1	Q Okay. So does his e-mail to you	2:39:47PM
2	indicating the double-key compare has an accuracy of	2:39:51PM
3	99.51 percent mean that there are up to 0.49 percent	2:39:54PM
4	inaccurate results from double-keying?	2:40:02PM
5	MR. BRIDGES: Objection, lacks foundation,	2:40:05PM
6	assumes facts not in evidence, argumentative, vague	2:40:06PM
7	and ambiguous.	2:40:09PM
8	THE WITNESS: It's it's the error	2:40:11PM
9	tolerance, are there are no more than that many	2:40:13PM
10	errors.	2:40:16PM
11	BY MR. FEE:	2:40:17PM
12	Q You understood that double-key compare	2:40:17PM
13	would lead to some inaccuracies, right?	2:40:20PM
14	MR. BRIDGES: Objection, lacks foundation.	2:40:24PM
15	THE WITNESS: Not necessarily. It depends	2:40:25PM
16	on the subject matter of of the source material.	2:40:27PM
17	BY MR. FEE:	2:40:29PM
18	Q Did you have any reason to believe that	2:40:30PM
19	the standards at issue if double-keyed would lead to	2:40:31PM
20	100 percent accuracy?	2:40:34PM
21	MR. BRIDGES: Objection, argumentative,	2:40:37PM
22	lacks foundation, vague and ambiguous.	2:40:38PM
23	THE WITNESS: I I believe that that	2:40:45PM
24	there would be a a maximum error tolerance of	2:40:45PM
25	of 99.51 minus 100.	2:40:57PM

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		168
1	BY MR. FEE:	2:41:01PM
2	Q Was it your understanding that this error	2:41:02PM
3	tolerance or strike that accuracy, I should	2:41:02PM
4	say, rate was based upon a sampling of the materials	2:41:04PM
5	that you were asking HTC Global to double-key?	2:41:08PM
6	MR. BRIDGES: Objection, lacks foundation,	2:41:13PM
7	assumes facts not in evidence, argumentative, vague	2:41:14PM
8	and ambiguous.	2:41:20PM
9	THE WITNESS: 99.51 percent is, I believe,	2:41:23PM
10	the industry standard for a double-key compare.	2:41:25PM
11	BY MR. FEE:	2:41:29PM
12	Q And HTC Global also provided you with a	2:41:33PM
13	a price quote for triple-key compare, correct?	2:41:36PM
14	A That's correct.	2:41:41PM
15	Q And the accuracy rate for triple-key	2:41:42PM
16	compare is greater than the double-key compare,	2:41:49PM
17	right?	2:41:52PM
18	MR. BRIDGES: Objection, hypotheticals,	2:41:53PM
19	lacks foundation, assumes facts not in evidence,	2:41:54PM
20	argumentative, vague and ambiguous.	2:41:55PM
21	THE WITNESS: The maximum error tolerance	2:41:57PM
22	is less for triple-key than it is for double-key.	2:42:00PM
23	BY MR. FEE:	2:42:04PM
24	Q And triple-keying is more expensive than	2:42:05PM
25	double-keying, correct?	2:42:07PM

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		169
1	MR. BRIDGES: Objection, lacks foundation,	2:42:09PM
2	vague and ambiguous.	2:42:09PM
3	THE WITNESS: On this quote it is.	2:42:11PM
4	BY MR. FEE:	2:42:15PM
5	Q And is it correct that after receiving	2:42:16PM
6	this quote, Public Resource elected to use	2:42:19PM
7	double-key compare instead of triple-key compare?	2:42:24PM
8	A Yes.	2:42:30PM
9	Q Why did it make that decision?	2:42:31PM
10	A Again, based on my research on standard	2:42:36PM
11	industry practices, double-key is what's used in the	2:42:39PM
12	legal industry.	2:42:42PM
13	Q You understood that double-keying would be	2:42:49PM
14	less accurate than triple-keying in this	2:42:51PM
15	circumstance, right?	2:42:56PM
16	MR. BRIDGES: Objection, misstates	2:42:57PM
17	testimony, lacks foundation, argumentative and	2:42:58PM
18	assumes facts not in evidence.	2:43:02PM
19	THE WITNESS: Again, I think you	2:43:05PM
20	misstated. It's the maximum error tolerance is	2:43:06PM
21	less on triple-key than on double-key.	2:43:11PM
22		
23	BY MR. FEE:	2:43:13PM
24	Q Is it true that Public Resource was	2:43:15PM
25	willing to live with a higher error tolerance in	2:43:15PM

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1	anden te esse meneu en UMC Clebelle compiese)	170
T	order to save money on HTC Global's services?	2:43:21PM
2	MR. BRIDGES: Objection, lacks foundation,	2:43:24PM
3	argumentative, vague and ambiguous.	2:43:25PM
4	THE WITNESS: Double-key seemed to be	2:43:31PM
5	perfectly appropriate for the task at hand.	2:43:33PM
6	BY MR. FEE:	2:43:37PM
7	Q So public Resource was willing to accept	2:43:37PM
8	the higher error tolerance associated with	2:43:40PM
9	double-keying	2:43:43PM
10	MR. BRIDGES: Objection	2:43:44PM
11	BY MR. FEE:	2:43:44PM
12	Q right?	2:43:44PM
13	MR. BRIDGES: Objection, misstates	2:43:44PM
14	testimony, lacks foundation, vague and ambiguous	2:43:45PM
15	and argumentative.	2:43:47PM
16	THE WITNESS: It's potentially higher	2:43:48PM
17	error tolerance under the double-key method.	2:43:48PM
18	BY MR. FEE:	2:43:52PM
19	Q Well, your supplier told you that it was	2:43:53PM
20	going to be a higher error tolerance, right?	2:43:54PM
21	MR. BRIDGES: Objection, lacks foundation,	2:43:57PM
22	vague and ambiguous.	2:43:58PM
23	THE WITNESS: Again, it depends on the	2:44:00PM
24	nature of the source material. But, yes, the	2:44:01PM
25	the the error tolerance of double-key is, in	2:44:02PM

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		171
1	fact, 99.51 percent, which is what HTC quoted.	2:44:06PM
2	BY MR. FEE:	2:44:13PM
3	Q At any point in time did you suggest to	2:44:30PM
4	any person working with Public Resource that HTC may	2:44:35PM
5	not be double-keying the standards that you had	2:44:39PM
6	provided to it?	2:44:42PM
7	MR. BRIDGES: Objection, lacks foundation,	2:44:45PM
8	vague and ambiguous.	2:44:47PM
9	THE WITNESS: I don't recall.	2:44:50PM
10	BY MR. FEE:	2:44:52PM
11	Q Have you ever suggested to Rebecca Malamud	2:45:35PM
12	that HTC Global may have been cheating and doing OCR	2:45:38PM
13	in connection with some of the work it was doing for	2:45:43PM
14	Public Resource?	2:45:46PM
15	MR. BRIDGES: Objection, vague and	2:45:47PM
16	ambiguous.	2:45:47PM
17	THE WITNESS: No, I don't recall. If you	2:45:48PM
18	have a specific message, I'd be very happy to look	2:45:48PM
19	at it.	2:45:52PM
20	BY MR. FEE:	2:45:52PM
21	Q I'm going to hand you what's been marked	2:45:53PM
22	as Exhibit 21. It's a e-mail chain between	2:45:54PM
23	Mr. Malamud and Mrs. Malamud, Bates-labeled	2:45:58PM
24	PRO_42289 through -91.	2:46:02PM
25	THE REPORTER: Kevin, you said that was	2:46:21PM

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		172
1	previously marked, right	2:46:23PM
2	MR. FEE: Yes.	2:46:25PM
3	THE REPORTER: as 21? Thanks.	2:46:26PM
4	THE WITNESS: This seems like e-mail	2:46:48PM
5	between me and Rebecca.	2:46:50PM
6	BY MR. FEE:	2:46:55PM
7	Q I want to draw your attention to the	2:46:56PM
8	fourth paragraph of this e-mail chain, fourth from	2:46:57PM
9	the top of the first page. First of all, that	2:47:00PM
10	portion of the e-mail is a e-mail written by you to	2:47:04PM
11	Ms. Malamud, correct?	2:47:06PM
12	A That's correct.	2:47:10PM
13	Q And do you see the fourth paragraph it	2:47:10PM
14	says, "All the docs you see are in theory	2:47:13PM
15	double-keyed. Of course, they may cheat and do OCR	2:47:15PM
16	first and then do their QA."	2:47:21PM
17	Do you recall having that communication	2:47:23PM
18	with Ms. Malamud?	2:47:26PM
19	A Yes. I just told you that this appears to	2:47:28PM
20	be e-mail between me and Rebecca.	2:47:31PM
21	Q Did you have reason to believe that HTC	2:47:34PM
22	Global may have been may have been cheating and	2:47:36PM
23	not double-keying the work they were doing for you?	2:47:40PM
24	A No.	2:47:42PM
25	Q Why did you say that, then?	2:47:44PM

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			183
1	Q	My math is wrong. You can go ahead and	3:02:20PM
2	say it.		3:02:22PM
3		It's about 175,000 kilo-characters?	3:02:23PM
4	A	\$350,000	3:02:27PM
5		MR. BRIDGES: The math will speak for	3:02:28PM
6	itself.		3:02:29PM
7		THE WITNESS: Yeah, it's 700,000	3:02:31PM
8	kilo-cha	racters, right?	3:02:34PM
9	BY MR. FE	EE:	3:02:35PM
10	Q	Oh, you're right. It's double. I'm not	3:02:36PM
11	doing mat	h today.	3:02:36PM
12		Do you know how many page	3:02:39PM
13	kilo-char	acters there are on an average page in a	3:02:41PM
14	standard?		3:02:43PM
15		MR. BRIDGES: Objection, lacks foundation,	3:02:47PM
16	vague an	d ambiguous.	3:02:47PM
17		THE WITNESS: I knew that at one point.	3:02:49PM
18	It's not	t on off the top of my head.	3:02:50PM
19	BY MR. FE	EE:	3:02:52PM
20	Q	So, Mr. Malamud, we were talking about the	3:05:23PM
21	process b	by which you took paper versions and they	3:05:24PM
22	wound up	being posted on your website. And we've	3:05:28PM
23	now talke	ed a lot about the double-keying that was	3:05:33PM
24	done by H	ITC Global. After you received the results	3:05:36PM
25	or the en	d work from HTC Global, what happened next	3:05:40PM

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1	in the process at Public Resource?	184 3:05:44PM
2	A Performed quality assurance, validated the	3:05:49PM
3	HTML, made sure that all the JPG images were there,	3:05:55PM
4	so did a link validity check, and then pushed them	3:06:00PM
5	to our web server.	3:06:09PM
6	Q And that would complete the process with	3:06:13PM
7	respect to standards that are posted in HTML format,	3:06:15PM
8	right?	3:06:18PM
9	A That's a good high-level overview of the	3:06:19PM
10	work flow, yes.	3:06:22PM
11	Q Now, you had also mentioned that there	3:06:23PM
12	were some standards for which Point.B Studios did	3:06:25PM
13	some additional work; is that right?	3:06:31PM
14	A That's correct.	3:06:32PM
15	Q Okay. First of all, how would you go	3:06:32PM
16	about identifying which standards you would had ask	3:06:35PM
17	Point.B Studios to do work on?	3:06:38PM
18	A Based on my personal judgment of what	3:06:42PM
19	were were compelling standards that deserved that	3:06:44PM
20	next level of the workflow, given our limited	3:06:47PM
21	budget.	3:06:50PM
22	Q Once you identified an appropriate	3:06:51PM
23	standard for Point.B Studios to work upon, what	3:06:53PM
24	happened next?	3:06:57PM
25	A The job was very specific: take the HTML	3:06:59PM

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1	file and the TDC impress convert the TDC impress	185
T	The and the JPG images, convert the JPG images	3:07:02PM
2	exactly into SVG SVG, silicon vector graphics or	3:07:06PM
3	whatever that is and MathML, which is a language	3:07:09PM
4	for typesetting mathematical formulas.	3:07:20PM
5	Q Prior to the first time you retained	3:07:33PM
6	Point.B Studios to do this work on converting JPG	3:07:39PM
7	images, what experience or expertise were you aware	3:07:41PM
8	of that Point.B Studios had with respect to that	3:07:46PM
9	type of activity?	3:07:49PM
10	A Rebecca Malamud is a expert on SVG graphic	3:07:56PM
11	design, use of graphic processing tools.	3:08:00PM
12	Q Had to the best of your knowledge, had	3:08:05PM
13	Point.B Studios ever done a project similar to what	3:08:12PM
14	you had asked Point.B Studios to do for Public	3:08:15PM
15	Resource?	3:08:18PM
16	MR. BRIDGES: Objection, competence, vague	3:08:19PM
17	and ambiguous.	3:08:22PM
18	THE WITNESS: I know they had worked	3:08:26PM
19	extensively with SVG and with the the tools used	3:08:27PM
20	to process SVG.	3:08:31PM
21	BY MR. FEE:	3:08:33PM
22	Q Would that include taking JPG file formats	3:08:34PM
23	and converting them into SVG file formats?	3:08:39PM
24	MR. BRIDGES: Same objections.	3:08:44PM
25	THE WITNESS: I'm not aware of anyone	3:08:44PM

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		188
1	speculation.	3:11:03PM
2	THE WITNESS: No, I don't.	3:11:04PM
3	BY MR. FEE:	3:11:05PM
4	Q Do you know if children did that work?	3:11:05PM
5	MR. BRIDGES: Objection, argumentative,	3:11:08PM
6	lacks foundation.	3:11:08PM
7	THE WITNESS: I know Rebecca ran a	3:11:12PM
8	mentoring program teaching people graphic design	3:11:13PM
9	skills.	3:11:17PM
10	MR. BRIDGES: Please answer his question.	3:11:18PM
11	THE WITNESS: Okay. I'm sorry. Please	3:11:20PM
12	repeat the question.	3:11:21PM
13	BY MR. FEE:	3:11:22PM
14	Q My question is if you were aware of	3:11:22PM
15	whether or not children were doing the conversion	3:11:25PM
16	from JPG to MathML or SVG.	3:11:28PM
17	MR. BRIDGES: Objection, argumentative,	3:11:32PM
18	lacks foundation, vague and ambiguous.	3:11:33PM
19	THE WITNESS: Children. I'm sorry. Is	3:11:35PM
20	do you have a particular age limit in mind or	3:11:37PM
21	BY MR. FEE:	3:11:41PM
22	Q Why don't we start with under 18.	3:11:41PM
23	A Yes, I believe some students were	3:11:46PM
24	involved.	3:11:48PM
25	Q Do you know which students were involved?	3:11:52PM

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		189
1	A No.	3:11:58PM
2	Q Was were these students involved	3:11:58PM
3	through something called Rural Design Collection	3:12:02PM
4	(sic)?	3:12:03PM
5	A That's correct.	3:12:06PM
6	Q And are you aware of whether or not Rural	3:12:07PM
7	Design Collective says that its target group is	3:12:11PM
8	children ages 7 to 14?	3:12:16PM
9	A If that's what it says on their website.	3:12:20PM
10	I I just don't recall.	3:12:23PM
11	Q Would it be your expectation that there	3:12:27PM
12	are children ages 7 to 14 doing the conversion of	3:12:29PM
13	the JPG file format images to MathML and SVG on	3:12:33PM
14	for Public Resource?	3:12:40PM
15	MR. BRIDGES: Objection, lacks foundation,	3:12:44PM
16	vague and ambiguous.	3:12:45PM
17	THE WITNESS: I would be speculating, but	3:12:46PM
18	that sounds awfully advanced for a 7-year-old.	3:12:48PM
19	BY MR. FEE:	3:12:52PM
20	Q Do you have any understanding as to the	3:12:53PM
21	age range of the kids who are working on a	3:12:54PM
22	conversion process for Point.B Studios' project for	3:12:58PM
23	Public Resource?	3:13:02PM
24	MR. BRIDGES: Objection, lacks foundation,	3:13:04PM
25	may call for speculation, vague and ambiguous,	3:13:04PM

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1		190
T	argumentative.	3:13:11PM
2	THE WITNESS: My sole point of contact was	3:13:13PM
3	Rebecca, and the job was very simple: JPG in, SVG	3:13:14PM
4	and MathML back out. And that was my concern.	3:13:19PM
5	BY MR. FEE:	3:13:22PM
6	Q Did you at least understand that a group	3:13:50PM
7	of students from RDC, Rural Design Collective, were	3:13:52PM
8	doing the converting of the formulas and graphics on	3:13:57PM
9	the standards that you asked them to work on?	3:14:00PM
10	Strike that.	3:14:04PM
11	Do you at least understand that a group of	3:14:05PM
12	students from Rural Design Collective were doing the	3:14:07PM
13	conversion of formulas and graphics for the	3:14:13PM
14	standards work that you had asked Point.B Studios to	3:14:16PM
15	do for Public Resource?	3:14:23PM
16	MR. BRIDGES: Objection, lacks foundation,	3:14:25PM
17	argumentative, vague and ambiguous.	3:14:25PM
18	THE WITNESS: They did a lot more than	3:14:26PM
19	standards, the California Code of Regulations, for	3:14:27PM
20	example, the graphics images in there which are not	3:14:28PM
21	standards.	3:14:31PM
22		
23	BY MR. FEE:	3:14:32PM
24	Q But you understood that children at Rural	3:14:32PM
25	Design Collective were working on the conversion of	3:14:34PM

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		191
1	the standards that you posted on your website?	3:14:37PM
2	MR. BRIDGES: Same objections.	3:14:41PM
3	THE WITNESS: I know that students were	3:14:42PM
4	working on a conversion of JPG images into SVG and	3:14:46PM
5	MathML. I don't know which specific items anybody	3:14:51PM
6	worked on.	3:14:55PM
7	BY MR. FEE:	3:14:56PM
8	Q And you know that those kids were working	3:14:56PM
9	on that a conversion for work that was requested	3:14:58PM
10	by Public Resource?	3:15:00PM
11	MR. BRIDGES: Same objections.	3:15:03PM
12	THE WITNESS: Yes.	3:15:07PM
13	BY MR. FEE:	3:15:08PM
14	Q Were those kids paid?	3:15:11PM
15	MR. BRIDGES: Objection, competence, may	3:15:14PM
16	call for speculation.	3:15:16PM
17	THE WITNESS: I really don't know.	3:15:18PM
18	BY MR. FEE:	3:15:27PM
19	Q Did Public Resource provide any funds to	3:15:27PM
20	Point.B Studios for this student program?	3:15:31PM
21	MR. BRIDGES: Objection, lacks foundation,	3:15:36PM
22	argumentative, vague and ambiguous.	3:15:37PM
23	THE WITNESS: Yes. Several summers in a	3:15:41PM
24	row I added extra money to the monthly fee that we	3:15:43PM
25	paid to Point.B with the understanding that it	3:15:46PM

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		194
1	optimized for viewing on the web in multiple	3:18:42PM
2	platforms, all right, so there's a and then the	3:18:47PM
3	third item is an SVG source directory, which	3:18:49PM
4	included the core work files in MathML and the fully	3:18:54PM
5	editable SVG graphics.	3:19:00PM
6	Q What would you do with all those files?	3:19:04PM
7	MR. BRIDGES: Objection, vague and	3:19:10PM
8	ambiguous.	3:19:11PM
9	THE WITNESS: A series of quality	3:19:11PM
10	assurance checks, link validity, HTML validity, a	3:19:12PM
11	comparison of at least some of the JPGs to the	3:19:18PM
12	SVGs, a quality assurance step.	3:19:23PM
13	BY MR. FEE:	3:19:27PM
14	Q Did anything else happen after that and	3:19:28PM
15	before the files were posted to the web?	3:19:30PM
16	MR. BRIDGES: Objection, vague and	3:19:33PM
17	ambiguous.	3:19:34PM
18	THE WITNESS: Once I was satisfied that	3:19:36PM
19	the work was properly done, then we posted it	3:19:37PM
20	online.	3:19:40PM
21	BY MR. FEE:	3:19:42PM
22	Q Now, for all the files that you posted	3:19:43PM
23	online, where did you post these files?	3:19:45PM
24	A On	3:19:51PM
25	MR. BRIDGES: Objection, lacks foundation	3:19:52PM

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1	and wages and ambiguous	195
T	and vague and amoiguous.	3:19:53PM
2	THE WITNESS: On Law.Resource.Org.	3:19:56PM
3	BY MR. FEE:	3:19:59PM
4	Q Did you also post some version of	3:20:01PM
5	plaintiffs' standards on Internet Archive at or	3:20:06PM
6	around the same time as you posted them on the	3:20:10PM
7	Public Resource website?	3:20:12PM
8	MR. BRIDGES: Objection, argumentative,	3:20:15PM
9	lacks foundation, vague and ambiguous.	3:20:17PM
10	THE WITNESS: Are we still talking about	3:20:19PM
11	SVG and HTML files?	3:20:20PM
12	BY MR. FEE:	3:20:23PM
13	Q No. I'm asking a more general question	3:20:23PM
14	now. I maybe I should take a step back.	3:20:25PM
15	Have you completed the story as to how the	3:20:27PM
16	files received from Point.B Studios go from Point.B	3:20:30PM
17	Studios to Public Resource to being posted for the	3:20:33PM
18	public to view on the web.	3:20:38PM
19	MR. BRIDGES: Objection, calling for a	3:20:40PM
20	narrative, vague and ambiguous, argumentative,	3:20:40PM
21	lacks foundation.	3:20:43PM
22	THE WITNESS: That was a high-level	3:20:44PM
23	overview of the workflow.	3:20:45PM
24	BY MR. FEE:	3:20:46PM
25	Q So at or around the time that any of the	3:20:47PM

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<pre>standards, either in PDF form or HTML with SVG or MathML, are posted on a Public Resource website, would Public Resource also post some version of that</pre>	3:20:52PM 3:20:56PM
MathML, are posted on a Public Resource website, would Public Resource also post some version of that	3:20:56PM
would Public Resource also post some version of that	
	3:20:59PM
standard on the Internet Archive?	3:21:03PM
MR. BRIDGES: Objection, hypothetical,	3:21:06PM
lacks foundation, vague and ambiguous.	3:21:07PM
THE WITNESS: Some of the PDF documents	3:21:10PM
were added to my Internet Archive collection.	3:21:13PM
BY MR. FEE:	3:21:19PM
Q How do you decide which of the PDF	3:21:24PM
documents containing standards were on your Internet	3:21:27PM
Archive collection?	3:21:30PM
MR. BRIDGES: Objection, vague and	3:21:34PM
ambiguous.	3:21:34PM
THE WITNESS: I tried to get most of the	3:21:35PM
ones that were PDF files that were standards	3:21:37PM
incorporated by reference into that that	3:21:40PM
collection.	3:21:42PM
BY MR. FEE:	3:21:42PM
Q Why did you only post PDF versions of the	3:21:43PM
standards to the Internet Archive?	3:21:47PM
MR. BRIDGES: Objection, argumentative,	3:21:49PM
lacks foundation.	3:21:50PM
THE WITNESS: The Internet Archive doesn't	3:21:51PM
have an HTML viewing capability.	3:21:53PM
	<pre>standard on the Internet Archive?</pre>

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1		204
1	(Recess taken.)	10:27:40AM
2	THE VIDEOGRAPHER: We're back on the	3:48:01PM
3	record. The time is 3:48 p.m. This marks the	3:48:02PM
4	beginning of Disc No. 3 in the deposition of Carl	3:48:07PM
5	Malamud.	3:48:09PM
6	BY MR. FEE:	3:48:10PM
7	Q Mr. Malamud, before you posted any copies	3:48:14PM
8	of the plaintiffs' standards at issue on the Public	3:48:19PM
9	Resource website, did you obtain the consent of any	3:48:23PM
10	of the plaintiffs?	3:48:27PM
11	MR. BRIDGES: Objection, argumentative.	3:48:28PM
12	THE WITNESS: No.	3:48:32PM
13	BY MR. FEE:	3:48:32PM
14	Q Did you attempt to get the consent of any	3:48:33PM
15	of the plaintiffs?	3:48:36PM
16	MR. BRIDGES: Same objections,	3:48:38PM
17	argumentative, vague and ambiguous.	3:48:38PM
18	THE WITNESS: I talked to at least one of	3:48:40PM
19	the plaintiffs, NFPA.	3:48:43PM
20	BY MR. FEE:	3:48:45PM
21	Q Did you ask for NFPA's permission to post	3:48:45PM
22	the standards on the website?	3:48:48PM
23	MR. BRIDGES: Objection, argumentative.	3:48:51PM
24	THE WITNESS: We discussed broader	3:48:52PM
25	availability of standards and the issues that were	3:48:54PM

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		205
1	involved.	3:48:56PM
2	BY MR. FEE:	3:48:57PM
3	Q But you don't contend that NFPA consented	3:48:57PM
4	to your posting of the standards on your website,	3:48:59PM
5	correct?	3:49:04PM
6	MR. BRIDGES: Objection. To the extent it	3:49:05PM
7	calls for a legal conclusion or position in this	3:49:06PM
8	lawsuit, that's going to be attorney that's	3:49:08PM
9	going to be legal opinion and attorney-client	3:49:10PM
10	privileged and attorney work product. If you want	3:49:15PM
11	to ask what Public Resource's public statements	3:49:18PM
12	have been outside the context of this litigation,	3:49:21PM
13	feel free, but I'm going to instruct him not to	3:49:24PM
14	talk about what the positions are taken by the	3:49:27PM
15	counsel in the lawsuit.	3:49:30PM
16	BY MR. FEE:	3:49:31PM
17	Q You're instructing him not answer whether	3:49:32PM
18	or not NFPA granted consent to the posting of those	3:49:34PM
19	standards on Mr. Malamud's website on the grounds of	3:49:37PM
20	privilege?	3:49:41PM
21	MR. BRIDGES: I don't think that's what	3:49:41PM
22	the question maybe I'm wrong, but could the	3:49:41PM
23	court reporter please reread the question?	3:49:42PM
24	THE REPORTER: Okay.	3:49:45PM
25	(The reporter read the record	3:49:45PM

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		206
1	as requested.)	9:21:04AM
2	MR. BRIDGES: Oh, okay. All right.	3:50:07PM
3	It's it's argumentative and vague and ambiguous.	3:50:07PM
4	THE WITNESS: No.	3:50:12PM
5	MS. RUBEL: 43?	3:51:22PM
6	THE REPORTER: 43.	3:51:23PM
7	(Exhibit 43 marked for identification.)	3:51:24PM
8	BY MR. FEE:	3:51:26PM
9	Q Mr. Malamud, I'm going to hand you what's	3:51:26PM
10	been marked as Exhibit 43. It is a spreadsheet. On	3:51:29PM
11	the first page it has headers of downloads,	3:51:36PM
12	identifier and title.	3:51:38PM
13	Can you identify what Exhibit 43 is?	3:52:15PM
14	A No. What is this document?	3:52:17PM
15	Q This is a document that was produced in	3:52:19PM
16	by your your counsel in connection with this	3:52:19PM
17	case.	3:52:22PM
18	A Okay.	3:52:22PM
19	Q So what I I don't know what this is,	3:52:24PM
20	obviously, that's why I'm asking, but in the	3:52:30PM
21	left-hand column you see a reference to downloads.	3:52:33PM
22	At some point in time did you try to create a	3:52:35PM
23	spreadsheet that identified the number of downloads	3:52:39PM
24	of various ASTM standards from your website?	3:52:41PM
25	A You know, I don't recall this document.	3:52:44PM

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		207
1	Do you have a date?	3:52:58PM
2	Q This is the document as it was produced.	3:53:00PM
3	It's a it was produced as an Excel spreadsheet	3:53:02PM
4	with just this data in it, I believe. The Bates	3:53:06PM
5	label for the record is PRO_0023265.	3:53:08PM
6	A So when I see the word "identifier," that	3:53:17PM
7	tells me that this is data obtained from the	3:53:21PM
8	Internet Archive search engine.	3:53:23PM
9	Q Did you at some point in time attempt to	3:53:29PM
10	determine how many downloads there were from the	3:53:31PM
11	Internet Archive website of standards that you had	3:53:35PM
12	posted to the Internet Archive website?	3:53:39PM
13	MR. BRIDGES: Objection, vague and	3:53:41PM
14	ambiguous.	3:53:41PM
15	THE WITNESS: Yes, I did.	3:53:43PM
16	BY MR. FEE:	3:53:48PM
17	Q Is that what defendant's exhibit or	3:53:48PM
18	what Exhibit 43 is?	3:53:48PM
19	MR. BRIDGES: Objection, may call for	3:53:51PM
20	speculation, competence.	3:53:52PM
21	THE WITNESS: It would require speculation	3:53:53PM
22	on my part, that's certain. Yes.	3:53:55PM
23	BY MR. FEE:	3:53:57PM
24	Q Are you able to identify how many times	3:54:59PM
25	any particular ASTM standard that you posted to the	3:55:02PM

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		208
1	Internet Archive had been downloaded by individuals	3:55:05PM
2	at the Internet Archive website?	3:55:09PM
3	MR. BRIDGES: Objection, competence, calls	3:55:13PM
4	for speculation, vague and ambiguous.	3:55:14PM
5	THE WITNESS: I can run the advanced	3:55:18PM
6	search query and ask for the download identifier	3:55:19PM
7	and title fields from the Internet Archive.	3:55:22PM
8	BY MR. FEE:	3:55:26PM
9	Q And you had done that before in connection	3:55:27PM
10	with this matter?	3:55:29PM
11	A Yes.	3:55:31PM
12	Q But you're not sure if Exhibit 43 is the	3:55:33PM
13	end result of that search?	3:55:35PM
14	A I I have no idea if this is	3:55:37PM
15	intermediate work product, what the date is. I	3:55:39PM
16	don't know.	3:55:42PM
17	BY MR. FEE:	3:55:52PM
18	Q I'm going to hand you a spreadsheet that	3:55:52PM
19	was produced in native format as PRO_00345530. It's	3:55:55PM
20	going to be marked as Exhibit 44.	3:56:03PM
21	(Exhibit 44 marked for identification.)	3:56:09PM
22		
23	BY MR. FEE:	3:56:09PM
24	Q Can you identify Exhibit 44?	3:56:48PM
25	A This appears to be an initial stats run on	3:56:50PM

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1	an HTML version that was produced in conjunction	224 4:31:36PM
2	with HTC and and yourself; is that correct?	4:31:40PM
3	MR. BRIDGES: If he's asking about the	4:31:46PM
4	whole document, then make sure that you understand	4:31:47PM
5	the whole document and answer the question.	4:31:50PM
6	THE WITNESS: Uh-huh. Yes.	4:31:52PM
7	BY MR. REHN:	4:31:57PM
8	Q And and when and the other link	4:31:59PM
9	would generally be a link to a PDF, and and the	4:32:01PM
10	way that that PDF was made was you scanned the	4:32:08PM
11	standard as it was purchased, ran OCR and uploaded	4:32:11PM
12	that with your cover page attached as well?	4:32:16PM
13	A Yes.	4:32:19PM
14	Q And the cover page has a representation	4:32:19PM
15	these standards have been incorporated by reference;	4:32:22PM
16	is that right?	4:32:25PM
17	A Yes, sir.	4:32:29PM
18	Q Now, when we see examples of standards	4:32:30PM
19	where there's only one link, like if you'll turn to	4:32:34PM
20	the second page of this document, you'll look, for	4:32:37PM
21	example, in Connecticut and you'll see in the	4:32:40PM
22	electrical column there's the NEC 2005. Do you see	4:32:43PM
23	that?	4:32:49PM
24	A Yes, I do.	4:32:49PM
25	Q In that case, do you know which do you	4:32:51PM

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1	0 Including downloading a conv of the	254 5•04•22PM
2	standards that are listed here?	5•04•23PM
2		5.04.25PM
3	MR. BRIDGES: Objection, lacks foundation,	5:04:25PM
4	assumes facts not in evidence, vague and ambiguous.	5:04:26PM
5	THE WITNESS: You can view the object and,	5:04:29PM
6	yes, they do have a download button.	5:04:33PM
7	BY MR. REHN:	5:04:36PM
8	Q So you could, for example, download a copy	5:04:36PM
9	to your desktop on your computer at home?	5:04:38PM
10	MR. BRIDGES: Objection, hypothetical and	5:04:41PM
11	assumes facts not in evidence.	5:04:45PM
12	THE WITNESS: Yes.	5:04:47PM
13	BY MR. REHN:	5:04:47PM
14	Q If you can take a quick look at another	5:04:48PM
15	document. I think this will be No. 50. Sorry.	5:04:52PM
16	Wide table here.	5:05:39PM
17	(Exhibit 50 marked for identification.)	11:31:26AM
18	BY MR. REHN:	
19	Q And Exhibit 50 has a column marked	5:05:46PM
20	downloads, then a column marked identifier and a	5:05:50PM
21	column marked title; is that correct.	5:05:53PM
22	MR. BRIDGES: You're asking about the	5:05:57PM
23	exhibit paper itself, I assume? Otherwise, I'm	5:05:59PM
24	objecting.	5:06:03PM
25	THE WITNESS: That's what this piece of	5:06:04PM

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		255
1	paper says, yes.	5:06:05PM
2	BY MR. REHN:	5:06:06PM
3	Q And I can represent to you that this is a	5:06:07PM
4	document that Public Resource produced to the	5:06:09PM
5	plaintiffs in this litigation.	5:06:12PM
6	MR. BRIDGES: Do you have a Bates number	5:06:14PM
7	on that, since this doesn't?	5:06:15PM
8	MR. REHN: Hold on. I e-mailed it to	5:06:18PM
9	Kevin. It's the first one e-mailed to you today.	5:06:21PM
10	It should be like one page.	5:06:53PM
11	MR. FEE: PRO_00232652, 232652.	5:07:02PM
12	MR. BRIDGES: Thank you.	5:07:15PM
13	BY MR. REHN:	5:07:20PM
14	Q But have you seen this document before?	5:07:20PM
15	A Yes.	5:07:25PM
16	Q You have seen this document before today?	5:07:27PM
17	A I have seen the data on this document.	5:07:34PM
18	Q And what's your understanding of what that	5:07:37PM
19	data represents?	5:07:40PM
20	A It's the result of an advanced query on	5:07:42PM
21	the search interface for the Internet Archive with	5:07:45PM
22	three pieces of data returned, the number of	5:07:48PM
23	downloads, the identifier and the title of	5:07:50PM
24	THE REPORTER: I'm sorry. The three	5:07:50PM
25	pieces of data returned	5:07:50PM

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		256
1	THE WITNESS: Which include the downloads,	5:07:55PM
2	the identifier and the title.	5:07:55PM
3	THE REPORTER: Thank you.	5:07:58PM
4	BY MR. REHN:	5:07:59PM
5	Q Did you run that query?	5:08:02PM
6	A Yes.	5:08:03PM
7	Q To produce this data?	5:08:04PM
8	A Yes.	5:08:06PM
9	Q Do you remember when you ran that query?	5:08:06PM
10	A No.	5:08:09PM
11	Q Could you give me a was it six months	5:08:10PM
12	ago, a year ago? Do you have any rough ballpark	5:08:14PM
13	recollection?	5:08:18PM
14	A January 2014 is my rough recollection.	5:08:20PM
15	Q So a little over a year ago?	5:08:24PM
16	A Correct.	5:08:26PM
17	Q And your understanding is that as of that	5:08:27PM
18	date, this represents the number of times each of	5:08:29PM
19	these standards have been downloaded on the Internet	5:08:32PM
20	Archive website?	5:08:34PM
21	MR. BRIDGES: Objection, may call	5:08:39PM
22	speculation, assumes facts not in evidence, lacks	5:08:41PM
23	foundation.	5:08:42PM
24	THE WITNESS: Download is a very imprecise	5:08:43PM
25	term. It's it's what the Internet Archive says	5:08:45PM

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		268
1	how it was typed in	5:22:52PM
2	THE REPORTER: in the transcription.	5:22:52PM
3	MR. REHN: I'll just repeat the question.	5:22:58PM
4	BY MR. REHN:	5:22:59PM
5	Q Between on Rows 2 through 24 in the	5:22:59PM
6	identifier column, each identifier begins	5:23:01PM
7	gov.law.nfpa and is followed by the number of the	5:23:04PM
8	standard; is that correct?	5:23:12PM
9	MR. BRIDGES: You're talking about the	5:23:13PM
10	document? I'll I'll object to the extent that	5:23:15PM
11	you're asking a question beyond what is stated on	5:23:16PM
12	this document.	5:23:20PM
13	THE WITNESS: It is Rows 2 through 25, not	5:23:23PM
14	Rows 2 through 24, and some of the identifiers have	5:23:26PM
15	a number and some say NEC.	5:23:32PM
16	BY MR. REHN:	5:23:36PM
17	Q Right. So, for example, in Row 12 it	5:23:37PM
18	says, gov.law.nfpa.NEC.2011.	5:23:40PM
19	A That is, in fact, what it says.	5:23:47PM
20	Q And then on Row 26, what does the	5:23:50PM
21	identifier say there?	5:23:52PM
22	MR. BRIDGES: By the way, objection, lack	5:23:59PM
23	of foundation, assumes facts not in evidence, vague	5:24:00PM
24	and ambiguous.	5:24:02PM
25	THE WITNESS: It says, NFPA.NEC.2014.	5:24:04PM

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		269
1	BY MR. REHN:	5:24:09PM
2	Q And is it your understanding that is the	5:24:10PM
3	identifier you used when you uploaded that	5:24:10PM
4	particular document to the Internet Archive website?	5:24:13PM
5	MR. BRIDGES: Objection, lacks foundation,	5:24:16PM
6	assumes facts not in evidence and argumentative,	5:24:17PM
7	vague and ambiguous.	5:24:21PM
8	THE WITNESS: It apparently is.	5:24:30PM
9	BY MR. REHN:	5:24:32PM
10	Q I'd invite you just to scroll through this	5:24:32PM
11	document. Are there any other standards listed in	5:24:36PM
12	this document that do not begin gov.law?	5:24:38PM
13	MR. BRIDGES: I'm sorry. Can you can I	5:25:02PM
14	have the court reporter repeat the question?	5:25:02PM
15	(The reporter read the record	5:25:02PM
16	as requested.)	9:21:04AM
17	MR. BRIDGES: Objection, misleading, lacks	5:25:03PM
18	foundation, mischaracterizes testimony, I think.	5:25:05PM
19	And if it presumes to be based on earlier	5:25:09PM
20	testimony, argumentative and vague and ambiguous.	5:25:14PM
21	THE WITNESS: All of the identifiers in	5:25:19PM
22	Column A, with the exception of Row 26, begin with	5:25:21PM
23	gov.law.	5:25:25PM
24	BY MR. REHN:	5:25:29PM
25	Q So do you know why you picked a different	5:25:29PM

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		271
1	(Recess taken.)	10:27:40AM
2	THE VIDEOGRAPHER: We're back on the	5:40:19PM
3	record. The time is 5:41 p.m. This marks the	5:40:23PM
4	beginning of Disc No. 4 in the deposition of Carl	5:40:27PM
5	Malamud.	5:40:30PM
6	BY MR. REHN:	5:40:31PM
7	Q Could I just ask you to clarify again what	5:40:31PM
8	your understanding of the word "access" is is, as	5:40:34PM
9	we've been discussing it?	5:40:38PM
10	MR. BRIDGES: Objection to the extent it's	5:40:41PM
11	not in the context of a particular question, vague	5:40:42PM
12	and ambiguous, lacks foundation.	5:40:46PM
13	THE WITNESS: I can tell you what access	5:40:48PM
14	means in the context of the web server that I	5:40:50PM
15	operate.	5:40:52PM
16	BY MR. REHN:	5:40:53PM
17	Q Sure.	5:40:53PM
18	A Access is an HTTP GET request from a	5:40:55PM
19	client, G-E-T, which returns data successfully that	5:41:01PM
20	the client had asked for.	5:41:08PM
21	Q So it means that when you say "client,"	5:41:11PM
22	you mean somebody who is using your website,	5:41:14PM
23	somebody who is on the Internet and goes to your	5:41:16PM
24	website? Is that what you mean by the word "client"	5:41:19PM
25	in that	5:41:23PM

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		272
1	MR. BRIDGES: Objection, lacks foundation.	5:41:24PM
2	THE WITNESS: I mean another computer on	5:41:26PM
3	the Internet that contacts the HTTP server on my	5:41:27PM
4	computer.	5:41:31PM
5	BY MR. REHN:	5:41:32PM
6	Q So when that other computer receives	5:41:32PM
7	information from your server that they've requested,	5:41:35PM
8	that's an access?	5:41:38PM
9	A The way I count accesses is I look for a	5:41:42PM
10	status code 200, which is a complete transfer of the	5:41:46PM
11	requested file, or a series of access codes 206,	5:41:51PM
12	which are partial transfers as used on, for example,	5:41:57PM
13	a mobile phone that gets a piece of a document, then	5:42:01PM
14	another piece, then another piece.	5:42:05PM
15	Q And when you have the series of transfers,	5:42:08PM
16	you only count it as an access if they sum to the	5:42:10PM
17	entire document?	5:42:14PM
18	A No.	5:42:15PM
19	MR. BRIDGES: Objection, mischaracterizes	5:42:17PM
20	his testimony.	5:42:19PM
21	THE WITNESS: The way I count it is very	5:42:20PM
22	specific. It is the number of 200 or 206 status	5:42:27PM
23	codes by a unique IP address to a unique document	5:42:31PM
24	within a given hour.	5:42:35PM
25	BY MR. REHN:	5:42:45PM

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		274
1	MR. BRIDGES: Objection, lacks foundation,	5:43:48PM
2	vague and ambiguous.	5:43:49PM
3	THE WITNESS: I know that some people	5:43:50PM
4	count unique accesses over a 24-hour period, not a	5:43:51PM
5	one-hour period, so I think I'm actually being more	5:43:56PM
6	conservative.	5:43:58PM
7	BY MR. REHN:	5:44:00PM
8	Q And do you is it your understanding	5:44:00PM
9	that the Internet Archive's method for counting	5:44:01PM
10	accesses is similar to what you've described?	5:44:05PM
11	MR. BRIDGES: Objection, competence, lacks	5:44:09PM
12	foundation, may call for speculation, vague and	5:44:09PM
13	ambiguous.	5:44:09PM
14	THE WITNESS: My understanding is that	5:44:13PM
15	they count over a 24-hour period.	5:44:14PM
16	BY MR. REHN:	5:44:16PM
17	Q I'm going to hand you what we're marking	5:44:16PM
18	as Exhibit No. 52.	5:44:29PM
19	(Exhibit 52 marked for identification.)	5:44:59PM
20	BY MR. REHN:	5:44:59PM
21	Q Do you recognize this document?	5:44:59PM
22	A I certainly did not produce it.	5:45:00PM
23	Q Do you recognize what it is?	5:45:03PM
24	MR. BRIDGES: Objection, lacks foundation,	5:45:05PM
25	vague and ambiguous.	5:45:05PM

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		275
1	THE WITNESS: It's possible it's a screen	5:45:07PM
2	dump from the Internet Archive.	5:45:10PM
3	BY MR. REHN:	5:45:13PM
4	Q What do you mean by "screen dump"?	5:45:13PM
5	A It looks like somebody accessed a a URL	5:45:18PM
6	and hit the print command in this case.	5:45:22PM
7	Q So does does this appear to be the URL	5:45:25PM
8	where the 2011 National Electrical Code is on the	5:45:28PM
9	Internet Archive?	5:45:32PM
10	A Yes.	5:45:36PM
11	Q And I can represent to you	5:45:37PM
12	MR. BRIDGES: I'm sorry. I need more time	5:45:39PM
13	to object. I am going to object on the basis of	5:45:39PM
14	vague and ambiguous.	5:45:41PM
15	BY MR. REHN:	5:45:45PM
16	Q Well, I can represent to you that you got	5:45:46PM
17	it right. This is the Internet Archive page where	5:45:47PM
18	the 2011 National Electrical Code is available. It	5:45:51PM
19	was accessed yesterday at 11:35 a.m. And there's a	5:45:54PM
20	box kind of in the center of the page, and in that	5:46:03PM
21	box we can see a a graphic that says, "notice of	5:46:07PM
22	incorporation." Do you see that?	5:46:10PM
23	A Yes, I do.	5:46:13PM
24	Q And do you recognize what that is?	5:46:14PM
25	A It looks like my standard cover page for	5:46:19PM

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	277
THE WITNESS: They can access this	5:47:29PM
document in a variety of formats.	5:47:30PM
BY MR. REHN:	5:47:33PM
Q And by "access," that would encompass the	5:47:33PM
possibility of downloading a copy of the standard to	5:47:36PM
their own computer?	5:47:40PM
MR. BRIDGES: Objection, argumentative,	5:47:41PM
lacks foundation, assumes facts not in evidence,	5:47:42PM
vague and ambiguous.	5:47:44PM
THE WITNESS: "Download" is simply not a	5:47:46PM
term that it's just not a very precise term.	5:47:49PM
"Access" is the term that I understand and it's	5:47:52PM
when a computer on the Internet accesses an HTTP	5:47:54PM
server on the Internet.	5:47:57PM
BY MR. REHN:	5:47:59PM
Q Okay. Is it your understanding that a	5:47:59PM
user of a computer on the Internet can go to this	5:48:02PM
web page and obtain a PDF version of this document,	5:48:05PM
save it to their desktop, from which they can then	5:48:10PM
use it as they see fit, without even being connected	5:48:16PM
to the Internet in the future?	5:48:21PM
MR. BRIDGES: Lacks foundation, assumes	5:48:23PM
facts not in evidence, vague and ambiguous,	5:48:24PM
hypothetical.	5:48:25PM
THE WITNESS: Are are you asking	5:48:30PM
	<pre>THE WITNESS: They can access this document in a variety of formats. JY MR. REHN: Q And by "access," that would encompass the possibility of downloading a copy of the standard to their own computer? MR. BRIDGES: Objection, argumentative, lacks foundation, assumes facts not in evidence, vague and ambiguous. THE WITNESS: "Download" is simply not a term that it's just not a very precise term. "Access" is the term that I understand and it's when a computer on the Internet accesses an HTTP server on the Internet. W MR. REHN: Q Okay. Is it your understanding that a user of a computer on the Internet can go to this web page and obtain a PDF version of this document, save it to their desktop, from which they can then use it as they see fit, without even being connected to the Internet in the future? MR. BRIDGES: Lacks foundation, assumes facts not in evidence, vague and ambiguous, hypothetical. </pre>

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1	whether that conchility is receible?	278
T	whether that capability is possible?	5:48:31PM
2	BY MR. REHN:	5:48:34PM
3	Q Yes, using these links here.	5:48:34PM
4	MR. BRIDGES: Objection, may call for	5:48:38PM
5	speculation, may lack knowledge.	5:48:39PM
6	THE WITNESS: It's theoretically possible,	5:48:42PM
7	yes.	5:48:44PM
8	BY MR. REHN:	5:48:45PM
9	Q So so and that same user, having	5:48:45PM
10	that a copy of that document saved on their	5:48:47PM
11	desktop, could, say, print a copy of that document	5:48:50PM
12	if they have a printer attached to their computer?	5:48:54PM
13	MR. BRIDGES: Objection, hypothetical,	5:48:59PM
14	lacks foundation, assumes facts not in evidence,	5:48:59PM
15	vague and ambiguous.	5:49:00PM
16	THE WITNESS: On on some computers,	5:49:04PM
17	yes.	5:49:04PM
18	BY MR. REHN:	5:49:06PM
19	Q And on those computers from which people	5:49:06PM
20	can print PDFs that are saved to their desktop, they	5:49:09PM
21	can print as many copies as they like?	5:49:13PM
22	MR. BRIDGES: Objection, hypothetical,	5:49:16PM
23	lacks foundation, vague and ambiguous,	5:49:16PM
24	argumentative.	5:49:19PM
25	THE WITNESS: It's it's very	5:49:22PM

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		279
1	hypothetical. It's if if you have a printer on	5:49:22PM
2	your computer, you can print a piece of paper.	5:49:24PM
3	BY MR. REHN:	5:49:27PM
4	Q And if you have a file that you've	5:49:28PM
5	accessed and saved to your desktop from the Internet	5:49:30PM
6	but is now saved on your computer, you can print	5:49:34PM
7	multiple copies of that file?	5:49:37PM
8	MR. BRIDGES: Objection, assumes many	5:49:40PM
9	facts not in evidence, lacks foundation,	5:49:41PM
10	hypothetical, vague and ambiguous.	5:49:44PM
11	THE WITNESS: I believe you accessed a URL	5:49:47PM
12	on the Internet and printed a file, so I would say	5:49:51PM
13	yes, you certainly were capable of doing that.	5:49:54PM
14	MR. BRIDGES: Let the record reflect that	5:49:57PM
15	the client was holding Exhibit 52 up in the air in	5:49:57PM
16	context with that response.	5:50:04PM
17	BY MR. REHN:	5:50:10PM
18	Q If we could go and look at the information	5:50:10PM
19	underneath that box in the center, is that	5:50:13PM
20	information that you entered when you uploaded this	5:50:18PM
21	document to the Internet Archive website? For	5:50:22PM
22	example, where it says "description" and then it	5:50:26PM
23	says "legally binding document," would that be	5:50:28PM
24	information you entered?	5:50:30PM
25	MR. BRIDGES: Objection, vague and	5:50:32PM

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1	ambiguous. Are you asking specifically about the	280 5:50:33PM
2	description?	5:50:37PM
3	MR. REHN: We'll start with the	5:50:38PM
4	description.	5:50:40PM
5	THE WITNESS: Yes.	5:50:42PM
6	BY MR. REHN:	5:50:43PM
7	Q And we'll just go through it. Where it	5:50:49PM
8	says author, National Fire Protection Association,	5:50:52PM
9	did you enter that information?	5:50:56PM
10	A Yes.	5:50:59PM
11	Q When you I believe it was it the APC	5:51:01PM
12	call? What was it?	5:51:06PM
13	A API, application programming interface.	5:51:07PM
14	Q API call. So when you use the API, does	5:51:11PM
15	it give you an option to enter an author? Is that	5:51:14PM
16	one of the options that are identified there?	5:51:16PM
17	A You can specify any piece of metadata and	5:51:21PM
18	a value associated with that metadata.	5:51:25PM
19	Q And you identified National Fire	5:51:29PM
20	Protection Association as the author of this	5:51:31PM
21	document?	5:51:33PM
22	A I did.	5:51:35PM
23	Q So and that was consistent with your	5:51:37PM
24	understanding that the NFPA is the author of the	5:51:39PM
25	2011 NEC?	5:51:41PM

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1	MD DDIDCEC, Objection calls for a local	281
Ţ	MR. BRIDGES: Objection, calls for a legal	5:51:44PM
2	conclusion, lacks calls for a legal opinion,	5:51:45PM
3	assumes facts not in evidence, lacks foundation,	5:51:48PM
4	vague and ambiguous.	5:51:50PM
5	THE WITNESS: I don't know the precise	5:51:54PM
6	meaning of the term "author." They were certainly	5:51:56PM
7	the source of this document.	5:51:59PM
8	BY MR. REHN:	5:52:04PM
9	Q But you identified them as the author	5:52:04PM
10	here.	5:52:06PM
11	MR. BRIDGES: Objection, asked and	5:52:07PM
12	answered.	5:52:08PM
13	THE WITNESS: Just as you discussed	5:52:10PM
14	"downloads" as a term. Yes, I I use the word	5:52:12PM
15	"author."	5:52:16PM
16	BY MR. REHN:	5:52:16PM
17	Q So it was your understanding when you	5:52:17PM
18	uploaded this document that the NFPA was the author	5:52:18PM
19	of this document?	5:52:21PM
20	MR. BRIDGES: Objection, asked and	5:52:22PM
21	answered and calls for a legal conclusion, lacks	5:52:23PM
22	foundation, assumes facts not in evidence, vague	5:52:27PM
23	and ambiguous.	5:52:29PM
24	THE WITNESS: I put the word "author," a	5:52:30PM
25	colon and National Fire Protection Association. As	5:52:32PM

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1	to the technical meaning of the town "outhou "	282
Ţ	to the technical meaning of the term "author,"	5:52:36PM
2	that's you folks are lawyers.	5:52:39PM
3	BY MR. REHN:	5:52:41PM
4	Q Sure. But just in the way you understand	5:52:41PM
5	the term, that's what you understood that NFPA	5:52:43PM
6	was the author?	5:52:44PM
7	MR. BRIDGES: Objection, misstates	5:52:45PM
8	testimony, calls for a legal conclusion, lacks	5:52:47PM
9	foundation, vague and ambiguous.	5:52:50PM
10	THE WITNESS: I put the word "author,"	5:52:51PM
11	colon and National Fire Protection Association.	5:52:53PM
12	BY MR. REHN:	5:53:09PM
13	Q And if we could turn to the next page,	5:53:09PM
14	you'll see a section titled, "Selected Metadata."	5:53:11PM
15	A Yes, I see that.	5:53:24PM
16	Q And do you see a a line that says,	5:53:24PM
17	"credits"?	5:53:26PM
18	A I do.	5:53:30PM
19	Q And what does that say?	5:53:32PM
20	A It was uploaded by Public.Resource.Org.	5:53:33PM
21	Q And do you always put that credits line in	5:53:38PM
22	documents that you upload to the Internet Archive?	5:53:41PM
23	MR. BRIDGES: Objection, argumentative.	5:53:44PM
24	THE WITNESS: I don't know if I always do.	5:53:46PM
25	BY MR. REHN:	5:53:47PM

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		288
1	creator of this object was not asserting any	5:58:59PM
2	rights.	5:59:03PM
3	BY MR. REHN:	5:59:04PM
4	Q What do you mean by "creator of this	5:59:04PM
5	object"?	5:59:06PM
6	A The person who exercised the API call that	5:59:06PM
7	resulted in the creation of this identifier; me in	5:59:09PM
8	this case.	5:59:16PM
9	Q I'm going to mark Exhibit 53.	5:59:47PM
10	(Exhibit 53 marked for identification.)	11:31:26AM
11	BY MR. REHN:	11:31:26AM
12	Q Do you recognize this document?	
13	A It appears to be an Internet Archive	6:00:23PM
14	screen dump like your previous exhibit.	6:00:27PM
15	Q And this one is for the 2014 National	6:00:30PM
16	Electrical Code; is that right?	6:00:36PM
17	A That is what it appears to be, yes.	6:00:39PM
18	Q Now, this is looks pretty similar to	6:00:41PM
19	Exhibit 52. Would you agree with that?	6:00:45PM
20	MR. BRIDGES: Objection, lacks foundation,	6:00:48PM
21	vague and ambiguous.	6:00:49PM
22	THE WITNESS: There are some similarities.	6:00:55PM
23	BY MR. REHN:	6:00:57PM
24	Q Like there's the box in the middle and	6:00:58PM
25	then there's options for how to view the book on the	6:01:00PM

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		289
1	left?	6:01:03PM
2	A Yes.	6:01:04PM
3	Q And then there's some information below	6:01:05PM
4	the box in the middle such as author, subject and so	6:01:08PM
5	forth?	6:01:14PM
6	MR. BRIDGES: Objection, lacks foundation,	6:01:14PM
7	vague and ambiguous.	6:01:16PM
8	THE WITNESS: Yes.	6:01:22PM
9	BY MR. REHN:	6:01:24PM
10	Q And you put that information in this in	6:01:26PM
11	this as well when you used the API interface to	6:01:28PM
12	upload this document?	6:01:37PM
13	MR. BRIDGES: Objection, vague and	6:01:38PM
14	ambiguous.	6:01:39PM
15	THE WITNESS: Yes.	6:01:40PM
16	BY MR. REHN:	6:01:42PM
17	Q So again, you have you you chose to	6:01:43PM
18	identify the author as National Fire Protection	6:01:44PM
19	Association?	6:01:47PM
20	MR. BRIDGES: Objection. To the extent	6:01:51PM
21	you're asking him a question with significance of	6:01:52PM
22	legal terms, I'll object on the ground that it	6:01:55PM
23	calls for a legal opinion.	6:01:57PM
24	THE WITNESS: Once again, I put the	6:02:00PM
25	identifier author, colon, and National Fire	6:02:01PM

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1	Protection Association in in the HTML.	290 6:02:03PM
2	BY MR. REHN:	6:02:07PM
3	Q And was and that was your understanding	6:02:07PM
4	at the time you uploaded this document, that the	6:02:09PM
5	National Fire Protection Association was the author	6:02:11PM
6	as you would use that word?	6:02:14PM
7	MR. BRIDGES: Objection, vague and	6:02:17PM
8	ambiguous, calls may call for a legal	6:02:18PM
9	conclusion, lacks foundation, assumes facts not in	6:02:19PM
10	evidence.	6:02:22PM
11	THE WITNESS: Again, I use the label	6:02:24PM
12	author and a colon and National Fire Protection	6:02:26PM
13	Association.	6:02:28PM
14	BY MR. REHN:	6:02:31PM
15	Q And you you chose the word "author"?	6:02:32PM
16	A Yes.	6:02:34PM
17	Q And then under subject, there's a few	6:02:34PM
18	things listed, and the first one what is the	6:02:38PM
19	first one there?	6:02:41PM
20	MR. BRIDGES: Objection, vague and	6:02:43PM
21	ambiguous.	6:02:44PM
22	THE WITNESS: Subject, colon, required in	6:02:46PM
23	all 50 states, Public Safety Code, legally binding	6:02:48PM
24	document.	6:02:52PM
25	BY MR. REHN:	6:02:52PM

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		305
1	MR. BRIDGES: And you need to review the	6:20:14PM
2	document if you're going to answer that question.	6:20:16PM
3	And I'll object on the to the question	6:20:23PM
4	as vague and ambiguous.	6:20:26PM
5	Read the whole document, please.	6:20:41PM
6	THE WITNESS: The statements by Man 1 do,	6:21:16PM
7	in fact, represent my views.	6:21:17PM
8	BY MR. REHN:	6:21:20PM
9	Q And did you make the decision that this	6:21:21PM
10	video should be posted on Public Resource's website?	6:21:22PM
11	A Yes.	6:21:26PM
12	Q And do the statements by you in this	6:21:26PM
13	document represent the views of Public Resource?	6:21:28PM
14	A Yes.	6:21:33PM
15	Q So let's take a look at the page	6:21:33PM
16	Bates-stamped 167544. And it's your view that the	6:21:42PM
17	National Fire Protection Association does amazing	6:21:52PM
18	work and saves lives?	6:21:57PM
19	A Yes, I said that.	6:21:58PM
20	Q And it's your view that the National Fire	6:21:59PM
21	Protection Association protects the lives of	6:22:01PM
22	volunteer firefighters?	6:22:04PM
23	MR. BRIDGES: Objection. That misstates	6:22:13PM
24	the document.	6:22:14PM
25	THE WITNESS: No, that's not what I say on	6:22:15PM

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		306
1	this page.	6:22:17PM
2	BY MR. REHN:	6:22:17PM
3	Q It's your view that the National Fire	6:22:18PM
4	Protection Association's standards for fire	6:22:20PM
5	sprinklers, standards for fire hydrants, standards	6:22:22PM
6	for foam, standards for life safety protect lives of	6:22:27PM
7	our volunteer firefighters.	6:22:28PM
8	A Oh. Yes.	6:22:31PM
9	Q And do you also would you also take the	6:22:32PM
10	view that National Fire Protection itself protects	6:22:33PM
11	the lives of volunteer firefighers through its	6:22:35PM
12	activities?	6:22:39PM
13	MR. BRIDGES: Objection, argumentative,	6:22:40PM
14	lacks foundation, vague and ambiguous.	6:22:41PM
15	THE WITNESS: I can't speak to that. I	6:22:43PM
16	the standards certainly do.	6:22:44PM
17	BY MR. REHN:	6:22:47PM
18	Q And is it your view that the standards	6:22:47PM
19	protect the lives of children?	6:22:49PM
20	A Yes.	6:22:51PM
21	Q And it's your view that it's important	6:22:52PM
22	that organizations like the National Fire Protection	6:22:53PM
23	Association continue to survive?	6:22:55PM
24	A Absolutely.	6:22:59PM
25	Q And would you extend that to other	6:22:59PM

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#### Case 1:13-cv-01215-TSC Document 118-12 Filed 11/19/15 Page 84 of 259 Capital Reporting Company 30(b)(6) Public.Resource.Org 02-26-2015

		307
1	standards development organizations as well, that	6:23:02PM
2	it's important they continue to survive?	6:23:04PM
3	MR. BRIDGES: Objection, lacks foundation.	6:23:07PM
4	THE WITNESS: Do you have a specific	6:23:08PM
5	standards organization in mind?	6:23:09PM
6	BY MR. REHN:	6:23:11PM
7	Q How about ASTM.	6:23:12PM
8	A I'm a big fan of ASTM.	6:23:14PM
9	Q So it's important they continue to	6:23:17PM
10	survive?	6:23:18PM
11	MR. BRIDGES: Objection, argumentative.	6:23:19PM
12	THE WITNESS: I think the standards that	6:23:21PM
13	are the subject area of the standards that ASTM	6:23:22PM
14	works in is very important and we need to continue	6:23:27PM
15	to have standards in that area.	6:23:30PM
16	BY MR. REHN:	6:23:32PM
17	Q And continue to have organizations that	6:23:32PM
18	develop standards and keep them up-to-date?	6:23:34PM
19	MR. BRIDGES: Objection, argumentative,	6:23:36PM
20	lacks foundation.	6:23:37PM
21	THE WITNESS: Yes, I believe standards are	6:23:41PM
22	important.	6:23:43PM
23	BY MR. REHN:	6:23:43PM
24	Q And would you say the same about the	6:23:43PM
25	standards of ASHRAE?	6:23:45PM

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#### Case 1:13-cv-01215-TSC Document 118-12 Filed 11/19/15 Page 85 of 259 Capital Reporting Company 30(b)(6) Public.Resource.Org 02-26-2015

		308
1	MR. BRIDGES: Objection, lacks foundation,	6:23:47PM
2	vague and ambiguous.	6:23:48PM
3	THE WITNESS: I think ASHRAE Standard 90.1	6:23:51PM
4	is an important standard.	6:23:53PM
5	BY MR. REHN:	6:23:59PM
6	Q Is it your view that standards development	6:24:01PM
7	organizations need funding to do the work that they	6:24:04PM
8	do, including standards development?	6:24:07PM
9	MR. BRIDGES: Objection, may call for a	6:24:09PM
10	lay opinion, vague and ambiguous, and	6:24:11PM
11	THE WITNESS: I think	6:24:19PM
12	MR. BRIDGES: and to the extent it	6:24:19PM
13	calls for a legal opinion, I would object on that	6:24:21PM
14	basis.	6:24:25PM
15	THE WITNESS: I would want to analyze the	6:24:25PM
16	specific standards body and their funding sources	6:24:26PM
17	and the work that they do.	6:24:28PM
18	BY MR. REHN:	6:24:31PM
19	Q Can you read the first sentence of that	6:24:33PM
20	paragraph that begins with, Man 1 804, the sentence	6:24:34PM
21	following Man 1 804?	6:24:38PM
22	A "Our goal is here to publish a law to	6:24:40PM
23	establish the principle that the law become	6:24:43PM
24	available, but then government should take this over	6:24:46PM
25	and figure out a way to make the law available and	6:24:49PM

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## JA00896-JA00998

Case 1:13-cv-01215-TSC Document 118-12 Filed 11/19/15 Page 153 of 259

# **EXHIBIT 8**

Page 1 1 IN THE UNITED STATES DISTRICT COURT 2 FOR THE DISTRICT OF COLUMBIA 3 4 AMERICAN SOCIETY FOR TESTING 5 AND MATERIALS d/b/a ASTM 6 INTERNATIONAL; NATIONAL FIRE 7 PROTECTION ASSOCIATION, INC.,; 8 and AMERICAN SOCIETY OF HEATING, 9 REFRIGERATING, AND AIR-CONDITIONING 10 ENGINEERS, INC. 11 Plaintiffs, CIVIL ACTION FILE 12 NO. 1:13-CV-01215-EGS vs. 13 PUBLIC.RESOURCE.ORG, INC., 14 Defendant. 15 16 30(b)(6) VIDEOTAPED DEPOSITION OF 17 STEVEN COMSTOCK 18 March 5, 2015 19 10:20 a.m. 20 1075 Peachtree Street 21 Suite 3625 22 Atlanta, Georgia 30309 23 Lee Ann Barnes, CCR-1852, RPR, CRR 24 25 PAGES 1 - 199

Page 29 90.1 in the 2010 edition, whether that is by physical 1 2 copy sale, whether it's by bundled or value-added 3 sale, whether it's by license, whether it's by some 4 subscription or network license, but I'm omitting 5 from this question the free reading facility. MR. LEWIS: Object to form. 6 7 THE WITNESS: That would be pure conje- --I -- I do not know. 8 9 (By Mr. Bridges) What -- is there a Ο. 10 standard retail price for the current version of 11 ASHRAE 90.1? 12 Α. Yes, there is. 13 How much is that? 0. 14 That's what I'm -- I believe the ASHRAE Α. 15 member price for the current edition of standard 90.1 16 is \$99. I believe the list price is \$120. 17 Typically, our member discount is 15 percent. 18 Q. Does ASHRAE have a figure of -- strike 19 that. 20 Does ASHRAE have an understanding of the 21 approximate revenue that it has gained from the sale 22 or licensing, direct or indirect, of the ASHRAE 90.1 23 standard? 24 We would have the information that would Α. 25 represent the revenue from the copies that we sell.

#### USCA Case #22-7063 Document #1982413 Filed: 01/20/2023 Page 309 of 395 Case 1:13-cv-01215-TSC Document 118-12 Filed 11/19/15 Page 156 of 259

Page 104 1 ASHRAE home page. 2 Secondly would be if they con- -- if they 3 just contact ASHRAE in -- in general. 4 And if -- are there any other ways that 0. 5 you're aware of? 6 Α. No, just those two. 7 If someone contacts ASHRAE in general, is Ο. it my understanding, based on your testimony earlier, 8 that the person contacting ASHRAE is likely to be 9 10 directed to your assistant? That is correct. 11 Α. 12 And your assistant would typically act as 0. 13 some kind of interface between ASHRAE and whoever's 14 seeking the permission? 15 Α. That is correct. 16 Who besides yourself would direct your 0. 17 assistant in connection with the assistant's handling 18 the requests for permission? 19 Α. I would be the only person who would be 20 giving her that direction. 21 Q. I also want to review systematically some 22 of the information that I've heard today about 23 sources other than ASHRAE for ASHRAE standards. 24 So to begin with, ASHRAE makes its standards available through the Web to persons who 25

Page 105 want to view or acquire the standards through the Web 1 2 interface, whether by using the free viewing facility 3 or by ordering a PDF or ordering a CD; is that 4 correct? 5 Α. That is correct, or a book. 6 Ο. If somebody wants networked access to 7 ASHRAE's standards, that person normally goes through a reseller; is that correct? 8 9 Α. That is correct. 10 And you identified several resellers 0. 11 earlier today; correct? 12 That is correct. Α. Are there any other significant resellers 13 Ο. 14 apart from the four you mentioned who resell ASHRAE's 15 standards? 16 I don't -- significant sellers, the only Α. other ones that come to mind, SAI Global -- I don't 17 18 believe I referenced them, and Barber Index would 19 be -- would be -- I think that may be six then. 20 Those are the principal resellers. 21 Q. And then apart from them, there may be book 22 retailers? 23 Α. (Witness nodded head affirmatively.) 24 MR. LEWIS: You have to --25 THE WITNESS: Yes.

#### USCA Case #22-7063 Document #1982413 Filed: 01/20/2023 Page 311 of 395 Case 1:13-cv-01215-TSC Document 118-12 Filed 11/19/15 Page 158 of 259

Page 106 1 (By Mr. Bridges) What other major sources Ο. 2 of AST- -- sorry, of ASHRAE standards other than ASHRAE have I missed? 3 4 When you say "sources," sources that make Α. 5 our documents available in the marketplace? 6 Ο. Right, right. What I would consider to be 7 a source to which a member of the public would go in order to obtain ASHRAE standards. 8 9 I know we have publications in Amazon, for Α. example. I don't know if -- offhand, I can't recall 10 11 if among the titles they offer are standards, but I 12 would think it's likely that they would be. 13 Ο. Any others that we haven't reviewed? 14 There's an assortment of small book Α. 15 redistributors, Engineer's Bookstore over at Georgia 16 Tech, for example, Barnes & Noble, which does college 17 bookstores. They may maintain inventory of ASHRAE 18 standards for resale. 19 0. Do college students get a discount on the 20 price of AS- -- of ASHRAE standards? 21 We have a student member price that is Α. 22 available to student members of ASHRAE. 23 0. And do members have to purchase standards 24 through ASHRAE's website in order to take advantage 25 of member discount?

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# **EXHIBIT 10**

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## United States Department of the Interior

OFFICE OF THE SOLICITOR 1849 C STREET, NW WASHINGTON, DC 20240

IN REPLY REFER TO:

#### VIA U.S. MAIL

Mr. Carl Malamud President, Public.Resource.Org 1005 Gravenstein Highway North Sebastopol, CA 95472

SEP - 8 2015

Re: Your letter dated July 20, 2015

Dear Mr. Malamud,

I am writing to you on behalf of Solicitor Hilary Tompkins in response to your letter dated July 20, 2015. As you know, in that letter you identified a number of concerns with respect to the treatment of your public comment by the Bureau of Safety and Environmental Enforcement (BSEE) in conjunction with BSEE's proposed regulatory update concerning cranes mounted on fixed oil and gas platforms on the outer Continental Shelf (OCS). BSEE's proposed rule would incorporate by reference the updated Seventh Edition of American Petroleum Institute (API) Specification 2C (Spec. 2C), "Offshore Pedestal-mounted Cranes" (2012), into its regulations in place of the Sixth edition of API Spec. 2C currently incorporated by reference in BSEE regulations.¹

Your principal concerns focus on two issues: the initial unavailability of your comment in Hypertext Markup Language (HTML), the native file format in which you submitted your comment, and BSEE's decision to withhold publishing two comment attachments based on BSEE's determination that those attachments contain copyrighted material. Specifically, your attachments presented the Sixth edition of API Spec. 2C in two different formats.

With respect to the first issue, it is my understanding that the administrator of the Federal Docket Management System (FDMS) is responsible for maintenance of the public dockets on regulations.gov and the manner and format in which public comments are posted on that website. In any event, as you requested, FDMS ultimately posted your comment in the HTML format. Accordingly, it appears that FDMS has addressed your concern about your comment's file format and its accessibility.

In regard to your second issue concerning copyrighted material, I have confirmed that BSEE's incorporation by reference of materials into its regulations does not waive or vitiate any applicable copyright protections associated with those materials. The Office of the Federal

¹ 30 C.F.R. § 250.108(c) and (d) currently require compliance with the Sixth edition of API Spec. 2C. The proposed rule would require compliance with the Seventh edition of API Spec. 2C. BSEE's current incorporation by reference of the Sixth edition of API Spec. 2C is reflected in 30 C.F.R. § 250.198(h)(69).

Register (OFR) recently explained that relevant laws "have not eliminated the availability of copyright protection for privately developed codes and standards . . . incorporated into federal regulations." 79 Fed. Reg. 66267, 66268 (Nov. 7, 2014). Based on API's longstanding position and BSEE's review of the standard itself, BSEE reasonably concluded that the Sixth edition of API Spec. 2C is a privately developed standard protected by copyright maintained by API.² As OFR noted, an agency's incorporation by reference of a copyrighted standard does not eliminate applicable copyright protections. Therefore, BSEE reasonably and properly concluded that FDMS should not post on regulations.gov the attachments associated with your comment because those attachments contained copyrighted material. BSEE also properly described its obligations concerning copyrighted material in the notice of proposed rulemaking: "When a copyrighted industry standard is incorporated by reference into our regulations, BSEE is obligated to observe and protect that copyright."³ However, consistent with BSEE's longstanding practice, and with OFR's regulations on incorporation by reference (1 C.F.R. § 51.5), BSEE also provided instructions in that notice on how the public may view the incorporated API standard on API's public website.⁴

In addition, even though BSEE correctly decided not to post API Spec. 2C in the docket on regulations.gov because of the copyright protections, BSEE continues to make this standard available, without charge, for public review and inspection at its offices.⁵ Thus, BSEE has made the material it proposes to incorporate by reference reasonably available to interested parties and discussed the reasonable availability of this material in accordance with 1 C.F.R. § 51.5(a)(1).

Dennis Daugherty Assistant Solicitor, Offshore Resources Division of Mineral Resources Office of the Solicitor

Cc: Honorable Hilary C. Tompkins Solicitor, U.S. Department of the Interior

> Mr. Brian M. Salerno Director, Bureau of Safety and Environmental Enforcement

⁵ <u>Id.</u>

 $^{^{2}}$  In fact, it is my understanding that your attachments, which reproduced the Sixth edition of API Spec. 2C, also reflected API's copyright designation and prohibition against reproduction or transmission without prior written permission.

³ 80 Fed. Reg. 34113, 34114 (June 15, 2015).

⁴ <u>Id</u>.

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U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT WASHINGTON, DC 20410-3000

OFFICE OF ADMINISTRATION

AUG - 6 2015

Mr. Carl Malamud President and CEO Public Resource Organization 1005 Gravenstein Highway North Sebastopol, CA 95472

> RE: Freedom of Information Act Request FOIA Control No.: 15-FI-HQ-01670

Dear Mr. Malamud:

This letter is in response to your Freedom of Information Act (FOIA) request dated July 2, 2015. Specifically, you requested the Underwriter Laboratories (UL) 737 standard which applies to homes and manufactured housing.

When responding to a FOIA request, the Department of Housing and Urban Development searches for responsive documents existing up to the date that the request is received in the Department's FOIA Branch. Your request was received on July 2, 2015.

A search of Headquarters' records by knowledgeable staff failed to locate any documents at HUD Headquarters that would be responsive to your request. The standard that you requested is copyrighted by UL. You will need to purchase a copy of the standard directly from UL.

I am the official responsible for this determination based on information provided by the Office of Housing. You may appeal this determination within 30 days from the date of this letter. If you decide to appeal, your appeal should include copies of your original request and this response, as well as a discussion of the reasons supporting your appeal. The envelope should be plainly marked to indicate that it contains a FOIA appeal and be addressed to:

U.S. Department of Housing and Urban Development Attention: FOIA Appeals OGC, Ethics and Appeals Law Division 451 Seventh Street, SW, Suite 213 Washington, DC 20410

Telephone: (202) 708-3815

2

Case 1:13-cv-01215-TSC Document 118-12 Filed 11/19/15 Page 168 of 259

For your information, your FOIA request, including your identity and any information made available, is releasable to the public under subsequent FOIA requests. In responding to these requests, the Department does not release personal information, such as home address telephone number, or Social Security number, all of which are protected from disclosure under FOIA Exemption 6.

If you need additional information, please contact Ms. Eugenia Harris at (202) 402-5074. Thank you for your interest in the Department's programs and policies.

Sincerely,

eberah

Vicky Lewis Deputy Director, Office Of the Executive Correspondence

Case 1:13-cv-01215-TSC Document 118-12 Filed 11/19/15 Page 169 of 259



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT WASHINGTON, DC 20410-3000

OFFICE OF ADMINISTRATION

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2

Case 1:13-cv-01215-TSC Document 118-12 Filed 11/19/15 Page 170 of 259

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Sincerely,

eberah

Vicky Lewis Deputy Director, Office Of the Executive Correspondence



**U.S. CONSUMER PRODUCT SAFETY COMMISSION** 

4330 EAST WEST HIGHWAY BETHESDA, MARYLAND 20814-4408

Todd A. Stevenson The Secretariat - Office of the Secretary Office of the General Counsel Tel: 301-504-6836 Fax: 301-504-0127 Email: tstevenson@cpsc.gov

May 18, 2015

#### CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Carl Malamud President & CEO Public Resource.Org 1005 Gravenstein Highway North Sebastopol, CA 95472

Re: FOIA Request 15-F-00342 seeking the ASTM product standard, *ASTM F 1447-94, Standard Specification for Protective Headgear Used in Bicycling 1994 Edition*, which is incorporated by reference ikn 16 CFR 1203.53(b) and used in 16 CFR 1203.53(a) FCPSC interaction with the ANSI Z21/CGP Joint Central Furnace working group.

Mr. McFarlan:

Thank you for your Freedom of Information Act ("FOIA") request seeking information from the U.S. Consumer Product Safety Commission ("Commission").

The records that you seek, ASTM F 1447-94, Standard Specification for Protective Headgear Used in Bicycling 1994 Edition, are the copyright property of ASTM (American Society for Testing and Materials. The ASTM standard must be purchased from ASTM from their website, <u>www.astm.org/</u>.

According to the Commission's FOIA regulations at 16 C.F.R. § 1015.7, you may appeal our decision within thirty (30) days of your receipt of this letter by writing to: FOIA APPEAL, General Counsel, ATTN: Office of the Secretary, U.S. Consumer Product Safety Commission, 4330 East West Highway, Bethesda, Maryland 20814-4408.

Processing this request, performing the file searches and preparing the information, cost the Commission \$50.00. In this instance, we have decided to waive all of the charges.

Sincerely, Todd A. Stevenson

Enclosures

CPSC Hotline: 1-800-638-CPSC (2772) 🕁 CPSC's Web Site: http://www.cpsc.gov



U.S. CONSUMER PRODUCT SAFETY COMMISSION 4330 EAST WEST HIGHWAY

BETHESDA, MARYLAND 20814-4408

Todd A. Stevenson The Secretariat  $\circ$  Office of the Secretary Office of the General Counse! Tel: 301-504-6836 Fax: 301-504-0127 Email: <u>tstevenson@cpsc.gov</u>

May 18, 2015

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CPSC Hotline: 1-800-638-CPSC (2772) ☆ CPSC's Web Site: http://www.cpsc.gov

#### UNITED STATES DISTRICT COURT FOR THE DISTRICT OF COLUMBIA

AMERICAN SOCIETY FOR TESTING	
AND MATERIALS d/b/a/ ASTM	Case No. 1:13-cv-01215-TSC-DAR
INTERNATIONAL;	
NATIONAL FIRE PROTECTION	
ASSOCIATION, INC.; and	
AMERICAN SOCIETY OF HEATING,	
REFRIGERATING, AND AIR	
CONDITIONING ENGINEERS,	
Plaintiffs/	
Counter-Defendants,	
V.	
PUBLIC.RESOURCE.ORG, INC.,	
Defendant/	
Counter-Plaintiff.	

## DEFENDANT PUBLIC.RESOURCE.ORG'S STATEMENT OF MATERIAL FACTS

#### **REDACTED VERISON**

Pursuant to Local Rule 7(h), Public.Resource.org ("Public Resource") contends that there

are no genuine disputes as to the following facts. Each of the following facts supports Public

Resource's Motion for Summary Judgment.

#### **GLOSSARY OF CITATIONS**

Short Form Citation	Document Title
M. Becker Decl.	Declaration of Matthew Becker in support of Defendant-Counterclaimant's Motion for Summary Judgment and Opposition to Plaintiffs' Motion for Summary Judgment and Permanent Injunction
C. Malamud Decl.	Declaration of Carl Malamud in support of Defendant-Counterclaimant's Motion for Summary Judgment and Opposition to Plaintiffs' Motion for Summary Judgment and Permanent Injunction
Pls. Mem.	Plaintiffs Memorandum of Law in support of Their Motion for Summary Judgment and for a Permanent Injunction, ECF No. 118-1
RJN	Request for Judicial Notice in support of Defendant-Counterclaimant Public.Resource.Org, Inc.'s Motion for Summary Judgment and Opposition to Plaintiffs' Motion for Summary Judgment and Permanent Injunction
Fruchterman Rep.	Expert Report of James R. Fruchterman, dated April 13, 2015
Jarosz Rep.	Expert Report of John Jarosz, dated June 5, 2015, ECF No. 117-1
Bliss Dep.	Videotaped 30(b)(6) deposition of Donald P. Bliss, March 3, 2015
Comstock Dep.	Videotaped 30(b)(6) deposition of Steven Comstock, March 5, 2015
Dubay Dep.	Videotaped 30(b)(6) deposition of National Fire Protection Association, Inc. by Christian Dubay, April 1, 2015
Fruchterman Dep.	Videotaped 30(b)(6) deposition of James Fruchterman, July 31, 2015

Short Form Citation	Document Title
Grove Dep.	Videotaped 30(b)(6) deposition of American Standards Society For Testing and Materials, Inc. by Jeffrey Grove, March 4, 2015
Jarosz Dep.	Videotaped deposition of John C. Jarosz, August 27, 2015
Mullen Dep.	Videotaped 30(b)(6) deposition of National Fire Protection Association, Inc., by Bruce Mullen, March 31, 2015
Reiniche Dep.	Videotaped 30(b)(6) deposition of American Society of Heating, Refrigerating, and Air- Conditioning Engineers, Inc., March 30, 2015
Smith Dep.	Videotaped 30(b)(6) deposition of American Society for Testing & Materials, through Daniel Smith, July 24, 2015

1. Public.Resource.org is a nonprofit corporation, funded entirely by donations, contributions, and grants. C. Malamud Decl. ¶ 3.

2. Public Resource's core mission is to make the law and other government materials more widely available so that people, businesses, and organizations can easily read and discuss our laws and the operations of government. C. Malamud Decl. ¶ 4, Ex. 1.

3. Public Resource maintains an archive of laws and other government authored materials on several domains under the public.resource.org website. C. Malamud Decl. ¶ 10.

4. Public Resource has made judicial opinions, Internal Revenue Service records, patent filings, and safety regulations accessible on the Internet. Beginning in 2008, Public Resource began posting state safety regulations and statutes online, including portions of the incorporated standards in this case. In 2012, Public Resource began to post copies of standards incorporated by reference into law on its website. Public Resource began by purchasing paper copies of 73 standards, copying them and placing a cover sheet and notice of incorporation on each one, and sending the copies and additional material to government officials and ten SDOs, including Plaintiffs. Then, Public Resource began searching for copies of additional incorporated standards, many of which were not available from the SDOs, likely because the version incorporated into law had been superseded by a later version of the standard. C. Malamud Decl. ¶¶ 9–15, 20–21, 23.

 Public Resource does not charge for access to the archive of laws and other government authored materials on several domains under the public.resource.org website. C.
 Malamud Decl. ¶ 23.

6. Public Resource does not accept donations or gifts that are tied to the posting of specific standards or groups of standards. C. Malamud Decl. ¶ 29.
7. Public Resource's operating income is not based on the amount of traffic its websites receive. Public Resource does practice search engine optimization to improve the accuracy of how information on its websites is described. Public Resource does not advertise on its websites. C. Malamud Decl. ¶ 30.

8. Plaintiffs are three standards development organizations ("SDOs") that publish voluntary consensus standards. Pls. Mem. 4–9; Compl. Ex. A–C.

9. According to Plaintiffs, ASTM has published approximately 12,000 standards, NFPA has published over 300 standards, and ASHRAE has published over 100 standards. Jarosz Rep. ¶ 13 (ASTM); ¶ 17 (NFPA), ECF No. 117-1; Reiniche Decl. ¶ 2, ECF No. 118-10 (ASHRAE).

10. ASTM's Mission Statement reads: "To be recognized globally as the premier developer and provider of voluntary consensus standards, related technical information, and services that promote public health and safety, support the protection and sustainability of the environment, and the overall quality of life; contribute to the reliability of materials, products, systems and services; and facilitate international, regional, and national commerce." M. Becker Decl. ¶ 98, Ex. 100.

11. NFPA's "About NFPA" webpage states: "Founded in 1896, NFPA is a global, nonprofit organization devoted to eliminating death, injury, property and economic loss due to fire, electrical and related hazards. The association delivers information and knowledge through more than 300 consensus codes and standards, research, training, education, outreach and advocacy; and by partnering with others who share an interest in furthering the NFPA mission." M. Becker Decl. ¶ 99, Ex. 101.

ASHRAE's Mission is "To advance the arts and sciences of heating, ventilation, 12.

5

JA01018

air conditioning and refrigeration to serve humanity and promote a sustainable world." M. Becker Decl. ¶ 100, Ex. 102.

13. Some of the standards Plaintiffs publish are adopted into law or incorporated by reference into federal, state, or local law; many are not. Pls. Mem. 9.

14. In order to enact rules, a federal agency must follow minimum procedures to guarantee adequate public notice and opportunity to comment. 5 U.S.C. §553.

15. A federal agency must publish proposed rule changes in the Federal Register,
including changes to a standard incorporated by reference into the Code of Federal Regulations.
5 U.S.C. §553(b); 1 C.F.R. § 51.11(a) (2015).

16. A standard incorporated by reference into the Code of Federal Regulations must be a "proposed rule" or "final rule" of a federal agency. 1 C.F.R. §51.5(a)-(b) (2015).

17. Before the federal government incorporates a standard by reference into law as a final rule, it must be approved by the Director of the Federal Register. 1 C.F.R. § 51.3 (2015).

18. Standards are incorporated by reference—as opposed to reprinting the entire text of the standards—to limit the length of the Code of Federal Regulations. RJN  $\P$  1.

19. Standards incorporated by reference into the Code of Federal Regulations are made available in the Washington D.C. reading room of the Office of the Federal Register, or for purchase from the Plaintiffs. The OFR directs people who want to read incorporated standards to "contact the standards organization that developed the material." Alternatively, one may submit a written request to the OFR to inspect (and make limited photocopies of) an incorporated standard standard in Washington, D.C. RJN ¶ 1.

Public Resource has posted at least some of the incorporated standards at issue online. C. Malamud Decl. ¶ 15–19.

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21. Plaintiffs have discussed Public Resource's activities at the highest levels of their organizations since at least 2010, but waited until August 2013 to file this lawsuit.

Becker Decl. ¶ 148, Ex. 150.

22. Each standard at issue on Public Resource's websites was incorporated by reference into law. C. Malamud Decl. ¶ 23; Pls. Mem. 9. Nearly all of the standards at issue were promulgated as private industry standards several years before being incorporated into law by government agencies. *See, e.g.*, ASTM D396-1998 "Standard Specification for Fuel Oils", incorporated into reference into law at 41 C.F.R. § 60.17 (2011); M. Becker Decl. ¶ 151, Ex. 153

23. ASTM has publicly stated that "[k]nowledge of ASTM standards is important for complying with U.S. regulations and procurement requirements" M. Becker Decl. ¶ 21, Ex. 23 (Grove Ex. 1032 "ASTM Standards Regulations & Trade, Power Point" at 21).

24. The Office of the Federal Register states: "The legal effect of incorporation by reference is that the material is treated as if it were published in the Federal Register and CFR. This material, like any other properly issued rule, has the force and effect of law. Congress authorized incorporation by reference in the Freedom of Information Act to reduce the volume of material published in the Federal Register and CFR." RJN ¶ 1.

25. Failure to comply with the standards incorporated by law may result in penalties.M. Becker Decl. ¶ 2, Ex. 4 (Bliss Dep. 37:1–19).

26. The former head of Massey Energy was recently convicted of conspiring to violate safety standards. RJN ¶ 2.

27. With the exception of the 2014 National Electric Code that was added by amending the complaint, all of the standards at issue have been superseded or withdrawn.
M. Becker Decl. ¶¶ 95–97, Exs. 97–99.

28. Persons who volunteer to create and develop voluntary consensus standards have incentives to do so that are independent of owning the copyright to the standards. M. Becker Decl. ¶ 7, Ex. 9 (Jarosz Dep. 82:9–17); ¶ 11, Ex. 15 (Smith Dep. 45:16–46:10) ¶ 2, Ex. 4 (Bliss Dep. 21:1–3; 15–17) ¶ 10, Ex. 12 (Reiniche Dep. 50:12–51:6) ¶ 2, Ex. 4 (Bliss Dep. 118:09–119:01).

29. Plaintiffs have earned revenue from sources other than selling copies of the standards. These sources include revenue from selling interpretative material related to incorporated standards; standards that have not been incorporated into law; membership dues; conference fees; training services; and public grants and contracts M. Becker Decl. ¶ 9, Ex. 11 (Mullen Dep. 130:21–133:03; 228:11–229:23); ¶ 7, Ex. 9 (Jarosz Dep. 192:22–193:6); ¶ 2, Ex. 4 (Bliss Dep. 199:23–201:12; 158:06–159:15); ¶ 6, Ex. 8 (Grove Dep. 264:22–266:19); ¶ 3, Ex. 5 (Comstock Dep. 48:23–56:21; 59:03–60:02; 72:5–74:15). Plaintiffs acknowledge that other standards development organizations operate without asserting a right to exclude. Jarosz Rep. ¶ 81, ECF No. 117-1.

30. ASHRAE has a Government Affairs office in Washington D.C. M. Becker Decl.¶ 50, Ex. 52.

31. ASHRAE's Government Affairs office has encouraged members of congress and other policy makers to incorporate ASHRAE standards into law. M. Becker Decl. ¶ 10, Ex. 12 (Reiniche Dep. 136:11–21; 138:24–140:10; 210:19–211:09).

32. ASHRAE started a grassroots program to advocate for adoption of building codes into law, including the standard known as ASHRAE 90.1. M. Becker Decl. ¶ 10, Ex. 12 (Reiniche Dep. 144:06–145:23).

33. ASHRAE refers to the citation of ASHRAE 90.1 in the Energy Policy Act ("EPAct") as ASHRAE's "EPAct advantage," because ASHRAE 90.1 is referenced over other energy efficiency commercial building codes. M. Becker Decl. ¶ 48, Ex. 50; ¶ 10, Ex. 12 (Reiniche Dep. 127:13–127:18); ¶ 49, Ex. 51; ¶ 10, Ex. 12 (Reiniche Dep. 128:07–130:21).

34. ASHRAE has repeatedly entered into a "Memorandum of Understanding" with the Department of Energy (DOE) that states that both organizations are "committed to working together toward . . . [c]ooperating in promotion of ANSI/ASHRAE standards adoption in building codes." M. Becker Decl. ¶ 47, Ex. 49; ¶ 10, Ex. 12 (Reiniche Dep. 110:20–111:16; 113:13–114:01).

35. ASTM makes governments aware of ASTM standards, and takes pride in the incorporation by reference of its standards. M. Becker Decl.  $\P$  6, Ex. 8 (Grove Dep. 235:02–236:02).

36. ASTM reaches out to congressional staffers and government agencies to suggest the use of particular editions of standards and particular language in legislation. M. Becker Decl.
¶ 22, Ex. 24; ¶ 6, Ex. 8 (Grove Dep. 124:10–125:05; 258:16–261:23; 263:05–263:09).

37. ASTM participated in an "Incorporation by Reference Public Workshop" with theU.S. Department of Transportation on July 13, 2012. M. Becker Decl. ¶ 6, Ex. 8 (Grove Dep.

270:7–19).

38. ASTM has never requested that Congress or a federal agency not incorporate an ASTM standard by reference into law. M. Becker Decl. ¶ 6, Ex. 8 (Grove Dep. 261:25–262:08).

39. On December 3, 2015, ASTM co-sponsored an event in Washington D.C. entitled "What Do Airplanes, Robots, Toys, Flat Screen TVs Amusement Parks & 3D Printing Have in Common?" The promotional literature for the event states that the event "will highlight the importance of government participation in and the reliance on voluntary standards and conformance." M. Becker Decl. ¶ 102, Ex. 104 ("Capitol Hill Event to Feature Policy and Business Leader Insights on Voluntary Standards and Conformance").

40. NFPA engages in activities to promote the adoption and incorporation by reference of NFPA codes and standards into law. M. Becker Decl. ¶ 2, Ex. 4 (Bliss Dep. 46:19–48:20; 62:20–63:08; 82:09–18).

41. NFPA is not aware of any situation where it would discourage the adoption of a standard into law. M. Becker Decl. ¶ 2, Ex. 4 (Bliss Dep. 48:21–49:04).

42. NFPA is "advocating for fire safety" through the adoption and use of its standards by governments and industries. M. Becker Decl. ¶ 2, Ex. 4 (Bliss Dep. 82:13–25).

43. The Office of the Federal Register is required to maintain a copy of each incorporated standard. It makes a copy of each standard available for public viewing, upon written request for an appointment, at its Washington, D.C. reading room. RJN  $\P$  1.

44. According to a statement by the Modification and Replacement Parts Association: "The burden of paying high costs simply to know the requirements of regulations may have the effect of driving small businesses and competitors out of the market, or worse endanger the safety of the flying public by making adherence to regulations more difficult due to fees . . . ." M. Becker Decl. ¶ 103, Ex. 105 (ABA Section of Administrative Law and Regulatory Practice Resolution, submitted November 17, 2015).

45. ASTM gives government bodies like the U.S. Geological Survey and the State of Georgia, fellow standards development organizations like NFPA, IAPMO, and ICC, and favored corporations liberal permission to copy standards in both paper and electronic format, and to use excerpts from standards in other documents. M. Becker Decl. ¶ 105, Ex. 107; ¶ 106, Ex. 108; ¶ 107, Ex. 109; ¶ 108, Ex. 110; ¶ 109, Ex. 111; ¶ 110, Ex. 112.

46. ASTM regularly refuses to give similar permissions to graduate students,
universities, libraries, and smaller businesses. M. Becker Decl. ¶ 128, Ex. 130; ¶ 118, Ex. 120; ¶
111, Ex. 113; ¶ 129, Ex. 131; ¶ 113, Ex. 115; ¶ 114, Ex. 116; ¶ 115, Ex. 117.

47. ASTM gave the structural engineering firm SGH, "a big supporter of ASTM,"
permission to excerpt a number of figures and tables from a standard. M. Becker Decl. ¶ 110, Ex.
112.

48. ASTM refused to allow an engineering student at the University of Pennsylvania to use "photographs and figures" from another standard in a case study. M. Becker Decl. ¶ 115, Ex. 117.

49. When an ASTM employee wrote that "we typically do not provide figures [from standards] for reproduction purposes," John Pace, ASTM's Vice President of Publications and Marketing, responded that ASTM has a "'triple standard' here on considerations for such requests," and that the owner of a chemical company, Sheldon Dean, who was "platinum level" because of his "connection status" with ASTM committees, should be given permission to use excerpts from an ASTM standard in a forthcoming book. M. Becker Decl. ¶ 117, Ex. 119.

50. ASTM refused to allow Columbia Analytical to reproduce several abstracts from

an ASTM standard. M. Becker Decl. ¶ 118, Ex. 120.

51. Plaintiffs provide "reading rooms" for some of the incorporated standards.
Thomas Decl. ¶ 50, ECF No. 118-11; O'Brien Decl. ¶ 60, ECF No. 118-7; Pauley Decl. ¶ 45,
ECF No. 118-8; Reiniche Decl. ¶ 19–20, ECF No. 188-10.

52. Plaintiffs' "reading rooms" do not permit software-based searching and analysis of the incorporated standards. M. Becker Decl.  $\P$  94, Ex. 96 (Fruchterman Rep.  $\P$  6).

53. Plaintiffs online "Reading Rooms" do not allow people with print disabilities to use software based screen readers to access the legally mandated standards. M. Becker Decl.
¶ 94, Ex. 96 (Fruchterman Rep. 7–13).

54. People must register to access the reading rooms established by ASTM and NFPA. The registration process requires a visitor to provide ASTM and NFPA with their names and email address. ASTM also requires visitors to provide additional information, including the visitors address and phone number. M. Becker Decl. ¶ 6, Ex. 8 (Grove Dep. 213:14–19); ¶ 2, Ex. 4 (Bliss Dep. 79:4–7); ¶ 9, Ex. 11 (Mullen Dep. 50:4–18.; ¶ 130, Ex. 132 (ASTM Reading Library Registration Screen, Page 1); ¶ 131, Ex. 133 (ASTM Reading Library Registration Screen, Page 2); ¶ 136, Ex. 138 (NFPA Sign In Webpage).

55. NFPA uses the information gathered from visitors to its online Reading Room to send marketing materials. M. Becker Decl. ¶ 9, Ex. 11 (Mullen Dep. 51:17–52:2).

56. The visitor to Plaintiffs' reading rooms will find the standard displayed in a small box on the visitor's screen, in text that is sometimes degraded, in a small font size that is difficult for many people to read. Magnification of the text makes the text appear blurry. In general only a small part of each page of the standard is visible at once, and with greater magnification even a single line cannot be viewed without scrolling. Each page of each standard is stamped over the

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text with a warning that the material is copyrighted. M. Becker Decl. ¶ 6, Ex. 8 (Grove Dep. 217:1–19); ¶ 138, Ex. 140; ¶ 139, Ex. 141; ¶ 140, Ex. 142; ¶ 141, Ex. 143; ¶ 2, Ex. 4 (Bliss Dep. 219:18-221:05); ¶ 137, Ex. 139 (ASHRAE Reading Room Screen Shot). O'Brien Decl. Ex. 18, ECF No. 118-7. Id. ¶ 139, Ex. 141.

*Id.* ¶ 138, Ex. 140.

57. A user of ASTM's reading room must click a box that states the user agrees to ASTM's end user license agreement before accessing the reading room. NFPA's reading room also contains terms of service. M. Becker Decl. ¶ 134, Ex. 136 (ASTM License Agreement Webpage); ¶ 133, Ex. 135 (ASTM Reading Room Terms); ¶ 135, Ex. 137 (NFPA Free Access Terms).

58. ASHRAE posted some of its standards for public viewing in a format that restricted downloading. M. Becker¶ 3, Ex. 5 (Comstock Dep. 11:25–12:7).

59. ASHRAE posted its standards for public viewing with the intent of increasing demand for the posted standards. M. Becker ¶ 3, Ex. 5 (Comstock Dep. 11:25–12:7).

60. ASHRAE removes older standards incorporated by reference from its reading room. M. Becker Decl. ¶ 3, Ex. 5 (Comstock Dep. 20:19–22).

61. Plaintiffs do not allow people to print or download the standards on their reading rooms. M. Becker Decl. ¶ 132, Ex. 134 (ASTM Reading Room Disclaimer)

62. ASTM defines the standards they produce as documents comprising"specifications, test methods, practices, guides, classification and terminology." M. Becker Decl.¶ 6, Ex. 8 (Grove Dep. 14:22–15:6).

63. ASTM has a form and style guide that sets forth the rules that persons generally

must follow in participating in the drafting and revision process of ASTM standards. M. Becker Decl. ¶ 6, Ex. 8; ¶ 23, Ex. 25 (Grove Dep. 268:14–269:4).

64. According to NFPA's corporate designee, Donald Bliss, codes and standards are procedures and practices. M. Becker Decl. ¶ 2, Ex. 4 (Bliss Dep. 21:18–22:11).

65. ASHRAE described one of the standards at issue, the 1993 ASHRAE Handbook: Fundamentals, as "a tool for engineers to use when they're working with the topics covered in that book." M. Becker Decl. ¶ 10, Ex. 12 (Reiniche Dep. 158:20–24).

66. The content of the ASHRAE standards-at-issue is based on a technical committee's review of the relevant research, public input and committee expertise, all of which is intended to determine the best rule—the consensus standard—for the relevant industry. M. Becker Decl. ¶ 2, Ex. 4 (Bliss Dep. 140:1–41:4); ¶ 4, Ex. 6 (Dubay Dep. 29:12–21, 68:9–20, 73:16–25); ¶ 10, Ex. 12 (Reiniche Dep. 94–95). Jarosz Rep. 26–30, ECF No. 117-1.

67. NFPA is committed to reducing "the worldwide burden of fire and other hazards" by developing and disseminating codes that will minimize fire risk. Jarosz Rep. 29, ECF No. 117-1.

68. Bliss testified that, when he was a committee member, his motivation was to develop the "best" standard, and "best" meant "understanding the problem based on past experience and events, having as much scientifically based research to contribute to the development of the standard and then a very, very open and transparent consensus process." After that:

There's a tremendous amount of public input and vetting of the concepts and the actual language which in reality mirrors a government adoption of legislative process.

M. Becker Decl. ¶ 2, Ex. 4 (Bliss Dep. 139:07–140:10).

69. ASHRAE says its standards define "the minimum acceptable performance for the relevant products." Jarosz Rep. 33, ECF No. 117-1.

70. The main benefit of the consensus process, according to ASHRAE, is that it relies on experts who understand "how to make that product or how to construct that building or how to make something more energy efficient." M. Becker Decl. ¶ 10, Ex. 12 (Reiniche Dep. 102:23–25).

71. As NFPA puts it, there are two types of changes: technical changes, which are "scientific" and wording changes, which involve making potentially confusing language more clear "to make it easier to interpret of understand what that actual technical requirement is." M. Becker Decl. ¶ 4, Ex. 6 (Dubay Dep. 28:22–30:4).

72. The volunteers who work on the standards don't view them as creative expression. Volunteers debate wording in the standards so as to have the most precise and accurate description of the process, system, or methods that comprise the standards. The exact wording matters, and it is not sufficient to try to rephrase this language as rephrasing could introduce errors. M. Becker Decl.  $\P$  2, Ex. 4 (Bliss Dep. 140:1–140:10).

73. Plaintiffs believe that technical excellence is why their standards are ultimately incorporated by reference. M. Becker Decl. ¶ 6, Ex. 8 (Grove Dep. 235:2–23).

74. NFPA wants "to make it as easy as possible for users to understand the structure of the standard." M. Becker Decl. ¶ 4, Ex. 6 (Dubay Dep. 138–139).

75. NFPA asserted that "standard developers converge around terminology and format that works for their constituents that utilize their standards." M. Becker Decl. ¶ 4, Ex. 6 (Dubay Dep. 139:03–06).

76. ASHRAE changed its arrangement of 90.1 from one column to two columns, as

well as the chapter organization, to make it shorter. M. Becker Decl. ¶ 10, Ex. 12 (Reiniche Dep. 194–198).

77. The adoption or incorporation of NFPA codes and standards into law may benefit NFPA financially because it encourages industries to purchase the standard. M. Becker Decl. ¶ 2, Ex. 4 (Bliss Dep. 118:23–119:1); ¶ 7, Ex. 9 (Jarosz Dep. 209:16–210:7).

78. Plaintiffs monitor whether people follow the requirements of standards incorporated into law. M. Becker Decl. ¶ 2, Ex. 4 (Bliss Dep. 30:1–37:25).

79. Plaintiffs enforce whether people follow the requirements of standards incorporated into law. M. Becker Decl. ¶ 2, Ex. 4 (Bliss Dep. 30:1–37:25).

80. The standards at issue are dictated by external factors, including international principles and the desire to satisfy regulations and laws. M. Becker Decl. ¶ 104, Ex. 106 (Public Policy & Corporate Outreach Presentation, Sep. 2015); ¶ 6, Ex. 8 (Grove Dep. 94:24-95:01).

81. NFPA's Style Manual for the NEC, for example, specifies that because the NEC is "intended to be suitable for adoption as a regulatory document, it is important that it contain clearly stated mandatory requirements in the code text" so as to "encourage uniform adoption . . . without alterations." Additionally, ASHRAE circulates a detailed Manual designed to ensure that technical committees draft standards that will be easily adopted as regulations. M. Becker Decl. ¶ 120, Ex. 122 (Style Manual for the NEC at 4); Ex. 103 (ASHRAE Guide to Writing Standards in Code Intended Language).

82. Public Resource posted some of the incorporated standards at issue in standard Web formats. C. Malamud Decl. ¶ 24–27; M. Becker Decl. ¶ 8, Ex. 10 (R. Malamud Dep. 64:10–17); ¶8, Ex. 10 (R. Malamud Dep. 94:11); Jarosz Rep. ¶ 35, ECF No. 117-1.

83. Public Resource posted the incorporated standards at issue using Hypertext

Markup Language (HTML), Mathematics Markup Language (MathML), and Scalable Vector Graphics (SVG). Over time, Public Resource used contractors to assist in transforming the standards into HTML format. Two people independently type out most of the standards on Public Resource's websites and compare any discrepancies between their versions to confirm the accuracy of the transcription in a process called "double-keying." Public Resource's contractor also worked with after-school educational programs to convert the diagrams into Scalable Vector Graphics ("SVG") and the mathematical formulae into Mathematics Markup Language ("MathML"), a program that trains high-school and college students how to create Web pages and educates them about democracy. C. Malamud Decl. ¶ 25.

84. Hypertext Markup Language (HTML), Mathematics Markup Language (MathML), and Scalable Vector Graphics (SVG) permit users to perform software-based searching and analysis. C. Malamud Decl. ¶ 25.

85. Public Resource does not restrict the public from viewing any of the incorporated standards at issue on its websites. C. Malamud Decl. ¶ 23.

86. Public Resource does not require people to log in to its website before viewing any of the incorporated standards at issue on its websites. C. Malamud Decl.  $\P$  23.

87. Public Resource does not require people to pay Public Resource before viewing any of the incorporated standards at issue on its websites. C. Malamud Decl. ¶ 23.

The Public Resource websites are directed at researchers and engaged citizens. C.
 Malamud Decl. ¶ 4, 26.

89. Public Resource's stated purpose for providing an archive or laws and other government documents on its websites is to bolster the public's ability "to know and speak the law." C. Malamud Decl. ¶ 28 (https://law.resource.org/pub/12tables.html).

90. Plaintiffs sell copies of the incorporated standards at issue. Thomas Decl. ¶ 44,
ECF No. 118-11; Pauley Decl. ¶ 44, ECF No. 118-8; Rubel Decl. Ex. 8 (Comstock Dep. 104:21–106:23), ECF No. 118-12.

91. Public Resource's versions of the incorporated standards at issue are reasonably accessible to the print-disabled. People who are print-disabled can use screen reader software to read and navigate the HTML versions of the standards. James Fruchterman, Public Resource's expert on accessibility, concluded that "a blind person using a screen reader" can "read the standard . . . navigate to a specific place in the document . . . and search for key terms."). Mr. Fruchterman also observed that "standard HTML" as used by Public Resource "is also highly accessible to people with other print disabilities and the assistive technology they use to access print," such as people with "vision impairment, dyslexia, brain injury and physical disabilities." M. Becker Decl. ¶ 94, Ex. 96 (Fruchterman Rep. 5–7); ¶ 8, Ex. 10 (R. Malamud Dep. 233:15–234:7); ¶ 5, Ex. 7 (Fruchterman Dep. 125:10–11).

92. Plaintiffs' versions of the incorporated standards at issue online are not as accessible to the print-disabled as Public Resource's versions of those standards. None of the Plaintiffs provide free electronic access to standards incorporated into law for people with disabilities. For example, NFPA's website requires visitors to register before viewing the standards, and its registration process cannot be completed by blind users. None of the Plaintiffs provides machine-readable text of the incorporated standards through their free reading portals. They provide only "a picture of the text," which causes screen-reading software to "stop working." Nor do the Plaintiffs' websites provide any means for disabled visitors to search or navigate the documents. Thus, "Public.Resource.Org currently provides the only accessible option for people/citizens with print disabilities to access these standards." M. Becker Decl. ¶ 5,

Ex. 7 (Fruchterman Dep. 43:21–23; 112:1–8; 133:5; 143:10–14; 165:17–166:7; 167:8; 205:2–13); ¶ 94, Ex. 96 (Fruchterman Rep. 5–13); ¶ 2, Ex. 4 (Bliss Dep. 220:1–221:25); ¶ 2, Ex. 4 (Bliss Ex. 1003); ¶ 3, Ex. 5 (Comstock Dep. 20:22; 44:1–46:25).

93. Downloading an incorporated standard allows more flexibility for using and sharing that standard. M. Becker Decl. ¶ 7, Ex. 9 (Jarosz Dep. 215:9–15; 215:21–216:1).

94. It is not Public Resource's intention to make copies that are similar to the standards actually sold by ASTM available on its website because they post standards that have been explicitly and specifically incorporated by reference into federal or state law. C. Malamud Decl.  $\P$  4–15.

95. Public Resource posted the incorporated standards at issue to inform citizens about the content of the law. C. Malamud Decl. ¶ 4.

96. Public Resource posted the incorporated standards at issue on its website in formats meant to increase citizen access to the law. C. Malamud Decl. ¶ 26.

97. Public Resource posted the incorporated standards at issue for the purpose of transforming the information in the standards by making that information accessible to people who did not necessarily have access to that information before. C. Malamud Decl.  $\P$  35.

98. Public Resource does search engine optimization so that the standards are accurately described in search engine results. C. Malamud Decl. ¶ 29.

99. Technology that would allow a blind person access but prevent a non-disabled person from accessing text does not yet exist. M. Becker Decl. ¶ 94, Ex. 96 (Fruchterman Rep. 101:8–14).

100. ASTM has a policy against permitting the posting of ASTM standards on the public internet. M. Becker Decl. ¶ 142, Ex. 144.

101. ASTM did not permit a person in the UK to post the information in the ASTMD2000-12 standard. M. Becker Decl. ¶ 143, Ex. 145.

102. People want to use the most recent version of ASTM's standards, even if an older version is incorporated by reference into law. M. Becker Decl. ¶ 6, Ex. 8 (Grove Dep. 171:5–8).

103. ASTM seeks to get Congress to incorporate the most recent version of any particular standard because incorporation "freezes ... that reference in statute for years to come."M. Becker Decl. ¶ 6, Ex. 8 (Grove Dep. 260:25–261:15).

104. People may want to read older versions of standards because the older version may be the version that is incorporated by reference in a code or regulation. M. Becker Decl. ¶ 3, Ex. 5 (Comstock Dep. 19:20–24).

105. As a public officer (but not as an NFPA employee), NFPA Vice President Donald Bliss has experienced confusion as to which version or edition of the code is in force in a jurisdiction because NFPA produces a number of different editions. M. Becker Decl. ¶ 2, Ex. 4 (Bliss Dep. 215:13–23).

106. Public Resource's posting of the incorporated standards at issue has not caused
Plaintiffs any measurable harm. M. Becker Decl. ¶ 7, Ex. 9 (Jarosz Dep. 63:3–10; 123:14–18;
136:5–137:24; 155–158; 160:3–6; 177:17–178:5; 212:11–213:3; 214:13–215:3; 245:2–250:11);
¶ 3, Ex. 5 (Comstock Dep. 12:2-11; 63:10-16; 64:20–25).

107. Public Resource's posting of the incorporated standards at issue has not had a measurable impact on ASTM's finances. M. Becker Decl. ¶ 144, Ex. 146; ¶ 6, Ex. 8 (Grove Dep. 144:22–145:2).

108. ASTM has no evidence that it has lost sales of any of the incorporated standards at issue because Public Resource made the incorporated standards at issue publicly available. M.

Becker Decl. ¶ 6, Ex. 8 (Grove Dep. 152:19–24).

109. ASTM has no evidence that Public Resource caused ASTM to lose money. M.Becker Decl. ¶ 6, Ex. 8 (Grove Dep. 154:25–155:5).

110. ASTM has no knowledge of any evidence that Public Resource caused ASTM any property damage or injury. M. Becker Decl.  $\P$  6, Ex. 8 (Grove Dep. 155:7–12).

111. ASTM has no evidence that Public Resource caused ASTM any damage to ASTM's reputation. M. Becker Decl. ¶ 6, Ex. 8 (Grove Dep. 165:12–15).

112. Plaintiffs' expert Jarosz was unable to quantify any financial losses to Plaintiffs as a consequence of Public Resource's activities. M. Becker Decl. ¶ 7, Ex. 9 (Jarosz Dep. 63:3–10).

113. Plaintiffs' expert Jarosz was not aware of any documents showing NFPA suffered harm from Public Resource's activities. M. Becker Decl. ¶ 7, Ex. 9 (Jarosz Dep. 123:9–18).

114. Plaintiffs' expert Jarosz's only evidence of harm is statements by plaintiffs' officers. M. Becker Decl. ¶ 7, Ex. 9 (Jarosz Dep. 155–163).

115. Plaintiffs' expert Jarosz was not aware of any direct evidence of the impact ofPublic Resource's activities on Plaintiffs' financials. M. Becker Decl. ¶ 7, Ex. 9 (Jarosz Dep. 160:3–6).

116. Plaintiffs' expert Jarosz did not correlate Public Resource's posting of the standards at issue with Plaintiffs' revenues from the sale of the standards at issue. M. Becker Decl. ¶ 7, Ex. 9 (Jarosz Dep. 177:17–178:5).

117. Plaintiffs' expert Jarosz did no analysis to distinguish the profitability of the standards at issue from the profitability of standards that have not been incorporated by reference into law. M. Becker Decl. ¶ 7, Ex. 9 (Jarosz Dep. 183:4–15).

118. Plaintiffs' expert Jarosz lacks certainty that Public Resource's posting of the

standards at issue caused any economic loss to Plaintiffs. M. Becker Decl. ¶ 7, Ex. 9 (Jarosz Dep. 212:11–213:3).

119. Plaintiffs' expert Jarosz did not evaluate the extent of distribution of the standards at issue via Public Resource's website. M. Becker Decl. ¶ 7, Ex. 9 (Jarosz Dep. 214:13–215:3; 216:2–5; 245–49).

120. ASHRAE is not aware of any revenue lost from the free availability of ASHRAE standards online. M. Becker Decl. ¶ 3, Ex. 5 (Comstock Depo 12:2–11; 63:10–16; 64:20–25).

121. ASTM's sales from publications have increased 2% over the past 2–3 years. This was in accord with Grove's expectations. M. Becker Decl. ¶ 6, Ex. 8 (Grove Depo 19:21–20:13).

122. ASHRAE has not attempted to track losses due to Public Resource's conduct. M.Becker Decl. ¶ 3, Ex. 5 (Comstock Dep. 63:10–16).

123. NFPA has not identified "any direct correlation" between adoption of an edition and an increase in sales. "The only general correlation is that once a new version of the code is out, we will sell more of the new edition and less of the old edition, but nothing – no general correlation to adoption or specific spikes." M. Becker Decl. ¶ 9, Ex. 11 (Mullen Dep. 95:3–25).

124. NFPA does not have a number on any balance sheet that corresponds to the value of the copyrights it holds because NFPA does not "attempt to place any value on any intangible asset." M. Becker Decl. ¶ 9, Ex. 11 (Mullen Dep. 140:11–18).

125. According to NFPA's Bruce Mullen, "If I had to guess, the non-business or government purchases is probably less than 1 percent of the total sales." M. Becker Decl. ¶ 9, Ex.
11 (Mullen Dep. 187:14–23).

126. Plaintiffs' assertion of copyright in incorporated standards makes it more difficult for others to produce materials such as training and user manuals. M. Becker Decl. ¶ 7, Ex. 9

(Jarosz Dep. 217-224).

127. Allowing "unauthorized persons" to use standards without training is not a cognizable harm. M. Becker Decl. ¶ 7, Ex. 9 (Jarosz Dep. 227:14–228:14).

128. "Confusion" between incorporated standards and newer versions of Plaintiffs' standards does not harm Plaintiffs. M. Becker Decl. ¶ 7, Ex. 9 (Jarosz Depo 254:14–257:9).

129. Plaintiffs have no evidence that they suffered any loss of revenues in Texas,
Louisiana, or Mississippi since 2002, when the Fifth Circuit Court of Appeals decided *Veeck v*. *S. Bldg. Code Cong. Int'l, Inc.*, 293 F.3d 791, 796 (5th Cir. 2002) (*en banc*). M. Becker Decl. ¶
7, Ex. 9 (Jarosz Dep. 130:6–19).

130. Almost all of the standards at issue that Plaintiffs registered with the Copyright Office are registered as "works made for hire" (with the exception of one NFPA standard, NFPA 54 National Fuel Gas Code 2006). M. Becker Decl. ¶ 11, Ex. 13 (ASTM Certificates of Registration); ¶ 13, Ex. 15 (NFPA Certificates of Registration ); ¶ 14, Ex. 16 (ASRAE Certificates of Registration).

131. Plaintiffs have not provided evidence that one standard at issue, ASTM D3231958 (1968), was ever registered with the copyright office. Complaint, Ex. A at 4, ECF No. 1-1.

132. Each standard at issue was developed by a large number of unpaid volunteers, including federal government employees, state and municipal government employees, employees of private companies and organizations, and ordinary citizens. M. Becker Decl. ¶ 11, Ex. 13 (Smith Dep. 56:03–57:06); ¶ 79, Ex. 81; ¶ 6, Ex. 8 (Grove Dep. 97:25–98:07); ¶ 20, Ex.22; ¶ 22, Ex. 24; ¶ 4, Ex. 6 (Dubay Dep. 15:16–16:10, 51:20–52:15, 75:17–76:11, 240:22–242:04); ¶ 9, Ex. 11 (Mullen Dep. 114:22–115:23); ¶ 10, Ex. 12 (Reiniche Dep. 21:01–23:21, 105:08–106:18 194:04–194:07); ¶ 42, Ex. 44; ¶ 46, Ex. 48. 133. Volunteers or members of the public proposed the creation or revision of the standards at issue. M. Becker Decl. ¶ 11, Ex. 13 (Smith Dep. 18:05–18:19, 280:10–280:20); ¶ 93, Ex. 95; ¶ 123, Ex. 125, p. 4; ¶ 10, Ex. 12 (Reiniche Dep. 94:20–98:24); ¶ 124, Ex. 126, p. 5 (discussing ASHRAE membership categories).

134. Volunteers drafted the language for the standards at issue, with public input, and determine the arrangement and inclusion of proposed text. M. Becker Decl. ¶ 11, Ex. 13 (Smith Dep. 18:05–18:23, 20:04–20:11); ¶ 93, Ex. 95; ¶ 2, Ex. 4 (Bliss Dep. 45:12–46:02) ("We use a system of volunteers to serve on committees to develop the standard. It's volunteers that serve on the standards council. It's volunteers that serve as our membership to make the final voting."); ¶ 2, Ex. 4 (Bliss Dep. 46:03–46:13); ¶ 4, Ex. 6 (Dubay Dep. 29:12–29:21); ¶ 10, Ex. 12 ((Reiniche Dep. 49:08-50:11); ¶ 10, Ex. 12 (Reiniche Dep. 60:05–60:12) ("[ASHRAE] Standard 90.1 is on continuous maintenance, so anyone at any time can propose a change to the standard. It could be a project committee member or the public.").

135. Volunteers voted on the final content of the standards at issue at the end of the development or revision process. M. Becker Decl. ¶ 11, Ex. 13 (Smith Dep. 15:25–16:10, 17:14–17:24, 98:07–98:25, 186:21–186:25, 274:23–276:12); ¶ 2, Ex. 4 (Bliss Dep. 45:12–46:13); M. Becker Decl. ¶ 4, Ex. 6 (Dubay Dep. 55:22–57:17); M. Becker Decl. ¶ 10, Ex. 12 (Reiniche Dep. 94:20–96:02) (describing the volunteer committee resolution process that votes on drafts and revisions of ASHRAE standards).

136. The volunteers who developed the standards at issue did so out of service to their country as federal, state, or municipal employees, in furtherance of the business interests of the private companies or organizations they worked for, or because of personal interest. M. Becker Decl. ¶ 11, Ex. 13 (Smith Dep. 45:16–46:04) (stating that volunteers develop ASTM standards

because "a company or an individual would be interested in having an ASTM standard that they could say their product or service is in compliance with"); ¶ 2, Ex. 4 (Bliss Dep. 138:22139:12) (as a public official, Mr. Bliss participated in NFPA standard development because his "motivation was to try and establish the best possible fire safety standards that could be developed"); ¶ 10, Ex. 12 (Reiniche Dep. 50:1251:06) (volunteers or members of the public participate because it affects their business interests and they want to write the language that is adopted into code, or because of personal interest).

137. Plaintiffs' employees set up meetings to discuss drafts of the standards at issue at public locations, advised the volunteers who drafted the standards, and assisted with formatting. M. Becker Decl. ¶ 11, Ex. 13 (Smith Dep. 268:13–272:25) (listing the ways in which ASTM staff assist the people who actually draft the standards); M. Becker Decl. ¶ 4, Ex. 6 (Dubay Dep. 52:16–53:04) ("NFPA employees are not -- cannot be members of our technical committees. However, as I stated previously, it's important -- there's an important role that NFPA staff plays in guiding, advising the committee, coordinating the activities and providing their technical expertise, especially technical staff liaison into this committee process. But they do not have -- they're not members of the committee, and they do not carry a vote in the decisions of the committees."); M. Becker Decl. ¶ 10, Ex. 12 (Reiniche Dep. 97:13–98:19) (involvement of ASHRAE staff in development and updating of standard 90.1 is limited to reviewing and making suggestions to the volunteers who draft and vote on the text of the standard).

138. Plaintiffs did not have control over the content of the standards at issue during the development and revision of those standards. The decision to develop or revise the standards at issue was made by volunteers, not by the Plaintiffs. M. Becker Decl. ¶ 11, Ex. 13 (Smith Dep. 15:25-16:10, 17:14-17:24, 98:07-98:25, 186:21-186:25, 274:23-276:12); M. Becker Decl. ¶ 2,

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Ex. 4 (Bliss Dep. 45:12–46:02, 46:03–46:13) (NFPA employees assist the volunteers, but the volunteers have the "ultimate decision . . . as to what the language will actually say"); M. Becker Decl. ¶ 4, Ex. 6 (Dubay Dep. 55:22–57:17); M. Becker Decl. ¶ 10, Ex. 12 (Reiniche Dep. 94:20–96:02).

139. NFPA is the only Plaintiff to allege that a work made for hire agreement was signed by developers of the standards at issue. Plaintiffs' Statement of Material Facts ¶ 115, ECF No. 118-2. This language attempting to classify the work of volunteers as "work made for hire" was added to NFPA forms only in 2007, after most of the standards at issue were already published, and used inconsistently thereafter. M. Becker Decl. ¶ 125, Ex. 127, ¶ 126, Ex. 128, ¶ 127, Ex. 129 (compare NEC proposal forms from 2005, 2007, and 2008).

140. Plaintiffs claim to be assignees of any copyright that the volunteers or members of the public who authored the standards at issue might have had in the standards at issue. Pls. Mem. 16, ECF. No. 118-1.

141.				
				1
			M. Becker Decl. ¶	51, Ex. 53

at p. 6, fn. 4.

142. ASHRAE claims ownership of its Standards at Issue by virtue of copyright release forms that the people who drafted the standards allegedly signed. M. Becker Decl. ¶ 10, Ex. 12 (Reiniche Dep. 192:17–194:03 (stating that ASHRAE claims authorship of the standards at issue "[a]s a basis of the signed copyright assignments that all the members sign when they apply for membership, that the commenters sign when they submit a comment and that the

members that submit change – or the public that submits change proposals sign when they submit a change proposal"); Reiniche Dep. 193:08–17 (stating that the people who authored the standards are not employees of ASHRAE)).

143. ASHRAE requires volunteers who contribute to standard development to sign a

copyright release explicitly granting ASHRAE "non-exclusive" rights in those contributions. M.

BeckerDecl. ¶ 10, Ex. 12 (Reiniche Dep. 70:02-70:11).

144. ASHRAE indicated the following language from one of its alleged "assignment" forms when asked to indicate what language from that form it believes serves as an assignment of copyright rights:

If elected as a 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*, *royaltyfree 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.

M. Becker Decl. ¶ 46, Ex. 48 (Reiniche Ex. 1155) (emphasis added); M. Becker Decl. ¶ 10, Ex.

12 (Reiniche Dep. 94:12–94:14).

145. Every document that ASHRAE has produced to support its claim that the people who drafted the ASHRAE standards at issue assigned their copyrights to ASHRAE states explicitly that the grant of rights is non-exclusive. M. Becker Decl. ¶ 10, Ex. 12 (Reiniche Dep. 69:19–94:19); M. Becker Decl. ¶ 25–46, Exs. 27–48.

146. All but four of the 229 ASTM standards at issue in this case were developed and published prior to 2003. ECF No. 1-1 (Complaint) Ex. A.

147. ASTM admits that it did not request copyright assignments from the people who

drafted ASTM standards until approximately 2003. M. Becker Decl. ¶ 11, Ex. 13 (Smith Dep. 24:18–26:12; 27:07–27:14; 40:22–41:15; 214:24–215:06).

148. ASTM has not produced signed copyright assignments for any of the standards at issue. M. Becker Decl. ¶ 11, Ex. 13 (Smith Dep. 24:18–26:12; 27:07–27:14; 40:22–41:15; 214:24–215:06).

149. Prior to 2003, ASTM did not believe that it needed formal assignment agreements. M. Becker Decl. ¶ 11, Ex. 13 (Smith Dep. 42:15–42:16) ("[ASTM] didn't feel like we needed any formal, any formal assignment paper.").

150. ASTM alleges that it relied on an unspoken "basic understanding" that the volunteers who drafted the standards at issue intended to create standards that ASTM would eventually distribute. M. Becker Decl. ¶ 11, Ex. 13 (Smith Dep. 42:18–44:01; 94:01–94:20).

151. ASTM has not produced any evidence of the existence of an alleged "basic understanding" between the creators of the standards at issue and ASTM, nor any evidence of what the contours of this "basic understanding" were. M. Becker Decl. ¶ 11, Ex. 13 (Smith Dep. 44:03–45:14; 104:21–105:24) ("Q: Did Mr. Lively provide any basis for his statement that there was an understanding in the early '80s that ASTM would copyright the material provided by individuals that was incorporated into the standards drafts? A: No. I think it was just his belief just as it was my belief."); (Smith Dep. 44:03–45:14) (stating that ASTM "didn't think that documentation [of the alleged 'basic understanding'] was needed").

152. ASTM claimed that the ASTM "IP Policy" somehow confirms the existence of this alleged "basic understanding." M. Becker Decl. ¶ 11, Ex. 13 (Smith Dep. 57:23–59:25).

153. The earliest IP Policy document that ASTM produced in this litigation was approved by ASTM on April 28, 1999 and put into effect thereafter. ASTM had no IP Policy

prior to April 28, 1999. M. Becker Decl. ¶ 75, Ex. 77, ¶ 77, Ex. 79 [Ex. 1285, 1287, 1288].

154. ASTM had no IP Policy prior to April 28, 1999. M. Becker Decl. ¶ 150, Ex.152 (Internet Archive capture of the ASTM home page the day before the ASTM IP Policy was approved, and a capture after the ASTM Policy was approved, showing that the link to the IP Policy in the lower-right corner of the page was not present on April 27, 1999).

155. In 2010, approximately three years after the publishing of the most recent ASTM standard at issue, the ASTM IP Policy was amended to include the following language: "Each member agrees, by such participation and enjoyment of his/her annual membership benefits, to have transferred any and all ownership interest, including copyright, they possess or may possess in the ASTM IP to ASTM." M. Becker Decl. ¶ 75, Ex. 77, ¶ 77, Ex. 79 (Compare Section V.D. in both documents).

156. There was no means that ASTM imposed for the volunteers who drafted the ASTM standards at issue to signify that they had read and agreed to the ASTM IP Policy. M. Becker Decl. ¶ 11, Ex. 13 (Smith Dep. 173:10–181:12) (admitting that ASTM does not know if members read or understood the assignment clause, nor whether they assented to transfer their copyright to ASTM).

157. ASTM has not retained or produced in this litigation completed membership forms pertaining to any of the standards at issue. The membership forms that ASTM has produced date from 2008 and later, with only one membership form from 2007. M. Becker Decl. ¶ 90, Ex. 92; M. Becker Decl. ¶ 11, Ex. 13 (Smith Dep. 258:11–258:23).

158. ASTM has failed to exercise control over the creation and enforcement of its membership and participation forms (that it terms copyright "assignments"), resulting in a multiplicity of forms that either have no assignment language at all, or have various iterations of

language that ASTM claims grants it copyright assignments. M. Becker Decl. ¶ 11, Ex. 13 (Smith Dep. 216:01–217:12, 225:05–225:19 (membership forms were prepared ad hoc by any number of people, and he does not know if anyone knows how many different variations of ASTM membership form were used from 2007 to 2014, because his "experience as being a staff manager is I don't think people think about the version of an application that's being used. I think it's viewed as a tool that enables an individual to join a technical committee."),

159. Many individuals renew their ASTM memberships through alternate channels other than using ASTM membership renewal forms or renewing through ASTM's online portal, and thereby do not encounter or formally assent to any copyright assignment language. M. Becker Decl. ¶ 11, Ex. 13 (Smith Dep. 278:04–278:18) (ASTM members can renew their membership by phone or by email, without using the online portal or using ASTM's mail-in forms); M. Becker Decl. ¶ 92, Ex. 94 (example of an ASTM member renewing by email). ASTM's online membership agreement process does not require a member to click "yes," or "I agree," or any other affirmation to the language discussing copyright assignment that appears on the web page. Instead, members click a button labeled "continue" that appears below the message: "[c]lick 'continue' to place your ASTM membership renewal in the shopping cart." M. Becker Decl. ¶ 147, Ex. 149.

160. The membership forms that ASTM has produced usually do not include language asking for an assignment of copyright rights. M. Becker Decl. ¶ 11, Ex. 13 (Smith Dep. 211:24-212:12) (acknowledging ASTM forms that did not have assignment language); M. Becker Decl. ¶¶ 82-84, Exs. 91 ¶¶82–84, Ex. 93 (examples of ASTM forms without any assignment language).

161. Of the ASTM forms that do include what ASTM alleges to be assignment

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language, there is no means for a person filling out the form to sign her name or show that she agrees to assign her copyright rights to ASTM. M. Becker Decl. ¶¶ 85-89, 78, Exs. 87-91, 80 (ASTM forms with alleged assignment language); M. Becker Decl. ¶ 11, Ex. 13 (Smith Dep. 173:10–181:12) (admitting that there is nowhere on the alleged copyright assignment for a member to check a box, sign her name, or otherwise indicate that she understands and assents to transfer her copyright to ASTM, and admitting that ASTM does not know if a member who completes the form has read the assignment clause or assents to transfer her copyright to ASTM).

162. Through at least 2008, NFPA used copyright release language for the creators of the NFPA standards at issue that referred to a grant of non-exclusive rights. M. Becker Decl.
¶¶ 52–71, 73–74, Ex. 54–76; Ex. 129.

163. For example, an NFPA document soliciting proposed text for the 2011 edition of the National Electrical Code, includes the following text:



M. Becker Decl. ¶ 127, Ex. 129 (emphasis added).

164. NFPA did not exercise control over the process by which people submitted proposals. NFPA's Rule 30(b)(6) corporate representative Christian Dubay, stated that "in past history over the years . . . there's many different versions of our forms and ways of submission." M. Becker Decl. ¶ 4, Ex. 6 (Dubay Dep. 134:21–134:24.) NFPA would accept retyped versions of the forms that people used when contributing text to a standard draft. M. Becker Decl. ¶ 61, Ex. 63; M. Becker Decl. ¶ 4, Ex. 6 (Dubay Dep. 146:06–146:14). NFPA allowed volunteers to use any existing standard draft contribution form in place of the form that NFPA designated for use for the particular standard. M. Becker Decl. ¶ 4, Ex. 6 (Dubay Dep. 146:06–146:14). 165. NFPA's current online public comment portal includes the following language under the "Copyright Assignment and Signature" page: "I understand and intend that I acquire no rights, including rights as a joint author, in any publication of the NFPA in which this Public Comment in this or another similar or derivative form is used." M. Becker Decl. ¶ 152, Ex. 154 at 10. In earlier copyright releases, NFPA used similar language that would also effectively bar joint ownership: "I understand that I acquire no rights in any publication of NFPA in which this comment in this or another similar or analogous form is used." M. Becker Decl. ¶ 71, Ex. 73. ASHRAE uses almost identical language in its copyright releases: "I understand that I acquire no rights in publication of such documents in which my contributions or other similar analogous form are used." M. Becker Decl. ¶ #, Ex. 48 [Ex. 1155].

166. Federal government employees authored parts of the standards at issue. M.Becker Decl. ¶ 20, Ex. 20 at 1; ¶ 21, Ex. 23 at 9.

167. Employees of third party companies, organizations, or government entities authored parts of the standards at issue in their capacity as employees of those third party companies, organizations, or government entities. M. Becker Decl. ¶ 2, Ex. 4 (Bliss Dep. 163:04-164:19).

168. Plaintiffs have no procedures to ensure that employees of third party companies, organizations, or government entities are capable of transferring any copyright in the standards at issue to Plaintiffs, and that such copyright is not instead held by the employer. Plaintiffs do not have any procedures in place to ensure that governmental and private company employees who participate in the development of standards have the authority or ability to transfer copyright to the Plaintiff organizations, and Plaintiffs did not request copyright assignments from the employers of the individuals who authored components of the standards at issue. M. Becker

Decl. ¶ 11, Ex. 13 (Smith Dep. 46:12–49:235); (Smith Dep. 166:17–170:19); M. Becker Decl. ¶ 72, Ex. 74; M. Becker Decl. ¶ 4, Ex. 6 (Dubay Dep. 220:15–220:25) ("NFPA verifies through our policy the submission from the individual. We do not go to their companies to verify authority of their signature."); M. Becker Decl. ¶ 10, Ex. 12 (Reiniche Dep. 92:13–93:07).

169. Public Resource voluntarily applies notices to the incorporated standards at issue on its website describing the process it uses to copy standards and disclaiming affiliation with any SDOs. C. Malamud Decl. ¶ 30, Ex. 3.

170. Each of the incorporated laws at issue has a title that contains one of the Plaintiffs' names. Compl. Exs. A–C, ECF No. 1.

171. Public Resource displays links to standards incorporated by reference into the Code of Federal Regulations in a table that identifies the standards by their alphanumeric code, e.g., ASTM D396-98, its year, the developing organization, the title of the standard, and the C.F.R. section that incorporated the standard by reference. The table explains that "In order to promote public education and public safety, equal justice for all, a better informed citizenry, the rule of law, world trade and world peace, this legal document is hereby made available on a noncommercial basis, as it is the right of all humans to know and speak the laws that govern them." C. Malamud Decl. ¶ 28, Ex. 2.

172. ASTM itself states that the citation format for this standard is: "ASTM D396-98, Standard Specification for Fuel Oils, ASTM International, West Conshohocken, PA, 2001, www.astm.org." M. Becker Decl. ¶ 145, Ex. 147.

173. Public Resource purchased a physical copy of each of the incorporated laws at issue. C. Malamud Decl. ¶ 24.

174. Public Resource posted on its website a PDF version of each incorporated law at

issue. The PDF version accurately appeared as a scan of a physical version of the incorporated law. C. Malamud Decl. ¶ 24.

175. For some of the incorporated laws at issue, Public Resource posted versions in HTML and SVG formats. C. Malamud Decl. ¶ 25–26.

176. For some of the PDF versions of the incorporated laws, Public Resource attached its own cover page, which indicated where the law was incorporated by reference. C. Malamud Decl. ¶ 20–22; Compl. Ex. G, ECF No. 1-7.

177. Public Resource's addition of embedded text and metadata in the PDF versions of incorporated laws on its website did not change the appearance of the PDF versions. C. Malamud Decl. ¶ 25.

178. The embedded text in the PDF versions of incorporated laws on Public Resource's website enabled software based searching and text to speech functionality. C. Malamud Decl. ¶ 25.

179. The 2011 edition of the National Electric Code ("NEC") spans 886 pages. C.Malamud Decl. ¶ 34.

180. Public Resource purchased a physical copy of the 2011 NEC, which did not include a requirement that high-voltage cables be shielded. Public Resource posted an electronic version of that physical copy on its website in PDF and HTML formats. C. Malamud Decl. ¶ 34.

181. NFPA issued two errata to the 2011 NEC. The errata included the addition of a requirement that high-voltage cables be shielded as well as changes to cross-references in various sections. M. Becker Decl. Exs. 123–24.

182. Public Resource promptly corrected the errors to certain HTML versions of incorporated laws that Plaintiffs' counsel identified during the course of the deposition of Carl

Malamud. C. Malamud Decl. ¶ 33.

183. It is in the public interest for people to be educated about the NFPA standards. M. Becker Decl. ¶2, Ex. 4 (Bliss Dep. 121:22–122:4) ("NFPA's standards establish ways to make buildings safer and processes to be safer and for people to act or react in a more safe manner when it comes to fire, electrical safety and other hazards. It's in the public interest that people be educated about those requirements or those standards.").

184. It is in the public interest for people to use the ASTM standards. M. Becker Decl.

¶ 20, Ex. 22

185. Public.Resource.org seeks to inform the public about the content of the law. M. Becker Decl. ¶15, Ex. 17 (C. Malamud Ex. 33) (Public Resource "tries to put more government information online. We've had a big impact on putting more judicial information on the Internet, but also do fiche and a variety of other documents such as IRS nonprofit tax returns.").

186. M. Becker Decl. ¶16, Ex. 18 (C. Malamud Ex. 38) ("In order to promote public education and public safety, equal justice for all, a better informed citizenry, the rule of law work trade and world peace, this legal document is hereby made available on a noncommercial basis, as it is the right of all human to know and speak the laws that govern them."); ¶ 17, Ex. 19 (C. Malamud Ex. 57); ¶ 18, Ex. 20 (C. Malamud Ex. 58) (appeal to donors describing mission).

187. In 2002, Plaintiffs NFPA and ASHRAE argued that a lack of private monopoly to control the reproduction of mandatory building codes would "destroy" the "ability of private standards developers to underwrite the development and updating of their standards." M. Becker

Decl. ¶ 119, Ex. 121 (Brief of American Medical Assoc. et al. as Amici Curiae at 12, Veeck v.

Southern Building Code Congress International, Inc., 293 F.3d 791 (5th Cir. 2002) (No. 99-

40632)).

Dated: December 21, 2015

Respectfully submitted,

/s/ Andrew P. Bridges

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Attorneys for Defendant-Counterclaimant Public.Resource.Org, Inc.

# MATERIAL UNDER SEAL DELETED

# JA01050-JA01259

#### UNITED STATES DISTRICT COURT FOR THE DISTRICT OF COLUMBIA

AMERICAN SOCIETY FOR TESTING AND MATERIALS d/b/a ASTM INTERNATIONAL;

NATIONAL FIRE PROTECTION ASSOCIATION, INC.; and

AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS,

Plaintiffs-Counterdefendants,

v.

PUBLIC.RESOURCE.ORG, INC.,

Defendant-Counterclaimant.

Case No. 1:13-cv-01215-TSC-DAR

DECLARATION OF CARL MALAMUD IN SUPPORT OF DEFENDANT-COUNTERCLAIMANT PUBLIC.RESOURCE.ORG'S MOTION FOR SUMMARY JUDGMENT AND OPPOSITION TO PLAINTIFFS' MOTION FOR SUMMARY JUDGMENT AND PERMANENT INJUNCTION

Action Filed: August 6, 2015

I, Carl Malamud, declare as follows:

1. I am over the age of 18 years and am fully competent to testify to the matters stated in this declaration.

2. This declaration is based on my personal knowledge. If called to do so, I would and could testify to the matters stated herein.

3. I am the President and sole employee of Public.Resource.Org, Inc. ("Public Resource"), which is a 501(c)(3) non-profit corporation headquartered in Sebastopol, California. I have worked at Public Resource since I founded the organization in 2007. It is my only source of employment.

4. Public Resource's core mission is to make the law and other government materials more widely available so that people, businesses, and organizations can easily read and discuss our laws and the operations of government. Attached to Public Resource's Consolidated

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Index of Exhibits as **Exhibit 1** is a true and correct copy of Public Resource's Articles of Incorporation from our website at <u>https://public.resource.org/public.resource.articles.html</u>.

5. That mission grows out of my longtime professional commitment to improving public access to essential documents that shape our fundamental activities. In 1991, I convinced the Secretary-General of the International Telecommunication Union that the Blue Book, the specification for how telephone networks operate, should be freely available on the Internet. Working with Dr. Michael Schwartz, I transformed and posted the Blue Book into formats compatible with modern publication technologies and made it available on the Internet. The service was extremely popular, and the ITU today makes all of its standards documents freely available on the Internet. I wrote a book about this experience called "Exploring the Internet" (Prentice Hall, 1993).That book can be viewed and read at

http://museum.media.org/eti/Exploring_the_Internet.pdf.

6. I was privileged to be able to participate in the Internet Engineering Task Force, the standards body that has developed most of the standards that specify the functioning of the Internet, during the early 1990s, a period of very rapid development, both in the functionality of the Internet and its scope.

7. In 1993, when the Internet was beginning to grow explosively, I created the first radio station on the Internet, operating as a nonprofit corporation called the Internet Multicasting Service. In addition to transmitting audio and video programming, the service also provided the first high-speed Internet link into the White House, using a temporary infrared connection from our studios in the National Press Building. The radio service, which I dubbed "Internet Talk Radio," became a member of the Public Radio Satellite System, received accreditation from the U.S. House and Senate Senate Radio & Television Correspondents Galleries, sent out live audio

from the floors of the House and Senate, streamed all National Press Club luncheons, and transmitted original programming. Many of those programs can still be listened to at http://museum.media.org/radio/.

8. At the Internet Multicasting Service, I also put a number of important government databases online, including the Securities and Exchange Commission EDGAR database and the U.S. Patent database. When the SEC took the EDGAR service over from me, I loaned it computers and donated all of our source code so they could be up and running quickly. The SEC ran the system on our software for several years. On October 10, 1995, the Hon. Arthur Levitt, Chairman of the SEC, wrote to me thanking us for our efforts and calling the project an "extraordinary achievement."

9. After I started Public Resource in 2007, one of our first efforts was to place online the historical opinions of the U.S. Courts of Appeals, material that was not previously available on the Internet. Public Resource also converted all of the opinions in the first 40 volumes of the Federal Reporter as well as the Federal Cases into Hypertext Markup Language (HTML) and placed those online. These materials are now used by numerous websites that provide access to legal materials.

10. Public Resource maintains an archive of laws and other government authored materials on several domains under the public.resource.org website.

11. Public Resource has helped increase access to many other court documents. We scanned approximately 3 million pages of briefs submitted to the U.S. Court of Appeals for the Ninth Circuit dating back to the creation of that court and have placed those materials online. The materials may be downloaded from <a href="https://law.resource.org/pub/us/case/ca9/">https://law.resource.org/pub/us/case/ca9/</a>.
12. Public Resource has conducted a number of other projects that have resulted in more government information being placed online. Using volunteers in Washington D.C. with the cooperation of the Archivist of the United States, we put approximately 6,000 government videos on YouTube and the Internet Archive for people to use with no restriction, a service we call FedFlix. It has had over 60 million views. The videos may be viewed at https://www.youtube.com/user/PublicResourceOrg and https://archive.org/details/FedFlix.

13. Public Resource also placed over eight million Form 990 exempt non-profit organization returns obtained from the IRS on the Internet. As part of that posting, we conducted an intensive privacy audit which led to fundamental changes in how the IRS deals with privacy violations. Through a Freedom of Information Act request and litigation, we obtained release of high-quality versions of Form 990 filings, which the IRS had refused to make available. The court decision in that case (*Public.Resource.org v. United States Internal Revenue Service*, No. 3:13-cv-02789-WHO, ECF No. 62 (N.D. Cal. January 29, 2015)) led to a recent announcement by the IRS that all e-file returns will be made available in bulk in 2016. I am pleased to be working with the IRS as a member of the test group for this service.

14. In 2007, I wrote a report addressed to Speaker of the House Nancy Pelosi suggesting that video from Congressional hearings should be more broadly available on the Internet. On January 5, 2011, Speaker John Boehner and Representative Darrell Issa wrote to me asking me to assist them in carrying out that task. In a little over a year, Public Resource was able to put over 14,000 hours of video from hearings on the Internet, to assist the House Committee on Oversight and Government Reform in posting a full archive of their committee video and, for the first time ever for congressional hearings, to provide closed-captioning of

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those videos based on the official transcripts. The letter from Speaker Boehner may be found at https://law.resource.org/rfcs/gov.house.20110105.pdf.

15. Also in 2008, I examined the issue of availability of state-mandated safety codes, such as building, electric, plumbing, and fire codes. At the time, none of those documents were available freely on the Internet. I made a detailed survey of state regulations and statutes, looking for direct and specific incorporation of particular model codes. Over the next few years, Public Resource posted many of the incorporated state safety codes for U.S. states.

16. Public Resource's process of posting these codes has been deliberate and careful and has grown in sophistication over time. First, we purchased paper copies of codes that are incorporated into law. Then, we scanned the documents, applied metadata and optical character recognition (OCR) to the PDF files, and placed a cover sheet on each document explaining that this was a posting of the law of a specific jurisdiction.

17. Over time, we also began converting some of these standards into modern HTML format, including setting the tables, converting formulas to Mathematics Markup Language (MathML), and converting graphics to the Scalable Vector Graphics (SVG) format. Coding formulas in MathML makes them significantly more accessible to people who are visually impaired. Converting the graphics to SVG means they can be resized smoothly, and can be incorporated into graphic editing programs and word processing programs. Converting the documents into standard HTML means the documents can be more readily used on different platforms, such as tablets and smartphones.

18. In late 2008, I was asked by the Obama-Biden Transition Project to consult on the subject of how the Official Journals of Government could be made more readily available. Many of my recommendations were adopted, including removing the subscription fee from bulk access

to the Federal Register. That led to a dramatic transformation of the Federal Register, which is now based on open source software that was developed by three volunteers in California and then adopted by the government. That system can be viewed at <u>https://federalregister.gov/</u>. A copy of my memorandum to the Obama Transition Project may be viewed at <u>https://public.resource.org/change.gov/reboot.register.pdf</u>.

19. In 2011, I began to look seriously at the federal use of standards incorporated by reference into the Code of Federal Regulations. I was participating at the time as an appointed member of the Administrative Conference of the United States, and I carefully read materials such as the legislative history of the mechanism of incorporation by reference, the Code of Federal Regulations provisions for incorporation by reference, and cases such as the *Veeck* decision.

20. In 2012, I began a new initiative to make standards incorporated by reference into federal law available on the Internet. I examined the Code of Federal Regulations carefully and selected 73 standards that spanned a variety of agencies. I purchased physical copies of each of these standards. I created 25 paper replicas of each of these standards, and placed a cover sheet on each one indicating which section of the CFR incorporated the document.

21. To accompany the 73 standards, I also created a detailed cover memo, titled "Notice of Incorporation," which included letters addressed to seven senior government officials. The memo included a request for comments from each of the ten standards development organizations (SDOs) named in the document by May 1, 2012. I packaged the 73 standards, the Notice of Incorporation, two posters, and other materials in 29-pound boxes and sent the boxes to the seven government officials and the ten SDOs. The standards bodies included ASTM, NFPA, and ANSI. I sent the boxes by Federal Express on March 15, 2012. A copy of the Notice

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of Incorporation memo may be found at

https://law.resource.org/pub/us/cfr/notice.sdo.20120315_to.pdf.

22. After sending the standards, I received acknowledgements from several government addressees, including personal notes from the Chairman of the Federal Trade Commission, the Archivist of the United States, and the Chairman of the House Committee on Oversight and Government Reform. I did not receive any response from the SDOs.

23. On May 1, 2012, I posted the 73 documents on the Public Resource web site. I also began a process of examining the Code of Federal Regulations, the National Institute of Standards and Technology (NIST) database of Standards Incorporated by Reference (SIBR), and the Office of the Federal Register's incorporation by reference listings to put together a list of documents that are incorporated into the CFR. I then began the process of trying to procure these documents, many of which are unavailable for purchase from the SDOs and which I had to obtain on the used book market.

24. Every standard that I have posted on my website has been incorporated into law by a governmental authority. Public Resource does not impose any restrictions on the use of the standards. Public Resource has never charged for access to the standards or other legal materials, and has never asserted any intellectual property rights in them. We do not require people to log in or register before accessing content from Public Resource.

25. Public Resource has posted PDF versions of each incorporated standard at issue available on its website. The PDF version accurately appeared as a scan of a physical version of the incorporated standard. Most PDF versions also includes embedded text generated by OCR, which enables software-based searching of the document. The embedded text does not change the appearance of the document.

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26. Public Resource has continued to develop techniques for making the documents that we post more usable, including double-keying and adding markup to HTML and SVG versions of the documents. Double-keying means having two separate typists copy the text of the incorporated standard; the results are then compared in order to eliminate any errors. We have also developed new markup techniques that increase the accessibility of the documents to people with visual impairments and print disabilities. We have also made significant advances in adding metadata to the documents, so each section, table, figure, and formula can be bookmarked and linked to, making internal navigation within the documents significantly friendlier for the user.

27. We have applied these markup techniques to a number of standards incorporated by reference. Public Resource's goal is to have the entire CFR, including all documents incorporated by reference, available in this new format so that users can seamlessly and transparently navigate the entire CFR. I believe this will be useful for employees of affected business enterprises, researchers and journalists covering public policy issues, government workers at the federal, state, and local levels who must interact with the code as part of their daily activities, and for interested citizens.

28. We have made several examples of our new approach available on the net and submitted them as examples of how the law can be made better in formal comments to Notices of Proposed Rulemaking that propose to incorporate standards by reference. For example, as part of a submission to the Consumer Product Safety Commission on a proposed incorporation of an ASTM standard on infant bathtubs, I submitted example standards such as ASTM F963, the toy safety specification which was mandated by Congress in 15 USC 2056b. That standard may be found at <a href="https://law.resource.org/pub/us/cfr/ibr/003/astm.f963.2011.html">https://law.resource.org/pub/us/cfr/ibr/003/astm.f963.2011.html</a> and our comment to

Page 8 of 11 JA01267 CPSC may be found at

https://law.resource.org/pub/us/cfr/regulations.gov.docket.14/cpsc.gov.20151028.html.

29. Public Resource displays links to standards incorporated by reference into the Code of Federal Regulations in a table that identifies the standards by their alphanumeric code, its year, the developing organization, the title of the standard, and the C.F.R. section that incorporated the standard by reference. Attached to Public Resource's Consolidated Index of Exhibits as **Exhibit 2** is a true and correct copy of the table of standards on public.resource.org, which is maintained at https://law.resource.org/pub/us/cfr/manifest.us.html.

30. Public Resource has one employee, myself, and three contractors who assist me in systems administration, conversion of graphics and formulas, and legal advice. Our core operating costs are under \$500,000 per year, and we are funded entirely by donations, contributions and grants. Rather than adding staff, I have prioritized capital expenses, such as the purchase of the U.S. Court of Appeals backfile for \$600,000 and the scanning of 3 million pages of Ninth Circuit briefs. Public Resource does not accept donations that are tied to the posting of specific standards or groups of standards. Public Resource's operating income is not based on the amount of traffic its websites receive. Public Resource does practice search engine optimization to improve the accuracy of how information on its websites is described. Though we are a small organization, we observe all current best practices of corporate governance and transparency. I am proud that we have been awarded the GuideStar Gold Seal for nonprofit transparency. A full repository of our financials and other disclosures is maintained at

https://public.resource.org/about/.

31. Public Resource voluntarily applies notices to the HTML versions of standards on its website. Attached_to Public Resource's Consolidated Index of Exhibits as **Exhibit 3** is a true

and correct copy of the most recent version of the notice, which is appended to ASTM F963 (2011) and is maintained at https://law.resource.org/pub/us/cfr/ibr/003/astm.f963.2011.html.

32. There are errors in NFPA and ASHRAE documents for which they periodically issue errata. Public Resource carefully tracks those errata and works to incorporate them into the documents on our web site. ASTM does not provide errata, so it is difficult to determine where their technical committees have identified errors.

33. Errors can also be introduced in the process of transformation into HTML.

34. I pay a great deal of attention to quality control, including verifying the validity of the HTML, SVG, and MathML that I post. I respond immediately to any reports of errors from the public. For example, during my deposition in this case, ASTM pointed out some errors in a document on the Public Resource website. Immediately after the deposition, I did a careful scan of the document and fixed the errors they had pointed out and some additional ones that I discovered.

35. On behalf of Public Resource, I purchased a physical copy of the 2011 National Electrical Code. The copy spanned 886 pages. The copy that I purchased did not include the requirement that high-voltage cables be shielded. Public Resource posted electronic versions of the physical copy that I purchased on its website in PDF and HTML formats.

Page 10 of 11 JA01269 36. My work at Public Resource, including the posting of standards incorporated by reference into federal and state law and my efforts to post briefs, opinions, regulations, statutes, and other materials that are edicts of government, are based on a long-held belief that the primary legal materials of our country must be available to all, especially those who lack the means to access the law in the status quo, because an informed citizenry is the key to the functioning of our democracy.

I declare under penalty of perjury under the laws of the United States that the foregoing is true and correct.

Executed this  $\mathbb{Z}^{I}$  day of December, 2015 at Sebastopol, California.

Mallen 1

Carl Malamud

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# **EXHIBIT 1**

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State of California Secretary of State



I, DEBRA BOWEN, Secretary of State of the State of California, hereby certify:

That the attached transcript of _____ page(s) has been compared with the record on file in this office, of which it purports to be a copy, and that it is full, true and correct.



**IN WITNESS WHEREOF,** I execute this certificate and affix the Great Seal of the State of California this day of

APR 1 3 2007

DEBRA BOWEN Secretary of State

Sec/State Form CE-107 (REV 1/2007)

OSP 06 99734

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#### **ARTICLES OF INCORPORATION**

I

ENDORSED - FILED in the office of the Secretary of State of the State of California

A. The name of this corporation is PUBLIC. RESOURCE. ORG, INC.

APR 1 3 2007

#### Π

- A. This corporation is a nonprofit **Public Benefit Corporation** and is not organized for the private gain of any person. It is organized under the **Nonprofit Public Benefit Corporation Law For Public AND CHARITABLE PURPOSES.**
- B. The specific purpose of this corporation is to create, architect, design, implement, operate and maintain public works projects on the Internet for EDUCATIONAL, CHARITABLE, AND SCIENTIFIC PURPOSES to the benefit of the general public and the public interest; to increase and diffuse knowledge about the Internet in its broadest sense; to promote and facilitate the expansion, development, and growth of the public infrastructure of the Internet by any means consistent with the public interest through other activities, including, but not limited to, publications, meetings, conferences, training, educational seminars, and the issuance of grants and other financial support to educational institutions, foundations and other organizations exclusively for EDUCATIONAL, CHARITABLE, AND SCIENTIFIC PURPOSES.

#### III

A. The name and address in the State of California of this corporation's initial agent for service of process is:

Carl Malamud Public.Resource.Org, Inc. c/o O'Reilly Media 1005 Gravenstein Highway North Sebastopol, CA 95472

IV

- A. This corporation is organized and operated exclusively for CHARITABLE PURPOSES within the meaning of Section 501(c)(3), Internal Revenue Code.
- B. No SUBSTANTIAL PART OF THE ACTIVITIES of this corporation shall consist of carrying on propaganda, or otherwise attempting to influence legislation, and the corporation shall not participate or intervene in any political campaign (including the publishing or distribution of statements) on behalf of any candidate for public office.

#### V

A. The property of this corporation is **IRREVOCABLY DEDICATED TO CHARITABLE PURPOSES** and no part of the net income or assets of this corporation shall ever inure to the benefit of any director, officer or member thereof or to the benefit of any private person. Upon the dissolution or winding up of the corporation, its assets remaining after payment, or provision for payment, of all debts and liabilities of this corporation shall be distributed to a nonprofit fund, foundation or corporation which is organized and operated **Exclusively For CHARITABLE PURPOSES** and which has established its tax exempt status under Section 501(c)(3), Internal Revenue Code.



Carl Malamud, Incorporator

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# **EXHIBIT 2**

Table of Codes ↑

## Public Safety Standards United States (Federal Government)

In order to promote public education and public safety, equal justice for all, a better informed citizenry, the rule of law, world trade and world peace, this legal document is hereby made available on a noncommercial basis, as it is the right of all humans to know and speak the laws that govern them. (See also State and Local codes.)

STANDARD 🍒	YEAR 🔽	ORGANIZATION 🍒	TITLE 🍒	CFR AUTHORITY 🍒	
3M 0222	1995	3M Corporation	Organochlorine Pesticides and PCBs in Wastewater Using Empore Disk	40 CFR 136.3(a) Table ID	
AA CONSTRUCT	1971	Aluminum Association	Aluminum Construction Manual	24 CFR 200, Subpart S	
AA	1967	Aluminum Association	Aluminum Construction Manual	24 CFR 200, Subpart S	
AA DATA	1982	Aluminum Association	Aluminum Standards and Data, Seventh Edition	49 CFR 178.65(b)(2)	
AAMA 101-IS2	1997	American Architectural Manufacturers Association	Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors	10 CFR 434.402.2.2.4	
AAMA 605	1998	American Architectural Manufacturers Association	Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels	40 CFR 59.401	
AAMA 1002.10	1993	American Architectural Manufacturers Association	Aluminum Insulating Products for Windows and Sliding Glass Doors	24 CFR 200.938	
AAMA 1102.7	1989	American Architectural Manufacturers Association	Voluntary Specifications for Aluminum Storm Doors	10 CFR 440 Appendix A	
AAMA 1503.1	1988	American Architectural Manufacturers Association	Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections	24 CFR 3280.508(e)	
AAMA 1702.2	1995	American Architectural Manufacturers Association	Swinging Exterior Passage Doors Voluntary Standard for Utilization in Manufactured-Housing	24 CFR 3280.405(e)(2)	
AAMA 1704	1985	American Architectural Manufacturers Association	Voluntary Standard Egress Window Systems for Utilization in Manufactured-Housing	24 CFR 3280.404(b)	
AAMD	1973	American Association on Mental Deficiency	Classification in Mental Retardation	42 CFR 483.102(b)(3)(i)	
AAMVA CDLIS.2.0	1998	American Association of Motor Vehicle Administrators	Commercial Driver License Information System (CDLIS) State Procedures	49 CFR 384.231(d)	
AASHTO	1973	American Association of State Highway and Transportation Officials	Standard Specifications for Highway Bridges	24 CFR 200, Subpart S	
AASHTO	2001	American Association	A Policy on Geometric Design of	23 CFR 625.4	

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-	1000 1.10 01			01 200
		of State Highway and Transportation Officials	Highways and Streets	
AASHTO	2005	American Association of State Highway and Transportation Officials	A Guide for Accommodating Utilities Within Highway Right-of-Way	23 CFR 645.211
AATCC 118	1997	American Association of Textile Chemists and Colorists	Oil Repellency: Hydrocarbon Resistance Test	10 CFR 430 Subpart B, App. J1, 2.6.4.5.1
AATCC 124	1996	American Association of Textile Chemists and Colorists	Appearance of Durable Press Fabrics After Repeated Home Laundering	16 CFR 1615.32(a)(1)
ABYC A-01	1993	American Boat and Yacht Council	Marine Liquified Petroleum Gas Systems	46 CFR 184.240(a)
ABYC A-07	1973	American Boat and Yacht Council	Boat Heating Systems	46 CFR 184.200
ABYC A-16	1997	American Boat and Yacht Council	Electric Navigation Lights	46 CFR 25.10-3(a)(2)
ABYC A-22	1993	American Boat and Yacht Council	Marine Compressed Natural Gas Systems	46 CFR 184.240(b)
ABYC E-01	1973	American Boat and Yacht Council	Bonding of Direct Current Systems	46 CFR 28.345(b)
ABYC E-09	1990	American Boat and Yacht Council	Direct Current (DC) Electrical Systems on Boats	46 CFR 183.340(b)(4)
ABYC H-02	1989	American Boat and Yacht Council	Ventilation of Boats Using Gasoline	46 CFR 28.340(c)
ABYC H-22	1986	American Boat and Yacht Council	DC Electric Bilge Pumps Operating Under 50 Volts	46 CFR 182.500(b)
ABYC H-24	1993	American Boat and Yacht Council	Gasoline Fuel Systems	46 CFR 182.455(c)
ABYC H-25	1994	American Boat and Yacht Council	Portable Gasoline Fuel Systems for Flammable Liquids	46 CFR 182.130
ABYC H-32	1987	American Boat and Yacht Council	Ventilation of Boats Using Diesel Fuel	46 CFR 182.470(c)
ABYC H-33	1989	American Boat and Yacht Council	Diesel Fuel Systems	46 CFR 182.130
ABYC P-01	1993	American Boat and Yacht Council	Safe Installation of Exhaust Systems for Propulsion and Auxiliary Engines	46 CFR 182.130
ABYC P-04	1989	American Boat and Yacht Council	Marine Inboard Engines	46 CFR 182.420(b)
ACGIH	1987	American Conference of Governmental Industrial Hygienists	Guidelines for the Selection of Chemical Protective Clothing, Third Edition	46 CFR 153.933(a)
ACGIH	1998	American Conference of Governmental Industrial Hygienists	Industrial Ventilation Manual	40 CFR 63.2984(e)
ACI 318	1995	American Concrete Institute	Building Code Requirements for Reinforced Concrete	30 CFR 250.901(d)(1)
ACI	1980	American Concrete Institute	Manual of Concrete Practice, Part 1	24 CFR 200, Subpart S

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	Jase 1:13-cv	-01215-ISC Docume	nt 122-1 Filed 12/22/15 Page /	01 298
ACRI 210-240	2003	Air Conditioning and Refrigeration Institute	Unitary Air-Conditioning and Air- Source Heat Pump Equipment	10 CFR 431.96
ACRI 310/380	2004	Air-Conditioning, Heating and Refrigeration Institute	Packaged Terminal Air-Conditioners and Heat Pumps	10 CFR 431.96, Table 1
ACRI 320	1998	Air-Conditioning, Heating, and Refrigeration Institute	Water Source Heat Pumps	10 CFR 434.403
ACRI 325	1998	Air-Conditioning, Heating, and Refrigeration Institute	Ground Water-Source Heat Pumps	10 CFR 434.403
ACRI 330	1998	Air-Conditioning, Heating, and Refrigeration Institute	Ground-Source Closed-Loop Heat Pumps	10 CFR 434.403
ACRI 340-360	2004	Air Conditioning and Refrigeration Institute	Commercial and Industrial Unitary Air-Conditioning and Heat Pump Equipment	10 CFR 434.403
ACRI 365	1994	Air Conditioning and Refrigeration Institute	Commercial and Industrial Unitary Air-Conditioning Condensing Units	10 CFR 434.403
ACRI 1200	2006	Air Conditioning and Refrigeration Institute	Performance Rating of Commercial Refrigerated Display Merchandisers and Storage Cabinets	10 CFR 431.66(a)(3)
AERA	1999	American Educational Research Association	Standard for Educational and Psychological Testing	34 CFR 668.148(a)(2) (iv)
AFPA	2001	American Forest and Paper Association	National Design Specification for Wood Construction With Supplemental Design Values for Wood Construction	24 CFR 3280.304(b)(1)
AGA 3.1	1990	American Gas Association	Orifice Metering of Natural Gas and Other Related Hydrocarbon Fluids: Part 1	40 CFR 75, Appendix D
AGA	2001	American Gas Association	Purging Principles and Practices	49 CFR 193.2615
AHA A135.4	1995	American Hardboard Association	Basic Hardboard	24 CFR 3280.304(b)(1)
AHA A135.5	1995	American Hardboard Association	Prefinished Hardboard Paneling	24 CFR 3280.304(b)(1)
AHA A135.6	1998	American Hardboard Association	Hardboard Siding	24 CFR 3280.304(b)(1)
AHAM DW-1	1992	Association of Home Appliance Manufacturers	Household Electric Dishwashers	10 CFR 430 Subpart B
AHAM HLD-1	1974	Association of Home Appliance Manufacturers	Performance Evaluation Procedure for Household Tumble Type Clothes Dryers	10 CFR 430 Subpart B
AHAM HRF-1	1979	Association of Home Appliance Manufacturers	Household Refrigerators, Combination Refrigerator-Freezers, and Household Freezers	10 CFR 430 Subpart B
AHPA	1992	American Herbal Products Association	Herbs of Commerce	21 CFR 101.4(h)
AI MSI-1	1970	Asphalt Institute	Thickness DesignFull Depth	24 CFR 200, Subpart S

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			Asphalt Pavement Structures for Highways and Streets	
AIHA	1994	American Industrial Hygiene Association	Laboratory Ventilation Workbook	42 CFR 52b.12(c)(10)
AIMM MS41	1996	Association for Information and Image Management	Dimensions of Unitized Microfilm Carriers and Apertures (Aperture, Camera, Copy and Image Cards)	36 CFR 1238.10(a)(1)
AIMM IT2.18	1996	Association for Information and Image Management	PhotographyDensity MeasurementsPart 3: Spectral Conditions	36 CFR 1238.14(d)(2)
AIMM/PIMA IT9.2	1998	Association for Information and Image Management	Photographic Processed Films, Plates, and PapersFiling Enclosures and Storage Containers	36 CFR 1238.10(a)(1)
AIMM/PIMA IT9.11	1998	Association for Information and Image Management	Imaging MaterialsProcessed Safety Photographic FilmStorage	36 CFR 1234.14(b)(1)
AIMM IT9.23	1996	Association for Information and Image Management	Imaging MaterialsPolyester Based Magnetic TapeStorage	36 CFR 1234.14(b)(2)
AIMM/PIMA IT9.25	1998	Association for Information and Image Management	Imaging MaterialsOptical Disc MediaStorage	36 CFR 1234.14(b)(3)
AIMM MS1	1996	Association for Information and Image Management	Recommended Practice for Alphanumeric Computer-Output MicroformsOperational Practices for Inspection and Quality Control	36 CFR 1238.14(c)
AIMM MS5	1992	Association for Information and Image Management	Microfiche	36 CFR 1238.10(b)
AIMM MS14	1996	Association for Information and Image Management	Specifications for 16mm and 35mm Roll Microfilm	36 CFR 1238.10(a)(1)
AIMM MS19	1993	Association for Information and Image Management	Standard Recommended Practice Identification of Microforms	36 CFR 1238.12(c)
AIMM MS23	1998	Association for Information and Image Management	Standard Recommended Practice Production, Inspection, and Quality Assurance of First-Generation, Silver Microforms of Documents	36 CFR 1238.14(d)(2)
AIMM MS32	1996	Association for Information and Image Management	Microrecording of Engineering Source Documents on 35 mm Microfilm	36 CFR 1238.10(a)(1)
AIMM MS43	1998	Association for Information and Image Management	Standard Recommended Practice Operational ProceduresInspection and Quality Control of Microfilms and Documents	36 CFR 1238.14(d)(1)(i)
AIMM MS45	1990	Association for Information and Image Management	Recommended Practice for Inspection of Stored Silver-Gelatin Microforms for Evidence of Deterioration	36 CFR 1238.22(d)(1)
AIMM TR34	1996	Association for Information and Image	Sampling Procedures for Inspection by Attributes of Images in Electronic	36 CFR 1237.28(d)(2)

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		Management	Image Management and Micrographic Systems	
ALCIDE 980342EA	1995	Alcide Corporation	Determination of Sodium Chlorite: 50 ppm to 1500 ppm concentration	21 CFR 173.325(g)
AMCA 210	1999	Air Movement and Control Association	Laboratory Methods of Testing Fans for Ratings	10 CFR 430 Subpart B, App. M
J-STD-102	2011	Alliance for Telecommunications Industry Solutions	Joint ATIS/TIA CMAS Federal Alert Gateway to CMSP Gateway Interface Text Specification	Warning, Alert and Response Network (WARN) Act of 2006
TELCO FAQ	1891	American Telephone and Telegraph	Practical Information for Telephonists	
ANSI A10.3	1970	American National Standards Institute	Safety Requirements for Powder Actuated Fastening Systems	29 CFR 1926
ANSI A10.4 (pdf) ANSI A10.4 (html)	1963	American National Standards Institute	Safety Requirements for Workmens Hoists	29 CFR 1926
ANSI A10.5 (pdf) ANSI A10.5 (html)	1969	American National Standards Institute	Safety Requirements for Material Joists	29 CFR 1926
ANSI A14.1 (pdf) ANSI A14.1 (html) ANSI A14.1 (svg)	1990	American National Standards Institute	LaddersWoodSafety Requirements	29 CFR 1917
ANSI A14.2 (pdf) ANSI A14.2 (html) ANSI A14.2 (svg)	1990	American National Standards Institute	LaddersPortable MetalSafety	29 CFR 1917
ANSI A92.2 (pdf) ANSI A92.2 (html)	1969	American National Standards Institute	Vehicle Mounted Elevating and Rotating Work Platforms	29 CFR 453
ANSI B7.1 (pdf) ANSI B7.1 (html)	1970	American National Standards Institute	erican National andards InstituteSafety Code for the Use, Care, and Protection of Abrasive Wheels	
ANSI B20.1 (pdf) ANSI B20.1 (html) ANSI B20.1 (svg)	1957	American National Standards Institute	Safety Code for Conveyors, Cableways, and Related Equipment	29 CFR 1926
ANSI B30.6 (pdf) ANSI B30.6 (html) ANSI B30.6 (svg)	1969	American National Standards Institute	Safety Code for Derricks	29 CFR 1926
ANSI B36.19	1979	American National Standards Institute	Welded and Seamless Wrought Steel Pipe	24 CFR 3280.705(b)(1)
ANSI B56.1 (pdf) ANSI B56.1 (html) ANSI B56.1 (svg)	1969	American National Standards Institute	Safety Standard for Powered Industrial Trucks	29 CFR 1926
ANSI N14.1	2001	American National Standards Institute	Packaging of Uranium Hexafluoride for Transport	49 CFR 173.420(a)(1)
ANSI O1.1 (pdf) ANSI O1.1 (html)	1961	American National Standards Institute	Safety Code for Woodworking Machinery	29 CFR 1926
ANSI S1.4	1983	American National Standards Institute	Specifications for Sound Level Meters	7 CFR 1755.522(s)(3)(v)
ANSI S1.11	2004	American National Standards Institute	Specification for Octave, Half- Octave, and Third Octave Band Filter Sets	49 CFR 227
ANSI S1.25	1991	American National Standards Institute	Specification for Personal Noise Dosimeters	49 CFR 227.103(c)(2)(iii)
ANSI S1.40	1984	American National	Specification for Acoustical	49 CFR 229, Appendix I

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1.1				<b>. . . .</b>	
			Standards Institute	Calibrators	
	ANSI S1.43	1997	American National Standards Institute	Specifications for Integrating- Averaging Sound Level Meters	49 CFR 227.103(c)(2)(ii)
	ANSI S3.22 (pdf) ANSI S3.22 (html)	2003	American National Standards Institute	Specification of Hearing Aid Characteristics	21 CFR 801
	ANSI Z35.1 (pdf) ANSI Z35.1 (html) ANSI Z35.1 (svg)	1968	American National Standards Institute	Specifications for Accident Prevention Signs	29 CFR 1926
	ANSI Z35.2 (pdf) ANSI Z35.2 (html) ANSI Z35.2 (svg)	1968	American National Standards Institute	Specifications for Accident Prevention Tags	29 CFR 1926
	ANSI Z49.1 (pdf) ANSI Z49.1 (html)	1967	American National Standards Institute	Safety in Welding and Cutting	29 CFR 1926
	ANSI Z87.1 (pdf) ANSI Z87.1 (html) ANSI Z87.1 (svg)	2003	American National Standards Institute	Practice for Occupational and Educational Eye and Face Protection	29 CFR 1910
	ANSI Z88.2 (pdf) ANSI Z88.2 (html) ANSI Z88.2 (svg)	1992	American National Standards Institute	American National Standard for Respiratory Protection	30 CFR 250
	ANSI Z89.1 (pdf) ANSI Z89.1 (html)	1969	American National Standards Institute	Safety Requirements for Industrial Head Protection	29 CFR 1926
	ANSI Z89.2 (pdf) ANSI Z89.2 (html)	1971	American National Standards Institute	Industrial Protective Helmets for Electrical Workers	29 CFR 1926
	ANSI Z90.4 (pdf) ANSI Z90.4 (html)	1984	American National Standards Institute	Protective Headgear for Bicyclists	16 CFR 1203
	ANSI Z245.1 (pdf) ANSI Z245.1 (html) ANSI Z245.1 (svg)	1992	American National Standards Institute	Mobile Refuse Collection and CompactionSafety Requirements	40 CFR 243
	ANSI Z245.2 (pdf) ANSI Z245.2 (html)	1997	American National Standards Institute	Stationary CompactorsSafety Requirements	40 CFR 243
	AOAC	1990	AOAC International	Official Methods of Analysis (Volume 1)	9 CFR 318.19(b)
	AOAC	1980	AOAC International	Official Methods of Analysis, 1980	21 CFR 131.150(c)
	APA 87-1	2001	American Pyrotechnics Association	Standard for Construction and Approval for Transportation of Fireworks and Novelties	49 CFR 173.56(j)(1)
	APHA Method 2120 (pdf) APHA Method 2120 (html)	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 141.121
	APHA Method 2130 (pdf) APHA Method 2130 (html)	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 141.121
	APHA Method 2320 (pdf) APHA Method 2320 (html)	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 136.3(a)

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APHA Method 2510 (pdf) APHA Method 2510 (html)	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 141.121
APHA Method 2550 (pdf) APHA Method 2550 (html)	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 141.121
APHA Method 2580	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 141.121
APHA Method 3111 (pdf) APHA Method 3111 (html)	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 444.12
APHA Method 3112 (pdf) APHA Method 3112 (html)	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 444.12
APHA Method 3113 (pdf) APHA Method 3113 (html)	1992	American Public Health AssociationStandard Methods for the Examination of Water and Wastewater		40 CFR 444.12
APHA Method 3114	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 444.12
APHA Method 3120	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 444.12
APHA Method 3500-AS	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 444.12
APHA Method 3500-CA (pdf) APHA Method 3500-CA (html)	1992	American Public Health Association	Association Standard Methods for the Examination of Water and Wastewater	
APHA Method 3500-CD (pdf) APHA Method 3500-CD (html)	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 444.12
APHA Method 3500-CR	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 63.404(a)
APHA Method 3500-CU	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 444.12
APHA Method 3500-MG (pdf) APHA Method 3500-MG (html)	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 136.3(a)
APHA Method 3500-PB (pdf) APHA Method	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 444.12

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3500-PB (html)				
APHA Method 3500-ZN (pdf) APHA Method 3500-ZN (html)	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 136.3(a)
APHA Method 4110 (pdf) APHA Method 4110 (html)	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 136.3(a)
APHA Method 4500-CIO2 (pdf) APHA Method 4500-CIO2 (html)	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	21 CFR 165.110(b)(4)(iii) (I)(7)(ii)
APHA Method 4500-CL	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	21 CFR 165.110(b)(4)
APHA Method 4500-CN	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 136.3(a)
APHA Method 4500-F	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 136.3(a)
APHA Method 4500-H	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 444.12
APHA Method 4500-NO2	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 136.3(a)
APHA Method 4500-NO3	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 136.3(a)
APHA Method 4500-O3	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 136.3(a)
APHA Method 4500-P	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 136.3(a)
APHA Method 4500-S2	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 136.3(a)
APHA Method 4500-SI	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 141.121
APHA Method 4500-SO42	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 136.3(a)
APHA Method 5540	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 141.121
APHA Method 6651	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 141.121

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APHA Method 9215	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 141.121
APHA Method 9221	1992	American Public Health Association	American Public Health AssociationStandard Methods for the Examination of Water and Wastewater	
APHA Method 9222	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 136.3(a)
APHA Method 9223	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 136.3(a)
API 2INT-MET	2007	American Petroleum Institute	Interim Guidance on Hurricane Conditions in the Gulf of Mexico	30 CFR 250.901(a)(6)
API 5L	2004	American Petroleum Institute	Specification for Line Pipe	49 CFR 192.113
API 5L1	2002	American Petroleum Institute	Recommended Practice for Railroad Transportation of Line Pipe	49 CFR 192.65(a)
API 6A	2004	American Petroleum Institute	Specification for Wellhead and Christmas Tree Equipment	30 CFR 250.806(a)(3)
API 6D	2008	American Petroleum Institute	Specification for Pipeline Valves	49 CFR 195.116(d)
API 12F	1994	American Petroleum Institute	Specification for Shop Welded Tanks for Storage of Production Liquids	49 CFR 195.264(b)(1)
API RP 14C	2001	American Petroleum Institute	Recommended Practice for Analysis, Design, Installation, and Testing of Basic Surface Safety Systems for Offshore Production Platforms	30 CFR 250.1628(c)
API RP 14F	2008	American Petroleum Institute	Recommended Practice for Design and Installation of Electrical Systems for Offshore Production Platforms	30 CFR 250.114(c)
API 17J	2008	American Petroleum Institute	Specification for Unbonded Flexible Pipe	30 CFR 250.1002(b)(4)
API 80	2000	American Petroleum Institute	Guidelines for the Definition of Onshore Gas Gathering Lines	49 CFR 192.8(a)
API 510	2006	American Petroleum Institute	Pressure Vessel Inspection Code	30 CFR 250.803(b)(1)
API 620	2002	American Petroleum Institute	Design and Construction of Large Welded Low Pressure Storage Tanks	49 CFR 195.264(e)(3)
API 650	2007	American Petroleum Institute	Welded Steel Tanks for Oil Storage	195.132(b)(3)
API 651	1997	American Petroleum Institute	Cathodic Protection of Aboveground Petroleum Storage Tanks	49 CFR 195.565
API 652	1997	American Petroleum Institute	Lining of Aboveground Petroleum Storage Tank Bottoms	49 CFR 195.579(d)
API 653	2003	American Petroleum Institute	Tank Inspection, Repair, Alteration, and Reconstruction	49 CFR 195.432(b)

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API 1104	1999	American Petroleum Institute	Standard for Welding Pipelines and Related Facilities	49 CFR 195.214(a)
API 1130	2002	American Petroleum Institute	Computational Pipeline Monitoring	49 CFR 195.444
API 1162	2003	American Petroleum Institute	Public Awareness Programs for Pipeline Operators	49 CFR 192.616(a)
API 2000	1998	American Petroleum Institute	Venting Atmospheric and Low- Pressure Storage Tanks	49 CFR 195.264(e)(2)
API 2003	1998	American Petroleum Institute	Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents	49 CFR 195.405(a)
API 2350	2005	American Petroleum Institute	Overfill Protection for Storage Tanks in Petroleum Facilities	49 CFR 195.428(c)
API 2510	2001	American Petroleum Institute	Design and Construction of LPG Installations	49 CFR 195.205(b)(3)
API RP 14G	2007	American Petroleum Institute	Recommended Practice for Fire Prevention and Control on Open Type Offshore Production Platforms	30 CFR 250.803(b)(9)(v)
APLIC	1996	Avian Power Line Interaction Committee	Suggested Practices for Raptor Protection on Power Lines: The State of the Art in 1996	7 CFR 1724.52(a)(1)(i)
APSP 16	2011	Association of Pool and Spa Professionals	Standard Suction Fittings for Use in Swimming Pools, Wading Pools, Spas, and Hot Tubs	16 CFR 1450.3
ARMA	1984	Asphalt Roofing Manufacturers Association	Residential Asphalt Roofing Manual	24 CFR 200, Subpart S
ASHRAE 15	1994	American Society of Heating, Refrigerating and Air Conditioning Engineers	Safety Code for Mechanical Refrigeration	49 CFR 173.306(e)(1)(i)
ASHRAE	1993	American Society of Heating, Refrigerating and Air Conditioning Engineers	Fundamentals	10 CFR 434.402.2.2.5(a)
ASME B16.9	2003	American Society of Mechnical Engineers	Factory Made Wrought Steel Buttwelding Fittings	49 CFR 195.118(a)
ASME B30.2 (pdf) ASME B30.2 (html) ASME B30.2 (svg)	2005	American Society of Mechanical Engineers	Safety Requirements for Overhead and Gantry Cranes	29 CFR 1926
ASME B30.5 (pdf) ASME B30.5 (html)	2004	American Society of Mechanical Engineers	Safety Requirements for Mobile and Locomotive Cranes	29 CFR 1926
ASME B30.7 (pdf) ASME B30.7 (html)	2001	American Society of Mechanical Engineers	Safety Requirements for Base- Mounted Drum Hoists	29 CFR 1926
ASME B30.14 (pdf) ASME B30.14 (html)	2004	American Society of Mechanical Engineers	Safety Requirements for Side Boom Tractors	29 CFR 1926

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ASME B30.14 (svg)				
ASME B31.4	2002	American Society of Mechnical Engineers	Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids	49 CFR 195.110(a)
ASME B31.8	2003	American Society of Mechnical Engineers	Gas Transmission and Distribution Piping Systems	49 CFR 192.619(a)(1)(i)
ASME B318S	2004	American Society of Mechanical Engineers	Managing System Integrity of Gas Pipelines	49 CFR 192.903(c)
ASME B31G	1991	American Society of Mechanical Engineers	Manual for Determining the Remaining Strength of Corroded Pipelines	49 CFR 192.485(c)
ASME UPV	1943	American Society of Mechanical Engineers	Code for Unfired Pressure Vessels	49 CFR 173.32(c)(4)
ASQC Q9001	1994	American Society for Quality Control	Quality Assurance in Design, Development, Production, Installation, and Servicing	33 CFR 96.430(a)(2)(ii)
ASQC Q9002	1994	American Society for Quality Control	Quality Systems Model for Quality Assurance in Production, Installation, and Servicing	24 CFR 200.935(d)(4)(ii) (A)(3)
ASQC Q9003	1994	American Society for Quality Control	Quality Systems - Model for Quality Assurance in Final Inspection and Test	24 CFR 200.935(d)(4)(ii) (A)(4)
ASQC Q9004-1	1994	American Society for Quality Control	Quality Management and Quality Systems Elements-Guidelines	24 CFR 200.935(d)(4)(ii) (A)(5)
ASSE 1001	1990	American Society of Sanitary Engineering	Performance Requirements for Pipe Applied Atmospheric Type Vacuum Breakers	24 CFR 3280.604(b)(2)
ASSE 1006 (pdf) ASSE 1006 (html)	1986	American Society of Sanitary Engineering	Plumbing Requirements for Residential Use (Household) Dishwashers	24 CFR 3280.604(b)(2)
ASSE 1007 (pdf) ASSE 1007 (html)	1986	American Society of Sanitary Engineering	Performance Requirements for Home Laundry Equipment	24 CFR 3280.604(b)(2)
ASSE 1008 (pdf) ASSE 1008 (html)	1986	American Society of Sanitary Engineering	Performance Requirements for Household Food Waste Disposer Units	24 CFR 3280.604(b)(2)
ASSE 1016	1988	American Society of Sanitary Engineering	Performance Requirements for Individual Thermostatic Pressure Balancing and Combination Control for Bathing Facilities	24 CFR 3280.604(b)(2)
ASSE 1023 (pdf) ASSE 1023 (html)	1979	American Society of Sanitary Engineering	Hot Water Dispensers, Household Storage Type, Electrical	24 CFR 3280.604(b)(2)
ASSE 1025	1978	American Society of Sanitary Engineering	Diverters for Plumbing Faucets with Hose Spray, Anti-Siphon Type, Residential Applications	24 CFR 3280.604(b)(2)
ASSE 1037 (pdf) ASSE 1037 (html)	1990	American Society of Sanitary Engineering	Performance Requirements for Pressurized Flushing Devices (Flushometers) for Plumbing Fixtures	24 CFR 3280.604(b)(2)
ASCE 7	2002	American Society of Civil Engineers	Minimum Design Loads for Buildings and Other Structures	49 CFR 193.2013

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	1977	American So	ciety for	Standard	d Specification for C	arbon	24 CFR Part 2

ASTM A36	1977	American Society for Testing and Materials	Standard Specification for Carbon Structural Steel	24 CFR Part 200
ASTM A36	1997	American Society for Testing and Materials	Standard Specification for Carbon Structural Steel	46 CFR 160.035-3(b)(2)
ASTM A47	1968	American Society for Testing and Materials	Standard Specification for Malleable Iron Castings	29 CFR 1910.111(b)(7) (vi)
ASTM A82	1979	American Society for Testing and Materials	Cold-Drawn Steel Wire for Concrete Reinforcement	24 CFR 200, Subpart S
ASTM A100	1969	American Society for Testing and Materials	Standard Specification for Ferrosilicon	40 CFR 60.261(s)
ASTM A106	2004	American Society for Testing and Materials	Standard Specification for Seamless Carbon Steel Pipe for High- Temperature Service	49 CFR 192.113
ASTM A134	1996	American Society for Testing and Materials	Standard Specification for Pipe, Steel, Electric Fusion (Arc)-Welded (Sizes NPS 16 and Over)	46 CFR 56.60-1(b)
ASTM A179	1990	American Society for Testing and Materials	Standard Specification for Seamless Cold-Drawn Low-Carbon Steel Heat-Exchanger and Condenser Tubes	46 CFR 56.60-1(b)
ASTM A184	1979	American Society for Testing and Materials	Standard Specification for Fabricated Deformed Steel Bar Mats for Concrete Reinforcement	24 CFR 200, Subpart S
ASTM A185	1979	American Society for Testing and Materials	Steel Wire Fabric for Concrete Reinforcement	24 CFR 200, Subpart S
ASTM A203	1997	American Society for Testing and Materials	Standard Specification for Pressure Vessel Plates, Alloy Steel, Nickel	46 CFR 54.05-20(b)
ASTM A214	1996	American Society for Testing and Materials	Standard Specification for Electric- Resistance-Welded Carbon Steel Heat-Exchanger and Condenser Tubes	46 CFR 56.60-1(b)
ASTM A242	1979	American Society for Testing and Materials	Standard Specification for High- Strength Low-Alloy Structural Steel	24 CFR 200, Subpart S
ASTM A285	1978	American Society for Testing and Materials	Standard Specification for Pressure Vessel Plates, Carbon Steel, Low- and Intermediate-Tensile Strength	49 CFR 179.300-7(a)
ASTM A307	1978	American Society for Testing and Materials	Carbon Steel Bolts and Studs, 60,000 PSI Tensile Strength	46 CFR 56.25-20(b)
ASTM A325	1979	American Society for Testing and Materials	High-Strength Bolts for Structural Steel Joists	24 CFR 200, Subpart S
ASTM A333	1994	American Society for Testing and Materials	Standard Specification for Seamless and Welded Steel Pipe for Low- Temperature Service	46 CFR 56.50-105
ASTM A369	1992	American Society for Testing and Materials	Standard Specification for Carbon and Ferritic Alloy Steel Forged and Bored Pipe for High-Temperature Service	46 CFR 56.60-1(b)
ASTM A370	1977	American Society for Testing and Materials	Standard Test Method and Definitions for Mechanical Testing of Steel Products	49 CFR 179.102-1(a)(1)
ASTM A381	1996	American Society for	Standard Specification for Metal-Arc-	49 CFR 192.113

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		Testing and Materials	Welded Steel Pipe for Use with High-Pressure Transmission Systems	
ASTM A391	1965	American Society for Testing and Materials	Standard Specification for Alloy Steel Chain	29 CFR 1910.184(e)(4)
ASTM A416	1974	American Society for Testing and Materials	Uncoated Seven-Wire Stress- Relieved Strand for Prestressed Concrete	24 CFR 200, Subpart S
ASTM A441	1979	American Society for Testing and Materials	High-Strength Low-Alloy Structural Manganese Vanadium Steel	24 CFR 200, Subpart S
ASTM A449	1978	American Society for Testing and Materials	Quenched and Tempered Steel Bolts and Studs	24 CFR 200, Subpart S
ASTM A475	1978	American Society for Testing and Materials	Standard Specification for Zinc- Coated Steel Wire Strand	7 CFR 1755.370(b)
ASTM A483	1964	American Society for Testing and Materials	Standard Specification for Silicomanganese	40 CFR 60.261(o)
ASTM A490	1979	American Society for Testing and Materials	Quenched and Tempered Alloy Steel Bolts for Structural Steel Joints	24 CFR 200, Subpart S
ASTM A496	1978	American Society for Testing and Materials	Deformed Steel Wire for Concrete Reinforcement	24 CFR 200, Subpart S
ASTM A497	1979	American Society for Testing and Materials	Welded Deformed Steel Wire, Fabric for Concrete Reinforcement	24 CFR 200, Subpart S
ASTM A500	1978	American Society for Testing and Materials	Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes	24 CFR 200, Subpart S
ASTM A501	1976	American Society for Testing and Materials	Hot-Formed Welded and Seamless Carbon Steel Structural Tubing	24 CFR 200, Subpart S
ASTM A502	1976	American Society for Testing and Materials	Steel Structural Rivets	24 CFR 200, Subpart S
ASTM A514	1977	American Society for Testing and Materials	High-Yield Strength, Quenched and Tempered Alloy Steel Plate, Suitable for Welding	24 CFR 200, Subpart S
ASTM A516	1990	American Society for Testing and Materials	Standard Specification for Pressure Vessel Plates, Carbon Steel, for Moderate and Lower-Temperature Service	49 CFR 178.337-2(b)(2) (i)
ASTM A522	1995	American Society for Testing and Materials	Forged or Rolled 8 and 9% Nickel Alloy Steel Flanges, Fittings, Valves, and Parts for Low- Temperature Service	46 CFR 56.50-105
ASTM A529	1972	American Society for Testing and Materials	Structural Steel with 42,000PSI (290 Mpa) Minimum Yield Point (1/2 in (12.7 mm) Maximum Thickness	24 CFR 200, Subpart S
ASTM A529	1975	American Society for Testing and Materials	Structural Steel with 42,000PSI (290 Mpa) Minimum Yield Point (1/2 in (12.7 mm) Maximum Thickness	24 CFR 200, Subpart S
ASTM A539	1990	American Society for Testing and Materials	Standard Specification for Electric- Resistance-Welded Coiled Steel Tubing for Gas and Fuel Oil Lines	24 CFR 3280.705(b)(4)
ASTM A570	1979	American Society for	Hot-Rolled Carbon Steel Sheet and	24 CFR 200, Subpart S

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		Testing and Materials	Strip, Structural Quality	
ASTM A572	1979	American Society for Testing and Materials	High-Strength Low-Alloy Columbium-Vanadium Steels of Structural Quality	24 CFR 200, Subpart S
ASTM A588	1979	American Society for Testing and Materials	High-Strength Low-Alloy Structural Steel with 50 ksi Minimum Yield Point to 4 inches Thick	24 CFR 200, Subpart S
ASTM A611	1972	American Society for Testing and Materials	Steel, Cold-rolled Sheet, Carbon, Structural	24 CFR 200, Subpart S
ASTM A615	1979	American Society for Testing and Materials	Deformed and Plain Billet-Steel Bars for Concrete Reinforcement	24 CFR 200, Subpart S
ASTM A616	1979	American Society for Testing and Materials	Rail-Steel Deformed and Plain Bars for Concrete Reinforcement	24 CFR 200, Subpart S
ASTM A617	1979	American Society for Testing and Materials	Axle-Steel Deformed and Plain Bars for Concrete Reinforcement	24 CFR 200, Subpart S
ASTM A618	1974	American Society for Testing and Materials	Hot-Formed Welded and Seamless High-Strength Low-Alloy Structural Tubing	24 CFR 200, Subpart S
ASTM A633	1979	American Society for Testing and Materials	Standard Specification for Normalized High-Strength Low Alloy Structural Steel	49 CFR 178.338-2(a)
ASTM A671	2004	American Society for Testing and Materials	Standard Specification for Electric- Fusion-Welded Steel Pipe for Atmospheric and Lower Temperatures	49 CFR 192.113
ASTM A672	1996	American Society for Testing and Materials	Standard Specification for Electric- Fusion-Welded Steel Pipe for High- Pressure Service at Moderate Temperatures	49 CFR 192.113
ASTM A691	1998	American Society for Testing and Materials	Standard Specification for Carbon and Alloy Steel Pipe, Electric- Fusion-Welded for High-Pressure Service at High Temperature	49 CFR 192.113
ASTM B16	1985	American Society for Testing and Materials	Standard Specification for Free- Cutting Brass Rod, Bar, and Shapes for Use in Screw Machines	46 CFR 56.60-2
ASTM B16	1992	American Society for Testing and Materials	Standard Specification for Free- Cutting Brass Rod, Bar, and Shapes for Use in Screw Machines	46 CFR 56.60-2
ASTM B21	1983	American Society for Testing and Materials	Standard Specification for Naval Brass Rod, Bar, and Shapes	46 CFR 56.60-2
ASTM B21	1996	American Society for Testing and Materials	Standard Specification for Naval Brass Rod, Bar, and Shapes	46 CFR 56.60-2
ASTM B42	1996	American Society for Testing and Materials	Standard Specification for Seamless Copper Pipe, Standard Sizes	46 CFR 56.60-1(b)
ASTM B68	1995	American Society for Testing and Materials	Standard Specification for Seamless Copper Tube, Bright Annealed	46 CFR 56.60-1(b)
ASTM B75	1997	American Society for Testing and Materials	Standard Specification for Seamless Copper Tube	46 CFR 56.60-1(b)
ASTM B85	1984	American Society for Testing and Materials	Standard Specification for Aluminum-Alloy Die Castings	46 CFR 56.60-2

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ASTM B88	1996	American Society for Testing and Materials	Standard Specification for Seamless Copper Water Tube	46 CFR 56.60-1(b)
ASTM B96	1993	American Society for Testing and Materials	Standard Specification for Copper- Silicon Alloy Plate, Sheet, Strip, and Bolled Bar for General Purposes and Pressure Vessels	46 CFR 119.440
ASTM B111	1995	American Society for Testing and Materials	Copper and Copper-Alloy Seamless Condenser Tubes and Ferrule Stock	46 CFR 56.60-1(b)
ASTM B117	1973	American Society for Testing and Materials	Standard Practice for Operating Salt Spray (Fog) Apparatus	49 CFR 571.209 S5.2(a)
ASTM B122	1995	American Society for Testing and Materials	Standard Specification for Copper- Nickel-Tin Alloy, Copper-Nickel-Zinc Alloy (Nickel Silver), and Copper- Nickel Alloy Plate, Sheet, Strip and Rolled Bar	46 CFR 119.440
ASTM B124	1996	American Society for Testing and Materials	Standard Specification for Copper and Copper-Alloy Forging Rod, Bar, and Shapes	46 CFR 56.60-2
ASTM B152	1997	American Society for Testing and Materials	Standard Specification for Copper, Sheet, Strip, Plate, and Rolled Bar	46 CFR 58.50-5(a)(4)
ASTM B193	1987	American Society for Testing and Materials	Standard Test Method for Resistivity of Electrical Conductor Materials	7 CFR 1755.390(i)(5)(v) (A)
ASTM B209	1996	American Society for Testing and Materials	Standard Specification for Aluminum and Aluminum Alloy Sheet and Plate	46 CFR 58.50-5, Table 58.50-5(a)
ASTM B224	1980	American Society for Testing and Materials	Standard Classification of Coppers	7 CFR 1755.890(i)(5)(vi)
ASTM B227	1970	American Society for Testing and Materials	Hard-Drawn Copper-Clad Steel Wire	24 CFR 200, Subpart S
ASTM B280	1997	American Society for Testing and Materials	Seamless Copper Tube for Air Conditioning and Refrigeration Field Service	46 CFR 56.60-1(b)
ASTM B283	1996	American Society for Testing and Materials	Standard Specification for Copper and Copper-Alloy Die Forgings (Hot-Pressed)	46 CFR 56.60-2
ASTM B315	1993	American Society for Testing and Materials	Seamless Copper Alloy Pipe Tube	46 CFR 56.60-1(b)
ASTM B557	1984	American Society for Testing and Materials	Tension Testing Wrought and Cast Aluminum and Magnesium-Alloy Products	49 CFR 178.46(i)(3)(i)
ASTM B580	1979	American Society for Testing and Materials	Standard Specification for Anodized Oxide Coatings on Aluminum	49 CFR 171.7
ASTM B694	1986	American Society for Testing and Materials	Standard Specification for Copper, Copper Alloy, and Copper-Clad Stainless Steel Sheet and Strip for Electrical Cable Shielding	7 CFR 1755.390(i)(5)(v)
ASTM B858	1995	American Society for Testing and Materials	Standard Test Method for Determination of Susceptibility to Stress Corrosion Cracking in Copper Alloys Using Ammonia Vapor Test	46 CFR 56.60-2

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ASTM C4	1962	American Society for Testing and Materials	Standard Specification for Clay Drain Tile and Perforated Clay Drain Tile	24 CFR 200, Subpart S
ASTM C5	1979	American Society for Testing and Materials	Standard Specification for Quicklime for Structural Purposes	24 CFR 200, Subpart S
ASTM C32	1973	American Society for Testing and Materials	Standard Specification for Sewer and Manhole Brick	24 CFR 200, Subpart S
ASTM C34	1962	American Society for Testing and Materials	Standard Specification for Structural Clay Load-Bearing Wall Tile	24 CFR 200, Subpart S
ASTM C52	1954	American Society for Testing and Materials	Specification for Gypsum Partition Tile or Block	24 CFR 200, Subpart S
ASTM C56	1971	American Society for Testing and Materials	Standard Specification for Structural Clay Nonloadbearing Tile	24 CFR 200, Subpart S
ASTM C64	1972	American Society for Testing and Materials	Specification for Fireclay Brick Refractories for Heavy Duty Stationary Boiler Service	24 CFR 200, Subpart S
ASTM C90	1970	American Society for Testing and Materials	Standard Specification for Hollow Load-Bearing Concrete Masonry Units	49 CFR 223 Appendix A (b)(10)(ii)
ASTM C126	1971	American Society for Testing and Materials	Standard Specification for Ceramic Glazed Structural Clay Facing Tile, Facing Brick, and Solid Masonry Units	24 CFR 200, Subpart S
ASTM C139	1973	American Society for Testing and Materials	Standard Specification for Concrete Masonry Units for Construction of Catch Basins and Manholes	24 CFR 200, Subpart S
ASTM C150	1917	American Society for Testing and Materials	Standard Specification for Portland Cement	49 CFR 571.108
ASTM C150	1999	American Society for Testing and Materials	Standard Specification for Portland Cement	30 CFR 250.198
ASTM C150	2007	American Society for Testing and Materials	Standard Specification for Portland Cement	30 CFR 250.901(d)(9)
ASTM C177	1997	American Society for Testing and Materials	Standard Test Method for Steady- State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded Hot-Plate Apparatus	10 CFR 431.102
ASTM C177 (pdf) ASTM C177 (html)	2004	American Society for Testing and Materials	Standard Test Method for Steady- State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded Hot-Plate Apparatus	16 CFR 460.5(a)
ASTM C236	1989	American Society for Testing and Materials	Standard Test Method for Steady- State Thermal Performance of Building Assemblies by Means of a Guarded Hot Box	10 CFR 434.402.1.2.1(a)
ASTM C330	1999	American Society for Testing and Materials	Standard Specification for Lightweight Aggregates for Structural Concrete	30 CFR 250.901(a)(18)
ASTM C476	1971	American Society for Testing and Materials	Standard Specification for Grout for Masonry	24 CFR 200, Subpart S

#### ASTM C720 1989 American Society for Spray Applied Fibrous Insulation for 10 CFR 440 Appendix A **Testing and Materials Elevated Temperature ASTM C1045** 2001 American Society for Standard Practice for Calculating 16 CFR 460.5(a) **Testing and Materials Thermal Transmission Properties** from Steady-State Heat Flux Measurements ASTM C1114 2000 American Society for Standard Test Method for Steady-16 CFR 460.5(a) State Thermal Transmission **Testing and Materials** Properties by Means of the Thin-Heater Apparatus **ASTM C1149** 2002 American Society for Standard Specification for Self-16 CFR 460.5(a)(4) **Testing and Materials** Supported Spray Applied Cellulosic **Thermal Insulation** ASTM C1224 2003 American Society for Standard Specification for Reflective 16 CFR 460.5(c) **Testing and Materials** Insulation for Building Applications **ASTM C1371** 2004 American Society for Standard Test Method for 16 CFR 460.5(b) **Testing and Materials** Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers **ASTM C1374** 2003 American Society for Standard Test Method for 16 CFR 460.5(a)(5) **Testing and Materials** Determination of Installed Thickness of Pneumatically Applied Loose-Fill Building Insulation ASTM D56 1970 American Society for Standard Test Method for Flash 29 CFR 1910.106(a)(14) **Testing and Materials** Point by Tag Closed Cup Tester (i) ASTM D86 2001 Standard Test Method for Distillation American Society for 40 CFR 94.108(a)(1) **Testing and Materials** of Petroleum Products at Table B-5 Atmospheric Pressure ASTM D86 American Society for Standard Test Method for Distillation 40 CFR 1065.710 2004 **Testing and Materials** of Petroleum Products at Atmospheric Pressure

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American Society for

**Testing and Materials** 

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Standard Specification for

Standard Specification for

Insulation

Apparatus

Apparatus

Fittings

Loose Fill Insulation

Elastomeric Cellular Preformed Gasket and Sealing Material

Vermiculite Loose Fill Thermal

Standard Test Method for Steady-

Standard Test Method for Steady-

Standard Specification for Perlite

Standard Specification for Rubber

Gaskets for Cast Iron Soil Pipe and

State Heat Flux Measurements and Thermal Transmission Properties by Means of the Heat Flow Meter

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24 CFR 200, Subpart S

24 CFR 200, Subpart S

46 CFR 160.174-17(f)

16 CFR 460.5(a)

10 CFR 440 Appendix A

24 CFR 3280.611(d)(5)

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1984

1980

1991

2004

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1970

**ASTM C509** 

ASTM C516

ASTM C518

ASTM C518

ASTM C549

ASTM C564

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ASTM D86 (pdf) ASTM D86 (html)	2007	American Society for Testing and Materials	Standard Test Method for Distillation of Petroleum Products at Atmospheric Pressure	40 CFR 1065.710
ASTM D88	1956	American Society for Testing and Materials	Standard Test Method for Saybolt Viscosity	29 CFR 1910.106(a)(37)
ASTM D93	2002	American Society for Testing and Materials	Standard Test Method for Flash Point by Pensky-Martens Closed Cup Tester	40 CFR 94.108(a)(1) Table B-5
ASTM D129	1964	American Society for Testing and Materials	Standard Test Method for Sulfur in Petroleum Products (General Bomb Method)	40 CFR 60.106(j)(2)
ASTM D129	1995	American Society for Testing and Materials	Standard Test Method for Sulfur in Petroleum Products (General Bomb Method)	40 CFR 60.106(j)(2)
ASTM D129 (pdf) ASTM D129 (html)	2000	American Society for Testing and Materials	Standard Test Method for Sulfur in Petroleum Products (General Bomb Method)	40 CFR 60.335(b)(10)(i)
ASTM D257	1991	American Society for Testing and Materials	Standard Test Method for DC Resistance of Conductance of Insulating Materials	7 CFR 1755.860(e)(5)
ASTM D287	1992	American Society for Testing and Materials	Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method)	40 CFR 94.108(a)(1) Table B-5
ASTM D323	1958	American Society for Testing and Materials	Standard Test Method for Vapor Pressure of Petroleum Products (Reid Method)	29 CFR 1910.106(a)(30)
ASTM D388	1998	American Society for Testing and Materials	Standard Classification of Coals by Rank	40 CFR 60.251(b)
ASTM D396	1998	American Society for Testing and Materials	Standard Specification for Fuel Oils	40 CFR 60.41b
ASTM D396 (pdf) ASTM D396 (html)	2002	American Society for Testing and Materials	Standard Specification for Fuel Oils	40 CFR 63.7575
ASTM D412	1968	American Society for Testing and Materials	Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension	21 CFR 801.410(d)(2)
ASTM D413	1982	American Society for Testing and Materials	Standard Test Method for Rubber PropertyAdhesion to Flexible Substrate	46 CFR 160.055-3 Table 160-055-3(j)
ASTM D445	1965	American Society for Testing and Materials	Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids	29 CFR 1910.106(a)(37)
ASTM D445	1972	American Society for Testing and Materials	Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids	21 CFR 177.1430(c)(2)
ASTM D512	1989	American Society for Testing and Materials	Standard Test Methods for Chloride Ion In Water	40 CFR 136.3(a)
ASTM D611	1982	American Society for Testing and Materials	Standard Test Method for Aniline Point and Mixed Aniline Point of Petroleum Products and Hydrocarbon Solvents	21 CFR 177.1520(b)

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ASTM D660	1944	American Society for Testing and Materials	Evaluating Degree of Resistant to Checking of Exterior Paints	24 CFR 200, Subpart S
ASTM D665	1998	American Society for Testing and Materials	Standard Test Method for Rust- Preventing Characteristics of Inhibited Mineral Oil in the Presence of Water	46 CFR 61.20-17(a)
ASTM D750	1968	American Society for Testing and Materials	Recommended Practice for Rubber Deterioration in Carbon-Arc or Weathering Apparatus	24 CFR 200, Subpart S
ASTM D756	1956	American Society for Testing and Materials	Standard Practice for Determination of Weight and Shape Changes of Plastics Under Accelerated Service Conditions	49 CFR 571.209 S5.2(b)
ASTM D781	1968	American Society for Testing and Materials	Standard Test Methods for Puncture and Stiffness of Paperboard and Corrugated and Solid Fiberboard	24 CFR 3280.304(b)(1)
ASTM D785	1965	American Society for Testing and Materials	Standard Method of Test for Rockwell Hardness of Plastics and Electrical Insulating Materials	16 CFR 1201.4
ASTM D814	1995	American Society for Testing and Materials	Standard Test Method for Rubber PropertyVapor Transmission of Volatile Liquids	40 CFR 1051.245(e)(1)
ASTM D975	1998	American Society for Testing and Materials	Standard Specification for Diesel Fuel Oils	46 CFR 160.176-13(r)
ASTM D975 (pdf) ASTM D975 (html)	2007	American Society for Testing and Materials	Standard Specification for Diesel Fuel Oils	40 CFR 1065.701
ASTM D976	1991	American Society for Testing and Materials	Standard Test Method for Calculated Cetane Index of Distillate Fuels	40 CFR 92.113
ASTM D1056	1973	American Society for Testing and Materials	Standard Specification for Flexible Cellular Materials Sponge or Expanded Rubber	49 CFR 571.213
ASTM D1060	1965	American Society for Testing and Materials	Standard Method of Core Sampling of Raw Wool Packages for Determination of Percentage of Clean Wool Fiber Present	7 CFR 31.204
ASTM D1067	2002	American Society for Testing and Materials	Standard Test Method for Acidity or Alkalinity of Water	40 CFR 141.21
ASTM D1068	2003	American Society for Testing and Materials	Standard Test Methods for Iron in Water	40 CFR 136.3(a)
ASTM D1072	1990	American Society for Testing and Materials	Standard Test Method for Total Sulfur in Fuel Gases	40 CFR 60.335(b)(10)(ii)
ASTM D1081	1960	American Society for Testing and Materials	Test for Evaluating Rubber Property- -Sealing Pressure	24 CFR 200, Subpart S
ASTM D1126 (pdf) ASTM D1126 (html) ASTM D1126 (svg)	2002	American Society for Testing and Materials	Standard Test Method for Hardness in Water	40 CFR 136
ASTM D1193	1977	American Society for Testing and Materials	Standard Specification for Reagent Water	40 CFR 60, Appendix A- 3

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ASTM D1200	1970	American Society for Testing and Materials	Viscosity of Paints, Varnishes and Lacquers by Ford Viscosity Cup	49 CFR 171.8
ASTM D1217	1993	American Society for Testing and Materials	Standard Test Method for Density and Relative Density (Specific Gravity) of Liquids by Bingham Pycnometer	40 CFR 75, Appendix D
ASTM D1246	1995	American Society for Testing and Materials	Bromide - Titrimetric	40 CFR 136.3(a) Table IB
ASTM D1253	1986	American Society for Testing and Materials	Standard Test Method for Residual Chlorine in Water	21 CFR 165.110(b)(4)(iii) (I)(5)(i)
ASTM D1253 (pdf) ASTM D1253 (html)	2003	American Society for Testing and Materials	Standard Test Method for Residual Chlorine in Water	40 CFR 136.3(a) Table IB
ASTM D1266	1998	American Society for Testing and Materials	Standard Test Method for Sulfur in Petroleum Products (Lamp Method)	40 CFR 60.106(j)(2)
ASTM D1298	1999	American Society for Testing and Materials	Standard Practice for Density, Relative Density (Specific Gravity), or API Gravity of Crude Petroleum and Liquid Petroleum Products	40 CFR 75, Appendix D, Section 2.2.6
ASTM D1303	1955	American Society for Testing and Materials	Standard Method of Test for Total Chlorine in Vinyl Chloride Polymers and Copolymers	21 CFR 177.1610(a)
ASTM D1319 (pdf) ASTM D1319 (html)	2003	American Society for Testing and Materials	Standard Test Method for Hydrocarbon Types in Liquid Petroleum Products by Fluorescent Indicator Adsorption	40 CFR 80.2(z)
ASTM D1331	1989	American Society for Testing and Materials	Standard Test Methods for Surface and Interfacial Tension of Solutions of Surface Active Agents	40 CFR 63, Appendix A
ASTM D1335	1967	American Society for Testing and Materials	Standard Test Method for Tuft Bind of Pile Floor Coverings	24 CFR 200.945(a)(1)(ii)
ASTM D1412	1993	American Society for Testing and Materials	Standard Test Method for Equilibrium Moisture of Coal at 96 to 97 Percent Relative Humidity and 30 Degrees Celsius	30 CFR 870.19
ASTM D1415	1968	American Society for Testing and Materials	Tentative Method of Test for International Hardness of Vulcanized Natural and Synthetic Rubbers	49 CFR 571.116 S7.4.1(b)
ASTM D1415	1988	American Society for Testing and Materials	Standard Practice for Rubber and Rubber LaticesNomenclature	21 CFR 177.2600(c)(4) (i)
ASTM D1475	1960	American Society for Testing and Materials	Standard Test Method for Density of Paint, Varnish, Lacquer, and Related Products	40 CFR 60, Appendix A- 7
ASTM D1480	1993	American Society for Testing and Materials	Standard Test Method for Density and Relative Density (Specific Gravity) of Viscous Materials by Bingham Pycnometer	40 CFR 75, Appendix D
ASTM D1481	1993	American Society for Testing and Materials	Standard Test Method for Density and Relative Density (Specific Gravity) of Viscous Materials by	40 CFR 136.3(a) Table IC

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			Lipkin Bicapillary Pycnometer	
ASTM D1505	1968	American Society for Testing and Materials	Standard Test Method for Density of Plastics by the Density-Gradient Technique	21 CFR 177.2480
ASTM D1518	1985	American Society for Testing and Materials	Standard Test Method for Thermal Transmittance of Textile Materials	46 CFR 160.174-17(f)
ASTM D1535	1968	American Society for Testing and Materials	Specifying Color by the Munsell System	16 CFR 1402
ASTM D1535	1968	American Society for Testing and Materials	Specifying Color by the Munsell System	16 CFR 1402.4(a)(1)(i) (E)(2)
ASTM D1535	1989	American Society for Testing and Materials	Specifying Color by the Munsell System	7 CFR 1755.860(c)(3)
ASTM D1552	1995	American Society for Testing and Materials	Standard Test Method for Sulfur in Petroleum Products (High- Temperature Method)	40 CFR 60, Appendix A- 7
ASTM D1564	1971	American Society for Testing and Materials	Standard Method of Testing Flexible Cellular MaterialsSlab Urethane Foam	40 CFR 136.3(a)
ASTM D1687	1992	American Society for Testing and Materials	Standard Test Methods for Chromium in Water	40 CFR 444.12(b)(1)
ASTM D1688	1995	American Society for Testing and Materials	Standard Test Method for Copper in Water	40 CFR 141.23(k)(1)
ASTM D1692	1968	American Society for Testing and Materials	Test for Flammability of Plastic Sheeting and Cellular Plastics	29 CFR 1910.103(c)(1) (v)(D)
ASTM D1785	1986	American Society for Testing and Materials	Standard Specification for Poly (Vinyl Chloride)(PVC) Plastic Pipe, Schedules 40, 80, and 120	46 CFR 56.01-2
ASTM D1835	1997	American Society for Testing and Materials	Standard Specification for Liquefied Petroleum (LP) Gases	49 CFR 180.209(e)
ASTM D1890	1996	American Society for Testing and Materials	Standard Test Method for Beta Particle Radioactivity of Water	40 CFR 136.3(a)
ASTM D1943	1996	American Society for Testing and Materials	Standard Test Method for Alpha Particle Radioactivity of Water	40 CFR 136.3(a)
ASTM D1945	1996	American Society for Testing and Materials	Standard Test Method for Analysis of Natural Gas By Gas Chromatography	40 CFR 60.45(f)(5)(i)
ASTM D1946	1990	American Society for Testing and Materials	Standard Method for Analysis of Reformed Gas by Gas Chromatography	40 CFR 60.614(e)(4)
ASTM D1962	1967	American Society for Testing and Materials	Standard Test Method for Saponification Value of Drying Oils, Fatty Acids, and Polymerized Fatty Acids	21 CFR 178.2010(b)
ASTM D2013	1986	American Society for Testing and Materials	Standard Method of Preparing Coal Samples for Analysis	40 CFR 60, Appendix A- 7
ASTM D2015	1996	American Society for Testing and Materials	Standard Test Method for Gross Calorific Value of Solid Fuel by the Adiabatic Bomb Calorimeter	40 CFR 60.45(f)(5)(ii)
ASTM D2036	1998	American Society for Testing and Materials	Standard Test Method for Cyanides in Water	40 CFR 136.3(a) Table IB
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ASTM D2099	2000	Testing and Materials	Water Resistance of Shoe Upper Maeser Water Penetration Tester	40 CFR 63.5350(D)
ASTM D2156	1965	American Society for Testing and Materials	Method of Tests for Smoke Density in Flue Gases from Distillate Fuels	10 CFR 430 Subpart B
ASTM D2161	1966	American Society for Testing and Materials	Standard Method of Conversion of Kinematic Viscosity to Saybolt Universal Viscosity or to Saybolt Furol Viscosity	29 CFR 1910.106(a)(37)
ASTM D2163	1991	American Society for Testing and Materials	Standard Test Method for Analysis of Liquefied Petroleum (LP) Gases and Propane Concentrates by Gas Chromatography	40 CFR 86.1313-94(f)(3)
ASTM D2216	1998	American Society for Testing and Materials	Standard Test Method for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass	40 CFR 258.41(a)(4)(iii) (A)
ASTM D2234	1998	American Society for Testing and Materials	Standard Practice for Collection of a Gross Sample of Coal	40 CFR 60, Appendix A- 7
ASTM D2236	1970	American Society for Testing and Materials	Standard Method of Test for Dynamic Mechanical Properties of Plastics by Means of a Torsional Pendulum	21 CFR 177.1810(c)(2) (i)
ASTM D2247	1968	American Society for Testing and Materials	Standard Practice for Testing Water Resistance of Coatings in 100 Percent Relative Humidity	24 CFR 200, Subpart S
ASTM D2267	1968	American Society for Testing and Materials	Standard Test Method for Aromatics in Light Naphthas and Aviation Gasoline by Gas Chromatography	40 CFR 61.67(h)(1)
ASTM D2460	1997	American Society for Testing and Materials	Standard Test Method for Alpha- Particle-Emitting Isotopes of Radium in Water	40 CFR 136.3(a) Table IE
ASTM D2502	1992	American Society for Testing and Materials	Standard Test Method for Estimation of Molecular Weight (Relative Molecular Mass) of Petroleum Oils from Viscosity Measurements	40 CFR 75, Appendix G
ASTM D2503	1992	American Society for Testing and Materials	Standard Method of Test for Molecular Weight of Hydrocarbons by Thermoelectric Measurement of Vapor Pressure	40 CFR 98.254
ASTM D2505	1988	American Society for Testing and Materials	Standard Test Method for Ethylene, Other Hydrocarbons, and Carbon Dioxide in High-Purity Ethylene by Gas Chromatography	40 CFR 98.7
ASTM D2515	1966	American Society for Testing and Materials	Standard Specification for Kinematic Glass Viscosity	49 CFR 571.116 S6.3.2(a)
ASTM D2565	1970	American Society for Testing and Materials	Standard Practice for Operating Xenon Arc-Type Light-Exposure Apparatus With or Without Water for Exposure of Plastics	16 CFR 1201.4(b)(3)(ii)
ASTM D2597	1994	American Society for Testing and Materials	Standard Test Method for Analysis of Demethanized Hydrocarbon Liquid Mixtures Containing Nitrogen	40 CFR 60.335(b)(9)(i)

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			and Carbon Dioxide by Gas Chromatography	
ASTM D2622	1998	American Society for Testing and Materials	Standard Test Method for Sulfur in Petroleum Products by Wavelength Dispersive X-ray Fluorescence Spectrometry	40 CFR 80.46(a)(1)
ASTM D2724	1987	American Society for Testing and Materials	Standard Test Method for Bonded, Fused, and Laminated Apparel Fabrics	49 CFR 238 Appendix B(a)(1)(ii)
ASTM D2777	1998	American Society for Testing and Materials	Standard Practice for Determination of Precision and Bias of Applicable Test Methods of Committee D-19 on Water	46 CFR 162.050-15(f)(1)
ASTM D2857	1970	American Society for Testing and Materials	Standard Method of Test for Dilute Solution Viscosity of Polymers	21 CFR 177.2210(b)(3)
ASTM D2879	1997	American Society for Testing and Materials	Standard Test Method for Vapor PressureTemperature Relationship and Initial Decomposition Temperature of Liquids by Isoteniscope	40 CFR 60.116b(e)(3)(ii)
ASTM D2908	1974	American Society for Testing and Materials	Standard Practice for Measuring Volatile Organic Matter in Water by Aqueous-Injection Gas Chromatography	40 CFR 60.564(j)(1)
ASTM D2908	1991	American Society for Testing and Materials	Standard Practice for Measuring Volatile Organic Matter in Water by Aqueous-Injection Gas Chromatography	40 CFR 60.564(j)(1)
ASTM D2986	1995	American Society for Testing and Materials	Standard Method for Evaluation of Air, Assay Media by the Monodisperse DOP (Dioctyl Phthalate) Smoke Test	40 CFR 86.1310-2007(b) (7)(i)(A)
ASTM D3120	1996	American Society for Testing and Materials	Standard Test Method for Trace Quantities of Sulfur in Light Liquid Petroleum Hydrocarbons by Oxidative Microcoulometry	40 CFR 80.46(a)(3)(iii)
ASTM D3168	1973	American Society for Testing and Materials	Standard Recommended Practices for Qualitative Identification of Polymers in Emulsion Paints	21 CFR 200.946
ASTM D3173	1987	American Society for Testing and Materials	Standard Test Method for Moisture in the Analysis Sample of Coal and Coke	40 CFR 60, Appendix A- 7
ASTM D3176	1989	American Society for Testing and Materials	Standard Practice for Ultimate Analysis of Coal and Coke	40 CFR 76.15(a)(1)
ASTM D3177	1989	American Society for Testing and Materials	Standard Test Method for Total Sulfur in the Analysis Sample of Coal and Coke	40 CFR 60, Appendix A- 7
ASTM D3178	1989	American Society for Testing and Materials	Standard Test Method for Carbon and Hydrogen in the Analysis Sample of Coal and Coke	40 CFR 60.45(f)(5)(i)
ASTM D3236	1988	American Society for Testing and Materials	Standard Test Method for Apparent Viscosity of Hot Metal Adhesives and Coating Materials	21 CFR 177.1520(b)

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