EXHIBIT 11 (FILED UNDER SEAL)

EXHIBIT 12

1	UNITED STATES DISTRICT COURT
2	FOR THE DISTRICT OF COLUMBIA
3	AMERICAN SOCIETY FOR TESTING AND) Case No.
4	MATERIALS d/b/a ASTM INTERNATIONAL;) 1:13-cv-01215-EGS NATIONAL FIRE PROTECTION)
5	ASSOCIATION, INC.; and) AMERICAN SOCIETY OF HEATING,)
	REFRIGERATING, AND)
6	AIR-CONDITIONING ENGINEERS, INC.,)
7	Plaintiffs,)
8	vs.)
9	
10	PUBLIC.RESOURCE.ORG, INC.,)
	Defendant.)
11)
12	AND RELATED COUNTERCLAIMS.)
)
13	
	RULE 30(B)(6) VIDEOTAPED DEPOSITION OF AMERICAN
14	SOCIETY OF HEATING, REFRIGERATING, AND AIR-CONDITIONING
	ENGINEERS, INC.
15	,,
10	BY AND THROUGH ITS DESIGNEE,
16	DI AND IIIKOOGII IID DIDIONII,
TO	CTEDUANTE DETNICUE
1 17	STEPHANIE REINICHE
17	
18	MONDAY, MARCH 30, 2015
	9:10 a.m.
19	
20	VERITEXT LEGAL SOLUTIONS
	1075 PEACHTREE STREET
21	SUITE 3625
	ATLANTA, GEORGIA
22	
23	Reported By:
24	SHARON A. GABRIELLI, CCR B-2002
25	Job No. 2035289
	Page 1

1 A I moved from Michigan to Georgia. 09:21	1 A That title, till 2014. 09:21
2 Q And what was your first job that you took 09:29	2 Q And so were you promoted once again in 2014? 09:27
3 once you moved to Georgia? 09:23	3 A Yes. 09:20
4 A ASHRAE. 09:25	4 Q And what is the title that you were promoted 09:21
5 Q Okay. Did you move to Georgia to work at 09:26	5 to? 09:23
6 ASHRAE? 09:28	6 A Senior manager of standards. 09:24
7 A No. 09:29	7 Q And is that the title that you hold today? 09:21
8 Q Okay. And when was it that you started 09:29	8 A Yes. 09:24
9 working at ASHRAE? 09:21	9 Q Okay. And do you have any other roles at 09:24
10 A November 2003. 09:23	10 ASHRAE, other than senior manager of standards? 09:24
11 Q Okay. How was it that you came to start 09:23	11 A No. 09:29
12 working at ASHRAE? 09:24	12 Q Have you served on any of the committees in 09:29
13 A I applied online. I I saw a job posting, 09:27	13 ASHRAE? 09:21
14 at that time it was for a procedures administrator, and 09:21	14 A No. 09:23
15 I submitted a résumé. 09:23	15 Q Have you what involvement in the design of 09:24
16 Q Had you ever heard of ASHRAE before that 09:21	16 standards have you played? 09:21
17 point? 09:23	17 A I oversee the development of all the 09:23
18 A No. 09:23	18 standards at ASHRAE. 09:26
19 Q Were you familiar with the air-conditioning, 09:24	19 Q And what does that involve? 09:26
20 heating and cooling industry prior to that point? 09:26	20 A It involves a lot of things. It involves 09:27
21 A No. 09:21	21 reviewing all the documentation for membership, 09:22
22 Q What was it that made you qualified for the 09:22	22 overseeing the documentation for public reviews, could 09:27
23 job at ASHRAE? 09:26	23 be change proposals, could be minutes, the publication 09:24
24 A I suppose because it was at that time, it 09:20	24 drafts, editing and reviewing those, working with the 09:20
25 was about procedures and process, and so just legal 09:23	25 appeals. 09:27
Page 18	Page 20
1 background and ability to to write and things like 09:27	1 Q And when you say you oversee the 09:25
2 that. 09:29	2 documentation for membership and for public reviews and 09:29
3 Q And what how long were you a procedures 09:24	3 change proposals and publication drafts, what does that 09:23
4 administrator at ASHRAE for? 09:20	4 entail? 09:26
	4 entail? 09:26 5 A It can entail well, making sure that the 09:28
5 A I want to say until December 2004. 09:27	5 A It can entail well, making sure that the 09:28
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6 (Pages 18 - 21)

1 A For which standard? 09:21	1 A For which part of the process? After 09:29
2 Q So the interest categories are different for 09:23	2 membership? 09:22
3 particular standards? 09:25	3 Q Let's talk about membership applications. 09:23
4 A They can be, yes. 09:26	4 A So for membership applications, there is an 09:27
5 Q Okay. Do you know the off the top of your 09:27	5 application form that would list the you know, what 09:20
6 head the interest categories for the 90.1 standards? 09:20	6 project committee they're applying for, their name, 09:24
7 A I can list some of them, but I would have to 09:26	7 what interest category they believe they should be 09:27
8 look at a roster to verify they're all correct. 09:28	8 categorized. And then they would have then there is 09:33
9 Q Okay. 09:22	9 a signature at the bottom and their voting status, what 09:35
10 A There's compliance, industry, utility, 09:22	10 they would like to be on that committee. 09:39
11 general, and I think user. 09:21	11 There's a bias/conflict of interest form, 09:32
12 Q And what does what are the those 09:27	12 which gives background on where they've worked for the 09:36
13 categories? Excuse me, let me rephrase. 09:25	13 last five years, other organizations that they've been 09:30
14 What what kind of a person would a 09:29	14 involved with, who pays their way to participate, and 09:34
15 would fall into the compliance category? 09:22	15 any public statements they would have made in regards 09:38
16 A I would need to look at the application that 09:26	16 to the particular standard they're applying for, and 09:31
17 shows the definition to give you an exact person, the 09:28	17 that, too, is signed. 09:34
17 shows the definition to give you an exact person, the 09.28 18 exact definition; but for example, somebody that's 09:22	17 that, too, is signed. 09:34 18 And then there's a biographical record that 09:36
19 involved in codes would be a compliance person.09:2620QWhen you say someone who's involved in codes, 09:20	19 is done through the ASHRAE website which gives their 09:38
	20 background, like where they you know, their degrees 09:33
21 like what what kind of role do you mean by that? 09:24	21 and things like that, whether other committees 09:38
22 A A code official. 09:27	22 they've been involved in within ASHRAE, awards; things 09:31
23 Q A code 09:29	23 like that. 09:36
24 A A building code person; that type of person. 09:20	24 Q Are you the person who makes sure that all of 09:36
25 Q Would that be something like a regulator? 09:23 Page 22	25 these fields are filled out? 09:39 Page 24
1 A Could be. 09:26	1 A I have a staff person that does that, but 09:31
2 Q Okay. So that would that would encompass 09:27	2 then they are reviewed by another committee. And when 09:32
3 somebody in a government position, then, would be under 09:21	3 there's a question, then I'm the one that helps work 09:35
4 compliance? 09:27	4 with that. 09:39
5 MR. CUNNINGHAM: Object to form. 09:28	5 Q And what is the name of the staff person who 09:30
6 THE WITNESS: I would have to look at 09:29	6 checks these forms? 09:32
7 the roster to see how a government employee 09:20	7 A It's varied over the years. 09:35
8 would be listed. It depends on where they 09:22	8 Q What is the name of the person today? 09:37
1 2	9 A Katrina Shingles. 09:30
9 work, what they do. Without looking at an 09:26 10 individual, I can't tell you for sure that 09:20	
	10 Q And is there does Katrina Shingles have a 09:36
11 they would go under compliance. 09:21	11 specific position? 09:31
12 Q (BY MR. BECKER) Okay. What other categories 09:24 13 could a government official go under, other than 09:25	
1 I S COURT & COVERNMENT OFFICIAL OF UNDER OTHER INAM US. 12	12 A She's a secretary. 09:32
	13 Q Is there a specific position for the person 09:38
14 compliance? 09:28	13QIs there a specific position for the person09:3814who has always checked the the forms?09:32
14 compliance?09:2815 A Depending on the it depends on what the09:29	 13 Q Is there a specific position for the person 09:38 14 who has always checked the the forms? 09:32 15 A It's been a secretary or an administrative 09:37
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7 (Pages 22 - 25)

1 A Not exactly. A a standard could become a 10:03	1 subcommittees, the chair and the vice chair standards 10:18
2 code, because 90.1 is a standard and it could be the 10:05	2 committee and the board the board ExO to standards. 10:12
3 code. It depends on whoever is wanting to make the 10:08	3 And then I'm the staff liaison for that group, other 10:18
4 code or make the rule. 10:01	4 staff attend, but they they just talk about the 10:12
5 Q And what does the policy, procedures and 10:04	5 issues about the subcommittees and then, you know, 10:15
6 interpretation subcommittee do? 10:08	6 strategic planning; that type of thing. 10:18
7 A They review proposals for new projects, new 10:09	7 Q So the committee members that are part of the 10:14
8 standards or guideline projects to be developed by 10:04	8 standards committee, are these all ASHRAE employees? 10:18
9 ASHRAE. They are the body that reviews any proposed 10:07	9 A No. 10:11
10 changes to any of the procedures related to standards 10:01	10 Q Are any of them ASHRAE employees? 10:13
11 and interprets the any of our rules. 10:05	11 A No, just me as a staff liaison, and then 10:15
12 And then the other thing is they form 10:01	12 another staff person that does the minutes. 10:18
13 interpretation sub interpretation committees when an 10:04	13 Q So these are are these members of 10:11
14 interpretation request is submitted on a standard that 10:07	14 industry? 10:16
15 we don't have a standing standard project committee 10:09	15 A They're they're balanced as well. The 10:19
16 for. 10:02	16 board has slightly different interest categories that 10:12
17 Q I'm sorry, just to back up a moment. Do you 10:09	17 they use. There are they're members they're 10:15
18 know how it is that standards become codes?10:0319MR. CUNNINGHAM: Object to form.10:00	 18 they are members of ASHRAE, but they're from all over. 10:19 19 MR. CUNNINGHAM: Could I just ask, are 10:13
20 THE WITNESS: It either they're 10:02	20 we talking about the project committee here? 10:14
21 proposed into a code and the code accepts 10:05	21 Are we talking about the executive committee? 10:16
22 them, or a local jurisdiction decides to use 10:07	22 Are we talking about the previous questions? 10:18
23 a standard and that's and use that as 10:02	23 MR. BECKER: The standards committee as 10:19
24 their code. 10:04	24 a whole. 10:10
25 Q (BY MR. BECKER) And when you say "they're 10:08 Page 46	25 MR. CUNNINGHAM: The standards 10:11 Page 48
1 proposed into a code and the code accepts them," do you 10:00	1 committee. 10:12
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13 (Pages 46 - 49)

1 A Yes. 10:16	1 this when we first tried to started trying 10:15
2 Q And are the project committee membership 10:16	2 to schedule my deposition. I'm guessing 10:19
3 memberships balanced based off of those interest 10:11	3 February. 10:11
4 categories? 10:14	4 Q (BY MR. BECKER) And have you reviewed the 10:14
5 A Yes. Whatever interest categories the 10:16	5 topics of examination that's starting on page 4? 10:16
6 project committee has, then they're balanced based on 10:18	6 A Yes. 10:13
7 the number of project committees. That doesn't mean, 10:12	7 Q And you're aware that you are here as a 10:17
8 you know, if there's 30 people and you have five 10:14	8 30(b)(6) designee for ASHRAE with regards to particular 10:19
9 interest categories, there's six in each. It means no 10:17	9 topics of examination? 10:16
10 more than 50 percent in one interest interest 10:14	10 A Yes. 10:17
11 category. 10:17	11 Q And that means that that you are expected 10:17
12 Q So why is it that these people who are not 10:13	12 to prepare and be knowledgeable as to those particular 10:10
13 ASHRAE employees participate in the project committees? 10:10	13 topics, correct? 10:13
14 MR. CUNNINGHAM: Object to form. 10:16	14 A Yes. 10:14
15 THE WITNESS: I would say because either 10:18	15 Q And those topics are, topic number 1, "The 10:16
16 they really like that topic, it may affect 10:10	16 process and activities of developing the works at 10:11
17 you know, it may be because it affects 10:14	17 issue, including participation of government and 10:14
18 something that they do in their business. 10:16	18 private sector personnel in standards development." 10:17
19 They may be in the in the code arena and 10:18	19 A Yes. 10:10
20 they want to make sure it's written so that 10:13	
22 number of reasons why they choose to 10:18	22 Q And have you been using your knowledge of 10:17
23 participate. 10:10	23 that topic in the answers that you had given me earlier 10:19
24 Q (BY MR. BECKER) And why is it that they'd 10:16	24 today concerning the standards committee and project 10:13
25 want to participate for a standard that would be 10:18 Page 50	25 committee? 10:18 Page 52
1 adopted into code? 10:12	1 A Yes. 10:19
2 MR. CUNNINGHAM: Object to form. 10:14	2 Q And have you been using your knowledge with 10:11
2MR. CUNNINGHAM: Object to form.10:143THE WITNESS: My my guess would be10:17	2 Q And have you been using your knowledge with 10:11 3 regards to that topic as it applies to the other 10:13
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14 (Pages 50 - 53)

1 A Do you mean everyone on the roster, or do you 10:42	1 Q And would that have meant that the the 10:58
2 mean just project committee? 10:45	2 records for the 2007 edition of 90.1 would have been 10:52
3 Q For everyone on the roster. 10:40	3 destroyed at the time of the 2010 publishing? 10:59
4 A For yes, for everyone on the roster. 10:44	4 A If they were destroyed, then yes. 10:52
5 Q And so are there people outside of the 10:40	5 Q You had mentioned before the term "continuous 10:59
6 project committee that would be contributing text to 10:43	6 maintenance change." What does that mean? 10:53
7 Standard 90.1 at that time? 10:46	7 A Standard 90.1 is on continuous maintenance, 10:56
8 A Yes. 10:48	8 so anyone at any time can propose a change to the 10:59
9 Q And would all of the people who were 10:40	9 standard. It could be a project committee member or 10:53
10 contributing text to Standard 90.1 at that time be 10:43	10 the public. If it's the public, then there's a 10:56
11 listed on these pages of the roster? 10:46	11 continuous maintenance change proposal form that gets 10:51
12 A No. 10:48	12 submitted. 10:54
13 Q So what other people would have been 10:49	13 Q And similarly, for the continuous maintenance 10:56
14 contributing text to Standard 90.1 at that time? 10:42	14 change proposal forms, would those also have been 10:51
15 A Commenters on draft goes out for comment 10:46	15 destroyed? 10:54
16 and those who submitted a continuous maintenance change 10:40	16 A They could have been destroyed. 10:56
17 proposal. 10:43	17 Q Who would know whether or not these documents 10:52
18 Q And where does excuse me. 10:44	18 for the 2010 prior editions of ASHRAE Standard 90.1 10:55
19Does ASHRAE keep lists of commenters?10:53	19 were or were not destroyed?10:50
20 A We have lists of commenters. For this year, 10:58	20 MR. CUNNINGHAM: I'm going to object 10:54
21 I don't know, because our record retention policy 10:54	21 that the line of questioning about document 10:56
22 wouldn't require us to keep records this far back. 10:56	22 retention policy is outside the scope of the 10:58
23 Q What was the ASHRAE's record retention 10:59	23 30(b)(6) topics. 10:52
24 policy? 10:52	24 You can answer. 10:54
25 A We follow the ANSI policy of keeping records 10:53	25 THE WITNESS: Okay. I would I 10:57
Dage 59	
Page 58	Page 60
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16 (Pages 58 - 61)

	1 A No. 11.07
1 THE WITNESS: To my knowledge, it is 11:01 2 probably something we keep it's a if it 11:04	1 A No. 11:07 2 Q Why is that? 11:07
3 was entered in the database. At the time, we 11:06	3 A They just aren't using it there may have 11:07
4 had the database that tracks them. And 11:09	4 been one way back when they did everything in paper, 11:07
5 provided there's not an issue with the 11:01	5 but we don't use a Task Sheet 9 now. 11:07
6 database, then it would be kept. 11:04	6 (Exhibit 1133 marked for identification.) 11:08
7 Q (BY MR. BECKER) And what database are you 11:05	7 Q (BY MR. BECKER) I'm handing you what's been 11:08
8 referring to? 11:06	8 marked as Exhibit number 1133. This is Bates number 11:08
A We have a continuous maintenance change 11:07	9 ASHRAE0002469. Could you tell me what this document 11:0
0 proposal access database. 11:09	10 is? 11:08
1 Q And do you know when ASHRAE first started 11:02	11 A These are proposals received for continuous 11:08
2 using that database? 11:05	12 maintenance of ASHRAE Standard 90.1 2004 dated as of 11:08
3 A Around 2003. 11:08	13 January 4th, 2005. 11:08
4 Q What kind of information does that database 11:04	14 Q For both Exhibit 1132 and 1133, it appears 11:08
5 contain? 11:07	15 that the dates that the proposals were received 11:08
6 A What you see in this report, which is the 11:07	16 excuse me, let me say that again. 11:08
7 proposer, the number, proposal date, when it was 11:00	17 For Exhibits 1132 and 1133, it appears that 11:08
8 received. And then there there will be a date that 11:03	18 the date of the document in the top right corner is 11:08
isn't shown on here that tells when the committee would 11:07	19 subsequent to the year of the standard itself; is that 11:09
) have responded so that we can close out the proposal. 11:01	20 correct? 11:09
Q And does the database also contain the 11:06	21 A You mean 11:09
2 content of the proposal itself? 11:00	22 Q Let me clarify. For for Exhibit 1132, 11:09
A No. 11:02	23 that exhibit pertains to Standard 90.1 2001, but the 11:09
Q Where would someone find the content of the 11:04	24 document itself is from January 5th, 2004; is that 11:09
5 proposal itself? 11:07	25 correct? 11:09
Page 66	Page
1 A If it was when we were saving 11:09	1 A That's correct. 11:05
2 electronically, then there will be a what we call a 11:03	2 Q And why is that? 11:05
3 task sheet that we save on our network drive where 11:06	3 A That would have been at the one-year mark 11:07
they're saved. And then if not, it's in paper. It 11:09	4 well, they have 13 months to to respond to 11:02
5 would have been sent to Iron Mountain. 11:03	5 continuous maintenance change proposals within a year, 11:05
6 Q And what would be the title of the document 11:06	6 so this would have been printed prior to their January 11:07
7 that would have this one of these proposals in it? 11:09	7 2004 meeting, because we would want to know what the 11:01
A On the network drive? 11:05	8 status of the continuous maintenance change proposals 11:05
Q Yeah. 11:06	9 were at that time. 11:10
MR. CUNNINGHAM: Object to form. 11:09	10 Q The proposals that were reflected here, would 11:11
	11 those be if made effective, would those be made 11:16
1 · ·	
would be the title. 11:05	12 effective in Standard 90.1 2001 or in a later version? 11:15
2 would be the title. 11:05 3 Q (BY MR. BECKER) And what does are there 11:06	13 A A later version. 11:10
2 would be the title. 11:05 3 Q (BY MR. BECKER) And what does are there 11:06 4 other task sheets? 11:03	13AA later version.11:1014QSo the proposals reflected in Exhibit 1132,11:19
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 2 would be the title. 2 Would be the title. 3 Q (BY MR. BECKER) And what does are there 11:06 4 other task sheets? 11:03 5 A Yes. 11:04 6 Q And what are the other task sheets? 11:05 7 A There's a Task Sheet 1 for new projects; Task 11:08 8 Sheet 2 that was membership; Task Sheet 3 is title, 11:02 	13 A A later version. 11:10 14 Q So the proposals reflected in Exhibit 1132, 11:19 15 would those, if they had been enacted, be enacted into 11:13 16 Standard 90.1 2004? 11:18 17 A Yes. 11:10 18 (Exhibit 1134 marked for identification.) 11:12
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18 (Pages 66 - 69)

1 A Yes. 11:12	1 A This is a document to submit a continuous 11:11
2 Q What is the significance of the copyright 11:12	2 maintenance change proposal. 11:16
3 release? 11:12	3 Q Does this document contain a copyright 11:10
4 MR. CUNNINGHAM: Object to form. 11:12	4 release as well? 11:14
5 THE WITNESS: It the significance of 11:12	5 A Yes. 11:15
6 it is when the commenter submits their 11:12	6 Q Could you please mark on the page where the 11:12
7 comments, they are giving ASHRAE the 11:12	7 copyright release is? 11:16
8 nonexclusive rights to use whatever material 11:12	8 (Witness complied with the request of counsel.) 11:13
9 they submit in their comments to change or 11:12	9 A There's two spots. 11:13
10 modify the standard and then ASHRAE owns the 11:12	10 MR. CUNNINGHAM: I'm going to go ahead 11:15
11 copyright, and they don't. 11:12	11 and object again to form here, Matt. 11:19
12 MR. BECKER: I'm sorry, Counsel, will 11:12	12 Q (BY MR. BECKER) And those two spots you've 11:18
13 you mind elaborating on the reason for your 11:12	13 marked with a number 1 and number 2; is that correct? 11:19
14 objection? 11:12	14 A That's correct. 11:12
15 MR. CUNNINGHAM: It calls for a legal 11:12	15 Q Why does ASHRAE use two copyright releases on 11:12
16 conclusion. 11:12	16 this form? 11:19
17 Q (BY MR. BECKER) Why does ASHRAE include the 11:12	2 17 MR. CUNNINGHAM: Object to form. 11:10
18 copyright release in this document? 11:12	18 THE WITNESS: Actually, I think we 11:11
19 MR. CUNNINGHAM: Object to form. 11:12	19 allowed it so they could either sign it and 11:11
20 THE WITNESS: We include it so that we 11:12	20 send it in or they could put an electronic 11:14
21 can include the material in in the 11:12	21 signature in. I just think there's a 11:17
22 document that they're commenting on without 11:12	22 signature line that we missed when we made 11:18
23 having to get copyright permission; because 11:13	23 the form. 11:10
they're giving it, we don't have to go back. 11:13	24 Q (BY MR. BECKER) So this form should have 11:13
25 They're giving it when they sign it. 11:13 Page 70	25 a a signature line below the first copyright 11:14 Page 72
1 Q (BY MR. BECKER) Does ASHRAE believe that it 11:10	1 release, but it does not? 11:10
2 owns the copyright if somebody signs this form? 11:11	2 A Correct. 11:11
3 A Yes. 11:16	3 Q And if this form were printed out and sent to 11:13
4 Q Would ASHRAE accept a form like this if it 11:12	4 ASHRAE, would ASHRAE reject it if someone had not 11:19
5 had not been signed and dated? 11:16	5 signed below the first copyright release? 11:13
6 A No. 11:18	6 A On this one, we would have allowed either the 11:17
7 Q Do you know of any instance in which ASHRAE 11:11	7 electronic signature if they printed it with the 11:10
8 has accepted a form like this if it has not been signed 11:14	8 electronic or if they had signed it, because the 11:11
9 and dated? 11:17	9 language was the same. 11:14
10 A No. 11:18	10 Q Would ASHRAE accept this document if someone 11:19
11 Q Do you have any reason to believe that this 11:11	11 had not typed in their name where it says "I, insert 11:14
12 document produced by ASHRAE is not an authentic 11:13	12 name"? 11:10
13 document? 11:16	13 A If if they did not sign it and did not 11:10
14 A No. 11:16	14 insert their name, we would not accept it. 11:13
15 Q And are you familiar with this document 11:11	15 Q Comparing documents Exhibits 1134 and 1135, 11:17
16 through your work at ASHRAE?11:13	16 is the copyright release in 1134 the same as the 11:12
17 A Yes. 11:16	17 copyright release the first copyright release in 11:10
18 Q Is this one of the documents that you review? 11:19	18 1135? 11:13
19 A Yes. 11:13	19 A There is missing oh, no, I just can't read 11:10
20 (Exhibit 1135 marked for identification.) 11:16	20 right. No, they're the same. 11:17
21 Q (BY MR. BECKER) I'm handing you what has 11:19	21 Q And comparing the first and second copyright 11:12
22 been marked as Exhibit 1135, Bates number 11:12	22 release in 1135, can you say what the differences 11:16
23 ASHRAE0022819. Do you recognize this document? 11:15	23 between those two are? 11:10
24 A Yes. 11:19	24 MR. CUNNINGHAM: I'm just going to 11:11
25 Q And what is this document? 11:19 Page 71	25 object. Matt, I think the document speaks 11:12 Page 7

19 (Pages 70 - 73)

11013.6.11.22211.011.2311.252AYes.11.233is one value dectonic signature, and to 11.1212AYes.11.264other is just a hand -ise handweite11.1311.264releases on Exhibit 1135; is that correct.11.217(East) 11.0511.147January 30.0, 2005 on the back of the document is than 11.268QAThis is an evident on 11.219match of einstandiantic and the instance on a transformer11.301QAThis is on the back of the document?11.2611AYes.11.211QQAThis is the form to submit a purposed change 11.2212QAnd statis this document?11.2114AYes.11.2113AThis is the form to submit a purposed change 11.2211QAAYes.11.2114AYes.11.221AYes.11.221AYes.11.2114AYes.11.2311.2414AYes.11.2114AYes.11.2215THE COURT REPORTER: Can yee on of the 11.2516AThis is the form to submit a purposed change 11.2311.221211.2412	2THE WITNESS: The - the only difference11:113is one we allow electronic signature, and the11:124other is just a hand written11:125signature.11:106Q (BY MR. BECKER) Thank you.11:147(Eshibit 1136 marked for identification.)11:148Q (BY MR. BECKER) Thank you.11:149marked as Eshibit 1136, Bates number ASHRAE0022823. Do 11:141010you recognize this document?11:1011A Yes.11:2112Q And what is this document?11:1313A This's correct.11:2114public record a scond?11:1414public record ascond?11:1414public record ascond?11:1716record ascond?11:1819(Record ascond?)11:1219(Record sken)11:2720THE VIDEOGRAPHER: Going on the record11:2821at 11:2211:2822Q (BY MR. BECKER) Ms. Reiniche, looking again11:2623on - at Exhibit 1136, if you look at the second page11:2624of the exhibit, could you tell me what the significance 11:231225of the date on the second page is?11:2724of the exhibit 1135, is that also11:232or and returning to Exhibit 1135, is that also11:233word, we put a new revision date on a form.11:2340Q (BY MR. BECKER) I'm handing you what's	1:20 n 11:21
3is one we allow electronic signature, and the11:123QAnd which is the same as the copyright11:264deter is just hand - is handwritten11:15ffdetermine11:205signature11:10fffff7(Eshibi 1137)ffffff9onderada is Eshibi 1136, mateck as Eshibi 1136, mateck as Eshibi 1136, mateck as Eshibi 1136, mateck as Eshibi 1138, Bates number11:2712QAnd whit is the -deform to comment on a11:1414point cognitize relation11:2115THE CORR REPORT RE: Can we go of the11:1016receind a second?11:2117THE VIDEOGRAPHEE: Going on the record11:2818at 11:3911:2819or estababili 1137, you to at the second page 11:2811at 11:3011:2719orgeneration in the same two 11:2719orgeneration in the same two 11:2719orgeneration in the same two 11:2820THE VIDEOGRAPHEE: Going on the record21at 11:2821at 11:2821at 11:2821at 11:2821at 11:2922Q24at the same two set of the second page 11:2825at the same two set of the second page 11:2326at the same two set of the second page 11:2327at the same two set of the second page 11:2328q And returning to Eshibit	3is one we allow electronic signature, and the11:124other is just a hand is a handwritten11:155signature.11:106Q(BY MR, BECKER) Thank you.11:117(Eshtibit 1136, Bates number ASHRAE0022823. Do 11:14710you recognize this document?11:1011AYes.11:2112QAnd what is this document?11:1213AThis is the the form to comment on a11:1414public review draft standard guideline or addendum.11:1715THE VOLORT REPORTER: Can we go off the11:1016recess taken.)11:2716AThis is the off or identification.)11:2817THE VIDEOGRAPHER: Going off the record11:2716a this is document?11:271716A This is the form to submit a proposed change11:2018at 11:2.11:282120THE VIDEOGRAPHER: Going off the record11:2821at 11:22.11:2822Q(BY MR. BECKER) Ms. Reiniche, looking again11:2623on - at Exhibit 1136, if you look at the second page11:2224G werd, we ut a new revision date on a form.11:2325of the date on the second page is?11:232QAnd returning to Exhibit 1135, is that also 11:2333word, we ut a new revision date on a form.11:234QQ Mat returning to Exhibit	1:20 n 11:21
4odder is just a hand written11:154releases on Exhibit 1135; is that correct?11:205a ginature.11:105AThat's correct.11:217(EWYME, BECKER)Than handing you what's bear11:217Amary 30th. 2006 on the back of the document; is that 11:2680(EYYME, BECKER)Than handing you what's bear11:2119anakot for schemital?11:21100VAR BECKER)11:2211A yes.11:2112QAnd what is this document?11:2113A This is thethe from to comment on a11:1714Press.11:2615THE CORR REPORTER: Can we go of the11:1716recond a second?11:2117THE VUPEGGRAPHER: Going on the record11:2818athe from to comment on a11:2419recenses that were featured in the previous11:2210recenses that were featured in the previous11:2220OTHE VUPEGGRAPHER: Going on the record11:2821a 11:2211:2322QNut the significance11:2223document?11:2424of the chabit, could you tell me what the significance11:2325document?11:2424of the chabit, could you tell me what the significance11:2425of chabit and the record press?11:2426of a dreaming to Exhibit 113.55, is that also 11:2312	4other is just a hand - is a handwritten11:154releases on Exhibit 1135; is that correct?11:205signature.11:105AThat's correct.11:217(Exhibit 1136 marked for identification.)11:147January 30th, 2006 on the back of the document; is that 11:29marked as Exhibit 1136, Bates number ASHRAE0022823, Do 11:149AThat's correct.11:209marked as Exhibit 1136, Bates number ASHRAE0022823, Do 11:149AThat's correct.11:2110you recognize this document?11:1010(EN MR, BECKER) Ms, Reiniche, I'm handing you what's been1112QAnd what is this document?11:1714ASHRAE0022820, Do you recognize this document?11:2811AYes.11:1611:411Q(BY MR, BECKER) Ms, Reiniche, I'm handing you what's been for the origin the second in the signature.1112QAnd what is this document?11:271214AYes.11:2813AThis is the orn to soubmit a proposed change 11:2813ANach Shith 1137; 11:24121120exhibit, 1137; 11:2414p (BY MR, BECKER) Ms, Reiniche, looking again 11:26233030at Exhibit 1136, if you look at the second page 11:262330at Exhibit 1136, if you look at the second page 11:2623303011:2223or at Exhibit 1136, if you look at the second page in thi 20011:2124AYes. <td>1:20 n 11:21</td>	1:20 n 11:21
5signame11:05A That's correct.11:256Q(WY ME, RECKER) Thankag, yas what's been11:146QQMR RECKER) Thankag, yas what's been11:129maked as Edubit 1136, attaca anaber ASIRRAD02283. Do 11:14119as Carrect?11:209yas recognizes this document?11:1311111111A This is the -the form to comment on a11:1411111112Q And what is this document?11:1111111113A This is the -the form to comment on a11:1411111114It ECORT REPORTER: Can we go of the11:101111111115THE CORT REPORTER: Can we go of the11:20111111111116as Cancel11:2716A This is the form to submit a proposed charge11:2716for cond a second?11:2811QAdd sch is document contain the same two11:2717for decase staka.11:271220Add sch is document contain the same two11:2718at the sch is of an or took at its second page 11:2621A Yes.11:2221at the sch is of an or took at its second page 11:2622QAdd at the bact of 11:2323ord the second page is?11:2312A Yes.11:2424at the sch is of an ord second page is?11:2333A This is a form for commenti?1	5signature.11:105AThat's correct.11:256Q(BY MR, BECKER) Thank you.11:117(Exhibit 1136 marked for identification.)11:147(BY MR, BECKER) The handing you what's been11:129AThat's correct.11:209marked as Exhibit 1136, anskes number ASHRAE0022823. Do 11:1410(BY MR, BECKER) Ms. Reiniche, I'm handing1110you recognize this document?11:1311Q(BY MR, BECKER) Ms. Reiniche, I'm handing1112QAnd what is this document?11:1313AThis is the the form to comment on a11:1413AThis is the the form to comment on a11:1414AYes.11:2615THE COURT REPORTER: Can we go off the11:1015QAnd what is this document?11:2116record a second?11:1718QAnd does this document contain the same two11:2219(Recess taken.)11:271020exhibit 1136, fy ou look at the second page11:2623on at Exhibit 1136, fy ou look at the second page11:2622QAnd the bottom of the page, does this11:2224AYes.11:27122223document show that it was revised on March 9th, 2007?11:2224AYes.11:2222QAnd the bottom of the page, does this11:2225of the exhibit 1136, fy ou look at the second page11:231 <td>n 11:21</td>	n 11:21
60(BY MR. BECKER) Thank you.11:117(Bishih 1136 marked for identification.)11:417(Bishih 1136 marked for identification.)11:419marked as Exhibit 1136, Barts number ASHRAE002323. Do 11:41911A Yes.11:2211A Yes.11:2112Q And what is his document?11:2113A This is ber de form to comment on a11:1714pable review dnf standard guideline or addendam.11:1715record second?11:2416record second?11:2417THE VIDEOGRAPHER: Gaing off the record11:2719or the schedar page in?11:2810(Bishih 1136, Hyou look at the second page in?11:28110(BY MR. BECKER) Massemich, looking again 11:2613or the schabal, codd you elf mow what the significance in?11:2814a That was when we were - we must have made a 11:23224or the schabal, codd you elf mow what the significance in?11:2425or du at mow words or gaine in?11:2326and the bottom of the page, does this11:2227and what is hit about any this se matter.11:2328or du at mow words or during to Exhibit 1135, its that also 11:23229and the bottom of the page, does this document ?11:2429a A Yes.11:2429a A Yes.11:2429a that was new and en ing iff is one 11:2329that	6Q(BY MR, BECKER) Thank you.11:117(Exhibit 1136 marked for identification.)11:148Q(BY MR, BECKER) I'm handing you what's been11:129marked as Exhibit 1136, Bates number ASHRAE0022823. Do 11:149A10you recognize this document?11:101111AYes.11:1212QAnd what is this document?11:1313AThis is the the form to comment on a11:1414public review draft standard guideline or addendum.11:1715THE COURT REPORTER: Can we go off the 11:1015Q16record a second?11:1417THE VIDEOGRAPHER: Going off the record11:1718at 11:29.11:1819(Recess taken.)11:2720THE VIDEOGRAPHER: Going on the record11:2821at 11:22.11:2822Q(BY MR, BECKER) Ms, Reiniche, looking again11:2623on - at Exhibit 1136, if you look at the second page11:2824of the exhibit, could you tell me what the significance11:233word, we put a new revision date on a form.11:234QAnd returning to Exhibit 1135, is that also11:235what "revised 1/30/2006" means at the bottom of that11:234QAnd returning to Exhibit 1134 at the back of 11:235word, we put a new revision date on a form.11:234QAnd returning to Exhibit 1134	
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14Q(BY MR. BECKER) Handing you what's been11:2415marked as Exhibit 1137. This is ASHRAE Bates number11:24160022825. Do you recognize this document?11:2417AYes.11:2418QAnd what is this document?11:2419AThis is a form for commenting on a public11:2420review draft to an ASHRAE standard, guideline or11:2421addendum.11:2422QAnd does this document also contain the same 11:2423copyright release excuse me, the same two copyright11:2424releases that had appeared on the previous exhibit?11:2424releases that had appeared on the previous exhibit?11:24	12 Q Thank you. 11:24 12 guideline project committee, does this copyright 11:20	11:20
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23 copyright release excuse me, the same two copyright 11:2423AIn the third sentence down, it adds, "to any 11:2924 releases that had appeared on the previous exhibit?11:2424contributions I make to documents prepared by or for 11:24		
24 releases that had appeared on the previous exhibit?11:2424 contributions I make to documents prepared by or for11:24		
	121 control of the previous endors 1112.	11:29
Page 75 Page 77		11:29 For 11:24

20 (Pages 74 - 77)

1 then the rest is all the same. 11:22	1 A No. 11:32
2 Q Could you tell me on what date Exhibit 1139 11:21	2 Q Does ASHRAE ordinarily keep a document that 11:38
3 was revised? 11:21	3 would look like this in its redacted form? 11:36
4 A October 2009. 11:23	4 A Actually, I I would correct. If it was 11:30
5 (Exhibit 1140 marked for identification.) 11:31	5 redacted, it was probably because it had contact or 11:32
6 Q (BY MR. BECKER) Handing you what's been 11:35	6 contact information of the individual on here, and that 11:36
7 marked as Exhibit 1140. Do you recognize this 11:35	7 would have been why it would have been redacted. 11:38
8 document? 11:32	8 (Exhibit 1142 marked for identification.) 11:35
9 A Yes. 11:32	9 Q (BY MR. BECKER) I'm handing you what's been 11:34
10 Q Could you tell me what this document is? 11:32	10 marked as Exhibit 1142. This is ASHRAE Bates number 11:35
11 A This is the ASHRAE Standard Guideline Project 11:34	11 0001618. With the exception of the different Bates 11:39
	-
12 Committee Application for Individual Membership. 11:38	12 numbers, does this document appear to you to be 11:33
13 Q And does this Exhibit 1140 include a 11:31	13 identical to the previous exhibit, Exhibit 1141? 11:36
14 copyright release under section 5? 11:34	14 A Yes. 11:32
15 A Yes. 11:36	15 (Exhibit 1143 marked for identification.)11:32
16 Q Could you tell me if this copyright release 11:30	16 Q (BY MR. BECKER) I'm handing you what's been 11:38
17 differs in any way from the copyright release on 11:35	17 marked as Exhibit 1143. Could you tell me what this 11:30
18 Exhibit 1139? 11:30	18 document is? 11:35
19MR. CUNNINGHAM: Object to form.11:33	19 A This is the Form for Continuous Maintenance 11:36
20 THE WITNESS: The only difference is 11:31	20 Change Proposal. 11:39
21 that on form 1139, it says "elected as an 11:34	21 Q And do you recognize this document? 11:30
22 organizational member" versus 1140, which is 11:30	22 A Yes. 11:32
23 "as a member." 11:33	23 Q And could you tell me when this document was 11:37
24 Q (BY MR. BECKER) Are Exhibits 1139 and 11:32	24 last revised? 11:30
25 Exhibits 1140 documents that individuals are required 11:35	25 A January 30th, 2006. 11:31
Page 78	Page 80
1 to fill out in order to obtain membership with ASHRAE? 11:30	1 Q And does this document have the same two 11:37
2 A For project committees, yes. 11:37	2 copyright releases as in Exhibit 1135? 11:37
3 (Exhibit 1141 marked for identification.) 11:30	3 A Yes. 11:37
4 Q (BY MR. BECKER) I'm handing you what's been 11:30	4 (Exhibit 1144 marked for identification.) 11:37
5 marked as Exhibit 1141. Do you recognize this 11:31	5 Q (BY MR. BECKER) I'm handing you what's been 11:38
6 document? 11:36	6 marked as Exhibit 1144. Do you recognize this 11:38
7 A Yes. 11:39	7 document? 11:38
8 Q Could you tell me what this document is? 11:30	8 A Yes. 11:38
9 A This document is language includes our 11:33	9 Q Could you tell me what it is? 11:38
10 copyright information for electronic or or the 11:37	10 A This is the Form for Commenting in a Public 11:38
11 signing. 11:31	11 Review Draft ASHRAE Standard, Guideline or Addendum. 11:38
12 Q Does this document, Exhibit 1141, include the 11:36	12 Q And looking at the second page of this 11:38
13 same two copyright releases that were seen in Exhibit 11:33	13 document, could you tell me the date on which it was 11:38
14 1135? 11:39	14 revised? 11:38
15 MR. CUNNINGHAM: Object to form. 11:38	15 A March 1st, 2004. 11:38
16 THE WITNESS: There's a few "and"s 11:36	16 Q And does this document have the same 11:38
17 missing in the in in 1141 that are in 11:38	17 copyright release as Exhibit 1134? 11:38
18 1135. And in 1141, the signature line is 11:30	18 A Yes. 11:39
19 included, which is not in 1135. But other 11:35	19 (Exhibit 1145 marked for identification.)11:39
20 than that, they're the same. 11:38	20 Q (BY MR. BECKER) Handing you what's been 11:39
21 Q (BY MR. BECKER) Thank you. 11:32	21 marked as Exhibit 1145. This is Bates number 11:39
22 Does this document appear to be redacted to 11:35	22 ASHRAE0001606. Could you do you recognize this 11:39
23 you? 11:38	23 document? 11:39
24 A Yes. 11:38	24 A Yes. 11:39
25 Q Do you know why this document is redacted? 11:39	25 Q Could you tell me what this document is? 11:39
Page 79	Page 81
	<u>I</u>

21 (Pages 78 - 81)

1 A This is the Form for Commenting on a Public 11:39	1 A This is the Form for Commenting on a Public 11:43
2 Review Draft ASHRAE Standard, Guideline or Addendum. 11:32	2 Review Draft ASHRAE Standard, Guideline or Addendum. 11:43
3 Q And could you tell me the date on which this 11:37	3 Q Looking at the second page of this document, 11:43
4 was revised? 11:39	4 could you tell me when this document was revised? 11:43
5 A March 1st, 2004. 11:33	5 A January 30th, 2006. 11:43
6 Q And does this include the same copyright 11:34	6 Q Does this document under section 2, 11:43
7 release that was in the previous exhibit, 1144? 11:36	7 "Copyright Release," have the same two copyright 11:43
8 A Yes. 11:46	8 releases that were in Exhibit 1135? 11:43
9 (Exhibit 1146 marked for identification.) 11:41	9 A In the first paragraph, in in the third 11:44
10 Q (BY MR. BECKER) I'm handing you what's been 11:49	10 line down, instead of saying "the standard," like we 11:44
11 marked as Exhibit 1146. Do you recognize this 11:40	11 see in Exhibit 1135, in Exhibit 1148, it says "this 11:44
	12 standard." 11:44
13 A Yes. 11:44	13 (Exhibit 1149 marked for identification.) 11:44
14 MR. BECKER: And this just for the 11:47	14 Q (BY MR. BECKER) I'm handing you what's been 11:44
15 record, this document is Bates number 11:49	15 marked as Exhibit 1149. Do you recognize this 11:44
16 ASHRAE0001600. 11:41	16 document? 11:44
17 Q (BY MR. BECKER) Could you tell me what this 11:45	17 A Yes. 11:44
18 document is? 11:47	18 Q Could you tell me what this document is? 11:44
19 A This is the Form for Submittal of a Proposed 11:48	19 A This is the Form for Commenting on a Public 11:45
20 Change to ASHRAE Standard Under Continuous Maintenance. 11:41	20 Review Draft, ASHRAE Standard, Guideline or Addendum. 11:4.
21 Q Could you could you tell me the 11:47	21 MR. BECKER: For the record, I'll just 11:45
22 significance of the date in the bottom left-hand 11:49	22 state that this is Bates number 11:45
23 corner? 11:43	23 ASHRAE0001610. 11:45
A That would have been the date it was revised. 11:43	24 Q (BY MR. BECKER) Looking at the back of the 11:45
25 Q Does this document include the same copyright 11:43	25 document, could you tell me the date on which this was 11:45
Page 82	Page 84
1 release under section 1 as was in Exhibit 1134? 11:41	1 revised? 11:45
2 A With the exception of splitting up a 11:41	a h T and anno (
2 A with the exception of splitting up a 11.41	2 A January 30th, 2006. 11:45
3 sentence, it's exactly the same. There's an "and" in 11:41	2AJanuary 30th, 2006.11:453QDoes this document, Exhibit 1149, have the11:45
3 sentence, it's exactly the same. There's an "and" in 11:41	3 Q Does this document, Exhibit 1149, have the 11:45
 3 sentence, it's exactly the same. There's an "and" in 11:41 4 1134 between "proposals" and "I understand" and "I 11:41 	3 Q Does this document, Exhibit 1149, have the 11:45 4 same copyright releases as in the previous exhibit, 11:45
3 sentence, it's exactly the same. There's an "and" in 11:414 1134 between "proposals" and "I understand" and "I 11:415 understand" that is not in 1146.11:42	3QDoes this document, Exhibit 1149, have the11:454same copyright releases as in the previous exhibit,11:4551148?11:45
3 sentence, it's exactly the same. There's an "and" in 11:414 1134 between "proposals" and "I understand" and "I 11:415 understand" that is not in 1146.6 (Exhibit 1147 marked for identification.)11:42	3QDoes this document, Exhibit 1149, have the11:454same copyright releases as in the previous exhibit,11:4551148?11:456AYes.11:45
 3 sentence, it's exactly the same. There's an "and" in 11:41 4 1134 between "proposals" and "I understand" and "I 11:41 5 understand" that is not in 1146. 11:42 6 (Exhibit 1147 marked for identification.) 11:42 7 Q (BY MR. BECKER) I'm handing you what's been 11:42 	3QDoes this document, Exhibit 1149, have the11:454same copyright releases as in the previous exhibit,11:4551148?11:456AYes.11:457(Exhibit 1150 marked for identification.)11:45
 3 sentence, it's exactly the same. There's an "and" in 11:41 4 1134 between "proposals" and "I understand" and "I 11:41 5 understand" that is not in 1146. 11:42 6 (Exhibit 1147 marked for identification.) 11:42 7 Q (BY MR. BECKER) I'm handing you what's been 11:42 8 marked as Exhibit 1147. This is Bates number 11:42 	3QDoes this document, Exhibit 1149, have the11:454same copyright releases as in the previous exhibit,11:4551148?11:456AYes.11:457(Exhibit 1150 marked for identification.)11:458Q(BY MR. BECKER) I'm handing you what's been 11:46
 3 sentence, it's exactly the same. There's an "and" in 11:41 4 1134 between "proposals" and "I understand" and "I 11:41 5 understand" that is not in 1146. 11:42 6 (Exhibit 1147 marked for identification.) 11:42 7 Q (BY MR. BECKER) I'm handing you what's been 11:42 8 marked as Exhibit 1147. This is Bates number 11:42 9 ASHRAE0001604. Do you recognize this document? 11:42 	3QDoes this document, Exhibit 1149, have the11:454same copyright releases as in the previous exhibit,11:4551148?11:456AYes.11:457(Exhibit 1150 marked for identification.)11:458Q(BY MR. BECKER) I'm handing you what's been 11:469marked as Exhibit 1150. This is Bates number11:46
 3 sentence, it's exactly the same. There's an "and" in 11:41 4 1134 between "proposals" and "I understand" and "I 11:41 5 understand" that is not in 1146. 11:42 6 (Exhibit 1147 marked for identification.) 11:42 7 Q (BY MR. BECKER) I'm handing you what's been 11:42 8 marked as Exhibit 1147. This is Bates number 11:42 9 ASHRAE0001604. Do you recognize this document? 11:42 10 A Yes. 11:42 11 Q Could you tell me what this document is? 11:42 	3QDoes this document, Exhibit 1149, have the11:454same copyright releases as in the previous exhibit,11:4551148?11:456AYes.11:457(Exhibit 1150 marked for identification.)11:458Q(BY MR. BECKER) I'm handing you what's been 11:469marked as Exhibit 1150. This is Bates number11:4610ASHRAE0001605. Do you recognize this document?11:46
 3 sentence, it's exactly the same. There's an "and" in 11:41 4 1134 between "proposals" and "I understand" and "I 11:41 5 understand" that is not in 1146. 11:42 6 (Exhibit 1147 marked for identification.) 11:42 7 Q (BY MR. BECKER) I'm handing you what's been 11:42 8 marked as Exhibit 1147. This is Bates number 11:42 9 ASHRAE0001604. Do you recognize this document? 11:42 10 A Yes. 11:42 11 Q Could you tell me what this document is? 11:42 12 A This is a Continuous Maintenance Submittal 11:42 	3QDoes this document, Exhibit 1149, have the11:454same copyright releases as in the previous exhibit,11:4551148?11:456AYes.11:457(Exhibit 1150 marked for identification.)11:458Q(BY MR. BECKER) I'm handing you what's been 11:469marked as Exhibit 1150. This is Bates number11:4610ASHRAE0001605. Do you recognize this document?11:4611AYes.11:46
3 sentence, it's exactly the same. There's an "and" in 11:414 1134 between "proposals" and "I understand" and "I 11:415 understand" that is not in 1146.6 (Exhibit 1147 marked for identification.)7 Q (BY MR. BECKER) I'm handing you what's been 11:428 marked as Exhibit 1147. This is Bates number9 ASHRAE0001604. Do you recognize this document?11:4210 A Yes.11:4211 Q Could you tell me what this document is?11:4212 A This is a Continuous Maintenance Submittal11:42	3QDoes this document, Exhibit 1149, have the11:454same copyright releases as in the previous exhibit,11:4551148?11:456AYes.11:457(Exhibit 1150 marked for identification.)11:458Q(BY MR. BECKER) I'm handing you what's been 11:469marked as Exhibit 1150. This is Bates number11:4610ASHRAE0001605. Do you recognize this document?11:4611AYes.11:4612QAnd could you tell me what this document is?11:46
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22 (Pages 82 - 85)

1 Q (BY MR. BECKER) I'm handing you what has 11:48	1 MR. BECKER: For the record, I'll note 11:57
2 been marked as Exhibit 1151. Do you recognize this 11:40	2 that this is Bates number ASHRAE0001612. 11:58
3 document? 11:42	3 Q (BY MR. BECKER) Are users of the ASHRAE 11:56
4 A Yes. 11:42	4 website required to fill in their name into the box 11:58
5 Q Could you tell me what this document is? 11:43	5 that says "Name of whoever is logged in to comment 11:54
6 A This is an Application for Project Committee 11:45	6 would be entered here"? 11:57
7 Organizational Representative Membership. 11:47	7 MR. CUNNINGHAM: Objection to form. 11:59
8 Q And looking at the bottom left-hand corner, 11:41	8 THE WITNESS: In order to comment, any 11:52
9 could you tell me the date on which this was revised? 11:45	9 member of the public would have to enter 11:55
10 A October 2009. 11:48	10 their name as it would appear above that line 11:58
11 Q Comparing the copyright release excuse me. 11:40	11 and hit "I agree" in order to comment in the 11:50
12 Is there a copyright release under Exhibit 11:45	12 online comment database. 11:54
13 excuse me, section 6 of Exhibit 1151? 11:47	12 Q (BY MR. BECKER) Could you tell me who checks 11:55
14 A Yes. 11:41	14 that box for names? 11:58
14 A res. 11.41 15 Q And comparing that copyright release on 11:43	
16 Exhibit 1151 with the copyright release on 11:47 17 Exhibit 1120 convertellance if they are identical? 11:42	
17 Exhibit 1139, can you tell me if they are identical? 11:42	17 Q If does somebody check whatever names are 11:56
18 A They are identical. 11:41	18 put in there to make sure that they match with the 11:50
19 Q Thank you. 11:46	19 person who's submitting the comments? 11:53
20 (Exhibit 1152 marked for identification.) 11:48	20 A Do you mean can I physically tell if you were 11:58
21 Q (BY MR. BECKER) Handing you Exhibit 1152, 11:41	21 signed in as somebody else and put their name in there? 11:52
22 Bates number ASHRAE0001616. Do you recognize this 11:43	22 Q Yes. 11:56
23 document? 11:49	23AI cannot physically tell that.11:58
24 A Yes. 11:49	24 Q And if if I went on to the ASHRAE website 11:51
25 Q Could you tell me what this document is? 11:43 Page 86	25 and I put in my name as just the letter Z and clicked 11:56 Page 88
1 A This is the ASHRAE Standard Guideline Project 11:44	1 "I agree," would it allow me to proceed? 11:53
2 Committee Application for Individual Membership. 11:47	2 A No. 11:56
3 Q And could you tell me the date on which this 11:56	3 Q And how does it stop me from proceeding? 11:57
4 was revised? 11:57	4 A There is a name where you see "Name of 11:50
5 A October 2009. 11:58	5 whoever is logged in to comment would be entered here," 11:53
6 Q Comparing the excuse me. 11:52	6 the system generates the letters for example, for 11:56
7 Is there a copyright release at section 5 of 11:59	7 mine, it would say Mrs. Stephanie R-E-I-N, is where it 11:51
8 Exhibit 1152? 11:52	8 ends up stop it goes to a certain amount of 11:55
9 A Yes. 11:54	9 characters. That's what I enter there and hit "I 11:58
10 Q Comparing the copyright release on section 5 11:56	10 agree." 11:51
11 of Exhibit 1152 with the copyright release from 11:58	11 Q So it might not allow you to enter your full 11:53
12 Exhibit 1151, could you tell me if there are any 11:52	12 name? 11:56
13 differences between the two? 11:56	13 A Correct. You have to enter whatever it shows 11:56
14 A The difference is on 1151, it's for an 11:55	14 above there, because it's you know, it's got so 11:58
15 organizational member; and 1152, it's a member. 11:59	15 many the coding is such to so many characters. 11:52
16 Q Thank you. 11:56	16 Q And where would it show the person's name? 11:57
17 (Exhibit 1153 marked for identification.) 11:56	17 A Where you see "Name of whoever is logged in 11:59
19 marked as Exhibit 1153. Do you recognize this 11:54 20 document? 11:50	
20 document? 11:50	20 Q Okay. Does this Exhibit 1153 include a 11:56
21 A Yes. 11:51	21 copyright release? 11:56
22 Q Could you tell me what this document is? 11:54	22 A Yes. 11:57
23 A This is how you would enter a comment on the 11:55	23 Q And is that the second paragraph on 11:51
24 online comment database with entering the your name 11:58	24 Exhibit 1153? 11:54
25 into that field and "I agree" in order to go forward. 11:52 Page 87	25 A Yes. 11:56 Page 89
Page 87	Page 89

23 (Pages 86 - 89)

1 Q And does this copyright release on 11:52	1 A No. 11:53
2 Exhibit 1153 appear identical to the second copyright 11:55	2 MR. CUNNINGHAM: Object to the form on 11:55
3 release on Exhibit 1135? 11:50	3 that. 11:56
4 A Other than the fact you can't do the "I, 11:53	4 Q (BY MR. BECKER) Does ASHRAE see a difference 11:5
5 insert name," it starts with "I, hereby," it's the 11:56	5 between copyright releases and copyright assignments? 11:54
6 same. 11:50	6 MR. CUNNINGHAM: Object to the form. 11:57
7 (Exhibit 1154 marked for identification.) 11:53	7 THE WITNESS: No. 11:58
8 Q (BY MR. BECKER) I'm handing you what's been 11:50	8 Q (BY MR. BECKER) Do you see a difference 11:51
9 marked as Exhibit 1154. Do you recognize this 11:50	9 between copyright releases and copyright assignments? 11:52
10 document? 11:54	10 MR. CUNNINGHAM: Object insofar as it's 11:56
11 A Yes. 11:56	11 outside the scope. 11:59
12 MR. BECKER: For the record, this is 11:58	12 THE WITNESS: No. 11:51
13Bates number ASHRAE0022827.11:59	13 Q (BY MR. BECKER) Is there any way in which 11:56
14 Q (BY MR. BECKER) Could you tell me what this 11:53	14 someone who contributed text to Standards 90.1 or to 11:58
15 document is? 11:54	15 the 1993 ASHRAE handbook would have given copyright 12:05
16 A This is the where you would go to log in 11:54	16 rights to ASHRAE, other than through the copyright 12:04
17 at the online comment database, and it shows me as11:5018 being logged in, because my name appears,11:53	
	5
19 Mrs. Stephanie C. R-E-I-N. 11:57	19 THE WITNESS: Do you mean because their 12:08
20 Q And does this document, Exhibit 1154, include 11:59	20 company submitted they took language from 12:01
21 a copyright release? 11:54	21 a different document and put it in there? 12:03
22 A Yes. 11:55	22 Q (BY MR. BECKER) I mean, does ASHRAE believe 12:06
23 Q And is this copyright release identical to 11:56	23 that it owns the copyright in contributions to 12:08
24 the copyright release in Exhibit 1153? 11:58	24 Standard 90.1 or to the 1993 ASHRAE handbook by virtue 12:05
25 A Yes. 11:59 Page 90	25 of any copyright assignments or releases, other than 12:00 Page 92
1 420 50	
1 Q Ms. Reiniche, do you know when this copyright 11:50	1 those that we have discussed today? 12:04
2 release was first added to the ASHRAE website? 11:57	2 A No. 12:08
3 A It would have been when we started the online 11:54	3 Q And does ASHRAE believe that it owns 12:09
4 comment database, which was around 2005 no, I'm 11:56	4 copyright in contributions to Standards 90.1 or to the 12:02
5 sorry, around 2008. 11:57	5 1993 handbook by virtue of any other means, other than 12:06
6 Q And for the online comment database, has it 11:54	6 those copyright releases that we have discussed today? 12:01
7 always required individuals to enter their name and 11:58	7 A No. 12:05
8 click "I agree" 11:53	8 MR. CUNNINGHAM: I'm going to object 12:08
9 A Yes. 11:54	9 insofar as the last few questions called for 12:09
	9 Insolal as the last lew questions called for 12.09
10 Q in order to gain access? 11:55	10 legal conclusions. 12:01
	-
11 Ms. Reiniche, I will represent to you that we 11:59	10legal conclusions.12:0111MR. BECKER: I think that we can stop12:01
11Ms. Reiniche, I will represent to you that we 11:5912 have now produced before you as exhibits all of the11:51	10legal conclusions.12:0111MR. BECKER: I think that we can stop12:0112for lunch here, if that works for the rest of12:03
11Ms. Reiniche, I will represent to you that we 11:5912have now produced before you as exhibits all of the 11:5113blank copyright releases that ASHRAE has produced to 11:55	10legal conclusions.12:0111MR. BECKER: I think that we can stop12:0112for lunch here, if that works for the rest of12:0313you.12:05
11Ms. Reiniche, I will represent to you that we 11:5912have now produced before you as exhibits all of the 11:5113blank copyright releases that ASHRAE has produced to 11:5514Public Resource through discovery.11:50	10legal conclusions.12:0111MR. BECKER: I think that we can stop12:0112for lunch here, if that works for the rest of12:0313you.12:0514THE VIDEOGRAPHER: Going off the record12:06
11Ms. Reiniche, I will represent to you that we 11:5912have now produced before you as exhibits all of the 11:5113blank copyright releases that ASHRAE has produced to 11:5514Public Resource through discovery. 11:5015Are you aware of any other copyright releases 11:53	10legal conclusions.12:0111MR. BECKER: I think that we can stop12:0112for lunch here, if that works for the rest of12:0313you.12:0514THE VIDEOGRAPHER: Going off the record12:0615at 12:01.12:07
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10 A This is an Application for Membership on 13:09	10 A It would have when it was started. The 13:02
11 ASHRAE Standard or Guideline Project Committee. 13:01	11 difference there's a little difference now because 13:04
12 Q And can you tell me if this document contains 13:03	12 it's on continuous maintenance. 13:06
13 a copyright assignment? 13:06	13 Q And what what does that difference mean? 13:08
14AYes, under number 7.13:08	14 A The difference is the membership is on a 13:00
15 Q Okay. And could you tell me if after seeing 13:09	15 four-year rotating cycle, so one basically, roughly 13:04
16 this document if that changes any of your answers 13:01	16 one-third of the committee would roll off every four 13:08
17 earlier today? 13:05	17 years, so they're not everyone is not coming off at 13:01
17 earlier loday : 13.05 18 A No, it does not. 13:05	18 the same time. And new members will be added, so 13:04
	19 they're added continuously, typically once a year. 13:07
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21 high level how ASHRAE standard standards are 13:00	21 their addenda are issued to go out for public review 13:07
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13 working on drafting the document. Then they would 13:00	13 Q How are ASHRAE employees involved in the 13:01
14 approve it for public review. And then depending on 13:04	14 creation and maintenance of ASHRAE Standard 90.1? 13:05
15 what type of committee, would dictate how much more 13:08	15 A In the are you talking from now or are you 13:01
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18 out for public review. It goes out for comment. 13:01	18 until now. 13:09
19 The committee reviews all the comments, 13:05	19 A So when the title, purpose and scope would 13:01
20 responds to all the commenters. And then the 13:07	20 have been proposed, a staff member would would 13:03
21 commenters have to indicate their resolution status. 13:00	21 review that to make sure it's in the correct format 13:05
22 And then the committee needs to decide whether or not 13:03	22 and, if there is some questions, would actually send it 13:09
23 changes need to be made to the standard to the 13:06	23 back to whoever had proposed it to make to correct 13:01
24 document based on the comments received, or if not 13:09	24 it or say if they're okay, if we met their intent, and 13:05
25 if not, it goes for they'll approve it for 13:02	25 then send it forward to it probably when 19 13:09
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25 (Pages 94 - 97)

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25 (Pages 94 - 97)

1 90.1 was developed in, I think, 1975. They probably 13:05	1 Q (BY MR. BECKER) And by "the codes," are you 13:18
2 didn't have all the subcommittees that we have now, but 13:01	2 referring to the standards that have been enacted into 13:19
3 would have went through the approving bodies up through 13:04	3 regulation? 13:14
4 the board that way. 13:07	4 A That and and the international codes, the 13:14
5 Q And would there have been a project committee 13:07	5 codes spelled by NFPA, IAPMO. 13:19
6 as well for for the original 90.1? 13:09	6 Q Are there any other reasons why why 13:13
7 A Yes. 13:01	7 individuals who are not employees of ASHRAE participate 13:16
8 Q And during that process, did staff members 13:09	8 in the ASHRAE development standard development 13:19
9 draft any of the text for 90.1? 13:15	9 process? 13:13
10 A From the beginning? 13:10	10 MR. CUNNINGHAM: Object to form. 13:14
11 Q Yeah. 13:12	11 THE WITNESS: I'm sure there are. I 13:15
12 A Not unless they were making the edits to 13:13	12 just that's not a question I ask when 13:16
13 because of conformity and or conflicts or things 13:16	13 people apply for membership. 13:19
14 like that. 13:19	14 Q (BY MR. BECKER) Does ASHRAE draw draft 13:11
15 Q And would staff members have contributed any 13:12	15 model laws or ordinances? 13:14
16 text to subsequent versions of 90.1? 13:18	16 A Where we would start with the drafting for 13:16
17 A In the same way, either in the discussions, 13:10	17 the law, is that what you mean? 13:11
18 if there's a conflict or stuff doesn't or through 13:13	18 Q Does ASHRAE oversee the drafting of model 13:12
19 the editing and review of the material. 13:17	19 laws and ordinances? 13:16
20 Q And does ASHRAE have any record of that? 13:12	20 A We submit comments on things that are coming 13:18
21 A If it was done it would have been done via 13:17	21 out through through through the through 13:10
22 email, at the time email started. 90.1 started before 13:10	22 Congress or that have been posted in the Federal 13:12
23 the Internet, so if the if if the records still 13:15	23 Register; things like that. 13:15
24 existed, it would have been in paper format. 13:10	24 Q And what's the purpose of submitting comments 13:16
25 Q What is ASHRAE's purpose in creating these 13:11	25 in for things that are coming out in legislation and 13:19
Page 98	Page 100
1 standards? 13:14	1 regulation as you're describing? 13:11
1 standards?13:142 A It's to the purpose is to advance the13:16	1 regulation as you're describing?13:112AThe purpose is to to typically, you13:14
2 A It's to the purpose is to advance the 13:16	2 A The purpose is to to typically, you 13:14
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1 THE WITNESS: I'm not sure what you 13:11	1 the next number for a standard. There are a couple 13:19
2 mean. 13:12	2 when they're tied together; for example, 90.1 has a 13:19
3 Q (BY MR. BECKER) Okay. Just a moment ago, 13:13	3 90.2 and a 90.4, because they cover it's energy 13:19
4 you said the purpose is to "typically, you want 13:16	4 efficiency, but they cover a certain building type. 13:19
5 stuff that's been done through consensus process and 13:10	5 Q And when referring to these standards, if 13:19
6 has the expertise, so that may be a reason." So what 13:13	6 they were referred to in, say, regulation, would it 13:19
7 did you mean by "has expertise" there? 13:18	7 need to say ASHRAE 90.1 or could the regulation simply 13:19
8 A So if you're writing, for example, something 13:12	8 say 90.1 and would people know what that was referring 13:19
9 on how to create a widget, you want the people that 13:14	9 to? 13:19
10 know how to create a widget, the information coming 13:18	10 MR. CUNNINGHAM: Object to the form. 13:19
11 from that versus someone who has in legislation may 13:11	11 MR. FEE: Same objection. 13:19
12 have a marketing degree that doesn't understand how to 13:16	12 THE WITNESS: If you're within ASHRAE, 13:19
13 create that widget. 13:18	13 you will know ASHRAE 90.1. If you just said 13:19
14 Q And so for air-conditioning or heating, you 13:19	14 90.1, I would probably want you to say 13:19
15 would want somebody who has expertise in that area, 13:13	15 ANSI/ASHRAE Standard 90.1 and the year, so 13:19
16 rather than necessarily a legislator or a regulator who 13:17	16 you know which document they're talking 13:19
17 doesn't have expertise in that area; is that correct? 13:11	17 about. 13:19
18 A We would want the information to come through 13:15	18 Q (BY MR. BECKER) Would that be the correct 13:19
19 stuff that had been done by the expert to be reflected, 13:17	19 way to cite the ASHRAE 90.1 standard? 13:19
20 that would be correct. 13:11	20 MR. FEE: Objection, form. 13:20
21 Q And why is that important to have it come 13:12	21 THE WITNESS: I would include the title. 13:20
22 from an expert? 13:14	22 The first reference you make as well still 13:20
23 A Because they're the ones that understand how 13:15	23 makes it clear. 13:20
24 to make that product or how to construct that building 13:17	24 Q (BY MR. BECKER) Yeah. So people should say 13:20
25 or how to make something more energy efficient; that 13:10	25 ANSI/ASHRAE Standard 90.1? 13:20
Page 102	Page 104
1 type of thing 12.12	
1 type of thing. 13:13	1 MR. FEE: Same objection. 13:20
2 Q Is there technical expertise that's necessary 13:14	1MR. FEE: Same objection.13:202THE WITNESS: They should say13:20
2 Q Is there technical expertise that's necessary 13:14	2 THE WITNESS: They should say 13:20
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27 (Pages 102 - 105)

1 And if you what to Euclided 1151 already 12:22	1 with the Department of Energy with somi-to-departies 12.24
1And if you refer to Exhibit 1151, please.13:222AOkay.13:23	1 with the Department of Energy with senior leadership13:242 within ASHRAE.13:29
3 Q This also has, under section 5, a listing of 13:23	3 And document 1157 appears to be a draft, 13:22
4 check boxes for interest categories; is that correct? 13:23	4 because since it's not signed, I can't say it's the 13:21
5 A That's correct. 13:23	5 official one, but a Draft Memorandum of Understanding 13:24
6 Q And for SSPC 90.1, those categories include 13:23	6 Between the Department of Energy and ASHRAE. 13:27
7 compliance, designer, general interest, industry, user 13:23	7 Q And does it appear to you that this draft, 13:22
8 and utility; is that correct? 13:23	8 the Exhibit 1157, was the attachment to Exhibit 1156? 13:20
9 A That's correct. 13:23	9 A Well, I would say it probably is the exhibit, 13:20
10 Q And if you turn to the next page, Bates 13:23	10 but since the document doesn't have a a thing that 13:24
11 number ASHRAE0001614, that includes a the13:23	11 says DOEMOU.doc on it, I would have to assume that it 13:29
12 definitions of these interest categories; is that 13:23	12 is the same one. 13:25
13 correct? 13:23	13 Q I'll I'll represent that that it is 13:25
14 A That's correct. 13:23	14 the the attachment. 13:27
15 Q And for compliance, would that category 13:23	15 Could you tell me what what is the purpose 13:22
16 include regulators? 13:23	16 of the Department of Energy Memorandum of Understanding 13:24
17 A If you if you include them as federal 13:24	17 with ASHRAE? 13:20
18 officials, then yes.13:2419 Q And who makes the determination for these13:24	18 A Its its basic purpose is to talk about 13:21 19 ways that we're going to work together or towards 13:24
20 particular interest categories? 13:24	19 ways that we're going to work together or towards13:2420 goals.13:28
21 A Do you mean who decides which interest 13:24	21 Q And does ASHRAE have a history of working 13:25
22 category a person belongs in? 13:24	22 together with the Department of Energy? 13:27
23 Q Yes. 13:24	23 A Yes. 13:21
24 A The applicant suggests which interest 13:24	24 Q How long has ASHRAE been working with the 13:21
25 category they belong in, then the chair of the of 13:24	25 Department of Energy? 13:27
Page 106	Page 108
1 the project committee will review that information, 13:23	1 MR. CUNNINGHAM: Object to the form. 13:22
2 look at all their applicable paperwork, and then decide 13:26	2 THE WITNESS: I would probably say since 13:22
3 if that's correct. 13:29	3 at least 90.1 has been as part of adopted 13:24
4 They may say no and put them in a different 13:21	4 into EPAct as the minimum energy efficiency 13:26
5 interest category. And then SPLS will look at that 13:24	5 for commercial buildings. 13:21
6 recommendation, and they could look at the same 13:20	6 Q (BY MR. BECKER) Do you have any idea when 13:23
7 paperwork and determine that they're still not in the 13:22 8 correct interest category and move them into a 13:26	7 approximately when that would have been? 13:24 8 A I would I want to say '99, but I'm I 13:32
8 correct interest category and move them into a 13:26 9 different one. 13:28	8 A I would I want to say '99, but I'm I 13:32 9 need to check. 13:36
10 Q And so has it happened that people have been 13:28	10 Q What's the the what what is the $13:38$
11 moved from one interest category to a different one? 13:20	11 purpose of ASHRAE's work with the Department of Energy? 13:33
12 A Yes. 13:27	12 MR. CUNNINGHAM: Object to the form. 13:32
13 (Exhibit 1156 and Exhibit 1157 marked for 13:28	13 THE WITNESS: To to advance the 13:38
14 identification.) 13:21	14 mission of ASHRAE, which is, you know, 13:30
15 Q (BY MR. BECKER) I'd like to hand you what's 13:21	15 advance the art of building sciences. 13:32
16 been marked as 1 Exhibits 1156 and Exhibits 1157. 13:23	16 Q (BY MR. BECKER) And for for Exhibit 13:37
17 Exhibit 1156 is Bates number ASHRAE0026227. And then 13:27	17 ASHRAE excuse me, Exhibit 1156, you're listed among 13:39
18 Exhibit 1157 is Bates number ASHRAE0026229.13:23	18 the recipients for this email; is that correct? 13:34
19Do you recognize these documents,13:24	19 A That's correct. 13:38
20 Ms. Reiniche? 13:26	20 Q And you're listed among the recipients for 13:39
21 A Yes. 13:27	21 the the email that's further down in the chain in 13:32
22 Q And could you tell me what these documents 13:21	22 on that exhibit; is that correct? 13:38
23 are? 13:23	23 A That's correct. 13:39
24 A Document 1156 is an email conversation 13:26	24 Q On Exhibit 1157, section 2, it refers to 13:38
25 regarding a meeting that's that was going to occur 13:21 Page 107	25 promoting and supporting implementation of ASHRAE 13:34 Page 109
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28 (Pages 106 - 109)

1 standards through training programs, including13:372 self-directed learning, building code interaction and13:30	1 the Department of Energy?13:312ANo.13:32
3 ASHRAE chapter oriented training. 13:33	3 Q And section 10 refers to "Advancing and 13:34
4 What is the Department of Energy's role in 13:36	4 supporting the professional development of DOE 13:36
5 that? 13:38	5 personnel by facilitating membership, attendance, and 13:39
6 A They Department of Energy provides 13:39	6 active participation at the local and society levels of 13:33
7 training not only ASHRAE, but other code bodies' codes, 13:33	
	7 ASHRAE, especially as a member of technical committees 13:37 8 and standard project committees, and by providing a 13:30
8 so it would be supported through software development, 13:30	
9 maybe at the DOE level, they give trainings on what's 13:35	9 venue for publication of research and practice." 13:33
10 in 90.1; things like that. 13:30	10 What kind of publication is this referring 13:36
11 Q Does the Department of Energy provide funding 13:33	11 to? 13:37
12 to ASHRAE? 13:37	12 A They're talking about research publication. 13:31
13 A No. 13:37	13 If the DOE does research, they're publishing it 13:34
14 Q Does the Department of Energy provide any 13:30	14 somewhere. It's not referring to standards. 13:37
15 funds to ASHRAE? 13:34	15QDoes ASHRAE publish DOE research?13:30
16 A I suppose if someone is a a member and the 13:38	16 A Not that I'm aware of. 13:36
17 Department of Energy pays their membership fees to 13:32	17 Q With regards to section 13, do you know what 13:32
18 ASHRAE to be a member of ASHRAE, then yes, but it goes 13:34	
19 to membership. 13:37	19 design features? 13:35
20 Q On the second page of Exhibit 1157, 13:36	20 A No. 13:30
21 subsection 5 says, "Cooperating in promoting of 13:32	21 Q Do you know what under under section 13:34
22 ANSI/ASHRAE standards adoption in the International 13:36	22 14, the DOE Energy Efficient Building Systems Regional 13:38
23 Standards Organization (ISO) standards." 13:39	23 Innovation Cluster Initiative is? 13:35
24 What is that referring to? 13:32	A I don't think that exists anymore, but 13:30
25 A That must have been that would have been a 13:35	25 there's been a collaborative where they've worked 13:32
Page 110	Page 112
1 new thing added. The Department of Energy hasn't done 13:37	1 together, and they just they talk about research and 13:34
2 anything that I'm aware of to promote the adoption of 13:30	2 things like that. 13:37
3 ASHRAE ANSI/ASHRAE standards in ISO. 13:32	3 Q Was the Memorandum of Understanding Between 13:31
4 Q And for section 8, where it refers to 13:38	4 the DOE and ASHRAE, Exhibit 1157, eventually signed by 13:34
5 "Cooperating and promotion of ANSI/ASHRAE standards 13:30	5 both ASHRAE and the Department of Energy? 13:34
6 adoption in building codes," what does that refer to? 13:36	6 A I need to go back and check to see if it was 13:37
7 A That could be supporting proposals that would 13:33	7 signed. 13:30
8 have been submitted to adopt 90.1 in in the 13:39	8 Q How would you characterize the relationship 13:32
9 international code, because that's the federal minimum, 13:33	9 between the Department of Energy and ASHRAE? 13:34
10 and they would have provided supporting testimony, 13:37	10 A I mean, they work we work together. 13:32
11 probably. 13:30	11 That's probably on not all not all of these 13:35
12 Q When you say "they would have provided 13:31	12 projects, but I mean some things. 13:30
13 supporting testimony, probably," is that the Department 13:33	13 Q You mentioned that someone from the 13:30
14 of Energy that would provide that? 13:36	14 Department of Energy would testify on behalf of ASHRAE 13:33
15 A A a staff member from the Department of 13:37	15 in terms of getting the Standard 90.1 adopted as a 13:38
16 Energy. 13:30	16 building code. How does ASHRAE benefit from having 13:38
17 Q Okay. Are there any other ways that ASHRAE, 13:31	17 90.1 endorsed by the DOE? 13:32
18 ANSI and the Department of Energy have cooperated in 13:39	18 MR. CUNNINGHAM: Object to the 13:35
19 promoting these standards adoption in building codes? 13:33	19 characterization of prior testimony. 13:36
20 A I'm not aware of ANSI promoting standards 13:30	20 THE WITNESS: They don't testify on 13:30
21 adoption in building codes, other than it's an 13:34	21 behalf of ASHRAE. They testify on behalf of 13:31
22 ANSI/ASHRAE standard going through their process. They 13:39	
23 don't go to building codes. I can't think of anything 13:31	23 Q (BY MR. BECKER) Excuse me. 13:35
24 else with the Department of Energy. 13:36	24 A So the benefit is then the IECC and 90.1 can 13:36
25 Q Anything else with regards to just ASHRAE and 13:38	25 be the same. So it's a it's the benefit to having 13:35
Page 111	Page 113

29 (Pages 110 - 113)

1 a one code. 13:39	1 within ASHRAE? 13:43
2 Q And are the IECC and Standard 90.1 the same? 13:32	2 A Yes. 13:43
3 A They are not exactly the same. 13:36	3 Q And is that located in Washington, D.C.? 13:43
4 Q And how do they differ? 13:39	4 A Yes. 13:43
5 A I would have to look at the versions and the 13:32	5 Q And what is why is it that ASHRAE has a 13:43
6 comparisons. In some instances, 90.1 would be more 13:35	6 separate department for government affairs that's 13:44
7 stringent; in other, IECC. 13:30	7 located in Washington, D.C.? 13:44
8 Q On balance, would you characterize the IECC 13:30	8 A So they can it's easier to talk to people 13:44
9 as being more stringent than ASHRAE 90.1 or vice versa? 13:34	9 on the hill. It's been there as long as I've been 13:44
10 A They have a different process. The IECC, 13:41	10 there. 13:44
11 while it's a consensus process, is not an ANSI 13:45	11 MR. BECKER: All right. Let's take a 13:44
12 consensus process, so it's comparing apples to oranges. 13:49	12 break. 13:44
13 Q What does ASHRAE do to educate governments 13:46	13 THE VIDEOGRAPHER: Going off the record 13:44
14 and government officials about its work? 13:49	14 at 13:44. 13:44
15 A It has a staff person and/or leadership talk 13:42	15 (Recess taken.) 13:53
16 to the staff on the hill about what our process is, 13:49	16THE VIDEOGRAPHER: Going on the record13:5617at 13:56.13:56
17 what standards we have, certification programs, classes13:4418 and things like that.13:44	 at 13:56. 13:56 Q (BY MR. BECKER) Ms. Reiniche, are you aware 13:56
	19 if DOE employees are on the 90.1 policy committee? 13:56
19QAnd are there particular staff people who13:4520talk to staff members on the hill?13:47	20 A 90.1 policy committee? You mean on the 13:56
20 tark to start memoers on the min : 13:47 21 A Yes. 13:40	21 project committee? 13:56
22 Q And what individuals are these? 13:41	22 Q Project committee, excuse me. 13:56
23 A Mark Ames and Doug Read. And Jeff Littleton 13:45	23 A Yes. 13:56
24 might talk to some, too. 13:49	24 Q They are? 13:56
25 Q And you say ASHRAE has leadership that talks 13:49	25 A There is a staff person on there, yes. 13:56
Page 114	Page 116
1 to staff on the hill. Is that Jeff Littleton? 13:42	1 Q And have DOE employees been on the 90.1 13:53
2 A The it it could be Jeff, it could be 13:45	2 project committee committee in the past? 13:57
3 whoever is the president for that given given 13:40	3 A Yes. 13:59
4 society year or vice president that society year. It 13:43	4 Q Okay. And so DOE employees provide they 13:50
5 depends on the year, it depends on who they're talking 13:47	5 contribute to the development of 90.1; is that correct? 13:50
6 to. 13:42	6 MR. FEE: Objection to form. 13:54
7 Q And what are Mr. Ames' and Mr. Read's 13:42	7 THE WITNESS: They participate in the 13:55
8 positions at ASHRAE? 13:47	8 process. I'm not aware of any draft 13:57
9 A Well, Mr Mark's title is senior manager 13:49	9 language. 13:50
10 of government affairs. Doug's title was director. He 13:46	10 (Exhibit 1158 marked for identification.)13:51
11 has retired. 13:43	11 Q (BY MR. BECKER) Ms. Reiniche, I'm handing 13:52
12 Q And was was Doug's Doug Read's title 13:46	12 you what's been marked as Exhibit 1158. This is a 13:53
13 just director or director of government affairs? 13:49	13 document with Bates number ASHRAE0005856. It's labeled 13:50
14 A Director of government affairs. 13:42	14 "Marketing Task Force Report." 13:58
15 Q Are there other employees of ASHRAE who work 13:48	15 A Okay. 13:50
16 with or who did work with Mr. Ames and Mr. Read on 13:43	16 Q Are you familiar with this document, 13:53
17 government affairs? 13:48	17 Ms. Reiniche? 13:55
18 A They have a secretary or an administrative 13:41	18 A Yes. 13:59 10 O Could you tall me what this document is? 12:50
19 assistant that works there. She doesn't talk to people 13:46	19 Q Could you tell me what this document is? 13:50
20 on the hill. And they have a new person there, Jim 13:48	20 A This is a document that would have been 13:53
21 Scarborough. He deals with local. 13:42 22 Q. Is that a local government that he works. 13:40	21 presented to the project committee on priorities on 13:54
22 Q Is that a local government that he works 13:40 23 deals with? 13:43	 22 trying to get things out in the marketplace. 13:56 23 Q And could you tell me what do you know 13:53
23 deals with?13:4324AYeah, the grassroots chapters within ASHRAE.13:44	25 Q And could you ten me what do you know 15:55 24 what Chris Mathis's position is at ASHRAE? 13:56
25 Q So is government affairs its own department 13:49	25 A He is not a staff member at ASHRAE. 13:50
Page 115	Page 117
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30 (Pages 114 - 117)

1 what portion of 90.1 it was commented on or, you know, 14:11	1 Q And is that are you one of the recipients 14:12
2 how it was developed, that type of thing. 14:16	2 of this email? 14:17
3 Q And then two pages later on ASHRAE0003506, it 14:14	3 A Yes. 14:19
4 then has "Recommendations," and then parentheses 14:10	4 Q And what is this email? 14:14
5 "repeated." And the first three recommendations are 14:14	5 A This is an email on having a discussion about 14:16
6 "Make it free, make it beautiful, and make it 14:17	6 DOE comparing the IECC and 90.1 as equivalent. 14:14
7 electronic." 14:10	7 Q At the bottom of near the bottom of the 14:18
8 Do you understand this as referring to ASHRAE 14:15	8 page, Ryan Colker writes, "Folks, we are seeing some 14:13
9 90.1? 14:17	9 indications from DOE that they are beginning to see the 14:18
10 A Yes. 14:17	10 IECC and 90.1 as equivalent (i.e., states can be in 14:11
11 Q Three pages later on ASHRAE0003509, it says, 14:17	11 compliance if they adopt the IECC without the reference 14:11
12 "Paradigm Shift Issues." And then it says, "Decide if 14:15	12 to 90.1.) As you can guess, this could have 14:14
13 we want to continue to live in this code minimum 14:19	13 significant impact on the future of 90.1." 14:10
14 world." And "code minimum" is underlined. 14:12	14 What did Mr. Colker mean by that? 14:17
15 Do you know what this is referring to with 14:16	15 MR. CUNNINGHAM: Object to form. 14:10
16 the term "code minimum world"? 14:18	16 THE WITNESS: That he's concerned that 14:13
17 A That means, you know, a minimum level for 14:15	17 if it's found to be equivalent, that it could 14:17
18 your the development of in 90.1, energy 14:17	18 mean that the IECC would be referenced in 14:19
19 efficiency, or do you want to go beyond the code. 14:12	19 EPAct instead of 90.1. 14:13
20 Q I'm sorry, what do you mean by "go beyond the 14:14	20 Q (BY MR. BECKER) And who is Ryan Colker? 14:17
21 code"? 14:17	21 A Well, at that time, he was the manager of 14:16
22 A Maybe towards the towards the development 14:18	22 government affairs for ASHRAE. 14:18
23 of green standards or green codes. 14:10	23 Q Do you know if Mr. Colker is still at ASHRAE? 14:17
24 Q And how do green standards and green codes 14:14	24 A He is not. 14:20
25 differ from Standard 90.1? 14:16	25 Q Do you know when he left ASHRAE? 14:20
Page 126	Page 128
1 A Green codes and green standards typically are 14:14	1 A I want to say sometime in 2010. 14:25
2 not cost cost cost justified, where you can 14:16	2 Q And Doug Read responded to Ryan Colker by 14:25
3 propose doing some technology technological thing 14:12	3 saying, "I echo Ryan's concern. I suggest we take a 14:21
4 that's expensive that, you know, a normal building 14:16	4 stance and clearly delineate the differences and 14:25
5 person wouldn't want to put you know, building owner 14:11	5 differentiate ourselves from the ICEC. Doug." 14:28
6 wouldn't want to put in their building versus a 14:14	6 Did do you think that Mr. Read meant the 14:25
7 minimum, which is not only is it energy efficient, but 14:18	7 IECC? 14:28
8 it's cost cost effective. 14:11	8 A Yes. 14:20
9 THE COURT REPORTER: A building owner 14:12	9 Q And has ASHRAE taken a stance and clearly 14:22
10 would want to put in their building? 14:13	10 delineated the differences between ASHRAE Standard 90.1 14:28
11 THE WITNESS: Would not want to put in 14:17	11 and the IECC? 14:24
12 their building. 14:17	12 A We have not done a comparison between the two 14:27
13 Q (BY MR. BECKER) At the bottom of that page, 14:17	13 line for line, no. 14:23
14 it says, "How long will we have our EPAct advantage?" 14:18	14 Q Was that what ASHRAE was considering doing, 14:26
15 What is ASHRAE's EPAct advantage? 14:12	15 was doing a line-for-line comparison between the IECC 14:29
16 A That were referenced in the EPAct over 14:17	16 and ASHRAE Standard 90.1? 14:25
17 another minimum energy efficient commercial building 14:12	17 A They discussed it. 14:27
18 code. 14:15	18 Q Has ASHRAE done anything else to 14:20
19 (Exhibit 1160 marked for identification.) 14:13	19 differentiate Standard 90.1 from the IECC in the minds 14:25
20 Q (BY MR. BECKER) I'm handing you what's been 14:13	20 of the public? 14:22
21 marked as Exhibit 1160. This is Bates number 14:14	21 MR. CUNNINGHAM: Object to the form. 14:24
22 ASHRAE0025561. 14:10	22 THE WITNESS: I am not aware we've done 14:28
23 A Okay. 14:15	23 anything in the eyes of the public. We've 14:21
24 Q Do you recognize this document, Ms. Reiniche? 14:10	
	24 probably had discussions where we pointed out 14.23
25 A Yes. 14.16	 probably had discussions where we pointed out 14:23 the difference between the processes that are 14:27
25 A Yes. 14:16 Page 127	 probably had discussions where we pointed out 14:23 the difference between the processes that are 14:27 Page 129

33 (Pages 126 - 129)

1 used to develop the two documents, but it's 14:29	1 MR. BECKER: It has not been asked. 14:27
2 not been, like, you know, a press release or 14:21	2 MR. CUNNINGHAM: Okay. I are you 14:27
3 something like that. 14:25	3 is your position here that someone who, by 14:27
4 Q (BY MR. BECKER) Was ASHRAE concerned that if 14:2:	4 virtue of being on one of the committees, 14:27
5 the IECC and ASHRAE's Standard 90.1 were seen as 14:20	5 essentially speaks for ASHRAE, such that you 14:27
6 equivalent, it would mean that there would be less 14:25	6 can ask Ms. Reiniche to interpret their 14:27
7 incorporation of standard ASHRAE Standard 90.1 into 14:20	7 their documents? 14:27
8 laws and regulations throughout the United States? 14:26	8 MR. BECKER: Well, if Ms. Reiniche has 14:27
9 A It would depend on if the EPAct changed. 14:23	9 an understanding of what this might mean, 14:27
10 If if the reference changed. That's possible. 14:26	10 particularly because of her senior role with 14:27
11 Q Would that mean that if if the EPAct 14:20	11 regards to the development of these standards 14:27
12 changed 14:23	12 and so forth, then I would hope that 14:28
13 A If the reference in the EPAct was changed 14:23	13 Ms. Reiniche can provide that information. 14:28
14 from 90.1 to the IECC. 14:26	14 I think that a document such as this 14:28
15 Q Then that would mean there would be less 14:22	15 discussing ASHRAE 90.1 2010 falls well within 14:28
16 adoption of Standard 90.1 into the laws and regulations 14:25	16 topic number 1 that she's been designated on. 14:28
17 of jurisdictions in the United States? 14:20	17 Q (BY MR. BECKER) I'm sorry, Ms. Reiniche. 14:28
18 A It's possible, yes. 14:24	18 Let's see. I asked why do you think there was a 14:28
19 Q And was ASHRAE concerned about that? 14:26	19 distinction between this growing period and mature 14:28
20 A If if that changed, they were. They were 14:23	20 maturity period for Standard 90.1? 14:28
21 concerned if it changed, yes. 14:29	21 MR. CUNNINGHAM: Same objection. 14:28
22 Q Did it change? 14:21	22 THE WITNESS: I think because the 14:29
23 A No. 14:23	23 growing period, there's one time frame where 14:29
24 Q Did the DOE ever publicly weigh the option of 14:22	24 I think they pulled residential out. I think 14:29
25 changing the EPAct to IECC instead of ASHRAE 90.1? 14:22	25 at one time it included residential. It does 14:29
Page 130	Page 132
1 A Not that I'm aware of, there hasn't been 14:22	1 not include low-rise residential. 1999 would 14:23
2 anything published where they were going to do that. 14:25	2 have been when we started continuous 14:28
3 (Exhibit 1161 marked for identification.) 14:21	3 maintenance. 14:21
4 Q (BY MR. BECKER) Ms. Reiniche, I'm handing 14:29	4 Without seeing Mr. Skalko's notes on 14:23
5 you what's been marked as Exhibit 1161. This is Bates 14:20	5 this, but based on my knowledge, I think that 14:26
6 number ASHRAE0005677. Do you recognize this document? 14:25	6 these periods are times that in the 14:29
7 A Yes. 14:29	7 maturity period shows greater energy savings, 14:23
8 Q Could you tell me what this document is? 14:24	8 and that's what he's trying to demonstrate in 14:27
9 A This is a presentation given by Stephen 14:27	9 that timeline. 14:20
10 Skalko, who is the chair of 90.1, at a conference on 14:21	10 Q (BY MR. BECKER) Do you know who Mr. Steven 14:2.
11 energy codes 2010. 14:27	11 V. Skalko is? 14:23
12 THE COURT REPORTER: Say that again. 14:27	12 A Yes. 14:25
13 "Who is the chair of 90.1," and 14:27	13 Q And who is he? 14:25
14 THE WITNESS: It's at given at an 14:27	14 A He is the past chair of 90.1. I think he 14:26
15 energy codes conference in 2010 at in 14:24	15 started after the 2010 version published.14:23
16Charlotte, North Carolina.14:28	16 Q And do you have any idea how long Mr. Skalko 14:32
17 Q (BY MR. BECKER) On page 3 of this document, 14:23	17 has been a member of ASHRAE? 14:30
18 Bates number ASHRAE0005679, it says at the top, 14:29	18 A I would have to look in the ASHRAE records, 14:32
19 "Standard 90.1 Timeline," and it delineates between the 14:25	19 but he's been a member longer than I've been there, so 14:35
20 growing period from 1970 to 1999, and then the maturity 14:22	20 over 11 years. 14:38
21 period from 1999 to 2010. What does that mean? 14:20	21 Q And for as long as you know, has Mr. Skalko 14:32
22 MR. CUNNINGHAM: Object to the form. 14:22	22 worked on ASHRAE 90.1? 14:36
23 Matt, do we know if the Steven person, do we 14:23	23 A Yes. 14:32
24 know if he's an ASHRAE staff member? Do 14:28	24 Q And would you say that Mr. Skalko is is 14:32
25 we was that asked at any point? 14:21 Page 131	25 would you say that Mr. Skalko knows a good deal about 14:39 Page 133
rage 151	rage 155

34 (Pages 130 - 133)

1 ASHRAE Standard 90.1? 14:36	1 I don't know why they would choose to do that. I mean, 14:38
2 A Yes. 14:38	2 my my guess is their goals are the same as ours, 14:31
3 MR. FEE: Objection to form. 14:38	3 energy efficient buildings in the United States. So I 14:36
4 (Exhibit 1162 marked for identification.) 14:34	4 would assume they would enter MOUs with whatever 14:38
5 Q (BY MR. BECKER) I'm handing you what's been 14:34	5 organizations would help them reach that goal. 14:32
6 marked as Exhibit 1162. This is Bates number 14:35	6 Q How is it that ASHRAE 90.1 came to be 14:35
7 ASHRAE0026233. Do you recognize this document? 14:34	7 incorporated into EPAct? 14:30
8 A Yes. 14:38	8 MR. CUNNINGHAM: Object to form. 14:36
9 Q And could you tell me what this document is? 14:39	9 THE WITNESS: I am not positive on how 14:37
10 A This is a Memorandum of Understanding between 14:31	10 that came about. I would have to check. 14:39
11 the Department of Energy and ASHRAE. It's not dated, 14:34	11 Q (BY MR. BECKER) Did ASHRAE staff meet with 14:39
12 but I would guess it's sometime in 2007 time frame, 14:35	12 the Department of Energy to help facilitate the 14:36
13 because that's when Terry Townsend was president of 14:39	13 incorporation of ASHRAE Standard 90.1 into EPAct? 14:31
14 ASHRAE. 14:34	14 A I have I'll have to go back and double 14:36
15 Q And is this a signed copy of the Memorandum 14:35	15 check in my records to see. 14:39
16 of Understanding between the DOE and ASHRAE? 14:39	16 Q Would it be customary for ASHRAE staff to 14:30
17 A Yes. 14:34	17 meet with members of the Department of Energy prior to 14:37
18 Q Has ASHRAE had multiple Memorandums of 14:35	18 the incorporation of ASHRAE Standard 90.1 into EPAct? 14:32
19 Understanding with the Department of Energy?14:30	19 A It would be customary for ASHRAE staff with 14:38
20 A Yes. 14:32	20 ASHRAE volunteer leadership to go to when they were 14:32
21 Q When did ASHRAE first start having 14:34	21 requesting that type of thing.14:36
22 Memorandums of Understanding with the Department of 14:39	22 (Exhibit 1163 marked for identification.) 14:39
23 Energy? 14:32	23 Q (BY MR. BECKER) I'm handing you what's been 14:32
24 A After EPAct was when 90.1 was made a 14:34	24 marked as Exhibit 1163. This is Bates number 14:33
25 reference in EPAct. 14:38	25 ASHRAE0024558. Do you recognize this document? 14:38
Page 134	Page 136
1 Q Could you remind me of when that was? 14:30	1 A Yes. 14:36
2 A I think it was '99. 14:32	2 Q And what is this document? 14:39
3 Q Okay. 14:34	
	3 A This is a presentation that would have been 14:30
4 A Around that time frame. 14:34	 A This is a presentation that would have been 14:30 4 made by the D.C. office to tech council and the chapter 14:32
4AAround that time frame.14:345QWas that soon after EPAct?14:35	 A This is a presentation that would have been 14:30 4 made by the D.C. office to tech council and the chapter 14:32 5 technology and transfer committee. I think that's what 14:33
 4 A Around that time frame. 14:34 5 Q Was that soon after EPAct? 14:35 6 A I would have to look. 14:31 	 A This is a presentation that would have been 14:30 4 made by the D.C. office to tech council and the chapter 14:32 5 technology and transfer committee. I think that's what 14:33 6 CTTC stands for. And it would have been made in at 14:36
 4 A Around that time frame. 14:34 5 Q Was that soon after EPAct? 14:35 6 A I would have to look. 14:31 7 Q Has ASHRAE ASHRAE and the DOE continued to 14:36 	 A This is a presentation that would have been 14:30 4 made by the D.C. office to tech council and the chapter 14:32 5 technology and transfer committee. I think that's what 14:33 6 CTTC stands for. And it would have been made in at 14:36 7 the ASHRAE meeting in Albuquerque, New Mexico, on 14:41
 A Around that time frame. 14:34 Q Was that soon after EPAct? 14:35 A I would have to look. 14:31 Q Has ASHRAE ASHRAE and the DOE continued to 14:36 8 enter into memorandums of understanding to the present 14:33 	3 A This is a presentation that would have been 14:30 4 made by the D.C. office to tech council and the chapter 14:32 5 technology and transfer committee. I think that's what 14:33 6 CTTC stands for. And it would have been made in at 14:36 7 the ASHRAE meeting in Albuquerque, New Mexico, on 14:41 8 June 26, 2010. 14:47
 A Around that time frame. 14:34 Q Was that soon after EPAct? 14:35 A I would have to look. 14:31 Q Has ASHRAE ASHRAE and the DOE continued to 14:36 enter into memorandums of understanding to the present 14:33 day? 14:36 	 A This is a presentation that would have been 14:30 4 made by the D.C. office to tech council and the chapter 14:32 5 technology and transfer committee. I think that's what 14:33 6 CTTC stands for. And it would have been made in at 14:36 7 the ASHRAE meeting in Albuquerque, New Mexico, on 14:41 8 June 26, 2010. 14:47 9 Q And what is the purpose of this document, to 14:42
4 A Around that time frame. 14:34 5 Q Was that soon after EPAct? 14:35 6 A I would have to look. 14:31 7 Q Has ASHRAE ASHRAE and the DOE continued to 14:36 8 enter into memorandums of understanding to the present 14:33 9 day? 14:36 10 A Yes. 14:37	3AThis is a presentation that would have been14:304made by the D.C. office to tech council and the chapter14:325technology and transfer committee. I think that's what14:336CTTC stands for. And it would have been made in at14:367the ASHRAE meeting in Albuquerque, New Mexico, on14:418June 26, 2010.14:479QAnd what is the purpose of this document, to14:4210your understanding?14:44
4 A Around that time frame. 14:34 5 Q Was that soon after EPAct? 14:35 6 A I would have to look. 14:31 7 Q Has ASHRAE ASHRAE and the DOE continued to 14:36 8 enter into memorandums of understanding to the present 14:33 9 day? 14:36 10 A Yes. 14:37 11 Q How regularly do they do so? 14:37	 A This is a presentation that would have been 14:30 4 made by the D.C. office to tech council and the chapter 14:32 5 technology and transfer committee. I think that's what 14:33 6 CTTC stands for. And it would have been made in at 14:36 7 the ASHRAE meeting in Albuquerque, New Mexico, on 14:41 8 June 26, 2010. 14:47 9 Q And what is the purpose of this document, to 14:42 10 your understanding? 14:44 11 A The purpose of this document is for the D.C. 14:45
4 A Around that time frame. 14:34 5 Q Was that soon after EPAct? 14:35 6 A I would have to look. 14:31 7 Q Has ASHRAE ASHRAE and the DOE continued to 14:36 8 enter into memorandums of understanding to the present 14:33 9 day? 14:36 10 A Yes. 14:37 11 Q How regularly do they do so? 14:37 12 A It it varies. It depended it depends 14:32	 A This is a presentation that would have been 14:30 4 made by the D.C. office to tech council and the chapter 14:32 5 technology and transfer committee. I think that's what 14:33 6 CTTC stands for. And it would have been made in at 14:36 7 the ASHRAE meeting in Albuquerque, New Mexico, on 14:41 8 June 26, 2010. 14:47 9 Q And what is the purpose of this document, to 14:42 10 your understanding? 14:44 11 A The purpose of this document is for the D.C. 14:45 12 office just to let the CTCC [sic] and tech council know 14:49
 A Around that time frame. 14:34 Q Was that soon after EPAct? 14:35 A I would have to look. 14:31 Q Has ASHRAE ASHRAE and the DOE continued to 14:36 enter into memorandums of understanding to the present 14:33 9 day? 14:36 A Yes. 14:37 Q How regularly do they do so? 14:37 A It it varies. It depended it depends 14:32 on who's at who's in charge at the Department of 14:35 	3AThis is a presentation that would have been14:304made by the D.C. office to tech council and the chapter14:325technology and transfer committee. I think that's what14:336CTTC stands for. And it would have been made in at14:367the ASHRAE meeting in Albuquerque, New Mexico, on14:418June 26, 2010.14:479QAnd what is the purpose of this document, to14:4210your understanding?14:4411AThe purpose of this document is for the D.C.14:4512office just to let the CTCC [sic] and tech council know14:4913what they've been doing in D.C.14:44
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35 (Pages 134 - 137)

1 developers that are in part of it. It might even be in 14:41	1 A Yeah, about I'm not sure they still meet 14:47
2 here, it tells you. There's a there's a long list. 14:46	2 or how often they still meet. I think it was about 14:40
3 I don't have that memorized. I don't know if it oh, 14:41	3 once a month. 14:42
4 if you turn to page that says ASHRAE0024575, that 14:47	4 Q Do they meet individually with the members of 14:49
5 shows you who's on the high what groups are involved 14:45	5 Congress or as a larger group? 14:41
6 in the high-performance building congressional caucus 14:40	6 A If they're doing it as the high-performance 14:45
7 at that time. It includes the representatives and then 14:45	7 building congressional caucus, they're meeting as a 14:48
8 the different standards developers that are involved. 14:47	8 group. If they're advancing something within their 14:41
9 Q The code chairs and members that are listed 14:44	9 organization, then the supporting coalition would 14:44
10 on that page you just referenced, are these all members 14:46	10 probably be meeting individual with representatives. 14:47
11 of Congress? 14:49	11 Q On page ASHRAE0024568, it says, 14:45
12 A Yes. 14:40	12 "Legislation," with an image of the capitol building, 14:43
13 Q What's the purpose of participation in the 14:47	13 and then it says, "ASHRAE Washington, D.C." 14:48
14 high-performance building congressional caucus? 14:40	14 A Um-hmm. 14:43
15 A It's really pro promoting doing things for 14:43	15 Q Then on the following page it says, "American 14:43
16 high-performance buildings, so stretch codes, green 14:47	16 Clean Energy and Security Act, HR 2454 a/k/a 14:46
17 standards, pushing the envelope to make things even 14:41	17 Waxman-Markey, sets national building code energy 14:42
18 more energy efficient than the minimum code. 14:49	18 efficiency targets." 14:49
19 Q And is this for the purpose of influencing 14:42	19 Then two bullet points down it says, "Uses 14:42
20 these members of Congress so as to have them 14:46	20 ASHRAE 90.1-2004 and "E "IECC 2006 as baselines." 14:45
21 incorporate these standards into the law? 14:41	21 Does ASHRAE advocate for the use of earlier 14:48
22 MR. CUNNINGHAM: Object to the form. 14:47	22 versions of 90.1 in Standard excuse me, in in 14:45
23 THE WITNESS: Not that I'm aware of. 14:48	22 versions of 90.1 m standard excuse me, in m 14.45 23 laws or regulations? 14:44
24 Q (BY MR. BECKER) What's the purpose of having 14:40	24 A That's not what this refers to. 14:44
25 the members of Congress involved? 14:41	25 Q What does that refer to? 14:46
Page 138	Page 140
1 uge 156	
1 A Education. 14:44	1 A This refers to as part of EPAct the 14:48
1 A Education. 14:44 2 Q And what is the benefit of educating the 14:45	1 A This refers to as part of EPAct the 14:48 2 Department of Energy is required to determine how much 14:41
1 A Education. 14:44 2 Q And what is the benefit of educating the 14:45 3 members of Congress? 14:48	1 A This refers to as part of EPAct the 14:48 2 Department of Energy is required to determine how much 14:41 3 more energy efficient 90.1 and when they're talking 14:45
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1 Q How am I mistaken? 14:45	1 the but we explained that once you as you get 14:50
2 A What this proposed legislation was, was to 14:48	2 above when you're going between the 30 and the 50 14:53
3 set the baseline for which the DOE uses to make the 14:43	3 percent, it gets more and more difficult to have 14:55
4 determination on whether or not the next version of 14:47	4 cost-effective equipment and things like that and in 14:58
5 90.1 is more energy efficient. So this was proposing 14:40	5 there. So it it wasn't put in the law. 14:52
6 to use 90.1-2004 as the benchmark for each subsequent 14:44	6 Q On page ASHRAE0024581, it says, "Additional 14:58
7 version of 90.1. 14:48	7 Washington office activities." And it says for the 14:56
8 And then and that's only commercial. And 14:40	8 third major bullet point, "Building code adoptions," 14:56
9 then the IECC is for residential. They're referenced 14:43	9 and then under that, "Standard 90.1 and Standard 14:50
10 as the residential. What's being advocated here is 14:48	10 189.1/IGCC promotion." 14:54
11 that you use the IECC 2006 as the baseline for each 14:41	11 Does this mean that the Washington office was 14:50
12 subsequent version of the IECC for residential moving 14:46	12 engaged in promoting the adoption of Standard 90.1 into 14:54
13 forward as for energy efficiency. 14:49	13 building codes? 14:50
14 Q Okay. Does the IECC itself refer to 14:42	14 A I don't remember. And without seeing it, if 14:55
	15 he he didn't have notes with it, so I don't think it 14:59
15 commercial buildings or is it only for residential 14:49 16 buildings? 14:42	
	16 was at a building code level. I think that's something 14:52
17 A There there's different I-codes within the 14:46	17 they were talking about expanding in the grassroots. 14:57
18 IECC. So there's the IRC, which is residential, but 14:40	18 That was not done at that time. 14:52
19 it's part of the whole body of codes. So the IECC for 14:43	19 Q So that's something is that something 14:53
20 residential is just the energy efficiency stuff for 14:40	20 that's done in at this time? 14:55
21 residential home residential stuff. 14:44	21 A We have started a grassroots program to reach 14:51
22 Q On the following page, it says, "American 14:55	22 out when we are made aware of references to to 14:53
23 Clean Energy Leadership Act, S.1462." It says, 14:58	23 different standards. And we could ask volunteers in 14:58
24 "Introduced by Senator Jeff Bingaman, D-NM. Updates 14:51	24 those jurisdictions to go. 14:52
25 national building energy codes and standards at least 14:58 Page 142	25 Q And when you say "a grassroots program," who 14:53 Page 144
1 every three years to achieve target energy savings of," 14:51	1 is involved in the grassroots program? 14:57
1 every three years to achieve target energy savings of," 14:51 2 and then it four bullet points down from that, it 14:55	1 is involved in the grassroots program?14:572AIt's it's the individual ASHRAE chapters14:50
2 and then it four bullet points down from that, it 14:55	2 A It's it's the individual ASHRAE chapters 14:50
 2 and then it four bullet points down from that, it 14:55 3 says, "If DOE determines ASHRAE's future revised model 14:50 	2 A It's it's the individual ASHRAE chapters 14:50 3 within each state, and then each you know, there's 14:52
 2 and then it four bullet points down from that, it 14:55 3 says, "If DOE determines ASHRAE's future revised model 14:50 4 codes will not meet targets, DOE will propose or 14:55 	 2 A It's it's the individual ASHRAE chapters 14:50 3 within each state, and then each you know, there's 14:52 4 multiple chapters within a state. So whoever is 14:55
 2 and then it four bullet points down from that, it 14:55 3 says, "If DOE determines ASHRAE's future revised model 14:50 4 codes will not meet targets, DOE will propose or 14:55 5 establish a modified code or standard that meets the 14:58 	2 A It's it's the individual ASHRAE chapters 14:50 3 within each state, and then each you know, there's 14:52 4 multiple chapters within a state. So whoever is 14:55 5 closest to wherever the decision is being made. 14:58
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37 (Pages 142 - 145)

1 marked as Exhibit 1174. Could you please tell me what 15:42	1 A Yes. 15:44
2 this document is? 15:42	2 Q Can you tell me what this document is? 15:44
3 A This is a subset, I think, of another email 15:42	3 A This document is the letter that gets sent to 15:46
4 exchange related to Exhibit 1170 where Mark indicates 15:43	4 the project committee that shows the public review 15:49
5 that this correction was made by Jim Calm. 15:43	5 comments for BSR/ASHRAE/IESNA Addenda S, T, and X to 15:43
6 (Exhibit 1175 marked for identification.) 15:44	6 ANSI/ASHRAE/IESNA Standard 90.1-2007. 15:45
7 Q (BY MR. BECKER) I'm handing you what's been 15:44	7 Q And if you look at the sixth, seventh, 15:40
8 marked as Exhibit 1175. Do you recognize this 15:44	8 eighth, ninth, and I believe tenth page of this 15:47
9 document? 15:45	9 document, are those copyright releases on all of those 15:51
10 A Yes. 15:45	10 pages I mentioned? 15:59
11 Q And could you tell me what this document is? 15:45	11 A Yes. 15:57
12 A This is a Certificate of Registration with 15:45	12 Q And who are those copyright releases from? 15:57
13 the United States Copyright Office for the 1993 ASHRAE 15:45	13 A Larry Spielvogel. 15:50
14 Handbook: Fundamentals Inch-Pound Edition. 15:45	14 Q Do you know who Larry Spielvogel is? 15:54
15 Q What is the 1999 ASHRAE Handbook: 15:45	15 A Yes. 15:58
16 Fundamentals? 15:45	16 Q Who is Mr. Spielvogel? 15:58
17 A It covers a variety of topics. I would have 15:45	17 A He is an ASHRAE member. 15:50
18 to look at the inside cover to tell you every topic 15:45	18 Q Has Mr. Spielvogel ever been an employee of 15:52
19 that it covers. 15:45	19 ASHRAE? 15:57
20 Q What's the purpose of the 1993 ASHRAE 15:45	20 A No. 15:57
21 Handbook: Fundamentals? 15:45	21 Q Do Mr. Spielvogel's proposed contributions 15:50
22 A It's a it's a tool for engineers to use 15:45	22 appear in this document? 15:54
23 when they're working with the topics covered in that 15:45	23 A Actually, yes. 15:56
24 book. 15:45	24 Q And where is that? 15:59
25 Q Is the 1993 ASHRAE Handbook: Fundamentals 15:45 Page 158	25 A Under on the page labeled ASHRAE0013966, 15:51 Page 160
1 referenced in ASHRAE Standard 90.1? 15:46	1 under 4 "Comment (Proposed Text)," it says, "Do not 15:52
2 A I would have to look. 15:46	2 approve and do not publish this addendum." 15:52
3 (Exhibit 1176 marked for identification.) 15:46	3 Q So these are his contributions, then, as to 15:52
4 Q (BY MR. BECKER) I'm handing you what's been 15:46	4 say "Do not approve and do not publish this addendum" 15:52
5 marked as Exhibit 1176. This is Bates number 15:46	5 that he's referring to? 15:52
6 ASHRAE0001592. Could you do you recognize this 15:46	6 A That is correct. 15:52
7 document? 15:46	7 Q If you turn to the page ASHRAE0013973, is 15:52
8 A Yes. 15:46	8 that another signed copyright release on that page? 15:53
9 Q And could you please tell me what it is? 15:46	9 A Yes. 15:53
10 A Well, the first page labeled ASHRAE001592 is 15:47	10 Q And in that instance, has it been signed and 15:53
11 the certification Certificate of Registration with 15:47	11 also had the the name of the individual inserted? 15:53
12 the United States Copyright Office for ANSI/ASHRAE/IES 15:47	12 A Yes. 15:53
13 Standard 90.1-2010 IP Edition. 15:47	13 Q And who is that individual? 15:53
14 For the page labeled ASHRAE0001594, that is 15:47	14 A James Calm. 15:53
15 the Certificate of Registration with the United States 15:47	15 Q And what is Mr. Calm's relationship to 15:53
16 Copyright Office for ANSI/ASHRAE/IESNA 15:47	16 ASHRAE, if any? 15:53
17 Standard 90.1-2007 IP Edition. 15:47	17 A He's a member of ASHRAE. 15:53
18For the page labeled ASHRAE001596, this is15:47	18 Q And has Mr. Calm ever been an employee of 15:53
19 the Certificate of Registration with the United States 15:47	19 ASHRAE? 15:53
20 Copyright Office for ANSI/ASHRAE/IESNA 15:48	20 A No. 15:53
21 Standard 90.1-2004 IP IP Edition. 15:48	21 Q And Mr. Calm's contribution on the following 15:53
22 (Exhibit 1177 marked for identification.) 15:48	22 page, is that "Disapprove proposed revisions in 15:53
23 Q (BY MR. BECKER) I'm handing you what's been 15:48	23 Addendum S"? 15:54
24 marked as Exhibit 1177. It's the document beginning 15:48	25 / Addindam 5 : 15.54
	24 A That would be his comment, yes. 15:54
25 with ASHRAE0013961. Do you recognize this document? 15:48 Page 159	

41 (Pages 158 - 161)

1 for time at the time. 16:58	1 our Standard 188 posted on company websites 16:57
2 Q (BY MR. BECKER) How did you know that she 16:50	2 without seeking permission from me first to 16:51
3 was that Ms. Ramspeck was referring to 16:52	3 post it after the public review period has 16:53
4 Public.Resource.Org when she said "Did you know that 16:56	4 ended. And I've sent letters to ask them to 16:56
5 there has been a big increase in the number of 16:59	5 remove it, and they are removed. 16:58
6 copyrighted docs beginning in January"? 16:51	6 Q (BY MR. BECKER) Is ASHRAE aware of 16:56
7 A Because I knew about the SMACNA things, and 16:57	7 infringement or potential infringement on file-sharing 16:59
8 so staff was watching to see what copyrighted documents 16:52	8 websites of ASHRAE standards? 16:53
9 were out there, if they belonged to ASHRAE. 16:56	9 MR. CUNNINGHAM: Same objection. 16:55
10 Q And so there was sufficient discussion of 16:56	10 THE WITNESS: I'm not aware of those. 16:57
11 Public.Resource.Org in February of 2013 that without 16:59	11 MR. BECKER: We can take a break here. 16:57
12 even referencing Public.Resource.Org, you knew that 16:54	12 THE VIDEOGRAPHER: Going off the record 16:50
13 Ms. Ramspeck was referring to Public.Resource.Org? 16:58	13 at 16:58. 16:52
14 MR. CUNNINGHAM: Objection to the form. 16:51	14 (Recess taken.) 17:19
15 THE WITNESS: At that time, we would 16:55	15THE VIDEOGRAPHER: Going on the record17:24
16 have discussed Public.Resource.Org, and I 16:56	16 at 17:24. 17:26
17would have known that's what she was16:59	17 Q (BY MR. BECKER) Ms. Reiniche, could you 17:25
18 referring to. 16:51	18 please refer again to Exhibits 1175 and 1176. Those 17:26
19 Q (BY MR. BECKER) What is the purpose of the 16:59	19 are the certificates of registration from the copyright 17:22
20 IPRPC? 16:52	20 office. 17:27
21MR. FEE: Objection, lack of16:54	21 A Okay. 17:28
22 foundation. 16:55	22 Q Ms. Reiniche, does ASHRAE claim to be the 17:20
23 MR. CUNNINGHAM: Objection. 16:56	23 author of standard of the editions of Standard 90.1 17:24
24THE WITNESS: It's it's dealing with16:59	24 that are listed in Exhibit 1176? 17:20
25 intellectual property mostly, things or 16:52 Page 190	25 MR. CUNNINGHAM: Objection to the 17:27 Page 192
1 things like patents and some, I guess, quasi 16:56	1 form. 17:27
2 legal things. 16:56	2 THE WITNESS: Yes. 17:28
3 Q (BY MR. BECKER) How much of the discussion 16:56	3 Q (BY MR. BECKER) And does ASHRAE claim to be 17:2
4 in IPRPC relates to Public.Resource.Org? 16:56	4 the author of the 1993 ASHRAE Handbook: Fundamentals as 17:2
5 MR. FEE: Objection to form. 16:56	5 listed in Exhibit 1175? 17:28
6 THE WITNESS: On the items I have either 16:56	6 MR. CUNNINGHAM: Same objection. 17:21
7 seen in email or when I've been able to 16:56	7 THE WITNESS: Yes. 17:27
8 participate remotely on their calls, minimal. 16:56	8 Q (BY MR. BECKER) Is ASHRAE the sole author of 17:28
9 Q (BY MR. BECKER) Is ASHRAE concerned about 16:57	9 these works? 17:20
10 alleged copyright infringement by other entities other 16:57	10MR. CUNNINGHAM: Same objection.17:20
11 than Public.Resource.Org?16:57	11 THE WITNESS: It's the members of the 17:27
12 MR. CUNNINGHAM: Objection to scope and 16:57	12project committee as as part of their17:29
13 to the form. 16:57	13 membership that agreed to write the document 17:23
14 THE WITNESS: Of course. We don't we 16:57	14 and and have it attributed to ASHRAE. 17:25
15 don't allow other people to post copyrighted 16:57	15 Q (BY MR. BECKER) And the members of the 17:29
16 material or anywhere else. If when we're 16:57	16 project committee are not employees of ASHRAE, correct? 17:20
	17 A That's correct. 17:23
17 made aware of it, we ask for it to be 16:57	
18 removed. 16:57	18 Q And so what is the basis for ASHRAE's claim 17:28
18 removed. 16:57 19 Q (BY MR. BECKER) Where has ASHRAE seen 16:57	19 that it's the author of these works? 17:21
18removed.16:5719Q(BY MR. BECKER) Where has ASHRAE seen16:5720infringement of its standards?16:57	19 that it's the author of these works?17:2120MR. CUNNINGHAM: Objection to the form,17:25
18 removed. 16:57 19 Q (BY MR. BECKER) Where has ASHRAE seen 16:57 20 infringement of its standards? 16:57 21 MR. CUNNINGHAM: Same objection. 16:57	19 that it's the author of these works?17:2120MR. CUNNINGHAM: Objection to the form,17:2521calls for a legal conclusion.17:26
18removed.16:5719Q(BY MR. BECKER) Where has ASHRAE seen16:5720infringement of its standards?16:5721MR. CUNNINGHAM: Same objection.16:5722THE WITNESS: I'm I'm not privy to16:57	19 that it's the author of these works?17:2120MR. CUNNINGHAM: Objection to the form,17:2521calls for a legal conclusion.17:2622THE WITNESS: As a basis of the signed17:20
18removed.16:5719Q(BY MR. BECKER) Where has ASHRAE seen16:5720infringement of its standards?16:5721MR. CUNNINGHAM: Same objection.16:5722THE WITNESS: I'm I'm not privy to16:5723every single time. I don't it's not16:57	19 that it's the author of these works?17:2120MR. CUNNINGHAM: Objection to the form,17:2521calls for a legal conclusion.17:2622THE WITNESS: As a basis of the signed17:2023copyright assignments that all the members17:22
18removed.16:5719Q(BY MR. BECKER) Where has ASHRAE seen16:5720infringement of its standards?16:5721MR. CUNNINGHAM: Same objection.16:5722THE WITNESS: I'm I'm not privy to16:57	19 that it's the author of these works?17:2120MR. CUNNINGHAM: Objection to the form,17:2521calls for a legal conclusion.17:2622THE WITNESS: As a basis of the signed17:20

^{49 (}Pages 190 - 193)

1 and that the members that submit change or 17:21	1 A These are the minutes from the 90.1 meeting 17:38
2 the public that submits change proposals sign 17:26	2 for sure from Saturday, January 24th, 2004. Then 17:34
3 when they submit a change proposal. 17:29	3 from and it also includes the minutes from the 17:31
4 Q (BY MR. BECKER) Has ASHRAE ever compensated 17:24	4 meeting on Sunday, January January 25th, 2004. Hang 17:35
5 any of the members of the project committee for the 17:26	5 on. They usually have more than another meeting. 17:35
6 sale of any of the works at issue? 17:23	6 And from Monday, January 26, 2004. 17:30
7 A No. 17:26	7 Q And could you please turn to page 8? 17:33
8 Q Ms. Reiniche, is the project committee for 17:27	8 A 8? 17:39
9 Standard 90.1 in charge of the selection and 17:23	9 Q Yes. Section 10 on page 8 includes the 17:39
10 arrangement of the content of Standard 90.1? 17:28	10 marketing task force ad hoc subcommittee update. And 17:30
11 A Yes. 17:28	11 it says in the second and third sentence, it says, "The 17:39
12 Q Is anybody else responsible for the selection 17:23	12 discussion included the question of who is the customer 17:33
13 and arrangement of standard of the content of 17:27	13 for Standard 90.1. Chris stated that the subcommittee 17:37
14 Standard 90.1? 17:23	14 has one customer that it has failed to fulfill the 17:32
15 A The selection of the content, no. The 17:24	15 needs of, and that is the Department of Energy, DOE." 17:37
16 arrangement, they're not going to change the order, but 17:20	16 Does ASHRAE consider the Department of Energy 17:33
17 the formatting in terms of, you know, the two-column 17:22	17 to be a customer? 17:35
18 format, it could switch from one to two column after 17:26	18AIt would be one customer.17:38
19 public review is done by public our publications 17:20	19 (Exhibit 1194 marked for identification.)17:31
20 department. 17:23	20 Q (BY MR. BECKER) Ms. Reiniche, I'm handing 17:38
21 Q And who made the decision to switch it from 17:24	21 you a document that has been marked as Exhibit 1194. 17:30
22 one column to two column? 17:28	22 This is Bates number ASHRAE0006892. Can you tell me 17:34
23 A That would have been Steve Comstock would 17:21	23 what this document is? 17:33
24 have decided to I believe the standard was 17:24	24 A This document is an ASHRAE 90.1 questionnaire 17:34
25 originally one column. When they go out for public 17:27 Page 194	25 summary combined compiled by Valerie Block, the 17:38 Page 196
1 review, we put it in one column, because it's easier 17:20	1 chair of the 90.1 marketing committee. 17:33
2 for people to read one column, you know, and we don't 17:22	2 Q And can you tell me what the purpose of this 17:32
3 have to mess with the formatting. 17:25	3 questionnaire summary was? 17:35
4 Then because of the length, I believe they 17:29	4 A The purpose of of the questionnaire or the 17:36
5 switched to a two-column format for publication. 17:21	5 summary summary? 17:39
6 And and that's that's why they did it, so the 17:24	6 Q Of the summary itself. 17:31
7 your printed copy isn't, you know, 3 inches thick 17:29	7 A It was to give information to the committee 17:32
8 versus an inch and a half thick. 17:24	8 on what the opinions of the users of the standard 17:37
9 Q So when you say two-column format, you mean 17:27	9 were. 17:31
10 the text appears in two columns on the page, as opposed 17:28	10 Q And which committee was that? 17:32
11 to just being a single column on the page? 17:23	11 A 90.1. 17:33
12 A That's correct. 17:25	12 (Exhibit 1195 marked for identification.) 17:38
13 Q And is that the only change in arrangement 17:23	13 Q (BY MR. BECKER) Ms. Reiniche, I'm handing 17:38
14 that's performed by ASHRAE staff? 17:27	14 you what's been marked as Exhibit 1195. Bates labeled 17:30
15 A By publications, they might correct the 17:20	15 ASHRAE0024267. Do you recognize this document? 17:35
16 numbering of a section if the committee changed 17:23	16 A This is yes. 17:30
17 something and the numbering was off, but it's just to 17:25	17 Q And can you tell me what this document is? 17:32
18 make it format correctly for on the publication 17:28	
19 side. 17:23 20 (Exhibit 1102 merked for identification) 17:24	č
20 (Exhibit 1193 marked for identification.) 17:24	20 energy to consider a building energy labeling program 17:33
21 Q (BY MR. BECKER) Ms. Reiniche, I'm handing 17:30	21 that was being developed by ASHRAE. This is the 17:38
22 you what's been marked as Exhibit 1193. This is Bates 17:31	22 building energy quotient, but it's not it's not a 17:36
23 number ASHRAE0001628. Do you recognize this document? 17:37	23 90.1 tool. 17:31
24 A Yes. 17:33	24 (Exhibit 1196 marked for identification.) 17:34
25 Q Can you tell me what this document is? 17:35	25 Q (BY MR. BECKER) Ms. Reiniche, I'm handing 17:34

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1 you what's been marked as Exhibit 1196, ASHRAE Bates 17:35	1 meeting with different organizations in Washington, 17:41
2 number 0024287. Do you recognize this document? 17:39	2 D.C. 17:41
3 A Yes. 17:30	3 Q And when you say what would have been an 17:41
4 Q And could you tell me what this document is? 17:32	4 ASHRAE leadership meeting with different organizations 17:41
5 A This is a letter from who would have been 17:34	5 in Washington, D.C., do you mean it was a meeting that 17:41
6 the president of ASHRAE at the time in 2009, Gordon 17:38	6 did occur? 17:41
7 Holness, to President Obama talking about as we're 17:33	7 A Yes. 17:41
8 working towards energy efficiency, where we have agreed 17:31	8 Q Is it clear to you who the participants of 17:42
9 to try to the project committee to be 30 percent 17:35	9 this meeting would have been? 17:42
10 more energy efficient from 2004, version of 17:31	10 MR. FEE: Can I see this document before 17:42
11 Standard 90.1 to the 2010 version. 17:34	11 you get into this any further? 17:42
12 And it also mentions our Building Energy 17:39	12 Okay. 17:42
13 Quotient BEQ program that provides people with energy 17:32	13 THE WITNESS: Well, I can tell from the 17:42
14 use of buildings and to ask that the while they're 17:36	
15 implementing the executive order, that they look at 17:35	15 Bellenger, Ron Jarnigan, Tom Watson, Jeff 17:43
16 considering using the building EQ program. 17:38	16 Littleton, Doug Read, and Mark Ames would 17:43
17 (Exhibit 1197 marked for identification.) 17:39	17 have been at these meetings. Some of them I 17:43
18 Q (BY MR. BECKER) Ms. Reiniche, I'm handing 17:33	18can it appears from this that OSTP had17:43
19 you what's been marked as Exhibit 1197. Do you 17:34	19Kevin Hurst there.17:43
20 recognize this document? 17:37	20 Q (BY MR. BECKER) That's fine if you 17:43
21 A Yes. 17:30	21 A I mean, I would have to I mean, some of 17:43
22 Q And can you tell me what this document is? 17:31	22 them I can tell that you know, who was there, I can 17:43
23 A This is an ASHRAE Facts and Stats document 17:35	23 tell which organizations were there, but some I can 17:43
24 that D.C. folks would leave with congressional staff 17:39	24 tell by the way the notes were written who was there, 17:43
25 members. 17:37	25 and some I cannot. I can if it would be easier, I 17:44
Page 198	Page 200
1 Q And what was the purpose of leaving this with 17:37	1 can tell you what organizations appears. 17:44
2 congressional staff members? 17:30	2 Q Yes, if you could say which organizations. 17:46
3 A Just to give you a give them information 17:31	3 A So and this my recollection of the 17:40
4 about what ASHRAE is, what our expertise is in, and 17:33	4 leadership meetings, typically it's more more than 17:46
5 about our standards, our research program, 17:30	5 one meeting, so they weren't all in one meeting 17:48
6 publications, continuing education; just ASHRAE as a 17:33	6 together, so these would have been notes from all of 17:40
7 whole. 17:37	7 their meetings. 17:42
8 (Exhibit 1198 marked for identification.) 17:39	8 So they would have talked with the EPA, 17:45
	9 DOE sorry, the page is sticking FEMP, NEMA, ASE, 17:48
10 you what's what's been marked as Exhibit 1198, Bates 17:35	10 AHRI, NASEO, N-A-S-E-O, and that looks to be it. 17:42
11 number ASHRAE0024393. Do you recognize this document? 17:30	11 Q Okay. So it's all of the organizations that 17:48
12 A Yes. 17:37	12 are that are listed as individual acronyms at the 17:40
13 Q And what is this document? 17:37	13 top of each paragraph section? 17:40
14 A This is another sort of fact sheet type thing 17:39	14 A Right. 17:41
15 that ASHRAE does to educate the staff members of the 17:32	15 Q And would those have been separate meetings 17:44
16 legislature about ASHRAE's role in energy efficiency 17:36	16 with each individually?17:46
17 and our views on how to get there. 17:31	17ASome of them could have been clumped17:47
18 (Exhibit 1199 marked for identification.) 17:33	18 together, some of them could have been separate. It's 17:41
19 Q (BY MR. BECKER) Ms. Reiniche, I'm handing 17:42	19 hard to tell from this email string how those occurred. 17:43
20 you what's been marked as Exhibit 1199. This is Bates 17:45	20 But sometimes they have it where they're going to meet 17:49
21 labeled ASHRAE0024624. Do you recognize this document? 17:40	21 with these three organizations and then these three 17:42
22 A Yes. 17:40	22 organizations; something like that. 17:44
23 Q And what is this document? 17:41	23 (Exhibit 1200 marked for identification.) 17:49
24 A These are this is an email that shows the 17:42	24 Q (BY MR. BECKER) I'm handing you what's been 17:45
25 notes from what would have been an ASHRAE leadership 17:45	25 marked as Exhibit 1200. This is Bates labeled 17:46
Page 199	Page 201

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1 standards at issue here. 18:03	1 if we could get comp copies to send to HUD to 18:01
2 THE WITNESS: This email relates to 18:06	2 consider it, and Mark indicated that's 18:04
3 Standard 161-2007. That's indoor air quality 18:08	3 probably very likely. 18:07
4 for commercial aircrafts. And it's about a 18:04	4 And then they ask for the where to 18:00
5 congressional committee considering an FAA 18:09	5 send it, to Rhonda from Rhonda Dickerson, 18:03
6 reauthorization bill and wants to know if 18:01	6 who I'm assuming is from HUD. And instead of 18:08
7 if the members of 161 are supportive of this 18:06	7 using the paper comment paper format, they 18:02
8 bill. 18:01	8 sent a PDF copy that indicating it wasn't 18:08
9 Q (BY MR. BECKER) And in the top email, 18:05	9 to be distributed outside of the HUD 18:12
10 Mr. Weber's communication, he says, "Ladies and 18:01	10 manufacturing housing consensus committee and 18:15
11 Gentlemen, below is an email from Ryan Colker, manager 18:06	11 not to reprint without ASHRAE permission. 18:18
12 of government affairs in the ASHRAE Washington office. 18:09	12 Q (BY MR. BECKER) You are a recipient of this 18:13
13 ASHRAE is encouraging legislators to adopt ASHRAE 18:03	13 email; is that correct? 18:15
14 Standard 161-2007 and intends on sending the attached 18:07	14 A Yes. 18:17
15 letter early next week. Ryan would like to make the 18:03	15 Q What does HUD stand for? 18:10
16 SSPC aware of the intentions and would like to know if 18:07	16 A Housing Urban Development. 18:14
17 their organizations are willing to support the 18:01	
18 adoption." 18:04	
18 adoption. 18:04 19 Is one of the roles of government ASHRAE's 18:09	18 A Yes. 18:11
	19 Q Is it common for ASHRAE to provide copies of 18:10
20 government affairs office in Washington, D.C., to18:0221 encourage legislators to adopt ASHRAE standards?18:06	20 ASHRAE standards to members of government when they are 18:16
	21 considering incorporating that standard into 18:10
22 A If it's relevant to a bill that the 18:01	22 legislation or regulation? 18:14
23 legislature is is drafting. 18:08	23 A If it's been requested, we typically will 18:17
24 Q Does that include encouraging legislators to 18:01	24 provide a copy for them to review, yes. 18:10
25 adopt ASHRAE Standard 90.1? 18:04 Page 210	25 Q And that would be a complimentary copy, 18:13 Page 212
	1 age 212
1 A If it's related to a legislation that they're 18:07	1 correct? 18:11
2 creating. 18:00	2 A That is correct. 18:11
3 Q So if for clarity, if the if standard 18:01	3 (Exhibit 1208 marked for identification.) 18:11
4 ASHRAE 90.1 is related to the legislation that's being 18:09	4 Q (BY MR. BECKER) Ms. Reiniche, I'm handing 18:11
5 created, then the Washington office of ASHRAE might 18:03	5 you what's been marked as Exhibit 1208. This has been 18:11
6 encourage the adoption of Standard 90.1 into that 18:08	6 produced as ASHRAE0024209. Do you recognize this 18:12
7 legislation? 18:03	7 document? 18:12
8 A Yes, in consultation with ASHRAE leadership 18:05	8 MR. CUNNINGHAM: Object to this document 18:12
9 and those with relevant technical expertise. 18:09	9 as it also appears to relate to standards 18:12
10 (Exhibit 1207 marked for identification.) 18:09	10 other than those that are at issue in this 18:12
11 Q (BY MR. BECKER) I'm handing you what's been 18:07	11 case. 18:12
12 marked as Exhibit 1207. Could you please take a moment 18:08	12 THE WITNESS: Yes, I recognize the 18:12
13 to read this document and tell me what it is? 18:02	13 document. 18:12
14 MR. CUNNINGHAM: Same objection as the 18:02	14 Q (BY MR. BECKER) And what is this document? 18:12
15 last document. This is outside the scope and 18:03	15 A This is a document from Terry Townsend, who 18:12
16 irrelevant, as it doesn't relate to the 18:06	16 would have been the president of ASHRAE in 2007, to 18:13
17 standards at issue. 18:08	17 Andrew Fanara from EPA Energy Star Program. And it's 18:13
18 THE WITNESS: So this is an email where 18:05	18 about a draft report to Congress on server and 18:13
19 Mike Lubliner, who was involved in 62.2, said 18:09	19 datacenter energy efficiency. 18:13
20 he was talking with HUD and about having them 18:05	20 And he's talking about the how ASHRAE is 18:13
21 adopt 62.2 and asked and discussing with 18:00	21 involved in that and the majority of this deals with 18:13
22 Steve Emmerich, who I believe was the chair 18:06	22 our technical committee 9.9, which is missing critical 18:13
	22 our technical commute 9.9, which is missing crucal 18:13 23 facilities and the work they've done in the different 18:13
-	± 2.7 recircles and the work they vertone in the different ± 18.13
24 And then they asked Mark Wahar if wa 19.02	
24And then they asked Mark Weber if we18:0325could who is the staff liaison for 62.2,18:07	24 publications they have, thermal guidelines for data 18:13 25 processing equipment. And and then they had 18:13

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1 CERTIFICATE	
2 STATE OF GEORGIA:	
COUNTY OF FULTON:	
3	
I, SHARON A. GABRIELLI, HEREBY CERTIFY that	
4 the foregoing deposition was taken down by me in	
4 the folegoing deposition was taken down by the m	
stenotype, and the questions and answers thereto were	
5 transcribed by means of computer-aided transcription,	
and that the foregoing represents a true and correct	
6 transcript of the testimony given by said witness.	
I FURTHER OF THE VIL 1	
I FURTHER CERTIFY that I am not kin or	
7 counsel to the parties in the case; am not in the	
regular employ of counsel for any of said parties; nor	
8 am I in any way financially interested in the result of	
said case.	
hand this 10th day of April, 2015	
10	
11	
SHARON A. GABRIELLI, RPR	
12 CCR-B-2002	
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Page 226	

EXHIBIT 13

1 UNITED STATES DISTRICT COURT FOR THE DISTRICT OF COLUMBIA 2 AMERICAN SOCIETY FOR : Case No. 3 TESTING AND MATERIALS d/b/a: 1:13-cv-01215-PSC-DAR : ASTM INTERNATIONAL; 4 : NATIONAL FIRE PROTECTION : ASSOCIATION, INC.; and 5 : ٠ 6 AMERICAN SOCIETY OF : HEATING, REFRIGERATING, : 7 AND AIR-CONDITIONING : ENGINEERS, INC. : 8 Plaintiffs, : : 9 : vs. 10 PUBLIC.RESOURCE.ORG, INC., : Defendant. • 11 AND RELATED COUNTERCLAIMS. : 12 13 14 Videotaped 30(b)(6) deposition of American Society for Testing & Materials, 15 16 through DANIEL SMITH, held in the offices of 17 Veritext Philadelphia, 1801 Market Street, Ten Penn Center, Suite 1800, Philadelphia, 18 19 Pennsylvania 19103, commencing at 10:43 a.m., July 24, 2015, before Linda Rossi Rios, a 20 21 Federally Approved RPR, CCR and Notary 22 Public. 23 24 25 PAGES 1 - 292 Page 1

1	giving your best testimony today?	1	technical committee?
2	A. No.	2	A. A group of experts that develop
3	Q. Mr. Smith, what do you do for a	3	standards.
4	living?	4	Q. And who are those experts?
5	A. I work for ASTM International.	5	A. Volunteers.
6	Q. And when you say you work for	6	Q. And are they only volunteers?
7	ASTM International, what do you mean?	7	MR. FEE: Objection. Vague.
8	A. I'm the vice	8	THE WITNESS: For the most part
9	MR. FEE: Objection. Vague.	9	from my knowledge, they're all
10	You can answer.	10	volunteers.
11	THE WITNESS: I'm the vice	11	BY MR. BECKER:
12	president of technical committee	12	Q. How does a technical committee
13	operations.	13	go about developing standards as you say?
14	BY MR. BECKER:	14	A. They use our consensus process.
15	Q. And what is technical committee	15	Q. What is the consensus process?
16	operations?	16	A. It's two levels of voting
17	A. It's a division within ASTM.	17	starting with the subcommittee and then the
18	Q. What does technical committee	18	main committee.
19	mean?	19	Q. What's the difference between a
20	A. Technical committees develop	20	subcommittee and a main committee?
21	standards.	21	A. A subcommittee is typically
22	Q. When you say "standards," what	22	smaller with a more narrow interest. A main
23	do you mean by that?	23	committee has broader interest.
24	A. Consensus standards.	24	Q. So within a technical
25	Q. By "consensus standards," what	25	committee, then, there is is there just
	Page 14		Page 16
1	do you mean by that?	1	one main committee?
2	A. Documents.	2	A. A main committee is a technical
3	Q. Any documents?	3	committee.
4	A. Specifications, test methods,	4	Q. And are there numerous
5	practices, guides, classifications and	5	subcommittees?
6	terminology.	6	A. Yes.
7	Q. Does the term "standards" have	7	Q. And how many subcommittees on
8	any specific meaning to you?	8	average?
9	MR. FEE: Objection. Vague.	9	A. It varies.
10	THE WITNESS: I'm not sure what	10	Q. Could you give me a range by
11	you mean by that.	11	which it might vary?
12	BY MR. BECKER:	12	A. The best of my knowledge, maybe
13	Q. Can you define what a standard	13	from 3 to 40, 50.
14	is?	14	Q. When you say there is a
15	A. Just what I said previously,	15	consensus process that involves voting in the
16	it's a test method, a specification, a	16	subcommittee and then voting at the main
17	practice, a guide, classification or	17	committee level, can you elaborate on that
18	terminology.	18	process?
19	Q. And you say that the technical	19	MR. FEE: Objection. Vague.
20	committees develop standards. How do	20	THE WITNESS: They vote on
21	actually, let me back up.	21	standards so the folks on that
1	What is a technical committee?	22	committee will vote on whether or not
22	what is a technical commute:		
	A. I'm not sure how to answer	23	they agree or not agree with the
22 23 24		23 24	they agree or not agree with the content of the standard.
22 23	A. I'm not sure how to answer		

5 (Pages 14 - 17)

1	Q. Is that agree or don't agree on	1	average?
2	the content of a draft standard or the	2	A. It varies, but it could be
3	finalized standard?	3	anywhere from 3 to 30 approximately.
4	A. A draft standard.	4	Q. And you said that the task
5	Q. Could we just back up a little	5	group develops the content or the original
6	bit and could you walk me through how a	6	draft of a standard. Is that correct?
7	standard is developed at ASTM?	7	MR. FEE: Objection. Lack of
8	A. It varies, but it could be	8	foundation.
9	by it starts typically with a task group.	9	THE WITNESS: From my
10	Q. And what does the task group	10	experience, that's what a task group
11	do?	11	does.
12	A. They'll develop the content of	12	BY MR. BECKER:
13	the draft.	13	Q. How is a task group initially
14	Q. And who composes the task	14	formed?
15	group?	15	A. It's formed by a group of
16	MR. FEE: Objection. Vague.	16	volunteers who want to develop a standard or
17	THE WITNESS: The task group is	17	a revision to a standard.
18	typically made up of volunteers who	18	Q. Do the members and excuse
19	wish to serve on the task group.	19	me.
20	BY MR. BECKER:	20	Do the ASTM members and
21	Q. Are is everyone in a task	21	nonmembers of ASTM who compose task groups
22	group an ASTM member?	22	generally have the same or similar interests?
23	A. No, not necessarily.	23	MR. FEE: Objection. Calls for
24	Q. In what situations would	24	speculation.
25	individuals who are not members of ASTM	25	THE WITNESS: I don't know. I
	Page 18		Page 20
1	compose members of the task group?	1	would think they would have a variety
2	MR. FEE: Objection to form.	2	of different interests.
3	THE WITNESS: I'm not sure what	3	BY MR. BECKER:
4	you mean by that. Could you repeat	4	Q. Are there any characteristics
5	that or say that differently?	5	other than ASTM membership that would
6	BY MR. BECKER:	6	distinguish ASTM members who are members of
7	Q. Let's see. Are let me back	7	task groups and those members of task groups
8	up just a moment.	8	who are not ASTM members?
9	Are any members of the task	9	MR. FEE: Objection to form.
10	group also members of ASTM?	10	THE WITNESS: The members pay
11	A. Yes.	11	the \$75 membership fee. Nonmembers
12	Q. But some members of the task	12	don't pay the membership. That's the
13	groups are not members of ASTM?	13	only thing I can think of.
14	A. Could be. It's mostly members.	14	BY MR. BECKER:
15	Q. And why would individuals who	15	Q. How does a task group go about
16	are not members of ASTM be members of the	16	developing the initial draft of a standard?
17	task group?	17	A. They could do it in a variety
18	MR. FEE: Objection. Calls for	18	of ways.
19	speculation.	19	Q. Could you give me some examples?
$\begin{vmatrix} 1 \\ 20 \end{vmatrix}$	THE WITNESS: From my	20	A. They could do it through the
20	experience, because they're interested	20	use of our collaboration areas, an online
$\frac{21}{22}$	in the standard that's being	21	space that allows them to develop the draft.
23	developed.	22	Q. And in what other ways?
23	BY MR. BECKER:	23	A. They could do it through course
24	Q. How large are task groups on	24	of e-mail.
25	Page 19		Page 21
	e		6

6 (Pages 18 - 21)

1			
1 *	Q. And in what other ways?	1	outside of ASTM.
2	A. Through a meeting.	2	BY MR. BECKER:
3	Q. And in what other ways?	3	Q. Do you know how drafts of
4	A. None other come to mind at this	4	the of ASTM standards were exchanged
5	point.	5	between task group members prior to the
6	Q. Are there any differences in	6	introduction of the online collaboration area
7	how a task group would develop a draft of a	7	by ASTM?
8	standard today versus how they might have	8	A. My guess would be through mail
9	developed a draft of a standard in the 1970s	9	and fax.
10	or 1980s?	10	Q. Do you know if that mail and
11	MR. FEE: Objection. Lack of	11	fax of drafts was facilitated by ASTM?
12	foundation. Calls for speculation.	12	MR. FEE: Objection. Vague.
13	You can answer.	13	THE WITNESS: I would imagine
14	THE WITNESS: Just from common	14	that some of them would have been
15	sense, we wouldn't have had our Web	15	facilitated by ASTM and others would
16	tools, they wouldn't have been able to	16	not have been.
17	use our Web tools or our virtual	17	BY MR. BECKER:
18	meeting technology in the '70s.	18	Q. Prior to the introduction of
19	BY MR. BECKER:	19	the online collaboration area, were there
20	Q. Do you know how task groups	20	specific forms that task group members were
21	developed drafts in the 1970s and 1980s?	21	made to fill out when drafting drafts of ASTM
22	A. I don't know firsthand, but my	22	standards?
23	guess is they would have done it at meetings.	23	MR. FEE: Objection to form.
24	Q. When did ASTM first provide the	24	THE WITNESS: I believe we had
25	online collaboration areas for the use by	25	forms starting in about 2003 on our
	Page 22		Page 24
1	task groups?	1	membership applications that required
2	A. Guessing, it was sometime	2	members to assign all rights to ASTM.
3	probably in the early 2000s roughly.	3	BY MR. BECKER:
4	Q. How long have you been at ASTM	4	Q. So the membership, the forms on
5	for?	5	the membership applications for ASTM that
6	A. About 23 years.	6	asked individuals to assign all rights to
7	Q. So you were at ASTM for roughly	7	
		1	ASTM, as you said, started in 2003 and didn't
8	a decade, at least a decade prior to when the	8	exist prior to that date?
8 9	a decade, at least a decade prior to when the online collaboration area was first rolled	8 9	exist prior to that date? A. I believe that's correct.
8 9 10	a decade, at least a decade prior to when the	8	exist prior to that date?A. I believe that's correct.Q. And this just concerned the
8 9 10 11	a decade, at least a decade prior to when the online collaboration area was first rolled out. Is that correct?A. Approximately.	8 9 10 11	exist prior to that date?A. I believe that's correct.Q. And this just concerned the membership applications. Correct?
8 9 10 11 12	a decade, at least a decade prior to when the online collaboration area was first rolled out. Is that correct?A. Approximately.Q. So prior to when the online	8 9 10 11 12	exist prior to that date? A. I believe that's correct. Q. And this just concerned the membership applications. Correct? MR. FEE: Objection. Vague.
8 9 10 11 12 13	a decade, at least a decade prior to when the online collaboration area was first rolled out. Is that correct?A. Approximately.	8 9 10 11	exist prior to that date?A. I believe that's correct.Q. And this just concerned the membership applications. Correct?
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8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 a decade, at least a decade prior to when the online collaboration area was first rolled out. Is that correct? A. Approximately. Q. So prior to when the online collaboration area was rolled out, how did task groups develop draft standards at ASTM? A. To my knowledge, it would have been at meetings. Q. Were these meetings organized by ASTM? A. Some of them. Q. But other meetings might not 	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 exist prior to that date? A. I believe that's correct. Q. And this just concerned the membership applications. Correct? MR. FEE: Objection. Vague. THE WITNESS: We also had them on our renewal forms, membership renewal forms. And then we also had them on our work item registration, and then our collaboration. BY MR. BECKER: Q. What is a work item registration form? A. It's for essentially opening up a new work item.
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8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 a decade, at least a decade prior to when the online collaboration area was first rolled out. Is that correct? A. Approximately. Q. So prior to when the online collaboration area was rolled out, how did task groups develop draft standards at ASTM? A. To my knowledge, it would have been at meetings. Q. Were these meetings organized by ASTM? A. Some of them. Q. But other meetings might not have been organized by ASTM, is that what you're saying? MR. FEE: Objection. Vague. 	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 exist prior to that date? A. I believe that's correct. Q. And this just concerned the membership applications. Correct? MR. FEE: Objection. Vague. THE WITNESS: We also had them on our renewal forms, membership renewal forms. And then we also had them on our work item registration, and then our collaboration. BY MR. BECKER: Q. What is a work item registration form? A. It's for essentially opening up a new work item. Q. What is a work item?

7 (Pages 22 - 25)

1	Q. And when was the language that	1	work item registration forms for ASTM?
2	you say concerns assignments of rights	2	A. No.
3	introduced to the work item form?	3	Q. And those individuals I
4	A. I think it was in about 2003,	4	described a moment ago, do they fill out
5	'04, '05, somewhere in there.	5	collaboration forms for ASTM?
6	Q. So somewhere in the 2003 to	6	A. Yes.
7	2005 period, you're not certain precisely	7	Q. They do. Are they required to
8	when?	8	fill out collaboration forms for ASTM in
9	A. I believe so.	9	order to participate in the development of a
10	Q. But it didn't exist on those	10	draft of a standard?
11	forms prior to at earliest 2003?	11	MR. FEE: Objection. Vague.
12	A. That's correct.	12	THE WITNESS: Yes.
13	Q. Who fills out a work item form?	13	BY MR. BECKER:
14	A. A member.	14	Q. From approximately what year
15	Q. Is it only ASTM members who	15	forward have individuals who are members of
16	fill out work item forms?	16	ASTM task groups but not themselves members
17	A. If a member would ask a staff		
		17	of ASTM been required to fill out
18	person to help facilitate filling out a form,	18	collaboration forms in order to participate
19	they may do that.	19	in the drafting of an ASTM standard?
20	Q. What is a collaboration form?	20	A. To my knowledge, since the
21	A. The collaboration, if a member	21	beginning.
22	wants to initiate a collaboration area, they	22	Q. When you say "since the
23	have to go through an online process to	23	beginning," what do you mean?
24	initiate it.	24	A. When we had when we created
25	Q. Just so I understand, is that	25	the form.
	Page 26		Page 28
1	to create the online collaboration area that	1	Q. So that would be approximately
2	you had described earlier as being a location	2	2003, you're saying?
3	online provided by ASTM where members of a	3	A. Yes.
4	task group could go to help develop the draft	4	Q. Were individuals who were
5	for a standard?	5	members of task groups but not themselves
6	A. Yes.	6	members of ASTM required to fill out any
7	Q. And so the collaboration form	7	forms in order to participate in the drafting
8	was only introduced after the collaboration	8	of an ASTM standard prior to 2003?
9	areas had been provided by ASTM to its	9	A. Not to my knowledge.
10	members?	10	Q. Is there any means by which
11	A. Yes.	11	ASTM claims that individuals who are who
12	Q. And when, again, did you say	12	were members of task groups but not
13	that that was?	13	themselves members of ASTM have assigned any
14	A. I think it was about 2003.	14	copyrights that they might have in the drafts
15	Q. People who are members of task	15	of the standards that were created and
16	groups for developing standards but are not	16	eventually published through ASTM to ASTM?
17	themselves ASTM members, do they fill out	17	MR. FEE: Objection. Calls for
18	membership applications for ASTM?	18	a legal conclusion. Instruct you not
19	A. No.	19	to disclose any communications you
20	Q. And those individuals who I	20	might have had with counsel regarding
21	just described a moment ago, do they fill out	21	that subject. If you have an
22	renewal forms for ASTM?	22	independent knowledge that is
23	A. No.	23	responsive, you can answer that.
24	Q. And those individuals who I	24	THE WITNESS: I don't know. Not
25	just described a moment ago, do they fill out	25	to my knowledge.
1-0	Jan and the second seco		
	Page 27		Page 29

8 (Pages 26 - 29)

1	a legal conclusion. Vague.	1	Participation and Acknowledgement Form has
2	Confusing. You can answer if you can.	2	ever been signed and returned to ASTM?
3	THE WITNESS: I think I'll	3	A. I don't know for sure, but I
4	answer it by just saying the purpose	4	would guess it has been.
5	of this form is for when an individual	5	Q. And what's your basis for
6	wants to bring a document into ASTM to	6	guessing that it has been?
7	make it into an ASTM standard.	7	A. I vaguely remember instances
8	BY MR. BECKER:	8	where we would have to use this.
9	Q. So this document is not	9	Q. And what instances were those?
10	required of every member of a task group who	10	A. I can't remember.
11	contributes original material to an ASTM	11	Q. What other information do you
12	standard draft?	12	recollect in conjunction with those instances
13	MR. FEE: Objection. Vague. To	13	where you believe that you had to use this
14	the extent it calls for a legal	14	form as you describe it?
15	conclusion.	15	MR. FEE: Objection. Vague.
16	THE WITNESS: This form would	16	THE WITNESS: The only thing I
17	not be.	17	can remember is members interested in
18	BY MR. BECKER:	18	bringing forward documents that they
19	Q. When is the last time, to your	19	were interested in having become ASTM
20	knowledge, that this form, Exhibit 1284, was	20	standard.
21	used by ASTM?	21	BY MR. BECKER:
22	A. I don't know.	22	Q. Prior to the introduction of
23	Q. Do you have any guess as to	23	the Participation and Acknowledgement Form in
24	what year this form was last used by ASTM?	24	approximately 2002, was there any means by
25	MR. FEE: Objection. Lack of	25	which ASTM had members of task groups who
	Page 38		Page 40
1	foundation. Calls for speculation.	1	contributed original contents to the drafts
2	THE WITNESS: I don't know.	2	of ASTM standards but were not themselves
3	BY MR. BECKER:	3	members of ASTM thereby transferred their
4	Q. Do you know any specific	4	copyrights to ASTM?
5	standards that this form was used in	5	MR. FEE: Objection. Calls for
6	conjunction with?	6	a legal conclusion. To the extent
7	A. I don't know offhand, no. No	7	0
8	specifics.	1	
-		8	you shouldn't disclose any communications you had with counsel
9	-	89	communications you had with counsel
9 10	Q. Does ASTM retain the signed	9	communications you had with counsel regarding the subject matter. If you
10	Q. Does ASTM retain the signed copies that it receives of this Participation	9 10	communications you had with counsel regarding the subject matter. If you have independent information that you
10 11	Q. Does ASTM retain the signed copies that it receives of this Participation and Acknowledgement Form?	9 10 11	communications you had with counsel regarding the subject matter. If you have independent information that you can share, go ahead and answer with
10 11 12	Q. Does ASTM retain the signed copies that it receives of this Participation and Acknowledgement Form?A. I'm not sure.	9 10 11 12	communications you had with counsel regarding the subject matter. If you have independent information that you can share, go ahead and answer with respect to that.
10 11 12 13	 Q. Does ASTM retain the signed copies that it receives of this Participation and Acknowledgement Form? A. I'm not sure. Q. Do you know how many of these 	9 10 11 12 13	communications you had with counsel regarding the subject matter. If you have independent information that you can share, go ahead and answer with respect to that. THE WITNESS: I'm not aware of
10 11 12 13 14	 Q. Does ASTM retain the signed copies that it receives of this Participation and Acknowledgement Form? A. I'm not sure. Q. Do you know how many of these Participation and Acknowledgement Forms have 	9 10 11 12 13 14	communications you had with counsel regarding the subject matter. If you have independent information that you can share, go ahead and answer with respect to that. THE WITNESS: I'm not aware of any formal forms that we used prior to
10 11 12 13 14 15	 Q. Does ASTM retain the signed copies that it receives of this Participation and Acknowledgement Form? A. I'm not sure. Q. Do you know how many of these Participation and Acknowledgement Forms have been signed and returned to ASTM? 	9 10 11 12 13 14 15	communications you had with counsel regarding the subject matter. If you have independent information that you can share, go ahead and answer with respect to that. THE WITNESS: I'm not aware of any formal forms that we used prior to 2003.
10 11 12 13 14 15 16	 Q. Does ASTM retain the signed copies that it receives of this Participation and Acknowledgement Form? A. I'm not sure. Q. Do you know how many of these Participation and Acknowledgement Forms have been signed and returned to ASTM? A. No. 	9 10 11 12 13 14 15 16	communications you had with counsel regarding the subject matter. If you have independent information that you can share, go ahead and answer with respect to that. THE WITNESS: I'm not aware of any formal forms that we used prior to 2003. BY MR. BECKER:
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2	Q. I'm simply asking because you	2	BY MR. BECKER:
3	say you're not aware any formal forms that	3	Q. The basic understanding that
4	are used prior to 2003. So I'm asking if	4	you just described, how is that basic
5	there were any informal means by which ASTM	5	understanding documented?
6	believes that individuals transferred their	6	MR. FEE: Objection. Again,
7	copyright to ASTM prior to 2003?	7	instruct you not to disclose
8	MR. FEE: Objection. Calls for	8	communications with counsel on that
9	a legal conclusion. You shouldn't	9	subject, but if you have other
10	disclose your communications with	10	information, you can go ahead and
11	counsel on this subject, but if you	11	disclose that.
12	have other information, you can answer	12	THE WITNESS: I'm not sure what
13	about that.	13	you mean by "documented."
14	THE WITNESS: I don't believe	14	BY MR. BECKER:
15	we didn't feel like we needed any	15	Q. Are there any documents that
16	formal, any formal assignment paper.	16	reflect the basic understanding that you just
17	BY MR. BECKER:	17	described concerning the reasons for
18	Q. Why didn't ASTM feel like it	18	individuals contributing in the drafting of
19	needed any formal assignment paper?	19	ASTM standards?
20	MR. FEE: Objection. Calls for	20	A. No, we didn't feel like
21	a legal conclusion. You shouldn't	21	documentation was needed.
22	disclose any communication you had	22	Q. Does ASTM have any documents to
23	with counsel regarding the subject,	23	support its position that there was a basic
24	but if you have any other information	24	understanding between the members who
25	that's responsive, you can answer	25	excuse me, let me rephrase that.
	Page 42		Page 44
1	about that.	1	Does ASTM have any documents to
2	THE WITNESS: Because we felt	2	support its position that there was a basic
3	that there was a basic understanding,	3	understanding between the individuals who
4	there is a basic understanding today	4	drafted ASTM standards and ASTM that the
5	and there's been a basic understanding	5	copyright in those standards were to belong
6	for as long as ASTM has been around	6	to ASTM?
7	that the reason they come to the table	7	MR. FEE: Objection. Instruct
8	is for the sole purpose of developing	8	you not to disclose communications
9	an ASTM standard that will receive a	9	with counsel on that subject. If
10	logo, and that will be copyrighted and	10	you're aware of other documents, you
11	be distributed. Our members buy the	11	can go ahead and respond with respect
12	resulting standards from ASTM. We've	12	to them.
13	never, that I can recall, have had a	13	THE WITNESS: I'm not aware of
14	member or a nonmember take issue with	14	any documents.
			•
15		15	BY MR BECKER
15 16	ASTM selling the resulting copyrighted	15 16	BY MR. BECKER: O Just a moment ago you were
16	ASTM selling the resulting copyrighted standard to them and to others. I	16	Q. Just a moment ago you were
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16 17 18	ASTM selling the resulting copyrighted standard to them and to others. I believe that the reason they come to the table is because they want	16 17 18	Q. Just a moment ago you were describing the reasons why people participate in the drafting of ASTM standards. Could you
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4	are used prior to 2003. So I'm asking if	4	you just described, how is that basic
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10	disclose your communications with	10	information, you can go ahead and
11	counsel on this subject, but if you	11	disclose that.
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13	about that.	13	you mean by "documented."
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18	Q. Why didn't ASTM feel like it	18	individuals contributing in the drafting of
19	needed any formal assignment paper?	19	ASTM standards?
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21	a legal conclusion. You shouldn't	21	documentation was needed.
22	disclose any communication you had	22	Q. Does ASTM have any documents to
23	with counsel regarding the subject,	23	support its position that there was a basic
24	but if you have any other information	24	understanding between the members who
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	Page 42		Page 44
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3	that there was a basic understanding,	3	understanding between the individuals who
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1	a company or an individual would be	1	you might think are responsive to
2	interested in having an ASTM standard	2	that. If you have other information,
3	that they could say their product or	3	you can go ahead and answer.
4	service is in compliance with.	4	THE WITNESS: My understanding
5	BY MR. BECKER:	5	is that the members join as
6	Q. Are there any other reasons?	6	individuals, and that when they come
7	MR. FEE: Objection.	7	to an ASTM meeting, they're
8	THE WITNESS: I'm sure there are	8	contributing their own knowledge to
9	other reasons, I just can't think of	9	the ASTM standard.
10	any right now.	10	BY MR. BECKER:
11	BY MR. BECKER:	11	Q. When you say that's your
12	Q. Does ASTM have any forms by	12	understanding, is that also ASTM's
13	which companies have assigned any copyrights		understanding?
13	that they may have in the draft standards to	13	A. Yes.
14	ASTM?	14	MR. FEE: Same objections.
16	MR. FEE: Objection. To the	15	THE WITNESS: Yes.
17	extent it calls for a legal	17	MR. FEE: And instructions.
18	conclusion, I instruct you not to	17	BY MR. BECKER:
10	disclose communications with counsel	10 19	
20		20	Q. When you say "members join as
	on this subject, but if you have any		individuals," does this also include
21	documents to identify, go ahead.	21	individuals who are government employees?
22 23	THE WITNESS: I'm not aware of	22	A. Yes.
23	any. BY MR. BECKER:	23 24	Q. Does ASTM believe that
24		24 25	government employees who are acting within the scope of their employment by the federal
25	Q. Does ASTM distinguish between Page 46	25	Page 48
	<u> </u>		-
1		1	
1	companies and individuals in the in its	1	government join as individuals when they join
2	understanding of the granting of copyright	2	ASTM?
2 3	understanding of the granting of copyright rights to ASTM?	2 3	ASTM? MR. FEE: Objection. Calls for
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13 (Pages 46 - 49)

1	experience in sitting in the meetings	1	you mean by "differently."
2	and observing the individual members	2	BY MR. BECKER:
3	contribute to the development of the	3	Q. Is there a specific
4	standards.	4	classification that's given to government
5	BY MR. BECKER:	5	employees who participate in the development
6	Q. What about those contributions	6	of standards under ASTM?
7	of those members gave you that impression?	7	A. They're given a classification
8	MR. FEE: Objection. Calls for	8	just as all other members are.
9	a legal conclusion. Compound.	9	Q. And what is that classification?
10	THE WITNESS: I'm not thinking	10	A. It could either be a producer,
11	of any one example. I'm just thinking	11	user, general interest, depending upon the
12	over time in all of my different	12	scope of the committee.
13	committees and all the different	13	Q. Would a federal government
14	meetings that I've attended, to me it	14	employee count as a producer?
15	appears that people are contributing	15	A. I can't think of a situation
16	off the cuff spontaneously in the	16	where they would be.
17	development of the standard.	17	Q. Would a federal government
18	BY MR. BECKER:	18	employee count as a user?
19	Q. When they participate, do	19	A. They may.
20	members of the federal government use their	20	Q. Would a federal government
21	federal government issued e-mail addresses?	21	employee count as a general interest member?
22	MR. FEE: Objection. Compound.	22	A. They may.
23	Calls for speculation.	23	Q. In what circumstances might a
24	THE WITNESS: They may or they	24	federal government employee count as a user
25	may not.	25	versus a general interest member?
	Page 54		Page 56
1	DV MD DECKED	1	A It does not a set the second of the
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	BY MR. BECKER:	1	A. It depends on the scope of the
2	Q. What is it about off-the-cuff	2	committee.
2 3	Q. What is it about off-the-cuff or spontaneous contributions that you think	2 3	committee. Q. Could you give some examples?
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15 (Pages 54 - 57)

1 of the questions we've discussed so far 1 1 1 2 today? (Exhibit 1285, Intellectual 3 A. Relative to our members? 3 Property Policy of ASTM, Bates 4 awareness that fley're assigning copyrights 4 ASTM1032277 - ASTM 103284, was marked 6 question prior to 2003. 6 7 Q. Yes. 7 BY MR, BECKER: 8 9 or that as well. 10 Intellectual Property Policy of ASTM that you 11 Q. And when was ASTM's 11 had you may the port y Policy of ASTM that you 11 as well. 10 Intellectual Property Policy of ASTM that you 12 Intellectual Property Policy of ASTM that you 11 had you believe contributes to ASTM's belief that 13 you believe contributes to ASTM's belief that 19 A. I believe there were the port policy of ASTM standards was owned by ASTM'2 12 drafting of ASTM standards was owned by ASTM'2 Q. Is usy that at the top of the 2 mentioned before or are you excluding 24 A. That's correct. 2				
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16 (Pages 58 - 61)

1	Q. What did you discuss with Jim	1	Q. Did Jim Thomas say all of that
2	Thomas when you met with him then?	2	to you? When I say "all of that," I'm
3	A. I asked Jim about any memory	3	referring to your previous statement that you
4	that he has relative to assignments of	4	attributed to Jim Thomas, were all of those
5	copyright.	5	statements from Jim Thomas?
6	Q. And what did he say?	6	MR. FEE: Objection. Compound.
7	A. Pretty much what I've explained	7	THE WITNESS: Jim has told me
8	to you relative to formally getting	8	and I have seen Jim do these
9	documentation from our members on assignment	9	presentations.
10	from 2003 to the present relative to our	10	BY MR. BECKER:
11	renewal forms, membership application forms,	11	Q. When you spoke with Jim Thomas
12	collaboration area. And then prior to that,	12	on Tuesday, did he say that a member has
13	Jim's recollection and feelings were that	13	never challenged the copyright assertions by
14	copyright assignment from our members was a	14	ASTM?
15	very basic understanding that our members had	15	A. Yes.
16	and our staff have had, the sole purpose they	16	Q. And when you met with Jim
17	come to an ASTM meeting is to develop a	17	Thomas on Tuesday, did he say that the fact
18	standard that's going to result in an ASTM	18	that ASTM sells standards to its members is a
19	approved standard with a logo on it that's	19	basis for why there may be an understanding
20	copyrighted.	20	that by ASTM members, that their
21	Q. Did Mr. Thomas identify any	21	contributions would be copyrighted by ASTM?
22	basis for his belief that copyright	22	A. He had indicated that the fact
23	assignment from ASTM members was a very basic	23	that we sell the standards back to our
24	understanding, as you described it, that ASTM	24	members is probably a real good indication
25	members had with the purpose of developing an	25	that there's a basic understanding from our
	Page 94		Page 96
1	ASTM standard?	1	manula and the states and a second all the states is 1
1	AS I WI Stalluaru ?	1	members that we are copyrighting the material
$\begin{vmatrix} 1\\2 \end{vmatrix}$	A. Can you explain?	1 2	that they contribute.
2	A. Can you explain?	2	that they contribute.
2 3	A. Can you explain?Q. Let me rephrase that. Did	2 3 4	that they contribute. Q. Did Jim Thomas say anything
2 3 4	A. Can you explain?Q. Let me rephrase that. DidMr. Thomas identify any basis for his belief	2 3 4	that they contribute.Q. Did Jim Thomas say anythingelse to you when you met with him on Tuesday?
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25 (Pages 94 - 97)

1			
	THE WITNESS: They have to pay	1	A. No.
2	\$75 to be a member, but they don't	2	Q. When was that meeting?
3	have to pay \$75 to participate. So an	3	A. That meeting was yesterday.
4	individual can participate without	4	Q. So Mr. Pace provided no
5	paying ASTM.	5	information to you on the subject of
6	BY MR. BECKER:	6	copyright by individuals to ASTM?
7	Q. What are the differences that	7	A. No.
8	individuals who are members of ASTM enjoy in	8	MR. FEE: Objection. Vague.
9	their participation in the standard drafting	9	BY MR. BECKER:
10	process versus individuals who are not	10	Q. A moment ago you referred to
11	members?	11	presentations by Jim Thomas. Can you give
12	MR. FEE: Objection. Vague.	12	any specific can you tell me about any
13	THE WITNESS: They get to	13	specific presentations by Jim Thomas that you
14	free volume of standards and they get	14	think address issues of copyright ownership
15	to vote. When it's on the ballots,	15	by ASTM?
16	they get to cast votes. Nonmembers do	16	A. I can't recall any
17	not.	17	presentations that he did specific on that
18	BY MR. BECKER:	18	subject.
19	Q. When you say "on the ballots,"	19	Q. What presentations were you
20	what ballots are you referring to?	$\frac{19}{20}$	referring to?
20	A. On the technical standards.	$\frac{20}{21}$	A. At ASTM conferences where we
$\begin{vmatrix} 21\\22 \end{vmatrix}$		$21 \\ 22$	
	Q. Are those ballots for voting up		have breakfast meetings with all of the
23	or down on the revision or creation of	23	individuals attending that meeting, are
24	particular standards?	24	invited to a breakfast meeting. And we hold
25	A. Correct.	25	them in four different committee weeks; in
	Page 98		Page 100
1	Q. Have you had any other	1	January, April, May and June of every year.
2	communications with Jim Thomas about your	2	I've heard Jim Thomas talk about what I said
3	deposition today other than the meeting you	3	at those breakfast meetings.
4	had with him on Tuesday?	4	Q. Do you recall on what dates
5	A. No.	5	Mr. Thomas spoke about those issues at
6	Q. And have you had any	6	breakfast meetings?
7	communications with Marge Cassidy in	7	
			A. I can't provide specific dates.
8	preparation for your deposition today other	8	1 1
	preparation for your deposition today other than the meeting that you had with her?	8 9	Q. Do you have general dates as in
9	than the meeting that you had with her?	9	Q. Do you have general dates as in this year, last year or the year prior?
9 10	than the meeting that you had with her? A. No.	9 10	Q. Do you have general dates as in this year, last year or the year prior?A. I believe it was this year was
9 10 11	than the meeting that you had with her?A. No.Q. You said you met with John	9 10 11	Q. Do you have general dates as in this year, last year or the year prior?A. I believe it was this year was mentioned. And it was probably last year as
9 10 11 12	than the meeting that you had with her?A. No.Q. You said you met with JohnPace, the vice president of publications, as	9 10 11 12	Q. Do you have general dates as in this year, last year or the year prior?A. I believe it was this year was mentioned. And it was probably last year as well.
9 10 11 12 13	than the meeting that you had with her?A. No.Q. You said you met with JohnPace, the vice president of publications, as well in preparation for your deposition	9 10 11 12 13	 Q. Do you have general dates as in this year, last year or the year prior? A. I believe it was this year was mentioned. And it was probably last year as well. Q. Do you recall Mr. Thomas
9 10 11 12 13 14	than the meeting that you had with her?A. No.Q. You said you met with JohnPace, the vice president of publications, as well in preparation for your deposition today. Correct?	9 10 11 12 13 14	 Q. Do you have general dates as in this year, last year or the year prior? A. I believe it was this year was mentioned. And it was probably last year as well. Q. Do you recall Mr. Thomas mentioning anything on this subject prior to
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9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 than the meeting that you had with her? A. No. Q. You said you met with John Pace, the vice president of publications, as well in preparation for your deposition today. Correct? A. Uh-huh. Q. What did you discuss with Mr. Pace? A. Any knowledge that he would have relative to the assignment of copyright from our members. Q. What did Mr. Pace say? A. He didn't provide any input. He didn't have any knowledge. 	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. Do you have general dates as in this year, last year or the year prior? A. I believe it was this year was mentioned. And it was probably last year as well. Q. Do you recall Mr. Thomas mentioning anything on this subject prior to last year? A. I can't say for sure. Q. Are these breakfast meetings recorded in any way? A. No. Q. Are there any minutes kept of the breakfast meetings? A. No, but we have annual our annual meeting we may have minutes from
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9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 than the meeting that you had with her? A. No. Q. You said you met with John Pace, the vice president of publications, as well in preparation for your deposition today. Correct? A. Uh-huh. Q. What did you discuss with Mr. Pace? A. Any knowledge that he would have relative to the assignment of copyright from our members. Q. What did Mr. Pace say? A. He didn't provide any input. He didn't have any knowledge. 	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. Do you have general dates as in this year, last year or the year prior? A. I believe it was this year was mentioned. And it was probably last year as well. Q. Do you recall Mr. Thomas mentioning anything on this subject prior to last year? A. I can't say for sure. Q. Are these breakfast meetings recorded in any way? A. No. Q. Are there any minutes kept of the breakfast meetings? A. No, but we have annual our annual meeting we may have minutes from

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1	presentation slides that are available for	1	helped create the electronic version of the
2	our annual meetings.	2	forms that appear on the ASTM Web site. Is
3	Q. You said you also meet with	3	that what you're saying?
4	Phil Lively, the vice president of	4	MR. FEE: Objection. Compound.
5	technology. Is that correct?	5	THE WITNESS: I'm not sure what
6	A. Yes.	6	exactly you mean by that, but
7	Q. When did you meet with him?	7	essentially he was able to accomplish
8	A. I met with Phil yesterday.	8	getting the language up onto the
9	Q. What did you speak with Phil	9	screens so that the members can
10	Lively about yesterday?	10	acknowledge the statement during the
11	A. About copyright assignments for	11	process.
12	members to ASTM.	12	BY MR. BECKER:
13	Q. And what did Phil Lively tell	13	Q. Did Mr. Lively draft any of the
14	you?	14	language on the membership application or
15	A. About his involvement and help	15	renewal forms or any of the other forms that
16	with having the language that we talked about	16	you're describing?
17	earlier on the membership application screens	17	MR. FEE: Objection. Compound.
18	and the membership renewal screens and the	18	THE WITNESS: I don't believe
19	collaboration area screen and the work item	19	so.
20	registration screens.	20	BY MR. BECKER:
21	Q. When you say, "the language	21	Q. What did Mr. Lively tell you
22	that we talked about earlier," are you	22	about the work that he did related to
23	referring to language that ASTM believes	23	copyright assignments?
24	assigns copyright from individuals to ASTM?	24	A. Just that he could remember
25	MR. FEE: Objection. Calls for	25	helping with putting the information up on
	Page 102		Page 104
1	a legal conclusion.	1	the Web screens, and he could remember when
2	THE WITNESS: The language that	2	he was a staff manager back in the very
3	we talked about that is on the	3	beginning time, I think it was early '80s
4	membership applications, yes. That	4	when he was a staff manager, and kind of
5	the members acknowledge when they're	5	reiterating what I had previously said about
6	either registering a work item or	6	there being an understanding that our members
7	joining as a new member or renewing	7	understand that their contributions to ASTM,
8	their membership or opening up a	8	is well understood that we're going to
9	collaboration area that assigns all of	9	copyright that material.
10	their past, present and future	10	Q. Did Mr. Lively provide any
11	contributions to ASTM standards	11	basis for his statement that there was an
12	into ASTM standards to ASTM.	12	understanding in the early '80s that ASTM
13	BY MR. BECKER:	13	would copyright the material provided by
14	Q. What was Mr. Lively's	14	individuals that was incorporated into the
15	involvement in the language that you are	15	standard drafts?
16	referring to?	16	A. Can you repeat that question?
17	MR. FEE: Objection. Vague.	17	Q. Yes. Did Mr. Lively provide
18	THE WITNESS: He helped us with,	18	any basis for his statement that there was an
19	from a technology standpoint, getting	19	understanding in the early '80s that ASTM
20	that language up onto our Web site,	20	would copyright the material provided by
21	onto the screens.	21	individuals that was incorporated into the
22	BY MR. BECKER:	22	standard drafts?
23	Q. So you're saying that	23	A. No. I think it was just his
24	Mr. Lively was involved in the Mr. Lively	24	belief just as it was my belief.
1 - T			· ·
25	did not draft the language, but Mr. Lively	25	Q. Did you discuss anything else
	did not draft the language, but Mr. Lively Page 103	25	Q. Did you discuss anything else Page 105

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1 of any organizations typically sign up for organizational memberships? 1 answered. 3 MR. FEE: Objection. Vague. 3 designate a member, an employee to participate on technical committees. 6 BY MR. BECKER: 6 Q. What's the difference between what you just sid and an organizational members of technical committees? 7 A. Can organizational members be members of technical committees? 9 an individual to participate on technical committees on its behalf? 11 preding. 11 MR. FEE: There's no question 10 12 BY MR. BECKER: 12 Mischaractrizes his testimony to the executed copyright assignments for ASTM? 13 Q. The sorry, what were you about 13 executed copyright assignments for ASTM? 14 na organizational 15 THE WITNESS: An organizational members executed copyright assignments for a number to represent in a a collaboration area, they would make an assignment, and if they registered a work 16 members you repeat that question? 14 through the renewal applications that we talked about earlier, individual members you're saying would also relate to organizational members sign up for 10 representative of that organizational assignment, and if they registered a work 15 through the renewal applications that would relate organizational members were s				_
3MR, FEE: Objection. Vague. Beyond the scope of his designation. THE WITNESS: I don't know. 63designate a member, an employee to participate on technical committees. 56BY MR, BECKER: 06Q. What's the difference between what you just said and an organizational member designating an individual to participate on technical committees on its behal?7Q. Can organizational members a member s are members of technical committees? Pending.8member designating an individual to participate on technical committees on its behal?12BY MR, BECKER: 1311MR, FEE: Objection.1114to say?11MR, FEE: Objection.15A. I believe all organizational members are members of technical committees. 1616THE WITNESS: An organizational member is an individual, it's not the organization. 1716MA Not to my knowledge. Im a sorther any organizational a collaboration area, they would make an a scollaboration area, they would make an a signment, for they registered a work t it through the membership a collaboration area, they would make an a signment. a collaboration area, they would make an a signment, and if they registered a work t item, they would make an asignment. c Q. How do organizational members. membership?113A. Through the members, when a page 168114through an embers when a organizational members. then, they would make an asignment. a collaboration area, they would make an a signment for they registered a work t it movel the sign applications that we take about earlier, if they're involved in a collaboration members. ten,	1	of any organizations typically sign up for	1	answered.
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5 THE WITNESS: I don't know. 5 BY MR. BECKER: 6 Q. Wha's the difference between 6 BY MR. BECKER: 6 Q. Wha's the difference between 7 Q. Can organizational members be 7 what you just said and an organizational 8 members of technical committees? 9 participate on technical committees on its 10 MR. FEE: There's no question 10 behalf? 11 pending. 11 MR. FEE: Objection. 12 BY MR. BECKER: 12 Mix characterizes his testimony to the 13 Q. Tm sorry, what were you about 13 extent it purports to summarize it. 14 to say? 14 You can answer. 17 15 A. I believe all organizational 17 organizational members are members of technical committees. 18 16 members are members of technical committees. 17 organizational members are members of technical committee. 19 21 Q. Yes. Have any organizational 21 BY MR. BECKER: 22 Q. When you say the organization 22 Max An Through the membership 21 BY MR. BECKER: 22		v v		
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21BY MR. BECKER:21the organization's the22Q.Do organizational members22organizational views.23designate an individual to participate on23BY MR. BECKER:24their behalf?24Q.For organizational memberships,25MR. FEE: Objection. Asked and25does the organization itself typically pay	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	talked about earlier, if they're involved in a collaboration area, they would make an assignment, and if they registered a work item, they would make an assignment. Q. So those are the same the same assignment language that would relate to individual members you're saying would also relate to organizational members when organizational members sign up for membership? A. Correct. Q. How do organizational members participate in technical committees? A. The same way as participating members, individual members. Q. Can you elaborate on that?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 A. Maybe. Q. Does ASTM have any knowledge as to whether organizational members, when they designate an individual to participate in a technical committee, whether those organizations are designating that individual on the organization's behalf? MR. FEE: Objection. Vague. May call for a legal conclusion. THE WITNESS: I think it varies. I think organizational again, organizations that choose to support ASTM through an organizational membership designate an individual to participate on a technical committee. That individual may be contributing to
22Q.Do organizational members22organizational views.23designate an individual to participate on23BY MR. BECKER:24their behalf?24Q.For organizational memberships,25MR. FEE: Objection. Asked and25does the organization itself typically pay	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 talked about earlier, if they're involved in a collaboration area, they would make an assignment, and if they registered a work item, they would make an assignment. Q. So those are the same the same assignment language that would relate to individual members you're saying would also relate to organizational members when organizational members sign up for membership? A. Correct. Q. How do organizational members participate in technical committees? A. The same way as participating members, individual members. Q. Can you elaborate on that? MR. FEE: Objection. Vague. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 A. Maybe. Q. Does ASTM have any knowledge as to whether organizational members, when they designate an individual to participate in a technical committee, whether those organizations are designating that individual on the organization's behalf? MR. FEE: Objection. Vague. May call for a legal conclusion. THE WITNESS: I think it varies. I think organizational again, organizations that choose to support ASTM through an organizational membership designate an individual to participate on a technical committee. That individual may be contributing to the content of ASTM standards as an
22Q.Do organizational members22organizational views.23designate an individual to participate on23BY MR. BECKER:24their behalf?24Q.For organizational memberships,25MR. FEE: Objection. Asked and25does the organization itself typically pay	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 talked about earlier, if they're involved in a collaboration area, they would make an assignment, and if they registered a work item, they would make an assignment. Q. So those are the same the same assignment language that would relate to individual members you're saying would also relate to organizational members when organizational members sign up for membership? A. Correct. Q. How do organizational members participate in technical committees? A. The same way as participating members, individual members. Q. Can you elaborate on that? MR. FEE: Objection. Vague. THE WITNESS: I don't think I 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 A. Maybe. Q. Does ASTM have any knowledge as to whether organizational members, when they designate an individual to participate in a technical committee, whether those organizations are designating that individual on the organization's behalf? MR. FEE: Objection. Vague. May call for a legal conclusion. THE WITNESS: I think it varies. I think organizational again, organizations that choose to support ASTM through an organizational membership designate an individual to participate on a technical committee. That individual may be contributing to the content of ASTM standards as an individual even as an organizational
23designate an individual to participate on23BY MR. BECKER:24their behalf?24Q.For organizational memberships,25MR. FEE: Objection. Asked and25does the organization itself typically pay	$ \begin{array}{c} 2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\\end{array} $	 talked about earlier, if they're involved in a collaboration area, they would make an assignment, and if they registered a work item, they would make an assignment. Q. So those are the same the same assignment language that would relate to individual members you're saying would also relate to organizational members when organizational members sign up for membership? A. Correct. Q. How do organizational members participate in technical committees? A. The same way as participating members, individual members. Q. Can you elaborate on that? MR. FEE: Objection. Vague. THE WITNESS: I don't think I can. There's no difference. 	$ \begin{array}{c} 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 17 \\ 18 \\ 19 \\ 20 \\ \end{array} $	 A. Maybe. Q. Does ASTM have any knowledge as to whether organizational members, when they designate an individual to participate in a technical committee, whether those organizations are designating that individual on the organization's behalf? MR. FEE: Objection. Vague. May call for a legal conclusion. THE WITNESS: I think it varies. I think organizational again, organizations that choose to support ASTM through an organizational membership designate an individual to participate on a technical committee. That individual may be contributing to the content of ASTM standards as an individual even as an organizational member, not necessarily representing
24their behalf?24Q.For organizational memberships,25MR. FEE: Objection. Asked and25does the organization itself typically pay	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	talked about earlier, if they're involved in a collaboration area, they would make an assignment, and if they registered a work item, they would make an assignment. Q. So those are the same the same assignment language that would relate to individual members you're saying would also relate to organizational members when organizational members sign up for membership? A. Correct. Q. How do organizational members participate in technical committees? A. The same way as participating members, individual members. Q. Can you elaborate on that? MR. FEE: Objection. Vague. THE WITNESS: I don't think I can. There's no difference. BY MR. BECKER:	$\begin{array}{c} 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 17 \\ 18 \\ 19 \\ 20 \\ 21 \end{array}$	 A. Maybe. Q. Does ASTM have any knowledge as to whether organizational members, when they designate an individual to participate in a technical committee, whether those organizations are designating that individual on the organization's behalf? MR. FEE: Objection. Vague. May call for a legal conclusion. THE WITNESS: I think it varies. I think organizational again, organizations that choose to support ASTM through an organizational membership designate an individual to participate on a technical committee. That individual may be contributing to the content of ASTM standards as an individual even as an organizational member, not necessarily representing the organization's the
25 MR. FEE: Objection. Asked and 25 does the organization itself typically pay	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 talked about earlier, if they're involved in a collaboration area, they would make an assignment, and if they registered a work item, they would make an assignment. Q. So those are the same the same assignment language that would relate to individual members you're saying would also relate to organizational members when organizational members sign up for membership? A. Correct. Q. How do organizational members participate in technical committees? A. The same way as participating members, individual members. Q. Can you elaborate on that? MR. FEE: Objection. Vague. THE WITNESS: I don't think I can. There's no difference. BY MR. BECKER: Q. Do organizational members 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A. Maybe. Q. Does ASTM have any knowledge as to whether organizational members, when they designate an individual to participate in a technical committee, whether those organizations are designating that individual on the organization's behalf? MR. FEE: Objection. Vague. May call for a legal conclusion. THE WITNESS: I think it varies. I think organizational again, organizations that choose to support ASTM through an organizational membership designate an individual to participate on a technical committee. That individual may be contributing to the content of ASTM standards as an individual even as an organizational member, not necessarily representing the organization's the organizational views.
	$\begin{array}{c} 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ 19\\ 20\\ 21\\ 22\\ 23\\ \end{array}$	 talked about earlier, if they're involved in a collaboration area, they would make an assignment, and if they registered a work item, they would make an assignment. Q. So those are the same the same assignment language that would relate to individual members you're saying would also relate to organizational members when organizational members sign up for membership? A. Correct. Q. How do organizational members participate in technical committees? A. The same way as participating members, individual members. Q. Can you elaborate on that? MR. FEE: Objection. Vague. THE WITNESS: I don't think I can. There's no difference. BY MR. BECKER: Q. Do organizational members 	$\begin{array}{c} 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 17 \\ 18 \\ 19 \\ 20 \\ 21 \\ 22 \\ 23 \end{array}$	 A. Maybe. Q. Does ASTM have any knowledge as to whether organizational members, when they designate an individual to participate in a technical committee, whether those organizations are designating that individual on the organization's behalf? MR. FEE: Objection. Vague. May call for a legal conclusion. THE WITNESS: I think it varies. I think organizational again, organizations that choose to support ASTM through an organizational membership designate an individual to participate on a technical committee. That individual may be contributing to the content of ASTM standards as an individual even as an organizational member, not necessarily representing the organizational views. BY MR. BECKER:
	$\begin{array}{c} 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ 19\\ 20\\ 21\\ 22\\ 23\\ 24\\ \end{array}$	talked about earlier, if they're involved in a collaboration area, they would make an assignment, and if they registered a work item, they would make an assignment. Q. So those are the same the same assignment language that would relate to individual members you're saying would also relate to organizational members when organizational members sign up for membership? A. Correct. Q. How do organizational members participate in technical committees? A. The same way as participating members, individual members. Q. Can you elaborate on that? MR. FEE: Objection. Vague. THE WITNESS: I don't think I can. There's no difference. BY MR. BECKER: Q. Do organizational members designate an individual to participate on their behalf?	$2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 17 \\ 18 \\ 19 \\ 20 \\ 21 \\ 22 \\ 23 \\ 24 $	 A. Maybe. Q. Does ASTM have any knowledge as to whether organizational members, when they designate an individual to participate in a technical committee, whether those organizations are designating that individual on the organization's behalf? MR. FEE: Objection. Vague. May call for a legal conclusion. THE WITNESS: I think it varies. I think organizational again, organizations that choose to support ASTM through an organizational membership designate an individual to participate on a technical committee. That individual may be contributing to the content of ASTM standards as an individual even as an organizational member, not necessarily representing the organizational views. BY MR. BECKER: Q. For organizational memberships,

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1	the \$400 fee?	1	MR. FEE: Objection. This is
2	MR. FEE: Objection. Calls for	2	beyond the scope of his designation.
3	speculation.	3	THE WITNESS: No.
4	THE WITNESS: I don't know for	4	MR. BECKER: For the record, I
5	sure. Not necessarily. But probably	5	don't believe that this is beyond his
6	in most cases, probably.	6	designation as this concerns an
7	BY MR. BECKER:	7	organizational membership renewal.
8	Q. Do you know of any instance	8	MR. FEE: I don't think he was
9	when a person indicated that he or she	9	designated to authenticate checks from
10	disagreed with his or her organization's	10	2013, but we'll agree to disagree.
11	position with respect to an action on a	11	BY MR. BECKER:
12	technical committee?	12	Q. Does this document indicate to
13	A. No.	13	you that the Department of Consumer Affairs
14	Q. Do you know of any instance	14	from the State of California had paid for an
15	when an individual indicated that he or she	15	organizational membership renewal with ASTM?
16	was specifically speaking on his or her own	16	MR. FEE: Objection. Calls for
17	behalf as apart from the organization that he	17	speculation. Beyond the scope of his
18	or she is part of?	18	designation.
19	A. No.	19	THE WITNESS: I guess you could
20	Q. Are any U.S. federal agencies	20	assume that. I don't know for sure.
21	organizational members of ASTM?	21	BY MR. BECKER:
22	A. I don't know.	22	Q. Do you have any reason for
23	Q. Who would know if any federal	23	thinking this that's not what this
24	agencies are organizational members of ASTM?	24	document shows?
25	MR. FEE: Objection. Calls for	25	MR. FEE: Same objections.
	Page 170		Page 172
1	speculation. Also beyond the scope of	1	THE WITNESS: No, no reason not
2	his designation.	2	to believe.
3	THE WITNESS: We have an	3	
4	organizational member directory on the	4	(Exhibit 1293, 2011 Membership
5	Web site.	5	renewal invoices, Bates ASTM086030 -
6	BY MR. BECKER:	6	ASTM086031, was marked for
7	Q. And where on the Web site is	7	identification.)
8	that organizational member directory located?	8	
9	A. I think it's on the membership	9	BY MR. BECKER:
10	page.	10	Q. I'm handing you what's been
11		11	marked as Exhibit 1293. This is the document
12	(Exhibit 1292, Check, Bates	12	produced by plaintiffs as ASTM086030 to
13	ASTM049368, was marked for	13	086031. Can you tell me what this document
1			•
14	identification.)	14	is?
14 15		14 15	A. It is a 2011 membership renewal
15	identification.) BY MR. BECKER:	15	A. It is a 2011 membership renewal
15 16	identification.) BY MR. BECKER:	15 16	A. It is a 2011 membership renewal invoice.Q. It is a different 2011
15 16 17	identification.) BY MR. BECKER: Q. I'm handing you what's been marked as 1292. This is the document	15 16 17	A. It is a 2011 membership renewal invoice.
15 16 17 18	identification.) BY MR. BECKER: Q. I'm handing you what's been	15 16 17 18	A. It is a 2011 membership renewal invoice.Q. It is a different 2011 membership renewal invoice on each side. Correct?
15 16 17 18 19	identification.) BY MR. BECKER: Q. I'm handing you what's been marked as 1292. This is the document produced by plaintiffs as Bates number ASTM049368.	15 16 17 18 19	 A. It is a 2011 membership renewal invoice. Q. It is a different 2011 membership renewal invoice on each side. Correct? A. Yeah. For different persons,
15 16 17 18 19 20	identification.) BY MR. BECKER: Q. I'm handing you what's been marked as 1292. This is the document produced by plaintiffs as Bates number	15 16 17 18 19 20	 A. It is a 2011 membership renewal invoice. Q. It is a different 2011 membership renewal invoice on each side. Correct? A. Yeah. For different persons, yeah.
15 16 17 18 19 20 21	identification.) BY MR. BECKER: Q. I'm handing you what's been marked as 1292. This is the document produced by plaintiffs as Bates number ASTM049368. Do you recognize this document? A. No.	15 16 17 18 19 20 21	 A. It is a 2011 membership renewal invoice. Q. It is a different 2011 membership renewal invoice on each side. Correct? A. Yeah. For different persons, yeah.
15 16 17 18 19 20 21 22 23	identification.) BY MR. BECKER: Q. I'm handing you what's been marked as 1292. This is the document produced by plaintiffs as Bates number ASTM049368. Do you recognize this document? A. No. Q. Do you have any reason to	15 16 17 18 19 20 21 22 23	 A. It is a 2011 membership renewal invoice. Q. It is a different 2011 membership renewal invoice on each side. Correct? A. Yeah. For different persons, yeah. Q. And these persons are employees of NIST. Is that correct?
15 16 17 18 19 20 21 22	identification.) BY MR. BECKER: Q. I'm handing you what's been marked as 1292. This is the document produced by plaintiffs as Bates number ASTM049368. Do you recognize this document? A. No.	15 16 17 18 19 20 21 22 23 24	 A. It is a 2011 membership renewal invoice. Q. It is a different 2011 membership renewal invoice on each side. Correct? A. Yeah. For different persons, yeah. Q. And these persons are employees of NIST. Is that correct? MR. FEE: Objection. Calls for
15 16 17 18 19 20 21 22 23 24	identification.) BY MR. BECKER: Q. I'm handing you what's been marked as 1292. This is the document produced by plaintiffs as Bates number ASTM049368. Do you recognize this document? A. No. Q. Do you have any reason to believe that this document produced by ASTM	15 16 17 18 19 20 21 22 23	 A. It is a 2011 membership renewal invoice. Q. It is a different 2011 membership renewal invoice on each side. Correct? A. Yeah. For different persons, yeah. Q. And these persons are employees of NIST. Is that correct?

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1	1	1	1 1 1 1 1 1 1
1	designation.	1	where on these renewal invoices, if anywhere,
$\begin{vmatrix} 2 \\ 2 \end{vmatrix}$	THE WITNESS: It says here	2	language exists that would assign any
3	they're from NIST.	3	copyright that Charles E. Gibson or Benjamin
4	BY MR. BECKER:	4	K. Tsai, the individuals listed on these
5	Q. NIST is a federal agency.	5	membership renewal invoices, might have
6	Correct?	6	granted to ASTM?
7	MR. FEE: Same objections.	7	MR. FEE: Objection. Calls for
8	THE WITNESS: I believe. Sorry.	8	a legal conclusion. Compound. You
9	I believe so.	9	can answer if you know.
10	BY MR. BECKER:	10	THE WITNESS: No, there's
11	Q. And they both give their NIST	11	language in the middle of both pages
12	e-mail addresses. Is that correct?	12	beginning with "You agree"
13	MR. FEE: Objection. Calls for	13	BY MR. BECKER:
14	speculation. Beyond the scope of his	14	Q. Is that where it says, "You
15	designation. You can answer.	15	agree, by your participation in ASTM and
16	THE WITNESS: The e-mail	16	enjoyment of the benefits of your annual
17	addresses are on this piece of paper.	17	membership, to have transferred and assigned
18	BY MR. BECKER:	18	any and all interest you possess or may
19	Q. And the e-mail addresses say	19	possess, including copyright, in the
20	@nist.gov. Correct?	20	development or creation of ASTM standards or
21	A. Yes.	21	ASTM IP to ASTM. For additional information,
22	Q. And the addresses that they	22	please see the ASTM IP Policy, available at
23	provide are for NIST. Correct?	23	www.astm.org"?
24	MR. FEE: Objection. Calls for	24	A. Yes.
25	speculation. Beyond the scope of his Page 174	25	Q. For these membership renewal Page 176
	rage 1/4		rage 170
1	designation.	1	invoices, are individuals required to check
2	THE WITNESS: Yes, the NIST	2	any box showing that they have read and
3	address is on these pieces of paper.	3	understand the provision that I just read out
4	BY MR. BECKER:	4	loud?
5	Q. And did the credit card	5	MR. FEE: Objection. Vague.
6	information and payer is the same for both	6	Compound.
7	renewal invoices. Correct?	7	THE WITNESS: I don't see here
8	MR. FEE: Objection. Beyond the	8	where there's a box to check off.
9	scope of his designation.	9	BY MR. BECKER:
10	THE WITNESS: It appears that	10	Q. For the membership renewal
11	the names are the same.	11	invoices, are the members required to sign
12	BY MR. BECKER:	12	anywhere on the renewal invoice?
13	Q. And that name appears to be	13	MR. FEE: Same objections.
14	Aruella Kuehl, K-U-E-H-L. Aruella is spelled	14	THE WITNESS: I don't see
15	A-R-U-E-L-L-A excuse me, that's Arvella,	15	anywhere else other than the signature
16	A-R-V-E-L-L-A.	16	for where the credit card information
17	MR. FEE: Objection. Beyond the	17	is.
18	scope of his designation.	18	BY MR. BECKER:
19	BY MR. BECKER:	19	Q. And if an individual pays by
20	Q. Is that correct?	20	some other means that doesn't require a
21	MR. FEE: Same objection.	21	credit card, would it not be necessary to
22	THE WITNESS: If that's yeah,	22	sign this membership renewal invoice at all
23	that's the way you want to spell it.	23	in order to get a membership renewal?
24	BY MR. BECKER:	24	MR. FEE: Objection. Calls for
25	Q. Could you, please, indicate	25	speculation. Form.
1	Page 175		Page 177

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1	THE WITNESS: I don't know. I	1	that we read.
2	guess you could sign a check. The	2	BY MR. BECKER:
3	only other way you could pay is	3	Q. And my question is, is there
4	through a check, so you could sign a	4	any means through the membership renewal
5	check.	5	invoice that ASTM ensures that it has the
6	BY MR. BECKER:	6	understanding and assent of the individual
7	Q. It also lists electronic	7	who is renewing his or her membership that
8	payments. Correct?	8	any copyright he or she has in the
9	A. Yes.	9	development or creation of ASTM standards is
10	Q. So if somebody were to provide	10	to be assigned to ASTM?
11	an electronic payment, then they would not	11	MR. FEE: Same objections. Plus
12	need to sign anywhere on this form. Is that	12	asked and answered.
13	correct?	13	THE WITNESS: Plus what?
14	MR. FEE: Objection. Calls for	14	MR. FEE: Asked and answered.
15	speculation.	15	THE WITNESS: Same answer.
16	THE WITNESS: I suppose.	16	BY MR. BECKER:
17	BY MR. BECKER:	17	Q. It's a yes or no answer.
18	Q. Is there any means through the	18	MR. FEE: No. Answer it however
19	membership renewal invoice that ASTM ensures	19	you want to answer it.
20	that it has the understanding and assent of	20	THE WITNESS: Within the 2011
21	the individual renewing his or her membership	21	membership renewal invoice, there is
22	that any copyright he or she has in the	22	this clause that we feel is informs
23	development or creation of ASTM standards is	23	the members that they're assigning
24	to be assigned to ASTM?	24	their copyright to us within their
25	MR. FEE: Objection. Vague and	25	participation at ASTM.
25	Page 178	23	Page 180
1		1	DY MD DECKED.
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	confusing. Calls for speculation.	1	BY MR. BECKER:
$\begin{vmatrix} 2 \\ 2 \end{vmatrix}$	Calls for a legal conclusion.	$\begin{vmatrix} 2 \\ 2 \end{vmatrix}$	Q. How does ASTM know that a
3	THE WITNESS: Through the	3	member has read that clause?
4	original membership application,	4	A. We don't.
5	through the work item registration	5	Q. How does ASTM know that a
6	process, and through the collaboration	6	member agrees with that clause?
7	registration process.	7	MR. FEE: Objection to the
8	BY MR. BECKER:	8	extent it calls for a legal
9	Q. My question was with regards to	9	conclusion. Also calls for
10	the 2011 membership renewal invoice. I'll	10	speculation. You can answer.
11	read it again.	11	THE WITNESS: We don't know for
12	Is there any means through the	12	sure.
13	membership renewal invoice that ASTM ensures	13	
14	that it has the understanding and assent of	14	(Exhibit 1294, Organizational
15	the individual renewing his or her membership	15	Membership Directory, was marked for
16		16	identification.)
10	that any copyright he or she has in the	10	
17	that any copyright he or she has in the development or creation of ASTM standards is	17	
			BY MR. BECKER:
17	development or creation of ASTM standards is	17	
17 18	development or creation of ASTM standards is to be assigned to ASTM?	17 18	BY MR. BECKER:
17 18 19	development or creation of ASTM standards is to be assigned to ASTM? MR. FEE: Objection to form.	17 18 19	BY MR. BECKER: Q. I'm handing you what's been
17 18 19 20	development or creation of ASTM standards is to be assigned to ASTM? MR. FEE: Objection to form. Vague and confusing. Compound. Calls	17 18 19 20	BY MR. BECKER: Q. I'm handing you what's been marked as Exhibit 1294. It's a document
17 18 19 20 21	development or creation of ASTM standards is to be assigned to ASTM? MR. FEE: Objection to form. Vague and confusing. Compound. Calls for speculation and calls for a legal	17 18 19 20 21	BY MR. BECKER: Q. I'm handing you what's been marked as Exhibit 1294. It's a document titled: "Organizational Membership Directory." This is two separate printouts
17 18 19 20 21 22	development or creation of ASTM standards is to be assigned to ASTM? MR. FEE: Objection to form. Vague and confusing. Compound. Calls for speculation and calls for a legal conclusion. THE WITNESS: Within the 2011	17 18 19 20 21 22	BY MR. BECKER: Q. I'm handing you what's been marked as Exhibit 1294. It's a document titled: "Organizational Membership Directory." This is two separate printouts combined. It is the A to K listing and the L
17 18 19 20 21 22 23	development or creation of ASTM standards is to be assigned to ASTM? MR. FEE: Objection to form. Vague and confusing. Compound. Calls for speculation and calls for a legal conclusion. THE WITNESS: Within the 2011 membership renewal invoice, the only	17 18 19 20 21 22 23	BY MR. BECKER: Q. I'm handing you what's been marked as Exhibit 1294. It's a document titled: "Organizational Membership Directory." This is two separate printouts combined. It is the A to K listing and the L to Z listing. It's something it's over
17 18 19 20 21 22 23 24	development or creation of ASTM standards is to be assigned to ASTM? MR. FEE: Objection to form. Vague and confusing. Compound. Calls for speculation and calls for a legal conclusion. THE WITNESS: Within the 2011	17 18 19 20 21 22 23 24	BY MR. BECKER: Q. I'm handing you what's been marked as Exhibit 1294. It's a document titled: "Organizational Membership Directory." This is two separate printouts combined. It is the A to K listing and the L

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1	THE WITNESS: They make	1	A. Yes.
2	contributions at the meetings.	2	Q. Did you ever receive this
3	BY MR. BECKER:	3	e-mail that's Exhibit 1295?
4	Q. And do those contributions end	4	A. I may have.
5	up in the final approved standards?	5	Q. Do you have any reason to think
6	MR. FEE: Objection. Vague.	6	that if you had that you did not receive
7	THE WITNESS: I don't I can't	7	this e-mail produced by ASTM that has your
8	say specifically.	8	name listed under the cc line?
9	BY MR. BECKER:	9	A. No.
10	Q. What kind of contributions do	10	Q. Do you have any reason to
11	they provide at these meetings?	11	believe that this document provided by ASTM
12	MR. FEE: Objection. Vague.	12	is not authentic?
13	THE WITNESS: Oral contributions.	13	MR. FEE: Objection. Calls for
14	BY MR. BECKER:	14	a legal conclusion.
15	Q. Do they provide any written	15	THE WITNESS: I have no idea.
16	contributions?	16	BY MR. BECKER:
17	MR. FEE: Objection. Vague.	17	Q. Is that a yes or a no?
18	THE WITNESS: They may through	18	A. I don't know. I don't see any
19	the balloting process.	19	reason why it wouldn't be.
20	BY MR. BECKER:	20	Q. If you turn to the second page,
21	Q. Do they vote on standard drafts	21	it says this is an e-mail from Sarah
22	or revisions?	22	Petre, P-E-T-R-E, to Jeff Grove that says
23	MR. FEE: Objection. Form.	23	in which you are cc'd at dsmith@astm.org. Is
24	THE WITNESS: They may. They	24	that correct?
25	have the opportunity to.	25	A. Yes.
	Page 186		Page 188
1		1	Q. And it says, "Jeff: Attached
2	(Exhibit 1295, E-mail chain with	2	is a summary of all the potentially relevant
3	attachment, Bates ASTM025633 -	3	standards related to the UE's efforts that
1 5		1 2	standards related to the OL's enorts that
4	ASTM025640, was marked for	4	focus on the environmental footprint of
	ASTM025640, was marked for identification.)	-	
4		4	focus on the environmental footprint of
4 5		45	focus on the environmental footprint of products and services. This list is more over inclusive. I also included a list of
4 5 6 7	identification.) BY MR. BECKER:	4 5 6 7	focus on the environmental footprint of products and services. This list is more over inclusive. I also included a list of the EPA members that participate in E50 or
4 5 6 7 8	identification.) BY MR. BECKER: Q. I'm handing you what's been	4 5 6	focus on the environmental footprint of products and services. This list is more over inclusive. I also included a list of the EPA members that participate in E50 or E60." Is that correct?
4 5 6 7	identification.) BY MR. BECKER: Q. I'm handing you what's been marked as Exhibit 1295.	4 5 6 7 8	focus on the environmental footprint of products and services. This list is more over inclusive. I also included a list of the EPA members that participate in E50 or E60." Is that correct? A. That's what it says.
4 5 6 7 8 9	identification.) BY MR. BECKER: Q. I'm handing you what's been marked as Exhibit 1295. Could you, please, take a	4 5 6 7 8 9	focus on the environmental footprint of products and services. This list is more over inclusive. I also included a list of the EPA members that participate in E50 or E60." Is that correct? A. That's what it says. Q. Then if you turn to Bates
4 5 6 7 8 9 10 11	identification.) BY MR. BECKER: Q. I'm handing you what's been marked as Exhibit 1295. Could you, please, take a moment to try to put the pages for the	4 5 6 7 8 9 10 11	focus on the environmental footprint of products and services. This list is more over inclusive. I also included a list of the EPA members that participate in E50 or E60." Is that correct? A. That's what it says. Q. Then if you turn to Bates number ASTM025637, the second paragraph from
4 5 6 7 8 9 10 11 12	identification.) BY MR. BECKER: Q. I'm handing you what's been marked as Exhibit 1295. Could you, please, take a moment to try to put the pages for the previous exhibit back in the same order that	4 5 6 7 8 9 10 11 12	focus on the environmental footprint of products and services. This list is more over inclusive. I also included a list of the EPA members that participate in E50 or E60." Is that correct? A. That's what it says. Q. Then if you turn to Bates number ASTM025637, the second paragraph from the top says, "The following representatives
4 5 6 7 8 9 10 11 12 13	identification.) BY MR. BECKER: Q. I'm handing you what's been marked as Exhibit 1295. Could you, please, take a moment to try to put the pages for the previous exhibit back in the same order that they were provided to you, if possible?	4 5 6 7 8 9 10 11 12 13	focus on the environmental footprint of products and services. This list is more over inclusive. I also included a list of the EPA members that participate in E50 or E60." Is that correct? A. That's what it says. Q. Then if you turn to Bates number ASTM025637, the second paragraph from the top says, "The following representatives from EPA participate on the relevant ASTM
4 5 6 7 8 9 10 11 12 13 14	identification.) BY MR. BECKER: Q. I'm handing you what's been marked as Exhibit 1295. Could you, please, take a moment to try to put the pages for the previous exhibit back in the same order that they were provided to you, if possible? MR. BRIDGES: I'll do that.	4 5 6 7 8 9 10 11 12 13 14	focus on the environmental footprint of products and services. This list is more over inclusive. I also included a list of the EPA members that participate in E50 or E60." Is that correct? A. That's what it says. Q. Then if you turn to Bates number ASTM025637, the second paragraph from the top says, "The following representatives
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	identification.) BY MR. BECKER: Q. I'm handing you what's been marked as Exhibit 1295. Could you, please, take a moment to try to put the pages for the previous exhibit back in the same order that they were provided to you, if possible? MR. BRIDGES: I'll do that. Hand them to me, I'll do that. THE WITNESS: I think that's the order. BY MR. BECKER: Q. Do you recognize this document that has been provided to you as Exhibit 1295? It is Bates number ASTM025633 to 025640.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	focus on the environmental footprint of products and services. This list is more over inclusive. I also included a list of the EPA members that participate in E50 or E60." Is that correct? A. That's what it says. Q. Then if you turn to Bates number ASTM025637, the second paragraph from the top says, "The following representatives from EPA participate on the relevant ASTM committees," and then lists a number of individuals. Is that correct? A. Yes. Q. Do you know any of these individuals that are listed? A. Yes. Q. Which individuals do you know? A. I know Deb Goldblum. I know Sven-Erik Kaiser. And I know Patricia
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	identification.) BY MR. BECKER: Q. I'm handing you what's been marked as Exhibit 1295. Could you, please, take a moment to try to put the pages for the previous exhibit back in the same order that they were provided to you, if possible? MR. BRIDGES: I'll do that. Hand them to me, I'll do that. Hand them to me, I'll do that. THE WITNESS: I think that's the order. BY MR. BECKER: Q. Do you recognize this document that has been provided to you as Exhibit 1295? It is Bates number ASTM025633 to 025640. A. No.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	focus on the environmental footprint of products and services. This list is more over inclusive. I also included a list of the EPA members that participate in E50 or E60." Is that correct? A. That's what it says. Q. Then if you turn to Bates number ASTM025637, the second paragraph from the top says, "The following representatives from EPA participate on the relevant ASTM committees," and then lists a number of individuals. Is that correct? A. Yes. Q. Do you know any of these individuals that are listed? A. Yes. Q. Which individuals do you know? A. I know Deb Goldblum. I know Sven-Erik Kaiser. And I know Patricia Overmeyer.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	identification.) BY MR. BECKER: Q. I'm handing you what's been marked as Exhibit 1295. Could you, please, take a moment to try to put the pages for the previous exhibit back in the same order that they were provided to you, if possible? MR. BRIDGES: I'll do that. Hand them to me, I'll do that. Hand them to me, I'll do that. THE WITNESS: I think that's the order. BY MR. BECKER: Q. Do you recognize this document that has been provided to you as Exhibit 1295? It is Bates number ASTM025633 to 025640. A. No. Q. Are you copied on this e-mail	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	focus on the environmental footprint of products and services. This list is more over inclusive. I also included a list of the EPA members that participate in E50 or E60." Is that correct? A. That's what it says. Q. Then if you turn to Bates number ASTM025637, the second paragraph from the top says, "The following representatives from EPA participate on the relevant ASTM committees," and then lists a number of individuals. Is that correct? A. Yes. Q. Do you know any of these individuals that are listed? A. Yes. Q. Which individuals do you know? A. I know Deb Goldblum. I know Sven-Erik Kaiser. And I know Patricia Overmeyer. Q. Who is Deborah Goldblum?
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	identification.) BY MR. BECKER: Q. I'm handing you what's been marked as Exhibit 1295. Could you, please, take a moment to try to put the pages for the previous exhibit back in the same order that they were provided to you, if possible? MR. BRIDGES: I'll do that. Hand them to me, I'll do that. Hand them to me, I'll do that. THE WITNESS: I think that's the order. BY MR. BECKER: Q. Do you recognize this document that has been provided to you as Exhibit 1295? It is Bates number ASTM025633 to 025640. A. No.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	focus on the environmental footprint of products and services. This list is more over inclusive. I also included a list of the EPA members that participate in E50 or E60." Is that correct? A. That's what it says. Q. Then if you turn to Bates number ASTM025637, the second paragraph from the top says, "The following representatives from EPA participate on the relevant ASTM committees," and then lists a number of individuals. Is that correct? A. Yes. Q. Do you know any of these individuals that are listed? A. Yes. Q. Which individuals do you know? A. I know Deb Goldblum. I know Sven-Erik Kaiser. And I know Patricia Overmeyer.

48 (Pages 186 - 189)

1	marked for identification.)	1	respective years, 2007 through 2014?
2		2	MR. FEE: Objection to form.
3	BY MR. BECKER:	3	THE WITNESS: There probably
4	Q. I'm handing you what's been	4	was, yes.
5	marked as Exhibit 1300. Could you, please,	5	BY MR. BECKER:
6	identify this document?	6	Q. How do you know that?
7	A. It says at the top "Laboratory	7	A. Well, because I know our
8	Inspection Program," but it would appear to	8	applications, we have applications that have
9	be a membership application.	9	the language that we spoke about earlier that
10	Q. I'll note that this document is	10	was on, was it 1293, Exhibit 1293? We have
11	produced by ASTM as ASTM067024. Is there any	11	copies of membership applications that have
12	mention of copyright assignment or ASTM's IP	12	that language on there.
13	Policy on this document?	13	Q. Exhibit 1293 is a membership
14	MR. FEE: Objection to form.	14	renewal invoice. Correct?
15	THE WITNESS: I don't see that	15	A. Yes.
16	language on here, no.	16	Q. And a membership renewal
17		17	invoice is different from a membership
18	(Exhibit 1301, Membership	18	application. Correct?
19	applications, Bates ASTM066871,	19	A. Yes.
20	ASTM069213, ASTM069058, ASTM080176,	20	Q. So when you say that there are
21	ASTM061450, ASTM063146, ASTM063147,	21	different versions, do you mean that there is
22	ASTM065682 & ASTM066345, was marked	22	different versions of the membership
23	for identification.)	23	applications for each year or that there is a
24		24	membership application and there also is a
25	BY MR. BECKER:	25	membership renewal invoice
	Page 210		Page 212
1	Q. I'm handing you what's been	1	MR. FEE: Objection. Form.
$\begin{vmatrix} 1\\2 \end{vmatrix}$	marked as Exhibit 1301. This is a	$\begin{vmatrix} 1\\ 2 \end{vmatrix}$	BY MR. BECKER:
	marked as Exhibit 1301. This is a compilation of documents that were provided		BY MR. BECKER: Q for each year?
2	marked as Exhibit 1301. This is a compilation of documents that were provided by ASTM as single pages. It is one example	2	BY MR. BECKER:Q for each year?A. We have membership applications
2 3	marked as Exhibit 1301. This is a compilation of documents that were provided by ASTM as single pages. It is one example from each year from which ASTM has provided a	2 3	BY MR. BECKER:Q for each year?A. We have membership applicationsfor these years that have that language from
2 3 4	marked as Exhibit 1301. This is a compilation of documents that were provided by ASTM as single pages. It is one example from each year from which ASTM has provided a membership application starting with the 2007	2 3 4	BY MR. BECKER:Q for each year?A. We have membership applicationsfor these years that have that language fromExhibit 1293 on them.
2 3 4 5	marked as Exhibit 1301. This is a compilation of documents that were provided by ASTM as single pages. It is one example from each year from which ASTM has provided a membership application starting with the 2007 membership application and ending with the	2 3 4 5	BY MR. BECKER:Q for each year?A. We have membership applicationsfor these years that have that language from
2 3 4 5 6	marked as Exhibit 1301. This is a compilation of documents that were provided by ASTM as single pages. It is one example from each year from which ASTM has provided a membership application starting with the 2007	2 3 4 5 6	BY MR. BECKER:Q for each year?A. We have membership applicationsfor these years that have that language fromExhibit 1293 on them.
2 3 4 5 6 7	marked as Exhibit 1301. This is a compilation of documents that were provided by ASTM as single pages. It is one example from each year from which ASTM has provided a membership application starting with the 2007 membership application and ending with the 2014 membership application. And the Bates numbers are ASTM066871, ASTM069213,	2 3 4 5 6 7	 BY MR. BECKER: Q for each year? A. We have membership applications for these years that have that language from Exhibit 1293 on them. Q. How do you know that there are membership applications for all of the years 2007 through 2014 that have the same language
2 3 4 5 6 7 8	marked as Exhibit 1301. This is a compilation of documents that were provided by ASTM as single pages. It is one example from each year from which ASTM has provided a membership application starting with the 2007 membership application and ending with the 2014 membership application. And the Bates	2 3 4 5 6 7 8	 BY MR. BECKER: Q for each year? A. We have membership applications for these years that have that language from Exhibit 1293 on them. Q. How do you know that there are membership applications for all of the years
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2 3 4 5 6 7 8 9 10 11 12 13	marked as Exhibit 1301. This is a compilation of documents that were provided by ASTM as single pages. It is one example from each year from which ASTM has provided a membership application starting with the 2007 membership application and ending with the 2014 membership application. And the Bates numbers are ASTM066871, ASTM069213, ASTM069058, ASTM080176, ASTM061450, ASTM063146, ASTM063147, ASTM065682 and ASTM066345. Are these the ASTM membership	2 3 4 5 6 7 8 9 10 11 12 13	 BY MR. BECKER: Q for each year? A. We have membership applications for these years that have that language from Exhibit 1293 on them. Q. How do you know that there are membership applications for all of the years 2007 through 2014 that have the same language that is from the 2011 membership renewal invoice Exhibit 1293? MR. FEE: Objection to form. THE WITNESS: Because I believe
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^{54 (}Pages 210 - 213)

1	agree. By your participation in ASTM"	1	Q. How many different forms of
2	Correct?	2	membership application existed in 2007?
3	A. Yes.	3	A. I don't know.
4	MR. FEE: Hold on. Objection to	4	Q. Do you know how many different
5	form.	5	forms of membership application ASTM had for
6	THE WITNESS: Sorry.	6	the year 2008?
7	MR. FEE: It's compound. Calls	7	A. No.
8	for a legal conclusion.	8	Q. Do you know how many forms of
9	THE WITNESS: The language that	9	membership application ASTM had for the year
10	I'm talking about is on Exhibit 1293	10	2009?
11	that begins with "You agree, by your	11	A. No.
12	participation"	12	Q. Do you know how many forms of
13	BY MR. BECKER:	13	membership application ASTM had for 2010?
14	Q. Why do you believe that ASTM	14	A. No.
15	put the language that you're referring to on	15	Q. How about for 2011?
16	the renewal forms and the application forms	16	A. No.
17	at the same time?	17	Q. Or 2012?
18	A. That's what I recall.	18	A. No.
19	Q. Recall from what?	19	Q. Or 2013?
$\begin{vmatrix} 1 \\ 20 \end{vmatrix}$	MR. FEE: Objection. Vague.	$\frac{1}{20}$	A. No.
$\frac{20}{21}$	THE WITNESS: Just what I	20	Q. Or 2014?
$ ^{21}_{22}$	remember.	$\frac{21}{22}$	A. No.
22	BY MR. BECKER:	22	
$23 \\ 24$		23	Q. Do you know why ASTM has
	Q. Do you know when ASTM first		different membership application forms?
25	used the language that you're referring to Page 214	25	MR. FEE: Objection. To the Page 216
	1460211		1 450 210
1	from Exhibit 1293?	1	extent that your answering that
2	A. Not exactly sure.	2	question would disclose
2 3	A. Not exactly sure.Q. Do you have any idea as to what	2 3	question would disclose attorney-client communications, you
2 3 4	A. Not exactly sure.Q. Do you have any idea as to what year ASTM first started using that language	2 3 4	question would disclose
2 3	A. Not exactly sure.Q. Do you have any idea as to what year ASTM first started using that language that appears on Exhibit 1293?	2 3	question would disclose attorney-client communications, you shouldn't disclose that. You can answer otherwise.
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1	BY MR. BECKER:	1	MR. FEE: Objection to form. I
2	Q. On the next page, ASTM063147,	2	also object to the extent it calls for
3	it has different language concerning the ASTM	3	attorney-client communications. You
4	Intellectual Property Policy than the 2012	4	shouldn't disclose any communications
5	membership application that we were just	5	between you and counsel, but you can
6	discussing. Is that correct?	6	answer otherwise.
7	MR. FEE: Hold on one second.	7	THE WITNESS: I believe the
8	You can answer.	8	language that is at the top of
9	THE WITNESS: Yes, that language	9	ASTM063146 was language that we used
10	is different.	10	prior to the language that we used
11	BY MR. BECKER:	11	that's contained on ASTM063147.
12	Q. The language that's on	12	BY MR. BECKER:
13	ASTM063147 is similar to the language that's	13	Q. But if you then turn the page
14	on Exhibit 1293, the 2011 membership renewal	14	to ASTM065682, that's a 2013 membership
15	invoice. Is that correct?	15	application, and it has the same language
16	MR. FEE: Objection. Vague.	16	concerning the ASTM Intellectual Property
17	THE WITNESS: Yep, that looks	17	Policy as on ASTM063146. Correct?
18	-	18	A. That's what it looks like.
	correct. Slightly different. BY MR. BECKER:		
19		19	Q. If you turn the page to the
20	Q. Why is this language different	20	following page, the 2014 membership
21	for the 2012 committee membership application	21	application also has that same language.
22	than for the 2012 membership application?	22	Correct?
23	MR. FEE: Objection. To the	23	A. Yes.
24	extent that would require you to	24	Q. So ASTM has continued to use
25	disclose attorney-client	25	this language into 2014?
	Page 222		Page 224
1	communications, you shouldn't do so.	1	MR. FEE: Objection. Vague.
2	If you can answer otherwise, go ahead.	2	THE WITNESS: That's what it
			THE WITHESS. That's what h
3	THE WITNESS: My perspective is	3	would appear to me.
3		3 4	
4	THE WITNESS: My perspective is that they're the same thing. They're both intended for an individual to		would appear to me. BY MR. BECKER:
4 5	that they're the same thing. They're both intended for an individual to	4	would appear to me. BY MR. BECKER: Q. Who knows how many different
4 5 6	that they're the same thing. They're both intended for an individual to join a particular committee.	4 5 6	would appear to me. BY MR. BECKER: Q. Who knows how many different versions exist for the membership
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4 5 6 7 8 9 10	that they're the same thing. They're both intended for an individual to join a particular committee.BY MR. BECKER:Q. Why is the copyright you say they're the same thing, the copyright assignment language?	4 5 6 7 8 9 10	would appear to me. BY MR. BECKER: Q. Who knows how many different versions exist for the membership applications during each year from 2007 to 2014? A. I don't know if anybody knows. Q. Why is that?
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			1
1	I just want to say that Mr. Smith has	1	of Records," section III.
2	been available to be deposed since	2	
3	10:00 a.m. this morning. It's now	3	(Exhibit 1312, 11/21/08 E-mail
4	7:00. We have about 55 minutes left.	4	with attachment, Bates ASTM088320 -
5	We're not staying past 8:00. So if	5	ASTM088325, was marked for
6	you're going to take any other breaks,	6	identification.)
7	it better be short. That was a	7	
8	20-minute break and I think a complete	8	BY MR. BECKER:
9	waste of time. Go ahead.	9	Q. I'm handing you what's been
10	BY MR. BECKER:	10	marked as Exhibit 1312. This is the document
11	Q. Mr. Smith, I've handed you	11	produced by ASTM as ASTM088320 to ASTM088325.
12	what's marked as Exhibit 1311. This is a	12	It is an e-mail with an attachment that says,
13	document produced by ASTM as 003501 to 3522.	13	"ASTM International Author/Copyright Owner
14	Could you, please, identify it?	14	Agreement." Is this attachment a correct
15	A. It says, "RECORD RETENTION	15	copy of the ASTM International
16	POLICY."	16	Author/Copyright Ownership Agreement?
17	Q. Is this ASTM's record retention	17	MR. FEE: Objection. Vague as
18	policy?	18	to time. Beyond the scope of the
19	A. Yes, I believe it is.	19	designation as well.
20	Q. Have you did you review	20	THE WITNESS: I'm not sure.
21	ASTM's record retention policy in preparation	21	BY MR. BECKER:
22	for the deposition today?	22	Q. Who would know whether this
23	A. I reviewed it very briefly.	23	attachment is a correct copy of the ASTM
24	Q. Do you know what category under	24	International Author/Copyright Ownership
25	the record retention policy that membership	25	Agreement?
	Page 258		Page 260
1	application forms would qualify as?	1	MR. FEE: Objection. Beyond the
2	MR. FEE: Objection. It's	2	scope.
3	beyond the scope of his designation.	3	THE WITNESS: I would have to
4	THE WITNESS: Are you referring	4	read it first to possibly give you an
5	to any particular pages?	5	answer.
6	BY MR. BECKER:	6	Our publications department
7	Q. Yes. If you look at ASTM 3502	7	might be able to tell you whether or
8	and 3503, it says, "Types of Records." That	8	not this is the correct
9	includes "Temporary Records," "Final Records"	9	Author/Copyright Owner Agreement since
10	and "Permanent Records." And then it also	10	it's a journal paper, relevant to a
11	has B is section B, "Types of Records That	11	journal paper.
12	have Legal or Regulatory Periods of	12	
13	Retention," "Accounting and Corporate Tax	13	(Exhibit 1313, Web site
14	Records," "Corporate Records," "Employment	14	screenshots, Bates ASTM001792 -
15	and Employee Records," "Bank Records," and	15	ASTM001800, was marked for
16	"Legal Records."	16	identification.)
17	A. I don't know what category	17	
18	membership application would fall under,	18	BY MR. BECKER:
19	would just I'm not sure.	19	Q. I'm handing you what's been
20	Q. Do you know what category the	20	marked as Exhibit 1313. This document was
21	ASTM IP Policy would fall under?	21	produced by ASTM with Bates number ASTM001792
22	MR. FEE: Objection. Beyond the	22	to 1800. What is this document?
23	scope.	23	A. This looks like it is
24	THE WITNESS: No, I don't know.	24	screenshots from our Web site for how an
25	I'm not very familiar with the "Types	25	individual would renew their membership.
	Page 259		Page 261

66 (Pages 258 - 261)

1	that I've provided here as Exhibit 1315?	1	Q. What do staff members do to
2	MR. FEE: Same objections, plus	2	assist the members of technical committees?
3	lack of formation or foundation.	3	MR. FEE: Objection. Vague.
4	Sorry.	4	THE WITNESS: General
5	THE WITNESS: I'm not aware of	5	assistance. Provide them with advice
6	whether there was or there was not.	6	on regulations, on our form and style
7		7	manual. We have interlaboratory study
8	(Exhibit 1316, Regulations	8	program that assists our members. A
9	Governing ASTM Technical Committees,	9	variety of things. I don't know if
10	was marked for identification.)	10	there's anything specific that you
11		11	want me to focus on.
12	BY MR. BECKER:	12	BY MR. BECKER:
13	Q. I'm handing you what's been	13	Q. Does how does ASTM staff
14	marked as Exhibit 1316. Could you, please,	14	members assist individual assist technical
15	tell me what this document is?	15	committee members in the drafting or revision
16	A. The front page says the	16	of standards?
17	"REGULATIONS GOVERNING ASTM TECHNICAL	17	MR. FEE: Objection. Vague.
18	COMMITTEES."	18	THE WITNESS: We have we
19	Q. What are the Regulations	19	provide them with editorial
20	Governing ASTM Technical Committees?	20	assistance, so we'll provide editorial
21	A. It's essentially this entire	21	help within the documents. Our
22	document if it's all included here.	22	interlaboratory study program is
23	Q. Does it appear to be all	23	responsible for organizing round-robin
24	included there?	24	studies for collecting the data and
25	A. I'd have to go through it, but	25	doing the number crunching in order to
	Page 266		Page 268
1	it could. Looks like it.	1	produce precision statements. Our ILS
2	Q. What is the purpose of the	2	team will produce the research reports
3	Regulations Governing ASTM Technical	3	which are referenced in the standard.
4	Committees?	4	We will help we have a graphics
5	MR. FEE: Objection. Beyond the	5	department that will create graphics
6	scope. Vague.	6	for the standards, for committee
7	THE WITNESS: Technical	7	members. We have an up-front editor
8	committees follow the regulations and	8	that provides a great deal of
9	develop member standards.	9	assistance if we have a draft that
10	BY MR. BECKER:	10	needs to be put into proper ASTM form
11	Q. Do you use the Regulations	11	and style. We provide them with
12	Governing ASTM Technical Committees in the		assistance on language for caveats
13	course of your work with ASTM?	13	that are placed in the ASTM standards.
14	A. Yes.	14	BY MR. BECKER:
15	Q. How do you use them?	15	Q. Anything else?
16	A. As staff people, we advise our	16	A. We provide an awful lot of
17	technical committees on the regulations so	17	assistance, but nothing else that comes to
18	that they the regulations can be followed	18	mind at this particular time.
19	in the development of their standards.	19	Q. When you say editorial
20	Q. Do staff members do other	20	assistance, what do you mean by that?
21	things to assist the members of the technical	21	A. Grammatical things. We'll
22	committees?	22	inform members if they have mandatory
23	MR. FEE: Objection. Vague.	23	language in a non-mandatory section, that
24	THE WITNESS: Yes.	24	that's outside the form and style policy. Or
25	BY MR. BECKER:	25	vice versa, if they have non-mandatory
1			
	Page 267		Page 269

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1	language in a mandatory section, we'll	1	BY MR. BECKER:
2	provide assistance in tweaking that language	2	Q. Is that the same grammatical
3	so that it's within the form and style	3	changes that you were referring to before?
4	guidelines.	4	MR. FEE: Objection.
5	Q. Anything else in terms of	5	Mischaracterizes his testimony.
6	editorial assistance other than grammatical	6	Vague.
7	assistance?	7	BY MR. BECKER:
8	A. We could take a document and	8	Q. I'm sorry, what did you say?
9	place it and organize it so that it has the	9	A. The editors could work with the
10	relevant sections as defined in the form and	10	technical contacts to incorporate editorial
11	style manual.	11	changes, grammatical or reorganization of
12	Q. Do you mean to reorganize a	12	content.
13	draft standard, is that what you're saying?	13	Q. Who are the technical contacts?
14	A. Yes.	14	A. Who are they?
15	Q. What are excuse me.	15	Q. Yeah.
16	Anything else in terms of	16	A. They are individuals that take
17	editorial assistance?	17	the lead in developing a new standard or in
18	A. Our editors will also take a	18	developing a revision to an existing
19	document that's been approved through our	19	standard.
20	balloting process, if it's a new standard,	20	Q. Are those volunteers or are
21	they'll put it into publication format and	21	those employees of ASTM?
22	work with the technical contacts to make sure	22	MR. FEE: Objection. Vague.
23	that everything looks good prior to	23	Calls for a legal conclusion.
24	publication.	24	THE WITNESS: They're
25	Q. When you say they put it into	25	volunteers.
	Page 270		Page 272
1	publication format, does that involve any	1	BY MR. BECKER:
2	changes to the content of the draft standard?	2	Q. What did you mean when you said
3	MR. FEE: Objection. Vague.	3	precision statements?
4	THE WITNESS: It involves taking	4	A. Precision statements are
5	what was balloted in the Word format	5	included in test methods.
6	and placing it into our XML format	6	Q. What are precision statements?
7	that we use for producing PDFs.	7	A. Precision statements include
8	BY MR. BECKER:	8	statements on repeatability and reproducibility.
9	Q. Is that a no?	9	
		-	O. What do you mean by that?
10	-	10	Q. What do you mean by that? A. For a test method, a statement
10	MR. FEE: Objection. You can	10 11	A. For a test method, a statement
11	MR. FEE: Objection. You can answer the question however you like.	11	A. For a test method, a statement of repeatability would be a laboratory taking
11 12	MR. FEE: Objection. You can answer the question however you like. You don't have to answer it yes or no.	11 12	A. For a test method, a statement of repeatability would be a laboratory taking the ASTM test method and running the test in
11 12 13	MR. FEE: Objection. You can answer the question however you like. You don't have to answer it yes or no. THE WITNESS: Did you ask me is	11 12 13	A. For a test method, a statement of repeatability would be a laboratory taking the ASTM test method and running the test in the laboratory several times. And they take
11 12 13 14	MR. FEE: Objection. You can answer the question however you like. You don't have to answer it yes or no. THE WITNESS: Did you ask me is that a no?	11 12 13 14	A. For a test method, a statement of repeatability would be a laboratory taking the ASTM test method and running the test in the laboratory several times. And they take the results of that test and they see how
11 12 13 14 15	MR. FEE: Objection. You can answer the question however you like. You don't have to answer it yes or no. THE WITNESS: Did you ask me is that a no? BY MR. BECKER:	11 12 13 14 15	A. For a test method, a statement of repeatability would be a laboratory taking the ASTM test method and running the test in the laboratory several times. And they take the results of that test and they see how close each iteration is. And if the results
11 12 13 14 15 16	MR. FEE: Objection. You can answer the question however you like. You don't have to answer it yes or no. THE WITNESS: Did you ask me is that a no? BY MR. BECKER: Q. Yeah.	11 12 13 14 15 16	A. For a test method, a statement of repeatability would be a laboratory taking the ASTM test method and running the test in the laboratory several times. And they take the results of that test and they see how close each iteration is. And if the results are very close, then that would indicate good
11 12 13 14 15 16 17	MR. FEE: Objection. You can answer the question however you like. You don't have to answer it yes or no. THE WITNESS: Did you ask me is that a no? BY MR. BECKER: Q. Yeah. A. What was can you repeat the	11 12 13 14 15 16 17	A. For a test method, a statement of repeatability would be a laboratory taking the ASTM test method and running the test in the laboratory several times. And they take the results of that test and they see how close each iteration is. And if the results are very close, then that would indicate good precision. If it's if the results are not
11 12 13 14 15 16 17 18	MR. FEE: Objection. You can answer the question however you like. You don't have to answer it yes or no. THE WITNESS: Did you ask me is that a no? BY MR. BECKER: Q. Yeah. A. What was can you repeat the original question?	11 12 13 14 15 16 17 18	A. For a test method, a statement of repeatability would be a laboratory taking the ASTM test method and running the test in the laboratory several times. And they take the results of that test and they see how close each iteration is. And if the results are very close, then that would indicate good precision. If it's if the results are not close, then that would indicate poor
11 12 13 14 15 16 17 18 19	MR. FEE: Objection. You can answer the question however you like. You don't have to answer it yes or no. THE WITNESS: Did you ask me is that a no? BY MR. BECKER: Q. Yeah. A. What was can you repeat the original question? Q. The question was, when you say	11 12 13 14 15 16 17 18 19	A. For a test method, a statement of repeatability would be a laboratory taking the ASTM test method and running the test in the laboratory several times. And they take the results of that test and they see how close each iteration is. And if the results are very close, then that would indicate good precision. If it's if the results are not close, then that would indicate poor precision. So that's what repeatability is.
11 12 13 14 15 16 17 18 19 20	MR. FEE: Objection. You can answer the question however you like. You don't have to answer it yes or no. THE WITNESS: Did you ask me is that a no? BY MR. BECKER: Q. Yeah. A. What was can you repeat the original question? Q. The question was, when you say you put it into publication format, does that	11 12 13 14 15 16 17 18 19 20	A. For a test method, a statement of repeatability would be a laboratory taking the ASTM test method and running the test in the laboratory several times. And they take the results of that test and they see how close each iteration is. And if the results are very close, then that would indicate good precision. If it's if the results are not close, then that would indicate poor precision. So that's what repeatability is. Then reproducibility is at least six labs
11 12 13 14 15 16 17 18 19 20 21	MR. FEE: Objection. You can answer the question however you like. You don't have to answer it yes or no. THE WITNESS: Did you ask me is that a no? BY MR. BECKER: Q. Yeah. A. What was can you repeat the original question? Q. The question was, when you say you put it into publication format, does that involve any changes to the content of the	11 12 13 14 15 16 17 18 19 20 21	A. For a test method, a statement of repeatability would be a laboratory taking the ASTM test method and running the test in the laboratory several times. And they take the results of that test and they see how close each iteration is. And if the results are very close, then that would indicate good precision. If it's if the results are not close, then that would indicate poor precision. So that's what repeatability is. Then reproducibility is at least six labs doing the same thing as what I just described
11 12 13 14 15 16 17 18 19 20 21 22	MR. FEE: Objection. You can answer the question however you like. You don't have to answer it yes or no. THE WITNESS: Did you ask me is that a no? BY MR. BECKER: Q. Yeah. A. What was can you repeat the original question? Q. The question was, when you say you put it into publication format, does that involve any changes to the content of the draft standards?	11 12 13 14 15 16 17 18 19 20 21 22	A. For a test method, a statement of repeatability would be a laboratory taking the ASTM test method and running the test in the laboratory several times. And they take the results of that test and they see how close each iteration is. And if the results are very close, then that would indicate good precision. If it's if the results are not close, then that would indicate poor precision. So that's what repeatability is. Then reproducibility is at least six labs doing the same thing as what I just described as that one lab. And then the
11 12 13 14 15 16 17 18 19 20 21 22 23	MR. FEE: Objection. You can answer the question however you like. You don't have to answer it yes or no. THE WITNESS: Did you ask me is that a no? BY MR. BECKER: Q. Yeah. A. What was can you repeat the original question? Q. The question was, when you say you put it into publication format, does that involve any changes to the content of the draft standards? MR. FEE: Objection. Vague.	11 12 13 14 15 16 17 18 19 20 21 22 23	A. For a test method, a statement of repeatability would be a laboratory taking the ASTM test method and running the test in the laboratory several times. And they take the results of that test and they see how close each iteration is. And if the results are very close, then that would indicate good precision. If it's if the results are not close, then that would indicate poor precision. So that's what repeatability is. Then reproducibility is at least six labs doing the same thing as what I just described as that one lab. And then the reproducibility is a statement that analyzes
11 12 13 14 15 16 17 18 19 20 21 22 23 24	MR. FEE: Objection. You can answer the question however you like. You don't have to answer it yes or no. THE WITNESS: Did you ask me is that a no? BY MR. BECKER: Q. Yeah. A. What was can you repeat the original question? Q. The question was, when you say you put it into publication format, does that involve any changes to the content of the draft standards? MR. FEE: Objection. Vague. THE WITNESS: It could,	11 12 13 14 15 16 17 18 19 20 21 22 23 24	A. For a test method, a statement of repeatability would be a laboratory taking the ASTM test method and running the test in the laboratory several times. And they take the results of that test and they see how close each iteration is. And if the results are very close, then that would indicate good precision. If it's if the results are not close, then that would indicate poor precision. So that's what repeatability is. Then reproducibility is at least six labs doing the same thing as what I just described as that one lab. And then the reproducibility is a statement that analyzes the results from all six or more labs.
11 12 13 14 15 16 17 18 19 20 21 22 23	MR. FEE: Objection. You can answer the question however you like. You don't have to answer it yes or no. THE WITNESS: Did you ask me is that a no? BY MR. BECKER: Q. Yeah. A. What was can you repeat the original question? Q. The question was, when you say you put it into publication format, does that involve any changes to the content of the draft standards? MR. FEE: Objection. Vague.	11 12 13 14 15 16 17 18 19 20 21 22 23	A. For a test method, a statement of repeatability would be a laboratory taking the ASTM test method and running the test in the laboratory several times. And they take the results of that test and they see how close each iteration is. And if the results are very close, then that would indicate good precision. If it's if the results are not close, then that would indicate poor precision. So that's what repeatability is. Then reproducibility is at least six labs doing the same thing as what I just described as that one lab. And then the reproducibility is a statement that analyzes

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1 statements appear in different standards? 1 significantly when it's transformed 2 A. In test methods. 2 into the published version. 3 Q. For test methods they do? 3 BY MR. BECKER: 4 A. Yes. 4 Q. When you say it's not changed 6 graphics department does? 6 A. There could be editorial 7 MR. FEE: Objection. Vague. 7 changes. So that's a service that our 8 THE WITNESS: Graphics, I don't 8 editors perform. When they're putting it 9 know exactly everything that they do, 9 into the published version, they will work 10 but they will thak figures that are 10 with the technical contact to incorporate any 11 mem to make them more user friendly. 13 Q. You mentioned caveats in ASTM 14 BY MR. BECKER: 14 standards. What are those? 7 16 careated but the graphics department 16 our form and style manual? 17 MR. FEE: Objection to form. 19 MR. FEE: Objection. 20 18 MR PECKER: 21 to name all of them for you, but there </th <th></th> <th></th> <th></th> <th></th>				
3 Q. For test methods they do? 3 BY MR. BÉCKER: 4 A. Yes. 4 Q. When you say it's not changed 5 Q. What is the work that the 5 significantly, what do you mean? 6 graphics department does? 6 A. There could be editorial 7 MR. FEE: Objection. Yague. 7 changes, So that's a service that our 8 THE WITNESS: Graphics, I don't 8 editors perform. When they're putting it 9 wow exactly everything that they do, 9 into the published version, they will work 12 use them in our technology, update 11 editorial changes that may have been agreed 13 them to make them more user friendly. 13 Q. You mentioned caveats in ASTM 14 BY MR. BECKER: 13 Q. You mentioned caveats in ASTM 16 created by committee members or how are these 16 our form and style manual. 17 Figures created that the graphics department 18 the caveats in the form and style manual? 19 MR. FEE: Objection to form. 19 MR. FEE: Objection. 20 21 the caveatin and style manual? 10	1			
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5 Q. What is he work that the graphics department does? 5 significantly, what do you mean? 6 graphics department does? 6 A. There could be editorial 7 MR. FEE: Objection. Vague. 7 changes. So that's a service that our 8 THE WITNESS: Graphics, I don't 8 editors perform. When they're putting it 9 know exactly everything that they do, 9 into the published version, they will work 10 but they will take figures that ac 10 with the technical contact to incorporate any 13 them to make them more user friendly. 13 Q. You mentioned caveats in ASTM 14 BY MR. BECKER: 14 standards. What are those? 15 Q. Are these figures that were 16 our form and style manual. 17 guest that the graphics department 18 the caveats in the form and style manual? 19 MR. FEE: Objection to form. 19 MR. FEE: Objection to guest that - or 20 Do members. 0 committee 21 to name all of them for you, but there 21 macharys that you just described? 22 are caveats related to the use of uunits, so the standard will - the </td <td>3</td> <td>Q. For test methods they do?</td> <td>3</td> <td></td>	3	Q. For test methods they do?	3	
6 graphics department docs? 6 A. There could be editorial 7 MR. FEE: Objection. Vague. 7 changes. So that's a service that our 8 THE WITNESS: Graphics, I don't 9 editors perform. When they're putting it 9 know exactly everything that they do, 10 with the technical contact to incorporate any 10 but they will take figures that are 10 with the technical contact to incorporate any 11 mem to make them more user friendly. 13 Q. You mentioned caveats in ASTM 13 them to make them more user friendly. 13 Q. You mentioned caveats in ASTM 14 BY MR. BECKER: 14 standards. What are those? 15 16 care taby committee members on how are these 16 our form and style manual. 17 17 g. Are these figures that were 16 our form and style manual? 18 the caveats in the form and style manual? 18 would update? 19 MR. FEE: Objection to form. 19 MR. FEE: Objection. Vague. 21 to name all of them for you, but there 28 BY MR. BECKER: 21 io name all of them for you, but there 23	4			
7 MR. FEE: Objection. Vague. 7 changes. So that's a service that our 8 THE WITNESS: Graphics, I don't 8 editors perform. When they're putting it 9 know exactly everything that they do, 9 into the published version, they will work 10 but they will take figures that are 10 with the technical contact to incorporate any 11 perform technology, update 10 upon by the committee. 13 them to make them more user friendly. 13 Q. You mentioned caveats in ASTM 14 BY MR. BECKER: 14 standards. What are those? 15 Q. Are these figures that were 16 our form and style manual. 16 created by committee members or how are these 16 our form and style manual. 17 Q. Are those - what exactly are 18 the caveats in the form and style manual? 19 MR. FEE: Objection to form. 19 MR. FEE: Neulting it eare caveats related to the use of 21 the committee members. 20 THE WITNESS: I would assume by 11 identify the use of units within a 22 BY MR. BECKER: 22 units, so the standard will - the -	5	-	5	
8 THE WTINESS: Graphics, I don't 8 editors perform. When they're putting it 9 know exactly everything that they do, 9 into the published version. When they're putting it 10 but they will take figures that are 10 with the technical contact to incorporate any 11 perhaps old from years ago and we will 11 editorial changes that may have been agreed 12 use them in our technology, update 12 upon by the committee 13 13 them to make them more user friendly. 14 standards. What are those? 15 14 BY MR. BECKER: 14 standards. What are those? 16 our form and style manual. 19 MR. FEE: Objection to form. 19 MR. FEE: Objection. Vague. 17 Q. Are those - what exactly are 20 THE WTINESS: I would assume by 20 THE WTINESS: I would assume by 21 to name all of them for you, but there 23 Q. Do members - do committee 23 units, so the standard will - the - 24 there will be a caveat that will 25 identify the use of units within a 26 Q. Do committee members vote on 6 ouths: standa	6			
9 know exactly everything that they do, but they will take figures that are per pass old from years ago and we will use them in our technology, update 9 into the published version, they will work 12 use them in our technology, update 10 with the technical contact to incorporate any editorial changes that may have been agreed 13 them to make them more user friendly. 13 Q. You mentioned caveats in ASTM 14 BY MR. BECKER: 14 standards. What are those? 15 Q. Are those figures that were 15 A. There are caveats that are in 16 created by committee members or how are these 16 our form and style manual. 19 MR. FEE: Objection to form. 19 MR. FEE: Nouldn't be able 21 the committee members. 21 to name all of them for you, but there 23 Q. Do members do committee 23 units, so the standard will the 24 members vote on the changes that or 24 there will be a caveat that will 25 and ambiguous. 3 11 particular standard. We have certain 2 MR. FEE: Objection. 1 particular standard. We have certain 3 A. Thm not sure what you mean by<				-
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14 BY MR. BECKER: 14 standards. What are those? 15 Q. Are these figures that were 15 A. There are caveats that are in 16 created by committee members or how are these 16 our form and style manual. 17 Q. Are those what exactly are 18 would update? 18 the caveats in the form and style manual? 19 MR. FEE: Objection to form. 19 MR. FEE: Objection. Vague. 20 THE WITNESS: I would assume by 20 THE WITNESS: I would not be able 21 the committee members. 20 THE WITNESS: I would not be able 23 Q. Do members do committee 23 units, so the standard will the 24 members vote on the changes that or 24 there will be a caveat that will 25 additions that you just described? 25 identify the use of units within a 2 MR. FEE: Objection. 1 particular standard. We have certain 3 and ambiguous. 1 standard. We have certain 4 THE WITNESS: Yes. 5 standard. The sure there are some others. 6 Q. Do committee membe				
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23THE WITNESS: The content that23(Exhibit 1318, E-mail chain with24is balloted and approved through our24attachment, Bates ASTM087493 -25consensus process is not changed25ASTM087497, was marked for		of ASTM standards?		
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25 consensus process is not changed 25 ASTM087497, was marked for	21 22	MR. FEE: Objection. Vague.	22	 (Exhibit 1318, E-mail chain with
	21 22 23	MR. FEE: Objection. Vague. THE WITNESS: The content that	22 23	
	21 22 23 24	MR. FEE: Objection. Vague. THE WITNESS: The content that is balloted and approved through our	22 23 24	attachment, Bates ASTM087493 -

70 (Pages 274 - 277)

1	identification.)	1	Standards Writing 101 How To [as read]. It
2		$\begin{vmatrix} 2 \\ 2 \end{vmatrix}$	looks like something that was written in
3	BY MR. BECKER:	3	Standardization News back in 2000.
4	Q. I'm handing you what's been	4	Q. Does this document accurately
5	marked as Exhibit 1318. Does this exhibit	5	reflect the way that standards were developed
6	appear to show an individual who was	6	at ASTM in approximately March of 2000?
7	attempting to renew his application,	7	MR. FEE: You're going to have
8	membership application with ASTM by phone	8	to read the whole document to answer
9	A. I'd have to read it.	9	that question.
10	Q and e-mail?	10	THE WITNESS: This was, I
11	A. [Reviewing document.] Looks	11	believe, a way that an individual
12	like, based on what I'm reading here, they	12	could request the development of a new
13	were trying to renew the membership by phone,	13	standard.
14	but it doesn't say that it actually happened.	14	BY MR. BECKER:
15	Q. Can ASTM members renew their	15	Q. So there were other ways that
16	membership by phone or e-mail?	16	an individual could request the development
17	A. They could. It's not I	17	of a new standard as of March 2000?
18	don't think it's very common, but they could.	18	A. Yeah, they could make a request
19		19	from the subcommittee or by the subcommittee
20	(Exhibit 1319, 2011 ASTM	20	chairman.
21	International Committee Membership	21	
22	Application, Bates ASTM061183, was	22	(Exhibit 1321, How Standards are
23	marked for identification.)	23	Developed article, was marked for
24		24	identification.)
25	BY MR. BECKER:	25	
	Page 278		Page 280
1	Q. I'm handing you what's been	1	BY MR. BECKER:
2	marked as Exhibit 1319, document produced by	2	Q. I'm handing you what's been
3	ASTM as Bates number ASTM061183. What is	3	marked as Exhibit 1321. This document was
4	this document?	4	printed from the ASTM Web site at
5	A. It says, "2011 ASTMCommittee	5	www.astm.org/MEMBERSHIP/standardsdevelop.HTML.
6	Membership Application."	6	What is this document?
7	Q. Does this document appear to	7	A. It looks like maybe an article.
8	have a line crossed through the language	8	MR. FEE: Objection. Lack of
9	concerning the ASTM IP Policy?	9	foundation.
10	MR. FEE: Objection. The	10	THE WITNESS: Maybe an article
11	document speaks for itself.	11	we have on our Web site that helps
12	THE WITNESS: I can't say that	12	provide guidance for our members.
13	that's a line or whether that's an	13	BY MR. BECKER:
14	indicator towards the individual's	14	Q. Do you know what a US TAG ISO
15	account number.	15	list is?
16		16	A. A US
17	(Exhibit 1320, How To Standards	17	Q. US TAG ISO list.
18	Writing 101 New Standards, was marked	18	A. United States Technical
19	for identification.)	19	Advisory Group ISO list, I don't know if that
20		20	refers to the list of members that are
21	BY MR. BECKER:	21	serving on the technical advisory group.
22	Q. I'm handing you what's been	22	
23	marked as Exhibit 1320. What is this	23	(Exhibit 1322, 8/13/08 E-mail,
24	document?	24	Bates ASTM073852, was marked for
25	A. I'm not sure. It says	25	identification.)
	Page 279		Page 281

71 (Pages 278 - 281)

1 1P Policy or assignments? 2 MR. BECKER: Object as to form. 3 THE WITNESS: There is additional language. This document is identifies membership renewal Web 5 6 screenshots for different types of 7 7 members. So 1 identified page 2, and 7 8 then there's also additional language 9 9 on page ASTM001796 as well as 9 11 MR. FEECKER: No, no redirect. 13 Do you have any other questions 13 14 or is he done? 15 MR. BECKER: No, no redirect. 16 MR. FEE: Great. Thank you. 17 THE WITNESS. Thanks. 18 VIDEOGRAPHER: The time is now 18 19 7:57. This concludes the videotape 19 20 deposition concluded at 7:57 24 Opeosition concluded at 7:57 25 p.m.) 26 CERTIFICATE 3 10 berley worthy and onling but the textmony of admine the strong was not hered. 14 the twitte worth the admember of counsel 10 5 otheray worthight at ma notany 10 27 Free vitters and that lam member of counsel 10 16 <td< th=""><th></th><th></th><th></th><th></th><th></th><th>]</th></td<>]
3 THE WITNESS: There is 3 ince and correct. 4 additional language. This document 4 5 identifies membership renewal Web 5 Executed on, 20, 6 screenshots for different types of 6 at		· ·	1	I declare under penalty of perjury		
4 additional language. This document 4 5 identifies membership renewal Web 5 6 screenshots for different types of 6 7 members. So I identified page 2, and 7 8 then there's also additional language 8 9 on page ASTM001796 as well as 9 10 ASTM001798. And I believe that's it. 10 11 MR. FEE: I have no other 11 12 questions. 12 13 Do you have any other questions 13 14 or is he done? 14 15 MR. BECKER: No, no redirect. 15 16 MR. FEE: Toreat. Thanky you. 16 17 THE WITNESS: Thanks. 17 18 VIDECORAPHER: The time is now 18 20 deposition of Dan Smith. 20 21 21 22 (Witness excused.) 22 23 23 24 (Deposition concluded at 7:57 24 25 p.m.) Page 200 7 Develop stand dotting worn to fail 6 the truth, the stimong you wor to fail 7 page stand wore disclosed that 3			2	under the laws that the foregoing is		
5 identifies membership renewal Web 5 Executed on, 20 6 at	3	THE WITNESS: There is	3	true and correct.		
6 screenshots for different types of members. So I identified page 2, and then ther's also additional language on page ASTM001796 as well as not ASTM001796 as well as a different set on other questions. 6 at	4	additional language. This document	4			
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EXHIBIT 14

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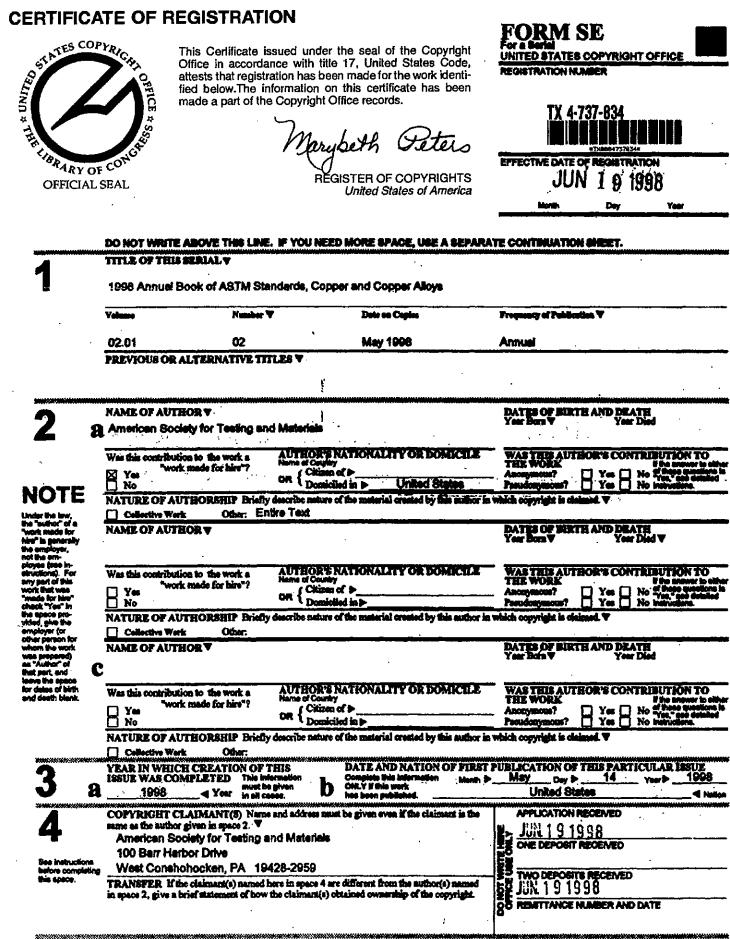
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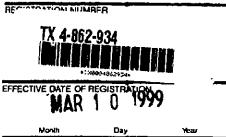
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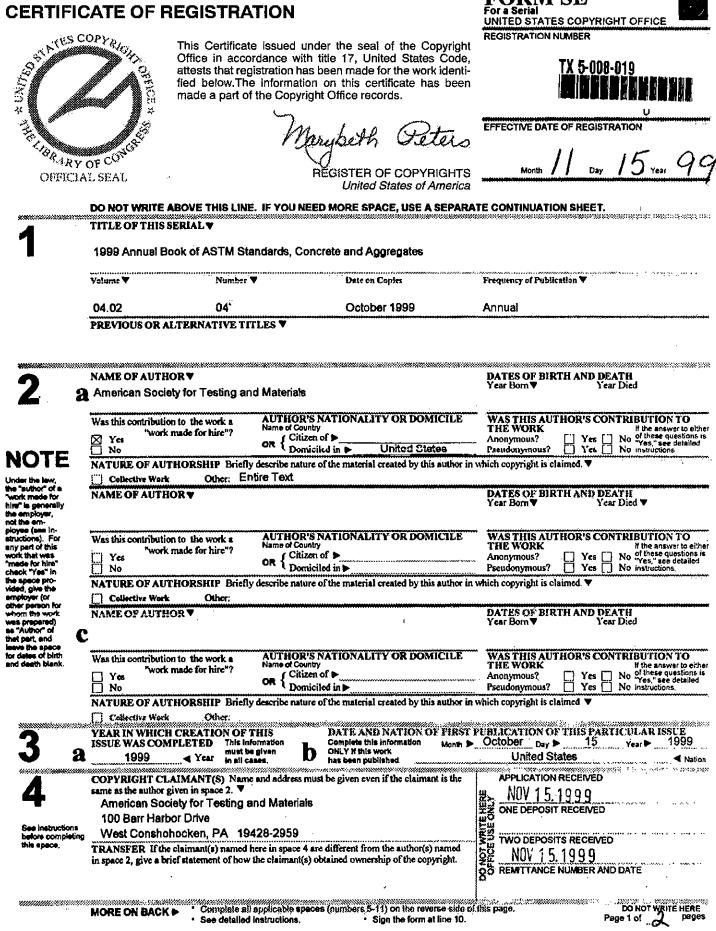
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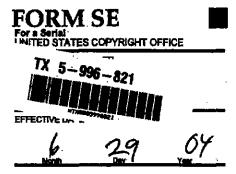
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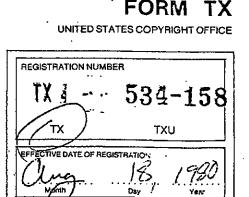
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TX TX	696- тхи	45.2	
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Month	Day	Year	

		DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE C	ONTINUATION	SHEET		
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(1)	Part 16: Chemical-Resistant Materials; Vitrified					
Thie	Clay, Concrete, Asbestos-Cement Products; Mortars,					
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Author(s)		NAME OF AUTHOR: American Society for Testing and Mater	-uro i	ATES OF BIRTH AND DEATH:		
Author(s)		Was this author's contribution to the work a "work made for hire"? Yes. X. No	. F	Som Died		
•		AUTHOR'S NATIONALITY OR DOMICILE:		THOR'S CONTRIBUTION TO		
	1	Citizen of	THE WORK: Anonymous	? Yes No		
		AUTHOR OF: (Briefly describe nature of this author's contribution)	· · ·	ous? Yes No to either of these questions is		
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		NAME OF AUTHOR:	1	ATES OF BIRTH AND DEATH:		
		Was this author's contribution to the work a "work made for hire"? Yes No		Som Died (Year) (Year)		
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(4)	}	American Society for Testing and Materials				
	i	1916 Race Street	• . •	•		
Claimant(s)		Philadelphia, PA 19103				
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Register of Copyrights, United States of America

Registration Number TX 7-685-915

Effective date of registration: March 5, 2013

	ASTM D975-07 Standards Specificaiton for Diesel Fuel Oils	
		•.
Year of Completion:		
Date of 1st Publication:		
Author:	ASTM International	
Author Created:	Entire Text	
Work made for hire:	Yes	
Domiciled in:	United States	
Copyright claimant		
Copyright Claimant:	ASTM International	
	100 Barr Harbor Drive, West Conshohocken, PA, 19428, United States	
Limitation of convright cla	im	
Material excluded from this claim:		
Previous registration and year:	TX 6-563-072 2007	
	TX 6-342-584 2006	
New material included in claim:	text, editing	·
Rights and Permissions		
Organization Name:	ASTM International	
Name:	Kathleen Hooper	
Email:	khooper@astm.org Telephone: 610-83	82-9634
Address:	100 Barr Harbor Drive	

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ASTM000159

Name: Kathleen Hooper Date: March 1, 2013

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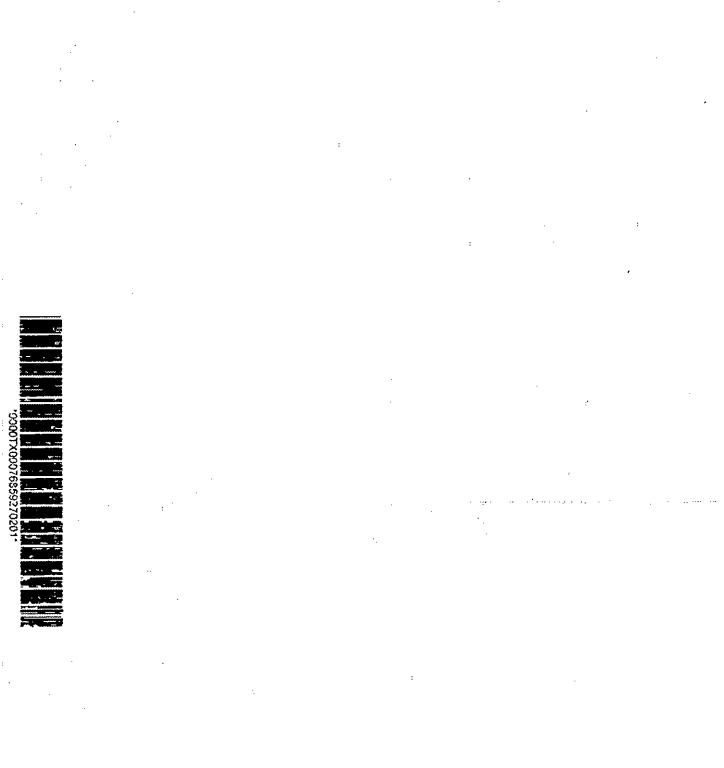
Registration Number TX 7-685-927

Effective date of registration: March 5, 2013

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Completion/Publication ~ Year of Completion:			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	· · · · · · · · · · · · · · · · · · ·	
Date of 1st Publication:			Nation of 1st Public	ation: United States	
Author					
	ASTM Internation				
· Author Created:	Entire Text				
Work made for hire:	Yes				
Domiciled in:	United States				
Copyright claimant		****	****		*****
Copyright Claimant:					
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Limitation of copyright cl	aim		*****	1842-1949-1949-1949-1949-1949-1949-1949-19	
Material excluded from this claim:					
Previous registration and year:	I	1999			
	TX 4-787-636	1998			
New material included in claim:	text, editing				
Rights and Permissions					
Organization Name:					
Name:	Kathleen Hooper				
Email:	khooper@astm.org	g		Tclephone:	610-832-96
Address:	100 Barr Harbor D	Drive			
			28 United States		

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Name: Kathleen Hooper Date: March 1, 2013



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Register of Copyrights, United States of America

Registration Number TX 7-685-938

> Effective date of registration: March 5, 2013

Title	ASTM A106/A106M-04b High Temperature Service	Standard Specification for Seamless Carbon Ste	el Pipe for
Completion/Publication - Year of Completion:			
Date of 1st Publication:		Nation of 1st Publication: United States	
Author			
	ASTM International		
Author Created:	Entire Text		
Work made for hire:	Yes		
Domiciled in:	United States		
Copyright claimant Copyright Claimant:	ASTM International	est Conshohocken, PA, 19428, United States	
Limitation of copyright cla Material excluded from this claim:			*****
Previous registration and year:	TX 5-914-334 2004		:
	TX 5-665-928 2003		
New material included in claim:	text, editing		
Rights and Permissions Organization Name:	ASTM International		
Name:	Kathleen Hooper		
Email:	khooper@astm.org	Telephone:	610-832-9634
Address:	100 Barr Harbor Drive		
	West Conshohocken, PA 1	9428 United States	
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Name: Kathleen Hooper Date: March 1, 2013

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Register of Copyrights, United States of America

Registration Number TX 7-685-941

> Effective date of registration: March 5, 2013

	ASTM D86-07 Standards Test Methods for Distillation of Petroleum Products at Armospheric Pressure				
Completion/Publication -		-			
Year of Completion:					
Date of 1st Publication:	March 1, 2007 Nation of 1st Publication: United States				
Author		140 .			
Author:	ASTM International				
Author Created:	Entire Text				
Work made for hire:	Yes	·			
Domiciled in:	United States				
Copyright claimant	······································	***			
Copyright Claimant:					
	100 Barr Harbor Drive, West Conshohocken, PA, 19428, United States				
Limitation of copyright cla Material excluded from this claim:	laim : text				
Previous registration and year:	TX 6-563-072 2007				
	TX 6-342-584 2006				
New material included in claim:	text, editing				
Rights and Permissions		***			
Organization Name:	ASTM International				
Name:	Kathleen Hooper				
Email:	khooper@astm.org Telephone: 610-8	332-9634			
Address:	100 Bart Harbor Drive				
	West Conshohocken, PA 19428 United States				
Certification					

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Name: Kathleen Hooper Date: March 1, 2013

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Register of Copyrights, United States of America

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Registration Number TX 7-763-690

Effective date of registration: April 10, 2013

Title Title of Work:	F1193 - 06 Standard I Rides and Devices	ractice for Quality, Manuf	facture, and C	onstruction o	fAmusement
Completion/Publication -					
Year of Completion:	2006			;	
Date of 1st Publication:	March 3, 2006	Nation of 1st Publ	ication: Unit	ed States	,
Author				********	*********
* Author:	ASTM International				
Author Created:	Entire Text				
Work made for hire:	Yes				
Domiciled in:	United States				
Copyright claimant					
Copyright Claimant:	ASTM International				
· · ·	100 Barr Harbor Driv	e, West Conshohocken, PA	, 19428, Unit	cd States	
Limitation of copyright cla Material excluded from this claim:					<u></u>
Previous registration and year:	TX 6-270-668 200	5	•		
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New material included in claim:	text, editing			•	
Rights and Permissions				······	
Organization Name:	ASTM International				
Name:	Kathleen Hooper		:	:	
Email:	khooper@astm.org	:	,	Telephone:	610-832-9634
Address:	100 Barr Harbor Drive	•		•	
	West Conshohocken,	PA 19428 United States		;	
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Name: Kathleen Hooper Date: April 10, 2013

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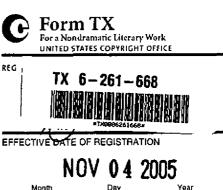
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NAME OF AUTHOR ▼		DATES OF BIR		
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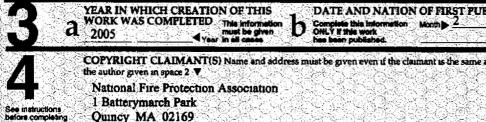
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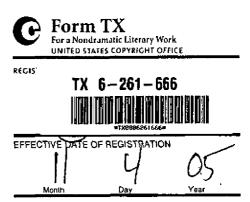
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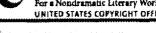
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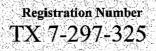
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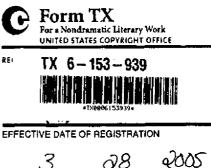
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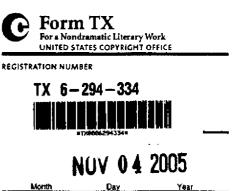


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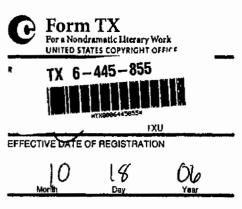
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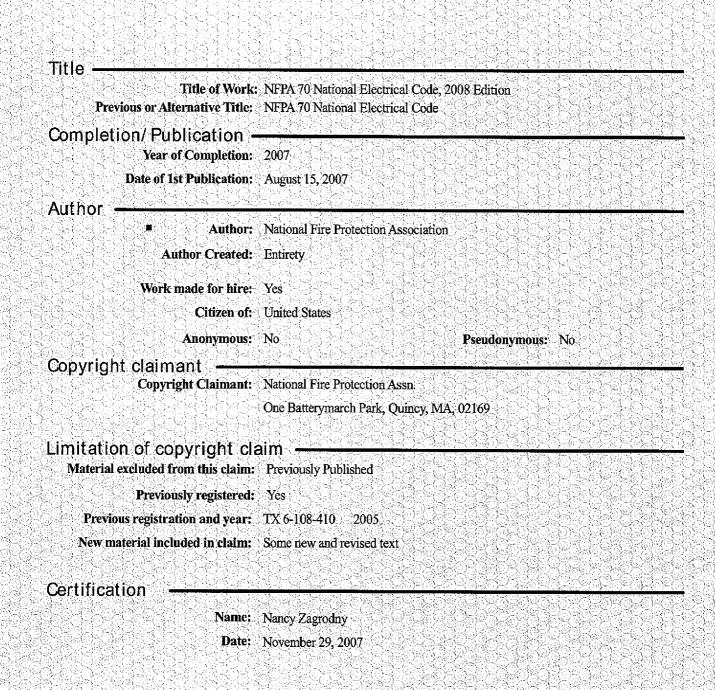


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Completion/Publication -	
Year of Completion:	2013
Date of 1st Publication:	November 1, 2013 Nation of 1st Publication: United States
Author	
Author:	NFPA
Author Created:	text, photographs, compilation, editing, artwork
Work made for hire:	Yes
Citizen of:	United States
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Work made for hire:	Yes	
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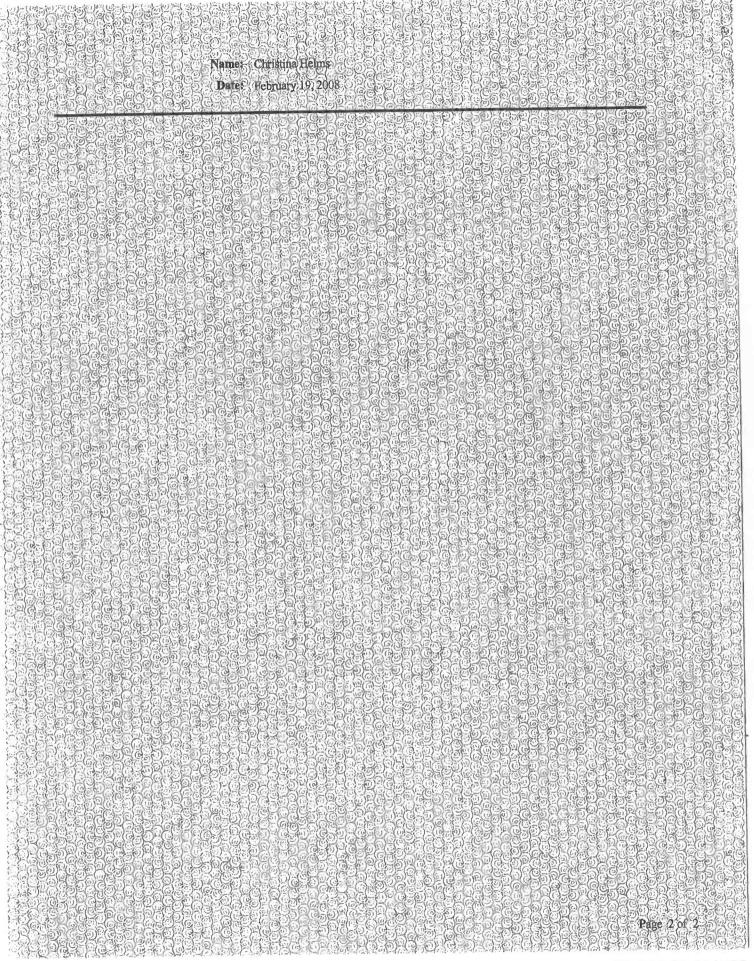
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Effective date of registration:

Registration Number:

Rebruary 29, 2008

한 영상 이 가 있는 것은	ANSI/ASHRAÉ/IESNA Standard 901-2007, Energy Standard for Buildings Except Low-Rise Residential Buildings (I-P)
	ANSI/ASHRAE/IESNA Standard 90 1-2004, Energy Standard for Buildings Except Low-Rise Residential Buildings (1-P)
Completion/Publication - Year of Completion: Date of 1st Publication:	2008 January 9, 2008 Nation of 1st Publication: United States
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Author Created: Work made for hire:	Text and illustrations. Yes
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Under the law the "author" of a "work made for hire" is	NAME OF AUTHOR V	DATES OF BIRTH AND DEATH Year Born ▼ Year Died ▼
generally the employer, not the employee (see instruc- tions) For any part of this	Was this contribution to the work a work made for hire ? Yes No No No No No No No No No N	
work that was "made for hire" check "Yes" in the space	NATURE OF AUTHORSHIP Briefly describe nature of material created by this author in which	
provided, give the employer (or other person for.	NAME OF AUTHOR ▼	DATES OF BIRTH AND DEATH Year Born ♥ Year Died ♥
whom the work was prepared) as "Author" of that part, and leave the space for dates of birth and death blank	Was this contribution to the work a work made for hire'? Yes No No No No No NATURE OF AUTHORSHIP Briefly describe nature of material created by this author in which	- Pseudonymous? _ Yes _ No Instructions
3 a	YEAR IN WHICH CREATION OF THIS WORK WAS COMPLETED The information must be given in all cases being published.	LICATION OF THIS PARTICULAR WORK
4 See instructions before completing this space	COPYRIGHT CLAIMANT(S) Name and address must be given even if the claimant is the same a the author given in space 2 ♥ American Society of Heating, Refrigerating & Air-Conditioning Engrs 1791 Tullie Circle, NE Atlanta, GA 30329-2305 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 ♥	APPLICATION RECEIVED DEC 3 0 2004 ONE DEPOSIT RECEIVED TWO DEPOSITS RECEIVED DEC 3 0 2004 FUNDS RECEIVED
particularly (subject particular)	MORE ON BACK	DO NOT WRITE HERE

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	FEB 2 5 2005 SPECIAL PUBS		FOR
	SPEÇIAL PUBS	Yes .	COPYRIGI OFFICE USE ONLY
•	DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, U	SE & SEPARATE CONTINUATION SHEET	
REVIOUS	REGISTRATION Has registration for this work, or for an earlier version of this	and the second	
C) Thu is t C) This is t D) This is a	6 If your answer is Yes," why is another registration being sought? (Check appro- he first published edition of a work previously registered in unpublished form he first application submitted by this author as copyright claimant i changed version of the work, as shown by space 6 on this application er is "Yes, give Previous Registration Number ► TX 5-662-106	Year of Registration ► 2001	5
ERIVATI	VE WORK OR COMPILATION Asternal Identify any preexisting work or works that thus work is based on or incom	porates V	a C
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EXHIBIT 17



From: Carl Malamud Sent: Tue 6/30/2009 5:22 PM (GMT -7) To: Deborah Hunt Cc: Bcc: Subject: Re: special libraries

Thanks so much for this tip ... I am actually in Missouri as we speak, but won't be heading through Kansas City until Friday, and they are unfortunately closed for the holidays. But, I will definitely give them a ring.

The Illinois State Library and the Linda Hall Library appear to be the only two in the U.S. with a decent collection of these technical standards from organizations such as ANSI, ASTM, and UL. While many of these standards have a strong copyright interest, there is a subset of these that have been incorporated by reference into the Code of Federal Regulations. Since those standards have become law of the land, and since the courts have ruled that those standards that have been incorporated as law are not subject to copyright, I'm trying to figure out how to make these standards more broadly available for the public to read.

Thanks again for the tip. Perhaps we could do a phone call or I could stop by the Exploratorium to meet you and explain what we're trying to do? I'm based in Sebastopol, about an hour north of you and get to the city frequently.

Best regards,

Carl

On Jun 30, 2009, at 3:56 PM, Deborah Hunt wrote:

> Hi, Carl.

- > I've been back over 10 days and this got buried.
- > What kind of tech standards are you after?
- > The Linda Hall Library has a fabulous collection:
- > http://www.lindahall.org/collections/engineering/specs.shtml
- >

> Deb

>

- > On Wed, Jun 10, 2009 at 7:41 PM, Deborah Hunt > <dhunt@exploratorium.edu> wrote:
- > Hi, Carl.
- > I'm in DC on vacation and then at the SLA Annual Conference and not

> back at work till 6/22.

> If you can wait till then, we can talk.

- >
- > have you tried worldcat.org to look for your standards or

> firstgov.gov?

> Deb

21/05/0

> On Wed, Jun 10, 2009 at 4:46 PM, Carl Malamud <carl@media.org> wrote: > Hi -

>

> I run a small nonprofit called Public.Resource.Org that tries to put
> more government information on-line. We've had a big impact on
> putting more judicial information on the Internet, but also do
> video, and a variety of other documents such as IRS nonprofit tax
> returns.
> 'I'm looking for a special library that might have a particular set
> of docs (technical standards) and I was wondering if perhaps you
> might have a few minutes for a phone call to point me in the right
> direction? I must confess, I found your name by scanning the SLA
> board page. My father spent 6 months at the Exploratorium as
> assistant director working with Oppenheimer and then went off and
> started a science museum called SciTech. So, Exploratorium rang a
> bell. :)

> Let me know if you might have a few minutes.

>

> Best regards,

>

> Carl Malamud

> Public.Resource.Org

>

> >

> ---

>

- > Deborah Hunt
- > Manager, Learning Commons

> Exploratorium

> 3601 Lyon Street

> San Francisco, CA 94123

> Voice: 415-353-0485

> Fax: 415-561-0370

> mailto:dhunt@exploratorium.edu

>

> "There is no such thing as a self-made (wo)man. We are made up of

> thousands of others. Everyone who has ever done a kind deed for us, or

> spoken one word of encouragement to us, has entered into the makeup of

> our character and our thoughts, as well as our success."

> George Matthew Adams

>

> >

> ---

>

> Deborah Hunt

> Manager, Learning Commons

> Exploratorium

> 3601 Lyon Street

- > San Francisco, CA 94123
- > Voice: 415-353-0485
- > Fax: 415-561-0370
- > mailto:dhunt@exploratorium.edu
- >
- > "There is no such thing as a self-made (wo)man. We are made up of
- > thousands of others. Everyone who has ever done a kind deed for us, or
- > spoken one word of encouragement to us, has entered into the makeup of
- > our character and our thoughts, as well as our success."
- > George Matthew Adams

EXHIBIT 18

Public Safety Standards of the United States

38 EXHIE Ashley See 2/20/15 Date Witness Table of Codes ↑ MALAMUD

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	Swinging Exterior	24 CFR 3280.405(e)(2)

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	6 100010		Public Safety Standard	s of the United States	
OPU	CHERCO.		Manufacturers Association	Passage Doors Voluntary Standard for Utilization in Manufactured-Housing	
	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 of State Highway and Transportation Officials	A Policy on Geometric Design of Highways and Streets	23 CFR 625.4
	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	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	DC Electric Bilge	46 CFR 182.500(b)

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P 3	1	Public Safety Standard		1
		Yacht Council	Pumps Operating Under 50 Volts	
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
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

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,		Public Safety Standar	ds of the United States	
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
АНРА	1992	American Herbal Products Association	Herbs of Commerce	21 CFR 101.4(h)
AI MSI-1	1970	Asphalt Institute	Thickness DesignFull Depth Asphalt Pavement Structures for Highways and Streets	24 CFR 200, Subpart S

		Public Safety Standard	s of the United States	
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	Photography–Density Measurements–Part 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 Papers– Filing Enclosures and Storage Containers	36 CFR 1238.10(a)(1)
AIMM/PIMA IT9.11	1998	Association for Information and Image Management	Imaging Materials– Processed Safety Photographic Film– Storage	36 CFR 1234.14(b)(1)
AIMM IT9.23	1996	Association for Information and Image Management	Imaging Materials– Polyester Based Magnetic Tape– Storage	36 CFR 1234.14(b)(2)
AIMM/PIMA IT9.25	1998	Association for Information and Image Management	Imaging Materials– Optical Disc Media– Storage	36 CFR 1234.14(b)(3)
AIMM MS1	1996	Association for Information and Image Management	Recommended Practice for Alphanumeric Computer-Output Microforms Operational 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)

	F	Public Safety Standard	ds of the United States	
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 Procedures–Inspection 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 Management	Sampling Procedures for Inspection by Attributes of Images in Electronic Image Management and Micrographic Systems	36 CFR 1237.28(d)(2)
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	LaddersWood–Safety Requirements	29 CFR 1917
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		Public Safety Standards	s of the United States	
ANSI A14.2 (pdf) ANSI A14.2 (html) ANSI A14.2 (svg)	1990	American National Standards Institute	Ladders–Portable Metal–Safety	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	Safety Code for the Use, Care, and Protection of Abrasive Wheels	29 CFR 1926
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 836.19	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 01.1 (pdf) ANSI 01.1 (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 \$1.25	1991	American National Standards Institute	Specification for Personal Noise Dosimeters	49 CFR 227.103(c)(2)(iii)
ANSI S1.40	1984	American National Standards Institute	Specification for Acoustical Calibrators	49 CFR 229, Appendix I
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)	1968	American National	Specifications for	29 CFR 1926

		Public Safety Standard	ls of the United States	
ANSI Z35.1 (html)		Standards Institute	Accident Prevention	
ANSI Z35.1 (svg)			Signs	
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 CompactionSatety 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	1992	American Public Health	Standard Methods for	40 CFR 136.3(a)

		Public Safety Standards	s of the United States	
2320 (pdf) APHA Method 2320 (html)		Association	the Examination of Water and Wastewater	
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 Association	Standard 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	Standard Methods for the Examination of Water and Wastewater	40 CFR 136.3(a)
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	1992	American Public Health	Standard Methods for	40 CFR 136.3(a)

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		Public Safety Standard	ls of the United States	
3500-MG (pdf) APHA Method 3500-MG (html)		Association	the Examination of Water and Wastewater	
APHA Method 3500-PB (pdf) APHA Method 3500-PB (html)	1992	American Public Health Association	Standard Methods for the Examination of Water and Wastewater	40 CFR 444.12
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) (l)(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
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		Public Safety Standards	s of the United States	
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
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	Standard Methods for the Examination of Water and Wastewater	40 CFR 136.3(a)
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	30 CFR 250.114(c)

		Public Safety Standard	s of the United States	
			Systems for Offshore Production Platforms	
API 17J	2008	American Petroleum Institute	Specification for Unbonded Flexible Pipe	30 CFR 250.1002(b)(4)
AP1 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)
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	Recommended	30 CFR 250.803(b)(9)(v)
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		Institute	Practice for Fire Prevention and Control on Open Type Offshore Production Platforms	
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) ASME B30.14 (svg)	2004	American Society of Mechanical Engineers	Safety Requirements for Side Boom Tractors	29 CFR 1926
ASME B31.4	2002	American Society of Mechnical Engineers	Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids	49 CFR 195.110(a)

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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	24 CFR 3280.604(b)(2)

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			Public Safety Standards	s of the United States	
				Pressure Balancing and Combination Control for Bathing Facilities	
	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
	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	Standard Specification	24 CFR 200, Subpart S
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			Public Safety Standard	s of the United States	
			Testing and Materials	for Fabricated Deformed Steel Bar Mats for Concrete Reinforcement	
	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 Testing and Materials	Standard Specification for Metal-Arc-Welded Steel Pipe for Use with High-Pressure Transmission Systems	49 CFR 192.113
	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	Uncoated Seven-Wire	24 CFR 200, Subpart S
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		Public Safety Standard	s of the United States	
		Testing and Materials	Stress-Relieved Strand for Prestressed Concrete	
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	46 CFR 56.50-105

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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 Testing and Materials	Hot-Rolled Carbon Steel Sheet and Strip, Structural Quality	24 CFR 200, Subpart S
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)

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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
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	46 CFR 119.440

		Public Safety Standar	ds of the United States	
			Plate, Sheet, Strip, and Bolled Bar for General Purposes and Pressure Vessels	
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	49 CFR 178.46(i)(3)(i)

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		Public Safety Standard	s of the United States	
			Aluminum and Magnesium-Alloy Products	
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
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

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		Public Safety Standard	ds of the United States	
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 C509	1984	American Society for Testing and Materials	Standard Specification for Elastomeric Cellular Preformed Gasket and Sealing Material	24 CFR 200, Subpart S
ASTM C516	1980	American Society for Testing and Materials	Standard Specification for Vermiculite Loose Fill Thermal Insulation	24 CFR 200, Subpart S
ASTM C518	1991	American Society for Testing and Materials	Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission	46 CFR 160.174-17(f)

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r		Public Safety Standard		(
			Properties by Means of the Heat Flow Meter Apparatus	
ASTM C518	2004	American Society for Testing and Materials	Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus	16 CFR 460.5(a)
ASTM C549	1981	American Society for Testing and Materials	Standard Specification for Perlite Loose Fill Insulation	10 CFR 440 Appendix A
ASTM C564	1970	American Society for Testing and Materials	Standard Specification for Rubber Gaskets for Cast Iron Soil Pipe and Fittings	24 CFR 3280.611(d)(5) (iv)
ASTM C720	1989	American Society for Testing and Materials	Spray Applied Fibrous Insulation for Elevated Temperature	10 CFR 440 Appendix A
ASTM C1045	2001	American Society for Testing and Materials	Standard Practice for Calculating Thermal Transmission Properties from Steady-State Heat Flux Measurements	16 CFR 460.5(a)
ASTM C1114	2000	American Society for Testing and Materials	Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Thin-Heater Apparatus	16 CFR 460.5(a)
ASTM C1149	2002	American Society for Testing and Materials	Standard Specification for Self-Supported Spray Applied Cellulosic Thermal Insulation	16 CFR 460.5(a)(4)
ASTM C1224	2003	American Society for Testing and Materials	Standard Specification for Reflective Insulation for Building Applications	16 CFR 460.5(c)
ASTM C1371	2004	American Society for Testing and Materials	Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers	16 CFR 460.5(b)
ASTM C1374	2003	American Society for Testing and Materials	Standard Test Method for Determination of	16 CFR 460.5(a)(5)

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		Public Safety Standar	ds of the United States	
			Installed Thickness of Pneumatically Applied Loose-Fill Building Insulation	
ASTM D56	1970	American Society for Testing and Materials	Standard Test Method for Flash Point by Tag Closed Cup Tester	29 CFR 1910.106(a)(14 (i)
ASTM D86	2001	American Society for Testing and Materials	Standard Test Method for Distillation of Petroleum Products at Atmospheric Pressure	40 CFR 94.108(a)(1) Table B-5
ASTM D86	2004	American Society for Testing and Materials	Standard Test Method for Distillation of Petroleum Products at Atmospheric Pressure	40 CFR 1065.710
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

		Public Safety Standard	s of the United States	
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 Property– Adhesion 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)
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)

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	1	Public Safety Standar	ds of the United States	1
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 Property– Vapor 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)(
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

		Public Safety Standard	s of the United States	
ASTM D1193	1977	American Society for Testing and Materials	Standard Specification for Reagent Water	40 CFR 60, Appendix A- 3
ASTM D1200	1970	American Society for Testing and Materials	Viscosity of Paints, Vamishes 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) (l)(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)

		Public Safety Standard	ds of the United States	
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 Latices–Nomenclature	21 CFR 177.2600(c)(4)(i)
ASTM D1475	1960	American Society for Testing and Materials	Standard Test Method for Density of Paint, Vamish, 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 Lipkin Bicapillary Pycnometer	40 CFR 136.3(a) Table IC
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	Standard Method of	40 CFR 136.3(a)

		Public Safety Standards	s of the United States	
		Testing and Materials	Testing Flexible Cellular Materials–Slab Urethane Foam	
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
ASTM D2099	2000	American Society for Testing and Materials	Standard Test Method for Dynamic Water	40 CFR 63.5350(b)

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		Public Safety Standar	ds of the United States	
			Resistance of Shoe Upper Maeser Water Penetration Tester	
AS'TM 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	40 CFR 75, Appendix G

		Public Safety Standard	s of the United States	
			(Relative Molecular Mass) of Petroleum Oils from Viscosity Measurements	
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 and Carbon Dioxide by Gas Chromatography	40 CFR 60.335(b)(9)(i)
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	Standard Method of	21 CFR 177.2210(b)(3)

	1	Testing and Materials	ds of the United States	1
			Viscosity of Polymers	
ASTM D2879	1997	American Society for Testing and Materials	Standard Test Method for Vapor Pressure– Temperature 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(k (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

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		Public Safety Standard	s of the United States	
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)
ASTM D3246	1996	American Society for Testing and Materials	Standard Test Method for Sulfur in Petroleum Gas by Oxidative Microcoulometry	40 CFR 60.335(b)(10)(ii)
ASTM D3286	1996	American Society for Testing and Materials	Standard Test Method for Gross Calorific Value of Coal and Coke by the Isoperibol Bomb Calorimeter	40 CFR 60.17
ASTM D3371	1995	American Society for Testing and Materials	Standard Test Method for Nitriles in Aqueous Solution by Gas-Liquid Chromatography	40 CFR 136.3(a) Table IF
ASTM D3454	1997	American Society for Testing and Materials	Standard Test Method for Radium-226 in Water	40 CFR 136.3(a) Table IE
ASTM D3559 (pdf) ASTM D3559 (html)	2003	American Society for Testing and Materials	Standard Test Methods for Lead in Water	40 CFR 136
ASTM D3588	1998	American Society for Testing and Materials	Standard Practice for Calculating Heat Value, Compressibility Factor, and Relative Density (Specific Gravity) of Gaseous Fuels	40 CFR 75, Appendix F
ASTM D3695	1995	American Society for Testing and Materials	Standard Test Method for Volatile Alcohols in Water by Direct Aqueous-Injection Gas Chromatography	40 CFR 136.3(a) Table IF
ASTM D3697	1992	American Society for Testing and Materials	Standard Test Method for Antimony in Water	21 CFR 165.110(b)(4)(iii) (E)(1)(iv)
ASTM D4057	1995	American Society for Testing and Materials	Standard Practice for Manual Sampling of Petroleum and Petroleum Products	40 CFR 80.8(a)
ASTM D4084	1994	American Society for Testing and Materials	Standard Test Method for Analysis of Hydrogen Sulfide in Gaseous Fuels (Lead	40 CFR 60.334(h)(1)

	1	Public Safety Standar	ds of the United States	
			Acetate Reaction Rate Method)	
ASTM D4177	1995	American Society for Testing and Materials	Standard Practice for Automatic Sampling of Petroleum and Petroleum Products	40 CFR 80.330(b)(2)
ASTM D4239	1997	American Society for Testing and Materials	Standard Test Methods for Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Fumace Combustion Methods	40 CFR 60, Appendix A 7
ASTM D4268	1993	American Society for Testing and Materials	Standard Test Method for Testing Fiber Ropes	33 CFR 164.74(a)(3)(i)
ASTM D4294	1998	American Society for Testing and Materials	Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy- Dispersive X-Ray Fluorescence Spectrometry	40 CFR 75, Appendix A Section 2.1.1.1(c)
ASTM D4329	1999	American Society for Testing and Materials	Standard Practice for Fluorescent UV Exposure of Plastics	49 CFR 571.106
ASTM D4420	1994	American Society for Testing and Materials	Standard Test Method for Determination of Aromatics in Finished Gasoline by Gas Chromatography	40 CFR 61.67(h)(1)
ASTM D4442	1992	American Society for Testing and Materials	Standard Test Method for Direct Moisture Content Measurement of Wood and Wood- Based Materials	40 CFR 60, Appendix / 8
ASTM D4444	1992	American Society for Testing and Materials	Standard Test Method for Use and Calibration of Hand-Held Moisture Meters	40 CFR 60, Appendix / 8
ASTM D4763	1988	American Society for Testing and Materials	Standard Practice for Identification of Chemicals in Water by Fluorescence Spectroscopy	40 CFR 136.3(a) Table IF
ASTM D4809	1995	American Society for Testing and Materials	Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter (Precision Method)	40 CFR 61.245(e)(3)

		Public Safety Standard	s of the United States	
ASTM D4891 (pdf) ASTM D4891 (html)	1989	American Society for Testing and Materials	Standard Test Method for Heating Value of Gases in Natural Gas Range by Stolchiometric Combustion	40 CFR 75, Appendix F, Section 5.5.2
ASTM D4986	1998	American Society for Testing and Materials	Standard Test Method for Horizontal Buming Characteristics of Cellular Polymeric Materials	46 CFR 32.57-10(d)(7–a)
ASTM D5257	1997	American Society for Testing and Materials	Standard Test Method for Dissolved Hexavalent Chromium in Water by Ion Chromatography	40 CFR 136.3(a)
ASTM D5373	1993	American Society for Testing and Materials	Standard Methods for Instrumental Determination of Carbon, Hydrogen, and Nitrogen in Laboratory Samples of Coal and Coke	40 CFR 75, Appendix G
ASTM D5392	1993	American Society for Testing and Materials	Standard Test Method for Isolation and Enumeration of Escherichia Coli in Water by the Two-Step Membrane Filter Procedure	40 CFR 136.3(a) Table IH
ASTM D5489	1996	American Society for Testing and Materials	Standard Guide for Care Symbols for Care Instructions on Textile Products	16 CFR 423.8(g)
ASTM D5673	1996	American Society for Testing and Materials	Standard Test Method for Elements in Water by Inductively Coupled Plasma	40 CFR 444.12(b)(1)
ASTM D5865	1998	American Society for Testing and Materials	Standard Test Method for Gross Calorific Value of Coal and Coke	40 CFR 60.45(f)(5)(ii)
ASTM D6216	1998	American Society for Testing and Materials	Standard Practice for Opacity Monitor Manufacturers to Certify Conformance with Design and Performance Specifications	40 CFR 60, Appendix B
ASTM D6228	1998	American Soclety for Testing and Materials	Standard Test Method for Determination of Sulfur Compounds in	40 CFR 60.334(h)(1)

		Public Safety Standar	rds of the United States	
			Natural Gas and Gaseous Fuels by Gas Chromatography and Flame Photometric Detection	
ASTM D6420	1999	American Society for Testing and Materials	Standard Test Method for Determination of Gaseous Organic Compounds by Direct Interface Gas Chromatography-Mass Spectrometry	40 CFR 63.5850(e)(4)
ASTM D6503	1999	American Society for Testing and Materials	Standard Test Method for Enterococci in Water Using Enterolert	40 CFR 136.3(a) Table IH
ASTM D6522	2000	American Society for Testing and Materials	Standard Test Method for Determination of Nitrogen Oxides, Carbon Monoxide, and Oxygen Concentrations in Emissions from Natural Gas-Fired Reciprocating Engines, Combustion Turbines, Boilers, and Process Heaters Using Portable Analyzers	40 CFR 60.335(a)(2)
ASTM E11	1970	American Society for Testing and Materials	Standard Specification for Wire Cloth and Sieves for Testing Purposes	33 CFR 159.4
ASTM E11	1995	American Society for Testing and Materials	Standard Specification for Wire Cloth and Sieves for Testing Purposes	33 CFR 159.125
ASTM E23	1982	American Society for Testing and Materials	Standard Test Methods for Notched Bar Impact Testing of Metallic Materials	46 CFR 56.50-105(a)(1) (ii)
ASTM E23	1993	American Society for Testing and Materials	Standard Test Method for Notched Bar Impact Testing of Metallic Materials	46 CFR 56.50-105(a)(1) (ii)
ASTM E29	1967	American Society for Testing and Materials	Standard Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications	40 CFR 86.609-98
ASTM E29	1990	American Society for Testing and Materials	Standard Practice for Using Significant Digits	40 CFR 86.000-28(a)(4) (iii)

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			in Test Data to Determine Conformance with Specifications	
ASTM E29 (pdf) ASTM E29 (html)	2002	American Society for Testing and Materials	Standard Specification for Diesel Fuel Oils	40 CFR 1065.701 Table 1
ASTM E72	1980	American Society for Testing and Materials	Standard Test Methods of Conducting Strength Tests of Panels for Building Construction	30 CFR 75.333(e)(1)(i)
ASTM E84 (pdf) ASTM E84 (html)	2001	American Society for Testing and Materials	Standard Test Method for Surface Buming Characteristics of Building Materials	24 CFR 3280.203(a)
ASTM E96	1995	American Society for Testing and Materials	Standard Test Methods for Water Vapor Transmission of Materials	24 CFR 3280.504(a)
ASTM E119 (pdf) ASTM E119 (html)	2000	American Society for Testing and Materials	Standard Test Methods for Fire Tests of Building Construction and Materials	49 CFR 238 Appendix B(a)(1)(v)
ASTM E145	1994	American Society for Testing and Materials	Standard Specification for Gravity-Convection and Forced- Ventilation Ovens	40 CFR 63.14
ASTM E145	1994	American Society for Testing and Materials	Standard Specification for Gravity-Convection and Forced- Ventilation Ovens	40 CFR 63.4581
ASTM E154	1968	American Society for Testing and Materials	Materials for Use as Vapor Barriers Under Concrete Slabs and as Ground Cover in Crawl Spaces	24 CFR 200, Subpart S
ASTM E163	1963	American Society for Testing and Materials	Methods for Fire Tests of Window Assemblies	24 CFR 200, Subpart S
ASTM E168	1967	American Society for Testing and Materials	Standard Practices for General Techniques of Infrared Quantitative Analysis	40 CFR 60.485(d)(1)
ASTM E168	1988	American Society for Testing and Materials	Standard Practices for General Techniques of Infrared Quantitative Analysis	40 CFR 264.1063(d)(1)
ASTM E169	1987	American Society for Testing and Materials	Standard Practices for General Techniques of Ultraviolet-Visible Quantitative Analysis	40 CFR 264.1063(d)(1)
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ASTM E185	1982	American Society for Testing and Materials	Standard Practice for Conducting Surveillance Tests for Light-Water Cooled Nuclear Power Reactor Vessels	10 CFR 50 App. H, I
ASTM E258	1967	American Society for Testing and Materials	Standard Test Method for Total Nitrogen Inorganic Material by Modified Kjeldahl Method	40 CFR 761.71(b)(2)(vi)
ASTM E260	1996	American Society for Testing and Materials	Standard Practice for Packed Column Gas Chromatography	40 CFR 60.485(d)(1)
ASTM E283	1991	American Society for Testing and Materials	Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors	10 CFR 434.402.2
ASTM E298	1968	American Society for Testing and Materials	Standard Methods for Assay of Organic Peroxides	49 CFR 571.116 S6.11.3(a)
ASTM E408	1971	American Society for Testing and Materials	Standard Test Methods for Total Normal Emittance of Surfaces Using Inspection-Meter Techniques	16 CFR 460.5(b)
ASTM E424	1971	American Society for Testing and Materials	Test for Solar Energy Transmittance and Reflectance (Terrestrial) of Sheet Materials	24 CFR 200, Subpart S
ASTM E606	1980	American Society for Testing and Materials	Standard Recommended Practice for Constant- Amplitude Low-Cycle Fatigue Testing	24 CFR 200.946
ASTM E681	1985	American Society for Testing and Materials	Standard Test Method for Concentration Limits of Flammability of Chemicals	49 CFR 173.115(a)(2)
ASTM E695	1979	American Society for Testing and Materials	Standard Method of Measuring Relative Resistance of Wall, Floor and Roof Construction to Impact Loading	24 CFR 200.946(a)(1) (viii)
ASTM E711	1987	American Society for Testing and Materials	Standard Test Method for Gross Calorific Value of Refuse- Derived Fuel by the	40 CFR 63, Subpart DDDDD, Table 6

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				Bomb Calorimeter	
	ASTM E773	1997	American Society for Testing and Materials	Standard Test Method for Seal Durability of Sealed Insulating Glass Units	4 CFR 3280.403(d)(2)
	ASTM E774	1997	American Society for Testing and Materials	Standard Specifications for Sealed Insulating Glass Units	24 CFR 3280.403(d)(2)
	ASTM E775	1987	American Society for Testing and Materials	Standard Test Methods for Total Sulfur in the Analysis Sample of Refuse-Derived Fuel	40 CFR 49.123(e)
	ASTM E776	1987	American Society for Testing and Materials	Standard Test Method for Forms of Chlorine in Refuse-Derived Fuel	40 CFR 63, Subpart DDDDD, Table 6
	ASTM E885	1988	American Society for Testing and Materials	Standard Test Method for Analyses of Metals in Refuse-Derived Fuel by Atomic Absorption Spectroscopy	40 CFR 63, Subpart DDDDD, Table 6
	ASTM E1333	1996	American Society for Testing and Materials	Standard Test Method for Determining Formaldehyde Levels from Wood Products Under Defined Test Conditions Using a Large Chamber	24 CFR 3280.406(b)
	ASTM E1337	1990	American Society for Testing and Materials	Standard Test Method for Determining Longitudinal Peak Braking Coefficient of Paved Surfaces Using Standard Reference Test Tire	49 CFR 571.105 S6.9.2(a)
	ASTM E1590 (pdf) ASTM E1590 (html)	2001	American Society for Testing and Materials	Standard Test Method for Fire Testing of Mattresses	49 CFR 238 Appendix B(a)(1)(xi)
	ASTM E1625	1994	American Society for Testing and Materials	Standard Test Method for Determining Biodegradability of Organic Chemicals in Semi-Continuous Activated Sludge	40 CFR 799.5085
	ASTM E1719	1997	American Society for Testing and Materials	Standard Test Method for Vapor Pressure of Liquids by Ebulliometry	40 CFR 799.5085
	ASTM F462	1979	American Society for Testing and Materials	Slip-Resistant Bathing Facilities	24 CFR 200, Subpart S
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ASTM F476	1984	American Society for Testing and Materials	Standard Test Method for Security of Swinging Door Assemblies	24 CFR 200.949(a)(1)(ix)
ASTM F478	1992	American Society for Testing and Materials	Standard Specification for In-Service Care of Insulating Line Hose and Covers	29 CFR 1910.137(b)(2) (ix)
ASTM F631	1980	American Society for Testing and Materials	Standard Guide for Collecting Skimmer Performance Data in Controlled Environments	33 CFR 156.40
ASTM F631	1993	American Society for Testing and Materials	Standard Guide for Collecting Skimmer Performance Data in Controlled Environments	33 CFR 154 Appendix C
ASTM F682	1982	American Society for Testing and Materials	Standard Specification for Wrought Carbon Steel Sleeve-Type Pipe Couplings	46 CFR 56.01-2
ASTM F715	1981	American Society for Testing and Materials	Standard Test Methods for Coated Fabrics Used for Oil Spill Control and Storage	33 CFR 154.106
ASTM F715	1995	American Society for Testing and Materials	Standard Test Methods for Coated Fabrics Used for Oil Spill Control and Storage	33 CFR 155, Appendix B, 2.4
ASTM F722	1982	American Society for Testing and Materials	Standard Specification for Welded Joints for Shipboard Piping Systems	33 CFR 155.140
ASTM F808	1983	American Society for Testing and Materials	Guide for Collecting Skimmer Performance Data in Uncontrolled Environments	33 CFR 154, Appendix C
ASTM F808	1983	American Society for Testing and Materials	Guide for Collecting Skimmer Performance Data in Uncontrolled Environments	33 CFR 154, Appendix C, 6.3.1
ASTM F1003	1986	American Society for Testing and Materials	Standard Specification for Searchlights on Motor Lifeboats	46 CFR 199.175(a)(28)(i)
ASTM F1006	1986	American Society for Testing and Materials	Standard Specification for Entrainment Separators for Use in Marine Piping Applications	46 CFR 56.60-1(b)

ASTM F1007	1986	Public Safety Standard	is of the United States	46 CFR 56.60-1(b)
ASTM F1007	1980	American Society for Testing and Materials	for Pipe-Line Expansion Joints of the Packed Slip Type for Marine Application	40 CFR 30.00-1(b)
ASTM F1014	1992	American Society for Testing and Materials	Standard Specification for Flashlights on Vessels	46 CFR 35.30-20(c)(3)
ASTM F1020	1986	American Society for Testing and Materials	Standard Specification for Line-Blind Valves for Marine Applications	46 CFR 56.60-1(b)
ASTM F1120	1987	American Society for Testing and Materials	Standard Specification for Circular Metallic Bellows Type Expansion Joints for Piping Applications	46 CFR 56.60-1(b)
ASTM F1121	1987	American Society for Testing and Materials	Standard Specification for International Shore Connections for Marine Fire Applications	33 CFR 126.15(a)(5)
ASTM F1122	1987	American Society for Testing and Materials	Standard Specification for Quick Disconnect Couplings	33 CFR 154.500(d)(3)
ASTM F1123	1987	American Society for Testing and Materials	Standard Specification for Non-Metallic Expansion Joints	46 CFR 56.60-1(b)
ASTM F1139	1988	American Society for Testing and Materials	Standard Specification for Steam Traps and Drains	46 CFR 56.60-1(b)
ASTM F1155	1998	American Society for Testing and Materials	Standard Practice for Selection and Application of Piping System Materials	33 CFR 154
ASTM F1172	1988	American Society for Testing and Materials	Fuel Oil Meters of the Volumetric Positive Displacement Type	46 CFR 56.60-1(b)
ASTM F1173	1995	American Society for Testing and Materials	Standard Specification for Thermosetting Resin Fiberglass Pipe and Fittings to be Used for Marine Applications	46 CFR 56.60-1(b)
ASTM F1196	1994	American Society for Testing and Materials	Standard Specification for Sliding Watertight Door Assemblies	46 CFR 170.270(c)(1)
ASTM F1197	1989	American Society for Testing and Materials	Standard Specificatiion for Sliding Watertight Door Control Systems	46 CFR 174.100(e)(2)
ASTM F1199	1988	American Society for Testing and Materials	Cast (All Temperatures and Pressures) and Welded Pipe Line Strainers (150 psig and	46 CFR 56.60-1(b)
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			150 Degrees F Maximum)	
ASTM F1200	1988	American Society for Testing and Materials	Standard Specification for Fabricated (Welded) Pipe Line Strainers (Above 150 psig and 150°F)	46 CFR 56.60-1(b)
ASTM F1201	1988	American Society for Testing and Materials	Standard Specification for Fluid Conditioner Fittings in Piping Applications Above Zero Degrees F	46 CFR 56.60-1(b)
ASTM F1271	1990	American Society for Testing and Materials	Standard Specification for Spill Valves for Use in Marine Tank Liquid Overpressure Protection Applications	46 CFR 39.20-9(c)(1)
ASTM F1273	1991	American Society for Testing and Materials	Standard Specification for Tank Vent Flame Arresters	46 CFR 32.20-10
ASTM F1292	2004	American Society for Testing and Materials	Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment	36 CFR 1191, App B, 105.2.3
ASTM F1321	1992	American Society for Testing and Materials	Standard Guide for Conducting a Stability Test (Lightweight Survey and Inclining Experiment) to Determine Light Ship Displacement and Centers of Gravity of a Vessel	46 CFR 28.535(d)
ASTM F1323	1998	American Society for Testing and Materials	Standard Specification for Shipboard Incinerators	46 CFR 63.25-9
ASTM F1471	1993	American Society for Testing and Materials	Standard Test Method for Air Cleaning Performance of a High- Efficiency Particulate Air-Filter System	40 CFR 86.1310-2007(b) (1)(iv)(B)
ASTM F1546	1996	American Society for Testing and Materials	Standard Specification for Firehose Nozzles	46 CFR 162.027-3(a)
ASTM F1548	1994	American Society for Testing and Materials	Performance of Fittings for Use with Gasketed Mechanical Couplings Used in Piping Applications	46 CFR 56.30-35(a)
ASTM F1951	1999	American Society for	Standard Specification	36 CFR 1191, App B,

		Public Safety Standard	s of the United States	
		Testing and Materials	for Determination of Accessibility of Surface Systems Under and Around Playground Equipment	1008.2.6.1
ASTM F2412 (pdf) ASTM F2412 (html) ASTM F2412 (svg)	2005	American Society for Testing and Materials	Standard Test Methods for Foot Protection	29 CFR 1910
ASTM F2413 (pdf) ASTM F2413 (html)	2005	American Society for Testing and Materials	Performance Requirements for Protective Footware	29 CFR 1910
ASTM G21	1990	American Society for Testing and Materials	Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi	7 CFR 1755.910(d)(5)(i∨)
ASTM G23	1969	American Society for Testing and Materials	Standard Practice for Operating Light Exposure Apparatus (Carbon Arc Type) With and Without Water for Exposure of Nonmetallic Materials	49 CFR 571.209 S5.1(e)
ASTM G26	1970	American Society for Testing and Materials	Standard Recommended Practice for Light- and Water-Exposure Apparatus (Xenon-Arc Type) for Exposure of Non-metallic Materials	16 CFR 1201.4(b)(3)(ii)
ASTM G151	1997	American Society for Testing and Materials	Standard Practice for Exposing Nonmetallic Materials in Accelerated Test Devices that Use Laboratory Light Sources	49 CFR 571.106 S12.7(b)
ASTM G154	2000	American Society for Testing and Materials	Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials	49 CFR 571.106 S12.7(b)
ATAA 300	1996	Air Transport Association of America	Packaging of Airline Supplies, Revision 19	49 CFR 171.7
AWPA A1	1991	American Wood Preservers Association	Standard Methods for Analysis of Creosote and Oil-Type Preservatives	7 CFR 1728.201(i)(1)(i)
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			Public Safety Standard	s of the United States	
AWP	A A2	1991	American Wood Preservers Association	Standard Methods for Analysis of Waterborne Preservatives and Fire- Retardant Formulations	7 CFR 1728.201(i)(1)(iii) (A)
AWP;	A A3	1991	American Wood Preservers Association	Standard Methods for Determining Penetration of Preservatives and Fire Retardants	7 CFR 1728.201(k)(3)
AWP	A A5	1991	American Wood Preservers Association	Standard Methods for Analysis of Oil-Borne Preservatives	7 CFR 1728.202(g)(1)(v) (B)
AWP	А Аб	1989	American Wood Preservers Association	Method for the Determination of Oil- Type Preservatives and Water in Wood	7 CFR 1728.202(g)(1)(v) (A)
AWP	A A7	1975	American Wood Preservers Association	Standard Wet Ashing Procedure for Preparing Wood for Chemical Analysis	7 CFR 1728.202(g)(1)(v) (D)
AWP	A A9	1990	American Wood Preservers Association	Standard Method for Analysis of Treated Wood and Treating Solutions by X-ray Spectroscopy	7 CFR 1728.202(g)(1)(v) (C)
AWP	A A11	1983	American Wood Preservers Association	Standard Method for Analysis of Treated Wood and Treating Solutions by Atomic Absorption Spectroscopy	7 CFR 1728.201(i)(1)(iii) (B)
AWP	A M3	1981	American Wood Preservers Association	Standard Quality Control Procedures for Wood Preserving Plants	7 CFR 1728.202(f)(1)
AWP	A P1	1991	American Wood Preservers Association	Standard for Coal Tar Creosote for Land and Fresh Water and Marine (Coastal) Water Use	7 CFR 1728.201(i)(1)(i)
AWP	A P5	1991	American Wood Preservers Association	Standard for Waterborne Preservative	7 CFR 1728.201(i)(1)(iii) (A)
AWP.	A P8	1991	American Wood Preservers Association	Standard for Oil-Borne Preservatives	7 CFR 1728.201(i)(1)(iv)
AWP.	A P9	1991	American Wood Preservers Association	Standard for Solvents and Formulations for Organic Preservative Systems	7 CFR 1728.201(i)(1)(iv)
AWS	B3.0	1977	American Welding	Standard Qualification	49 CFR 178.356-2(e)

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[]		Society	Procedure	
AWS D1.1	2000	American Welding Society	Structural Welding Code–Steel	30 CFR 250.901(a)(20)
BHMA A156.10	1999	Builders Hardware Manufacturers Association	Power Operated Pedestrian Doors	36 CFR 1191, App B, 105.2.1
BHMA A156.19	2002	Builders Hardware Manufacturers Association	Power Assist and Low Energy Power Operated Doors	36 CFR 1191, App B, 408.3.2.1
BOCA	1993	Building Officials and Code Administrators International	Mechanical Code	24 CFR 200.925c(a)(1)(i)
BOCA	1993	Building Officials and Code Administrators International	Plumbing Code	24 CFR 200.925c(a)(1)(i)
BSI EN-13000 (pdf) BSI EN-13000 (html)	2004	British Standards Institute	Cranes–Safety–Mobile Cranes	29 CFR 1926
BSI EN-14439 (pdf) BSI EN-14439 (html)	2006	British Standards Institute	Cranes–Safety–Tower Cranes	29 CFR 1926
CEC Test Method	2004	Califomia Energy Commission	Calculating the Energy Efficiency of Single- Voltage External Ac- Dc and Ac-Ac Power Supplies	10 CFR 430 Subpart B
CABO	1992	Council of American Building Officials	One and Two Family Dwelling Code	24 CFR 200.926b(c)
CABO	1993	Council of American Building Officials	One and Two Family Dwelling Code with Errata Package and 1993 Amendments	24 CFR 200.926(d)(1)(ii) ((B)(2)(ii)
CFTA	1977	Cosmetic, Toiletry, and Fragrance Association	Cosmetic Ingredient Dictionary	21 CFR 701.3(c)(2)(i)
CGA C-5	1991	Compressed Gas Association	Cylinder Service Life- Seamless Steel High Pressure Cylinders	49 CFR 173.302a(b)(3)(i) (A)
CGA C-8	1985	Compressed Gas Association	Standard for Requalification of DOT- 3HT Cylinders	49 CFR 180.205(f)(1)
CGA C-11	2001	Compressed Gas Association	Recommended Practice for Inspection of Compressed Gas Cylinders at Time of Manufacture	49 CFR 178.35(g)
CGA C-12	1994	Compressed Gas Association	Qualification Procedure for Acetylene Cylinder	49 CFR 173.303(a)

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CGA C-13	2000	Compressed Gas Association	Guidelines for Periodic Visual Inspection and Requalification of Acetylene Cylinders	49 CFR 173.303(e)
CGA G-1	2009	Compressed Gas Association	Acetylene	29 CFR 1910.102(a)
CGA G-2.2	1985	Compressed Gas Association	Guideline Method for Determining Minimum of 0.2% Water in Anhydrous Ammonia	49 CFR 173.315(l)(5)
CGA G-4.1	1985	Compressed Gas Association	Cleaning Equipment for Oxygen Service	49 CFR 178.338-15
CGA P-1	1965	Compressed Gas Association	Safe Handling of Compressed Gases	29 CFR 1910.101(b)
CGA P-20	2003	Compressed Gas Association	Standard for the Classification of Toxic Gas Mixtures	49 CFR 173.115
CGA S-1.1	2005	Compressed Gas Association	Pressure Relief Device Standards	49 CFR 173.301(c)
CGA S-1.2	1980	Compressed Gas Association	Safety Release Device Standard–Cargo and Portable Tanks for Compressed Gases	49 CFR 178.277(e)(4)(iv)
CGA S-7 (pdf) CGA S-7 (html)	2005	Compressed Gas Association	Method for Selecting Pressure Relief Devices for Compressed Gas Mixtures in Cylinders	49 CFR 173.301(c)
CGA TB-2	1980	Compressed Gas Association	Guidelines for Inspection and Repair of MC-330 and MC-331 Cargo Tanks	49 CFR 180.407(g)(3)
CGA TB-25	2008	Compressed Gas Association	Design Considerations for Tube Trailers	49 CFR 173.301
CGSB 43.147	2005	Canadian General Standards Board	Construction, Modification, Qualification, Maintenance, and Selection and Use of Means of Containment for the Handling, Offering for Transport, or Transportation of Dangerous Goods by Rail	49 CFR 171.12
CGSB 43.147	2005	Office des Normes Generales du Canada	Construction, Modification, Qualification, Entretien, Selection Et Utilisation	49 CFR 171.12

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			Public Safety Standards	s of the United States	
				Des Contenants Pour La Manutention, La Demande De Transport Ou La Transport Des Marchandises Dangereuses Par Chemin De Fer	
	CI 57	2009	Chlorine Institute	Emergency Shut-Off Systems for Bulk Transfer of Chlorine	49 CFR 177.840(u)
	CI 101-7	1993	Chlorine Institute	Excess Flow Valve with Removable Seat	49 CFR 178.276(c)(7)(i)
	CI 104-9	2002	Chlorine Institute	Standard Chlorine Angle Valve Assembly	49 CFR 178.337-9(b)(8)
	CI 106-6	1993	Chlorine Institute	Excess Flow Valve with Removable Baskets	49 CFR 178.276(c)(7)(ii)
	CI 166	2002	Chlorine Institute	Angle Valve Guidelines for Chlorine Bulk Transportation	49 CFR 178.337-9(b)(8)
	CI H50155	1996	Chlorine Institute	Pressure Relief Device for Chlorine Service	49 CFR 173.315(i)(13)
	CI H51970	1996	Chlorine Institute	Safety Valve for Chlorine Service	49 CFR 173.315(i)(13)
	CI	2009	Chlorine Institute	Chlorine Institute Emergency Kit A for 100-lb. and 150-lb. Chlorine Cylinders	49 CFR 173.3(e)(1)
	CI	2009	Chlorine Institute	Chlorine Institute Emergency Kit B for Chlorine Ton Containers	49 CFR 173.3(e)(1)
	CIE 15	2004	International Commission on Illumination	Technical Report: Colorimetry, 3rd edition	10 CFR 430 Subpart B, App. R, 4.1.1
	CIE 15A (xls)	2004	International Commission on Illumination	Supplementary Spectra	10 CFR 430 Subpart B, App. R, 4.1.1
	CIE 15B (xls)	2004	International Commission on Illumination	Supplementary Tables	10 CFR 430 Subpart B, App. R, 4.1.1
	CRA A-20	1986	Com Refiners Association	Analysis for Starch in Com	7 CFR 801.7(a)(2)
	CSA C390	1993	Canadian Standards Association	Energy Efficiency Test Methods for Three- Phase Induction Motors	10 CFR 431.19(b)(4)
	СПОА R8-103-62	1969	Ceramic Tile Institute of America	Standard Specifications for the	24 CFR 200, Subpart S
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		Public Safety Standard		
			Installation of Tile Lined Shower Receptors	
CSVA	2004	Commercial Vehicle Safety Alliance	North American Standard Out-of- Service Criteria and Level VI Inspection Procedures and Out-of- Service Criteria for Commercial Highway Vehicles	49 CFR 385.415(b)(1)
EI IP-501	2005	Energy Institute	Determination of aluminum, silicon, vanadium, nickel, iron, sodium, calcium, zinc and phosphorus in residual fuel oil	40 CFR 1065.705 Table 1
FGMA	1990	Flat Glass Marketing Association	Glazing Manual	24 CFR 200, Subpart S
GLI METHOD 2	2009	Great Lakes Instruments	Turbidity	40 CFR 141.74(a)(1)
GPA 2261	2000	Gas Producers Association	Analysis of Natural Gas and Similar Gaseous Mixtures by Gas Chromatography	40 CFR 75, Appendix F Section 5.5.2
GPA 2261	2000	Gas Processors Association	Analysis of Natural Gas and Similar Gaseous Mixtures by Gas Chromatography	40 CFR 75, Appendix F
GPA 2377	1986	Gas Processors Association	Test for Hydrogen Sulfide and Carbon Dioxide in Natural Gas Using Length of Stain Tubes	40 CFR 60.334(h)(1)
GRI 02-0057	2002	Gas Research Institute	Internal Corrosion Direct Assessment of Gas Transmission Pipelines Methodology	49 CFR 192.927(c)(2)
HACH 8000	2007	Hach Chemical Company	Oxygen Demand, Chemical Using Reactor Digestion Method	40 CFR 136.3(a)
HACH 8008	2007	Hach Chemical Company	1, 10Phenanthroline Method Using FerroVer Iron Reagent for Water	40 CFR 136.3(a)
HACH 8009	2007	Hach Chemical Company	Zincon Method for Zinc, Hatch Handbook of Water Analysis	40 CFR 444.12(b)(1)
HACH 8034	2007	Hach Chemical Company	Periodate Oxidation Method for Manganese	40 CFR 136.3(a)
HACH 8507	2007	Hach Chemical	Nitrogen Nitrite-Low	40 CFR 136.3(a)

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		Company	Range, Diazotization Method for Water and Wastewater	
HI BTS-2000	2007	Hydronics Institute	Method to Determine Efficiency of Commercial Space Heating Boilers	10 CFR 431.86
HPMA HP-SG-96	1996	Hardwood Plywood Manufacturers Association	Structural Design Guide for Hardwood Plywood Wall Panels	24 CFR 3280.304(b)(1)
IAPMO PS-2	1989	International Association of Plumbing and Mechanical Officials	Material and Property Standard for Cast Brass and Tubing P- Traps	24 CFR 3280.604(b)(2)
IAPMO PS-5	1984	International Association of Plumbing and Mechanical Officials	Material and Property Standard for Special Cast Iron Fittings	24 CFR 3280.604(b)(2)
IAPMO PS-9	1984	International Association of Plumbing and Mechanical Officials	Material and Property Standard for Diversion Tees and Twin Waste Elbow	24 CFR 3280.604(b)(2)
IAPMO PS-14	1989	International Association of Plumbing and Mechanical Officials	Material and Property Standard for Flexible Metallic Water Connectors	24 CFR 3280.604(b)(2)
IAPMO PS-23	1989	International Association of Plumbing and Mechanical Officials	Material and Property Standard for Dishwasher Drain Airgaps	24 CFR 3280.604(b)(2)
IAPMO PS-31	1977	International Association of Plumbing and Mechanical Officials	Material and Property Standard for Backflow Prevention Devices	24 CFR 3280.604(b)(2)
ICAO 9284	2011	International Civil Aviation Organization	Technical Instructions for the Safe Transport of Dangerous Goods by Air	49 CFR 171.7
ICAO Annex 2	1990	International Civil Aviation Organization	Convention on International Civil Aviation, Rules of the Air	14 CFR 135.3(a)(2)
ICAO Annex 16	2008	International Civil Aviation Organization	Environmental Protection, Volume II – Aircraft Engine Emissions	40 CFR 87.89
ICBO	1991	International Conference of Building Officials	Uniform Building Code (1991)	24 CFR 200.925c(a)(1) (iii)
ICBO	1991	International	Uniform Mechanical	24 CFR 200.925c(c)(3)

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			Conference of Building Officials	Code (1991)	
	ICEA S-87-640	2006	Insulated Cable Engineers Association	Standard for Optical Fiber Outside Plant Communications Cable	7 CFR 901(c)
	ICEA S-110-717	2003	Insulated Cable Engineers Association	Standard for Optical Drop Cable	7 CFR 901(c)
	ICS	1973	International Chamber of Shipping	Clean Seas Guide for Oil Tankers	33 CFR 157.23(b)
100 100 100 100 100 100 100 100 100 100	EEE 45	2002	Institute of Electrical and Electronics Engineers	Recommended Practice for Electrical Installations on Shipboard	46 CFR 110.10-1
	IEEE 112	2004	Institute of Electrical and Electronics Engineers	Test Procedure for Polyphase Induction Motors and Generators	10 CFR 431.15
	IEEE 114	2010	Institute of Electrical and Electronics Engineers	IEEE Standard Test Procedure for Single- Phase Induction Motors	10 CFR 431
	IEEE 1202 (pdf) IEEE 1202 (html)	1991	Institute of Electrical and Electronics Engineers	Standard for Flame Testing of Cables	46 CFR 111
	IEEE C2	1997	Institute of Electrical and Electronics Engineers	National Electrical Safety Code	7 CFR 1755.503(d)(1)
	IEEE C2	2007	Institute of Electrical and Electronics Engineers	National Electrical Safety Code (2007)	7 CFR 1755.901(b)
	IEEE C37.14	2002	Institute of Electrical and Electronics Engineers	Standard for Low- Voltage AC Power Circuit Breakers Used in Enclosures	46 CFR 110.10-1
	IEEE P730.1	1989	Institute of Electrical and Electronics Engineers	Standard for Software Quality Assurance Plans	7 CFR 1755.522(n)(2)
	IESNA LM-45	2000	Illuminating Engineering Society of North America	Method for Electrical and Photometric Measurements of General Service Incandescent Filament Lamps	10 CFR 430 Subpart B
	IME 22	2011	Institute of Makers of Explosives	Recommendations for the Safe Transportation of Detonators in a Vehicle with Certain Other Explosive Materials	30 CFR 57.6133(b)
	IME	1940	Institute of Makers of	Safety in the Handling	29 CFR 1910.261(a)(4)
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		Public Safety Standard	s of the United States	
		Explosives	and Use of Explosives	(iii)
IMO IMDG.1	2006	International Maritime Organization	International Maritime Dangerous Goods Code (Volume 1)	49 CFR 172.519(f)
IMO IMDG.2	2006	International Maritime Organization	International Maritime Dangerous Goods Code (Volume 2)	49 CFR 172.519(f)
IMO ISPS	2003	International Maritime Organization	International Ship and Port Facility Security Code	33 CFR 101.410(a)
AG ENG	1965	Interstate Printers and Publishers, Inc.	Agriculture Engineering	29 CFR 570.71(b)
ISO 535	1991	International Organization for Standardization	Paper and Board– Determination of Water AbsorptivenessCobb Method	49 CFR 178.516(b)(1)
ISO 1496-1	1990	International Organization for Standardization	Series 1 Freight Containers– Specification and Testing–Part 1, General Cargo Containers	49 CFR 173.411(b)(6)(iii)
ISO 1496-3	1995	International Organization for Standardization	Series 1 Freight Containers– Specification and Testing–Part 3, Tank containers for Liquids, Gases and Pressurized Dry Bulk	49 CFR 178.74(c)(5)(ii)
ISO 3807-2	2000	International Organization for Standardization	Cylinders for acetylene–Basic requirements–Part 2: Cylinders with fusible plugs	49 CFR 173.303(f)(1)
ISO 6406 (pdf) ISO 6406 (html)	2005	International Organization for Standardization	Seamless Steel Gas CylindersInspection and Testing	49 CFR 180
ISO 7225	2005	International Organization for Standardization	Gas Cylinders– Precautionary Labels	49 CFR 178.71(r)(2)
ISO 7866	1999	International Organization for Standardization	Gas Cylinders– Refillable Seamless Aluminum Alloy Gas CylindersDesign, Construction and Testing	49 CFR 178.71(h)
ISO 8115	1986	International Organization for Standardization	Cotton bales— Dimensions and density	49 CFR 171.7
ISO 9809-1	1999	International	Gas Cylinders	49 CFR 178.71(g)(1)

		Public Safety Standard		
		Organization for Standardization	Refillable Seamless Steel Gas Cylinders Design, Construction and TestingPart 1: Quenched and Tempered Steel Cylinders with Tensile Strength less than 1 100 MPa	
ISO 9809-2	2000	International Organization for Standardization	Gas Cylinders- Refillable Seamless Steel Gas Cylinders Design, Construction and TestingPart 2: Quenched and Tempered Steel Cylinders with Tensile Strength Greater than or Equal to 1 100 MPa	49 CFR 178.71(g)(2)
ISO 9809-3	2000	International Organization for Standardization	Gas Cylinders– Refillable Seamless Steel Gas Cylinders Design, Construction and TestingPart 3: Normalized Steel Cylinders	49 CFR 178.71(g)(3)
ISO 9978	1992	International Organization for Standardization	Sealed Radioactive Sources–Leak Test Methods	49 CFR 173.469(a)(4)(ii)
ISO 10297	1999	International Organization for Standardization	Gas cylinders– Refillable gas cylinder valves–Specification and type testing	49 CFR 173.301b(c)(1)
ISO 10461 (pdf) ISO 10461 (html)	2005	International Organization for Standardization	Seamless Aluminum Alloy Gas Cylinders– Inspection and Testing	49 CFR 180
ISO 10462 (pdf) ISO 10462 (html)	2005	International Organization for Standardization	Transportable Cylinders for Dissolved Acetylene	49 CFR 180
ISO 11114-1	1997	International Organization for Standardization	Transportable gas cylinders—Compatibility of cylinder and valve materials with gas contents—Part 1: Metallic materials	49 CFR 173.301b(a)(2)
ISO 11114-2	2000	International Organization for Standardization	Transportable gas cylinders— Compatibility of cylinder and valve materials with gas contents—Part 2: Non- metallic materials	49 CFR 173.301b(a)(2)

			Public Safety Standards	s of the United States	
IS	0 11117	1998	International Organization for Standardization	Gas cylindersValve protection caps and valve guards for industrial and medical gas cylinders-Design, construction and tests	49 CFR 173.301b(c)(2) (ii)
IS	O 11118	1999	International Organization for Standardization	Gas cylinders–Non- refillable metallic gas cylindersSpecification and test methods	49 CFR 178.71(i)
15	0 11119-1	2002	International Organization for Standardization	Gas cylinders–Gas cylinders of composite construction– Specification and test methods–Part 1: Hoop- wrapped composite gas cylinders	49 CFR 171.7
IS	0 11119-2	2002	International Organization for Standardization	Gas cylinders—Gas cylinders of composite construction— Specification and test methods—Part 2: Fully wrapped fibre reinforced composite gas cylinders with load-sharing metal liners	49 CFR 171.7
IS	O 11119-3	2002	International Organization for Standardization	Gas cylinders of composite construction— Specification and test methods—Part 3: Fully wrapped fibre reinforced composite gas cylinders with non- load-sharing metallic or non-metallic liners	49 CFR 171.7
IS	O 11120	1999	International Organization for Standardization	Gas cylinders– Refillable seamless steel tubes of water capacity between 150 L and 3000 L–Design, construction and testing	49 CFR 178.71(j)
15	O 11621	1997	International Organization for Standardization	Gas cylinders Procedures for change of gas service	49 CFR 173.301b(a)(2)
	O 11623 (pdf) O 11623 (html)	2002	International Organization for Standardization	Periodic Inspection and Testing of Composite Gas Cylinders	49 CFR 180
	O 11660-1 (pdf) O 11660-1	2008	International Organization for	Cranes: Access, Guards and Restraints:	29 CFR 1926

		Public Safety Standard	ds of the United States	
(html)		Standardization	General	
ISO 11660-2 ISO 11660-2 (html)		International Organization for Standardization	Cranes: Access, Guards and Restraints: Mobile Cranes	29 CFR 1926
ISO 11660-3 ISO 11660-3 (html)		International Organization for Standardization	Cranes: Access, Guards and Restraints: Tower Cranes	29 CFR 1926
ISO 14230-4	2000	International Organization for Standardization	Road Vehicles– Diagnostic Systems	40 CFR 1048.110(g)(2)
ISO 18902 (r ISO 18902 (r		International Organization for Standardization	Photographic Processed Films, Plates, and Papers	36 CFR 1237
ISO 18906 (p ISO 18906 (h		International Organization for Standardization	Photographic Films– Specifications for Safety Film	36 CFR 1237
ITU-R M-493	-11 2004	International Telecommunication Union	Digital Selective-calling System for Use in the Maritime Mobile Service, with Annexes 1 and 2	47 CFR 80.1101(c)(2)(ii)
ITU-R M-541	-8 1997	International Telecommunication Union	Operational Procedures for the Use of Digital Selective- Calling Equipment in the Maritime Mobile Service	47 CFR 80.1101(c)(4)(iii)
ITU-R M-541	-9 2004	Intemational Telecommunication Union	Operational Procedures for the Use of Digital Selective- Calling Equipment in the Maritime Mobile Service	47 CFR 80.1101(c)(2)(iii)
ITU-R M-628	-3 1994	International Telecommunication Union	Technical Characteristics for Search and Rescue Radar Transponders	47 CFR 80.1101(c)(6)(ii)
ITU-R M-632	-3 1997	International Telecommunication Union	Transmission Characteristics of a Satellite Emergency Position Indicating Radio Beacon	47 CFR 80.1101(c)(11) (iii)
ITU-R M-633	-3 2004	International Telecommunication Union	Transmission characteristics of a satellite emergency position-indicating radiobeacon system operating through a low polar-orbiting satellite system	47 CFR 80.1101(c)(5)(iii)
ITU-R M-137	1-1 2001	International	Technical	47 CFR 80.1101(c)(12)(i)
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		Public Safety Standard	s of the United States	
		Telecommunication Union	Characteristics for a Universal Shipborne Automatic Identification System Using Time Division Multiple Access	
ITU-T E.161	2001	International Telecommunication Union	Arrangement of Digits, Letters and Symbols on Telephones and Other Devices that Can Be Used for Gaining Access to a Telephone Network	47 CFR 80.1101(b)(2)
ITU-T E.164.1	2008	International Telecommunication Union	Numbering Plan of the International Telephone Service	47 CFR 80.1101(b)(3)
LACHAT 10-204	2008	Lachat Instruments	Digestion and Distillation of Total Cyanide in Drinking and Wastewaters	40 CFR 136.3(a) Table IB
STEAM	1917	Commonwealth of Massachusetts	District Police Steam Boiler Rules	
MSS SP-44	1996	Manufacturers Standardization Society	Steel Pipe Line Flanges	46 CFR 56.01-2
MSS SP-75	2004	Manufacturers Standardization Society	Specification for High- Test Wrought Butt Welding Fittings	49 CFR 118(a)
NACE RP-0502	2002	National Association of Corrosion Engineers	Pipeline External Corrosion Direct Assessment Methodology	49 CFR 192.925(b)(3)
NACM	2003	National Association of Chain Manufacturers	Welded Steel Chain Specifications	49 CFR 393.104(e)(2)
NAS	1972	National Academy of Sciences	Food Chemicals Codex (1972)	21 CFR 701.3(c)(2)(iv)
NAS	1996	National Academy of Sciences	Food Chemicals Codex (1996)	21 CFR 184
NAS	2011	National Academy of Sciences	Prudent Practices in the Laboratory: Handling and Disposal of Chemicals	42 CFR 52b.12(c)(6)
NCASI 98-01	1998	National Council of the Paper Industry for Air and Stream Improvements	Chilled Impinger Method For Use At Wood Products Mills to Measure Formaldehyde, Methanol, and Phenol	40 CFR 63, Subpart DDDD
NCASII 94-03	2002	National Council of the Paper Industry for Air	Methanol in Process Liquids by Gas	40 CFR 63.457(c)(3)(ii)

	P.	Public Safety Standard		
		and Stream Improvements	Chromatography/Flame Ionization Detection	
NCASI A105	2001	National Council of the Paper Industry for Air and Stream Improvements	Impinger Source Sampling Method for Selected Aldehydes, Ketones, and Polar Compounds	40 CFR 63, Subpart DDDD
NCASI 99-02	2002	National Council of the Paper Industry for Air and Stream Improvements	Impinger/Canister Source Sampling Method For Selected HAPs and Other Compounds at Wood Products Facilities	40 CFR 63, Subpart DDDD
NCCA	2011	National Cotton Council of America	Specifications for Cotton Bale Packaging Material	7 CFR 1427.5(b)(10)
UCC	2002	National Conference of Commissioners on Uniform State Laws	2002 Official Text and Comments, Sections 8–102 and 8-103	17 CFR 270.17f-4(c)(1)
UCC	2002	National Conference of Commissioners on Uniform State Laws	2002 Official Text and Comments, Sections 8–501 through 8–511	17 CFR 270.17f-4(c)(1)
NCUTLO	1969	National Committee on Uniform Traffic Laws and Ordinances	Uniform Vehicle Code and Model Ordinance	41 CFR 50-204.75
NFPA 10 (pdf) NFPA 10 (html) NFPA 10 (svg)	2002	National Fire Protection Association	Standard for Portable Fire Extinguishers	29 CFR 1915
NFPA 11 (pdf) NFPA 11 (html)	2005	National Fire Protection Association	Standard for Foam	29 CFR 1915
NFPA 12 (pdf) NFPA 12 (html)	2005	National Fire Protection Association	Standard for Carbon Dioxide Extinguishing Systems	29 CFR 1915
NFPA 13	2002	National Fire Protection Association	Standard for the Installation of Sprinkler Systems	36 CFR 1234.12(i)
NFPA 25 (pdf) NFPA 25 (html)	2002	National Fire Protection Association	Standard for Water- Based Fire Protection Systems	29 CFR 1915
NFPA 30 (pdf) NFPA 30 (html)	2003	National Fire Protection Association	Flammable and Combustible Liquids Code	49 CFR 192
NFPA 54 (pdf) NFPA 54 (html) NFPA 54 (svg)	2002	National Fire Protection Association	National Fuel and Gas Code	24 CFR 3280
NFPA 58 (pdf) NFPA 58 (html)	2001	National Fire Protection Association	Standard for Liquefied Petroleum Gases	49 CFR 173
NFPA 58	2004	National Fire Protection	Standard for the	49 CFR 192.11(b)

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		Public Safety Standards	s of the United States	
		Association	Storage and Handling of Liquefied Petroleum Gases	
NFPA 59	2004	National Fire Protection Association	Standard for the Storage and Handling of Liquefied Petroleum Gases at Utility Gas Plants	49 CFR 192.11(b)
NFPA 72 (pdf) NFPA 72 (html) NFPA 72 (svg)	2002	National Fire Protection Association	National Fire Alarm Code	29 CFR 1915
NFPA 99	2005	National Fire Protection Association	Standard for Health Care Facilities	38 CFR 51.200(b)(4)
NFPA 101 (pdf) NFPA 101 (html)	2000	National Fire Protection Association	Life Safety Code	59 CFR 130
NFPA 704	2007	National Fire Protection Association	Standard System for the Identification of the Hazards of Materials for Emergency Response	6 CFR 27.204(a)(2)
NFPA DUST	1957	National Fire Protection Association	Report of Important Dust Explosions	
NFPA HOST	1953	National Fire Protection Association	Handling Hose and Ladders	
NFPA 70	2005	National Fire Protection Association	National Electrical Code	49 CFR 192.189(c)
NACHA	2005	National Automated Clearing House Association	A Complete Guide to the Rules Governing the ACH Network	45 CFR 162.920
ISS-MCB	2011	International Space Station Multilateral Coordination Board	International Docking Standard	1 Code of Intergalactic Regulations 32
NCRP 33	1968	National Council on Radiation Protection and Measurement	Medical X-ray and Gamma-Ray Protection for Energies Up to 10 MeV– Equipment Design and Use	42 CFR 37.43
NCRP 48	1976	National Council on Radiation Protection and Measurement	Medical Radiation Protection for Medical and Allied Health Personnel	42 CFR 37.43
NCRP 49	1976	National Council on Radiation Protection and Measurement	Structural Shielding Design and Evaluation for Medical Use of X- Rays and Gamma- Rays up to 10 MeV	42 CFR 37.43
NEMA MG-1	2009	National Electrical Manufacturers Association	Motors and Generators	10 CFR 431

	1 0004		Is of the United States	
NSF 61 (pdf) NSF 61 (html)	2001	National Sanitation Foundation	Drinking Water System Components-Health Effects	24 CFR 3280
OECD 404	2002	Organization for Economic Cooperation and Development	Guideline for Testing of Chemicals, Acute Dermal Irritation/Corrosion	49 CFR 173.137
OECD C93	1974	Organization for Economic Cooperation and Development	Green List of Wastes	40 CFR 262.89(e)
OR REG	1975	State of Oregon	Oregon Grade Standards Hazelnuts in Shell	7 CFR 982.45(a)
ORION	1970	ORION Research Incorporated	Residual Chlorine Electrode Model 97-70	40 CFR 136.3(a) Table IB
PCI MNL-121	1977	Precast/Prestressed Concrete Institute	Manual for Structural Design of Architectural Precast Concrete	24 CFR 200, Subpart S
PCI MNL-117-77	1977	Precast/Prestressed Concrete Institute	Manual for Quality Control for Plants and Production of Architectural Precast Concrete Products	24 CFR 200, Subpart S
PCSA 1	1968	Power Crane and Shovel Association	Mobile Crane and Excavator Standards	29 CFR 1926.602(b)(3)
PCSA 2	1968	Power Crane and Shovel Association	Mobile Hydraulic Crane Standards	29 CFR 1926.602(b)(3)
PCSA 3	1969	Power Crane and Shovel Association	Mobile Hydraulic Excavator Standards	29 CFR 1926.602(b)(3)
PPI TR-3	2004	Plastics Pipe Institute	Policies and Procedures for Developing Hydrostatic Design Bases (HDB), Pressure Design Bases (PDB), and Minimum Required Thermoplastic Piping Materials	49 CFR 192.121
RTCM C071	1995	Radio Technical Commission for Maritime Services	Recommended Standards for Marine Radar Equipment Installed on Ships of Less Than 300 Tons Gross Tonnage	33 CFR 164.72(a)(1)(i) (B)
RTCM C191	1993	Radio Technical Commission for Maritime Services	Recommended Standards for Marine Radar Equipment Installed on Ships of 300 Tons Gross Tonnage and Upwards	33 CFR 164.72(a)(1)(iii) (B)

		Public Safety Standard	s of the United States	
SAE Paper 770141	1977	Society of Automotive Engineers	Optimization of a Flame Ionization Detector for Determination of Hydrocarbon in Diluted Automotive Exhausts	40 CFR 1065.360(c)
SAE J4C	1965	Society of Automotive Engineers	Motor Vehicle Seat Belt Assembly	29 CFR 1928.51(b)(2)(ii)
SAE J30	1998	Society of Automotive Engineers	Fuel and Oil Hoses	40 CFR 1051.501(c)(2)
SAE J166	1971	Society for Automotive Engineering	Minimum Performance Criteria for Brake Systems for Off- Highway Trucks and Wagons	29 CFR 1926.602(a)(4)
SAE J166	1971	Society of Automotive Engineers	Minimum Performance Criteria for Brake Systems for Off- Highway Trucks and Wagons	29 CFR 1926.602(a)(4)
SAE J167	1970	Society for Automotive Engineering	Protective Frame with Overhead Protection	29 CFR 1926.1003(g)
SAE J167	1974	Society of Automotive Engineers	Protective Frame with Overhead Protection	30 CFR 77.403-1(d)(1)(v)
SAE J168	1970	Society for Automotive Engineering	Protective Enclosures– Test Procedures and Performance Requirements	29 CFR 1926.1002(a)(5) (i)
SAE J185	1988	Society of Automotive Engineers	Recommended Practice for Access Systems for Off-Road Machines	29 CFR 1910.266(f)(5)(i)
SAE J186A	1977	Society of Automotive Engineers	Supplemental High Mounted Stop and Rear Turn Signal Lamps	49 CFR 571.108
SAE J211-1 (pdf) SAE J211-1 (html)	1995	Society of Automotive Engineers	Instrumentation for Impact Test	49 CFR 571
SAE J211	1971	Society of Automotive Engineers	Instrumentation for Impact Tests	49 CFR 571.222 S6.6.2
SAE J222	1970	Society of Automotive Engineers	Parking Lamps (Position Lamps)	49 CFR 571.108 S5.1.1.6
SAE J231	1971	Society for Automotive Engineering	Minimum Performance Criteria for Falling Object Protective Structures (FOPS)	30 CFR 77.403(a)
SAE J231	1971	Society of Automotive Engineers	Minimum Performance Criteria for Falling Object Protective	30 CFR 77.403(a)

		Public Safety Standard	ds of the United States	
			Structures (FOPS)	
SAE J231	1981	Society of Automotive Engineers	Minimum Performance Criteria for Falling Object Protective Structures (FOPS)	29 CFR 1910.266(f)(3)(iii)
SAE J236	1971	Society for Automotive Engineering	Minimum Performance Criteria for Brake Systems for Rubber Tire Self-Propelled Graders	29 CFR 1926.602(a)(4)
SAE J237	1971	Society for Automotive Engineering	Minimum Performance Criteria for Brake Systems for Off- Highway Rubber-Tired Front End Loaders and Dozers	29 CFR 1926.602(a)(4)
SAE J244	1983	Society for Automotive Engineering	Recommend Practice for Measurement of Intake Air or Exhaust Gas Flow of Diesel Engines	40 CFR 92.108(a)(3)
SAE J319	1971	Society of Automotive Engineers	Minimum Performance Criteria for Brake Systems for Off- Highway Rubber-Tired Self-Propelled Scrapers	29 CFR 1926.602(a)(4)
SAE J320	1972	Society for Automotive Engineering	Minimum Performance Criteria for Roll-Over Protective Structures for Rubber-Tired Self- Propelled Scrapers	29 CFR 1926.1001(h)
SAE J320A	1969	Society of Automotive Engineers	Minimum Performance Criteria for Roll-Over Protective Structures for Rubber-Tired Self- Propelled Scrapers	30 CFR 77.403-1(d)(1)(i)
SAE J321	1970	Society of Automotive Engineers	Fenders for Pneumatic- Tired Earthmoving Haulage Equipment	29 CFR 1926.602(a)(5)
SAE J333	1970	Society for Automotive Engineering	Operation Protection for Wheel-Type Agricultural and Industry Tractors	29 CFR 1926.602(a)(2)
SAE J334	1968	Society of Automotive Engineers	Protective Frame Test Procedures and Performance Requirements	30 CFR 77.403-1(d)(1)(vi)
SAE J334	1970	Society for Automotive Engineering	Protective Frame Test Procedures and Performance	30 CFR 77.403-1(d)(1)(vi)

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SAE J386	1000	Oppietus of Austainantium		20 CED 1026 602(a)(2)
SAE 1380	1969	Society of Automotive Engineers	Operator Restraint Systems for Off-Road Work Machines	29 CFR 1926.602(a)(2)
SAE J386	1985	Society for Automotive Engineering	Operator Restraint Systems for Off-Road Work Machines	30 CFR 56.14130(h)
SAE J386	1993	Society of Automotive Engineers	Operator Restraint Systems for Off-Road Work Machines	30 CFR 56.14130(h)
SAE J386	1997	Society of Automotive Engineers	Operator Restraint Systems for Off-Road Work Machines	30 CFR 57.14131(c)
SAE J387 (pdf) SAE J387 (html)	1987	Society of Automotive Engineers	Terminology: Motor Vehicle Lighting	49 CFR 571
SAE J394	1969	Society of Automotive Engineers	Minimum Performance Criteria for Roll-Over Protective Structures for Rubber-Tired Front End Loaders and Rubber-Tired Dozers	30 CFR 77.403-1(d)(1)(ii)
SAE J394	1972	Society of Automotive Engineers	Minimum Performance Criteria for Rollover Protective Structures for Wheeled Front-End Loaders and Wheeled Dozers	30 CFR 77.403-1(d)(1)(ii)
SAE J395	1969	Society of Automotive Engineers	Minimum Performance Criteria for Roll-Over Protective Structures for Crawler Tractors and Crawler-Type Loaders	30 CFR 77.403-1(d)(1) (iii)
SAE J396	1972	Society for Automotive Engineering	Minimum Performance Criteria for Roll-Over Protective Structures for Motor Graders	30 CFR 77.403-1(d)(1)(iv)
SAE J397	1969	Society of Automotive Engineers	Deflection Limiting Volume-Protective Structures Laboratory Evaluation	29 CFR 1926.1001(f)(1) (ii)
SAE J397	1988	Society of Automotive Engineers	Deflection Limiting Volume-Protective Structures Laboratory Evaluation	29 CFR 1910.266(f)(3)(iv)
SAE J429	1971	Society for Automotive Engineering	Mechanical and Quality Requirements for Extemally Threaded Fasteners	30 CFR 77.403-1(d)(2) (iii)(B)
SAE J429	1983	Society of Automotive	Mechanical and	46 CFR 58.30-15(c)

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	1	Engineers	Quality Requirements	
			for Externally Threaded Fasteners	
SAE J429D	1967	Society of Automotive Engineers	Mechanical and Quality Requirements for Externally Threaded Fasteners	30 CFR 77.403-1(d)(2) (iii)(B)
SAE J449a	1963	Society of Automotive Engineers	Surface Texture Control	49 CFR 581.6(b)(1)
SAE J476a	1961	Society of Automotive Engineers	Dryseal Pipe Threads	49 CFR 393.67(c)(3)
SAE J527	1967	Society of Automotive Engineers	Brazed Double Wall Low Carbon Steel Tubing	49 CFR 571.116 S6.13.3(b)
SAE J533	1972	Society of Automotive Engineers	Flares for Tubing	24 CFR 3280.703
SAE J557	1968	Society of Automotive Engineers	High Tension Ignition Cable	33 CFR 183.440(a)
SAE J565	1969	Society of Automotive Engineers	Semi-Automatic Headlamp Beam Switching Devices	49 CFR 571.108 S5.5.
SAE J566	1960	Society of Automotive Engineers	Headlamp Mountings	49 CFR 571.108
SAE J571	1976	Society of Automotive Engineers	Dimensional Specification for Sealed Beam Headlamp Units	49 CFR 571.108
SAE J573d (pdf) SAE J573d (html)	1968	Society of Automotive Engineers	Requirements for Lamp Bulbs and Sealed Units	49 CFR 571
SAE J575	1970	Society of Automotive Engineers	Test for Motor Vehicle Lighting Devices and Components	49 CFR 571.108 S6.1
SAE J575	1983	Society for Automotive Engineering	Test for Motor Vehicle Lighting Devices and Components	49 CFR 571.131 S6.2.
SAE J575	1988	Society of Automotive Engineers	Test for Motor Vehicle Lighting Devices and Components	49 CFR 571,108 S7.5.8.3(e)
SAE J576	1970	Society of Automotive Engineers	Plastic Materials for Use in Optical Parts, such as Lenses and Reflectors, of Motor Vehicle Lighting Devices	49 CFR 571.108 S6.2
SAE J576 (pdf) SAE J576 (html)	1991	Society of Automotive Engineers	Plastic Materials for Use in Optical Parts	49 CFR 571
SAE J576B	1966	Society of Automotive Engineers	Plastic Materials for Use in Optical Parts,	49 CFR 571.108 S6.2

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		Public Safety Standard	s of the United States	
			such as Lenses and Reflectors, of Motor Vehicle Lighting Devices	
SAE J578 (pdf) SAE J578 (html)	1995	Society of Automotive Engineers	Color Specifications for Electric Signal Lighting Devices	49 CFR 571.403
SAE J584	1964	Society of Automotive Engineers	Motorcycle and Motor Driven Cycle Headlamps	49 CFR 571.108 S7.9.1(a)
SAE J584 (pdf) SAE J584 (html)	1993	Society of Automotive Engineers	Requirements for Motorcycle Headlamps	49 CFR 571
SAE J585	1970	Society for Automotive Engineering	Tail Lamps (Rear Position Lamps) for Use on Motor Vehicles Less Than 2032 mm in Overall Width	49 CFR 571.108 S5.8.8
SAE J585	1977	Society for Automotive Engineering	Tail Lamps (Rear Position Lamps) for Use on Motor Vehicles Less Than 2032 mm in Overall Width	49 CFR 571.108 S5.1.1.6
SAE J585	2000	Society of Automotive Engineers	Tail Lamps (Rear Position Light)	49 CFR 571.108 S6.1
SAE J586	1970	Society of Automotive Engineers	Stop Lamps for Use on Motor Vehicles Less than 2032 mm in Overall Width	49 CFR 571.108 S5.8.3(b)
SAE J586	1984	Society for Automotive Engineering	Stop Lamps for Use on Motor Vehicles Less Than 2032 mm in Overall Width	49 CFR 571.108 S6.1
SAE J586	2000	Society of Automotive Engineers	Stop Lamps for Use on Motor Vehicles Less than 2032 mm in Overall Width	49 CFR 571.108 S6.1
SAE J586B	1966	Society of Automotive Engineers	Stop Lamps for Use on Motor Vehicles Less than 2032 mm in Overall Width	49 CFR 571.108 S5.8.3(a)
SAE J587 (pdf) SAE J587 (html)	1981	Society of Automotive Engineers	License Plate Lamps (Rear Registration Lamps)	49 CFR 571
SAE J588	1970	Society for Automotive Engineering	Tum Signal Lamps for Use on Motor Vehicles Less Than 2032 mm in Overall Width	49 CFR 571.108 S5.1.1.1
SAE J586	1970	Society of Automotive Engineers	Tum Signal Lamps for Use on Motor Vehicles	49 CFR 571.108 S5.8.4(b)

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		Public Safety Standard	ls of the United States	
			Less Than 2032 mm in Overall Width	
SAE J588 (pdf) SAE J588 (html)	1984	Society of Automotive Engineers	Requirements for Turn Signal Lamps	49 CFR 571
SAE J588	2000	Society of Automotive Engineers	Tum Signal Lamps for Use on Motor Vehicles Less Than 2032mm in Overall Width	49 CFR 393.25(c)
SAE J588D	1966	Society of Automotive Engineers	Tum Signal Lamps for Use on Motor Vehicles Less Than 2032mm in Overall Width	49 CFR 571.108 S5.8.4(a)
SAE J592	1972	Society of Automotive Engineers	Clearance, Side Marker and Identification Lamps	49 CFR 571.108 Table III
SAE J592 (pdf) SAE J592 (html)	1992	Society of Automotive Engineers	Clearance, Side Marker, and Identification Lamps	49 CFR 571
SAE J593C	1968	Society of Automotive Engineers	Back-up Lamps	49 CFR 571.108
SAE J594f (pdf) SAE J594f (html)	1977	Society of Automotive Engineers	Requirements for Reflex Reflectors	49 CFR 571
SAE J599	1997	Society of Automotive Engineers	Lighting Inspection Code	49 CFR 581.5(c)(1)
SAE J602 (pdf) SAE J602 (html)	1980	Society of Automotive Engineers	Mechanically Aimable Sealed Beam Headlamps	49 CFR 571
SAE J743A	1964	Society of Automotive Engineers	Tractor Mounted Side Boom	29 CFR 1926.550(a)(18)
SAE J759 (pdf) SAE J759 (html)	1995	Society of Automotive Engineers	Lighting Identification	49 CFR 571
SAE J800C	1973	Society of Automotive Engineers	Recommended Practice, Motor Vehicle Seat Belt Installations	49 CFR 571.209
SAE J826	1962	Society of Automotive Engineers	Devices for Use in Defining and Measuring Vehicle Seating Accommodations	49 CFR 571.3(b)
SAE J826	1980	Society for Automotive Engineering	Devices for Use in Defining and Measuring Vehicle Seating Accommodations	49 CFR 571.214 S12.1.3(b)(1)
SAE J826 (pdf) SAE J826 (html)	1995	Society of Automotive Engineers	Defining and Measuring Vehicle Seating Accommodation	49 CFR 571
SAE J839	1991	Society of Automotive Engineers	Passenger Car Side Door Latch System	49 CFR 571.206

		Public Safety Standard	s of the United States	
SAE JB39B	1965	Society of Automotive Engineers	Passenger Car Side Door Latch System	49 CFR 571.201
SAE J845	1997	Society of Automotive Engineers	Optical Warning Devices for Authorized Emergency, Maintenance and Service Vehicles	49 CFR 393.25(e)
SAE J887	1964	Society of Automotive Engineers	School Bus Red Signal Lamps	49 CFR 571.108
SAE J902A	1967	Society of Automotive Engineers	Passenger Car Windshield Defrosting Systems	49 CFR 571.103
SAE J934	1965	Society of Automotive Engineers	Recommended Practice for Vehicle Passenger Door Hinge Systems	49 CFR 571.206
SAE J942	1965	Society of Automotive Engineers	Passenger Car Windshield Washer System	49 CFR 571.104
SAE J944	1980	Society for Automotive Engineering	Steering Control System-Passenger Car-Laboratory Test Procedure	49 CFR 571.203 S5.1(a)
SAE J945	1966	Society of Automotive Engineers	Vehicular Hazard Waming Signal Flashers	49 CFR 571.108 Table I
SAE J959	1966	Society of Automotive Engineers	Lifting Crane Wire- Rope Strength Factors	29 CFR 1926.550(a)(7) (vi)
SAE J964	1984	Society for Automotive Engineering	Test Procedure for Determining Reflectivity of Rear View Mirrors	49 CFR 571.111
SAE J972	1966	Society of Automotive Engineers	Moving Barrier Collision Test	49 CFR 571.105
SAE J995	1967	Society of Automotive Engineers	Mechanical and Quality Requirements for Steel Nuts	30 CFR 77.403-1(d)(2) (iii)(B)
SAE J995	1971	Society of Automotive Engineers	Mechanical and Quality Requirements for Steel Nuts	30 CFR 77.403-1(d)(2) (iii)(B)
SAE J1040	1994	Society of Automotive Engineers	Performance Criteria for Rollover Protective Structures (ROPS) for Construction, Earthmoving, Forestry and Mining Machines	30 CFR 56.14130(b)(1)
SAE J1063	1993	Society of Automotive Engineers	Cantilevered Boom Crane Structures Method of Test	29 CFR 1926.1433(c)
SAE J1100	1984	Society for Automotive	Motor Vehicle	49 CFR 571.3(b)

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		Engineering	ds of the United States	
SAE J1100 (pdf) SAE J1100 (html)	2001	Society of Automotive Engineers	Motor Vehicle Dimensions	49 CFR 571
SAE J1127	1980	Society for Automotive Engineering	Battery Cable	33 CFR 183.430(a)(2)(ii)
SAE J1128	1975	Society of Automotive Engineers	Low Tension Primary Cable	33 CFR 183.430(a)(2)(ii)
SAE J1133	1984	Society for Automotive Engineering	School Bus Stop Arm	49 CFR 571.131 S6.2.3
SAE J1151	1991	Society of Automotive Engineers	Methane Measurement Using Gas Chromatography	40 CFR 86.111-94(b)(3) (vii)
SAE J1194	1983	Society for Automotive Engineering	Roll-Over Protective Structures for Wheeled Agricultural Tractors	30 CFR 56.14130(h)
SAE J1194	1994	Society of Automotive Engineers	Roll-Over Protective Structures for Wheeled Agricultural Tractors	30 CFR 56.14130(h)
SAE J1194	1999	Society of Automotive Engineers	Roll-Over Protective Structures for Wheeled Agricultural Tractors	30 CFR 57.14130(h)
SAE J1228	1991	Society of Automotive Engineers	Small Craft-Marine Propulsion Engine and Systems-Power Measurements and Declarations	40 CFR 91.115(a)
SAE J1292	1981	Society of Automotive Engineers	Automobile, Truck, Truck-Tractor, Trailer, and Motor Coach Wiring	49 CFR 393.28
SAE J1318	1986	Society of Automotive Engineers	Gaseous Discharge Waming Lamp for Authorized Emergency, Maintenance, and Service Vehicles	49 CFR 393.25(e)
SAE J1383 (pdf) SAE J1383 (html)	1985	Society of Automotive Engineers	Performance Requirements for Motor Vehicle Headlamps	49 CFR 571
SAE J1395 (pdf) SAE J1395 (html)	1985	Society of Automotive Engineers	Tum Signal Lamps for Use on Motor Vehicles	49 CFR 571
SAE J1398 (pdf) SAE J1398 (html)	1985	Society of Automotive Engineers	Stop Lamps for Use on Motor Vehicles	49 CFR 571
SAE J1475	1984	Society for Automotive Engineering	Hydraulic Hose Fittings for Marine Applications	46 CFR 27.211(e)(2)(v) (B)
SAE J1527	1993	Society of Automotive Engineers	Marine Fuel Hoses	33 CFR 183.540(a)
SAE J1703	1983	Society for Automotive	Motor Vehicle Brake	49 CFR 571.116

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ř i		Public Safety Standard		
		Engineering	Fluid	S6.5.4.1
SAE J1703 (pdf) SAE J1703 (html)	1995	Society of Automotive Engineers	Motor Vehicle Brake Fluids	49 CFR 571
SAE J1733 (pdf) SAE J1733 (html)	1994	Society of Automotive Engineers	Sign Convention for Vehicle Crash Testing	49 CFR 572
SAE J1817	2001	Society of Automotive Engineers	Long Stroke Air Brake Actuator Marking	49 CFR 393.47(e)
SAE J1850	1995	Society of Automotive Engineers	Class B Data Communication Network Interface	40 CFR 86.099-17(h)(1) (i)
SAE J1850	2001	Society of Automotive Engineers	Class B Data Communication Network Interface	40 CFR 86.1806-05(h)(1) (i)
SAE J1877	1994	Society of Automotive Engineers	Recommended Practice for Bar-Coded Vehicle Identification Number Label	40 CFR 86.095-35(h)(2) (i)
SAE J1892	1993	Society of Automotive Engineers	Recommended Practice for Bar-Coded Vehicle Emission Configuration Label	40 CFR 86.095-35(h)(2) (i)
SAE J1930	1993	Society of Automotive Engineers	Electrical/Electronic Systems Diagnostic Terms, Definitions, Abbreviations, and Acronyms	40 CFR 1039.135(c)(8)
SAE J1930	2002	Society of Automotive Engineers	Electrical/Electronic Systems Diagnostic Terms, Definitions, Abbreviations, and Acronyms	40 CFR 86.1806-05(h)(1) (v)
SAE J1937	1989	Society of Automotive Engineers	Recommended Practice for Engine Testing with Low Temperature Charge Air Cooler Systems in a Dynamometer Test Cell	40 CFR 86.1330-90(b)(5)
SAE J1962	1995	Society of Automotive Engineers	Diagnostic Connector Equivalent to ISO/DIS	40 CFR 86.094-17(h)(4)
SAE J1962	2002	Society of Automotive Engineers	Diagnostic Connector Equivalent to ISO/DIS 15031	40 CFR 86.1806-05(h)(1) (iv)
SAE J1978	2002	Society of Automotive Engineers	OBD II Scan Tool Equivalent to ISO/DIS 15031-4	40 CFR 86.1806-05(h)(1) (vi)
SAE J1979	2002	Society of Automotive Engineers	E/E Diagnostic Test Modes	40 CFR 86.1806-05(h)(1) (ii)
SAE J2009 (pdf)	1993	Society of Automotive	Discharge Forward	49 CFR 571
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		Public Safety Standard	s of the United States	
SAE J2009 (html)		Engineers	Lighting Systems	
SAE J2012	2002	Society of Automotive Engineers	Diagnostic Trouble Code Definitions	40 CFR 86.1806-04(h)(1) (iii)
SAE J2040	2002	Society of Automotive Engineers	Tail Lamps (Rear Position Lamps) for Use on Vehicles 2032 mm or More in Overall Width	9 CFR 393.25(c)
SAE J2260	1996	Society of Automotive Engineers	Non-metallic Fuel System Tubing with One or More Layers	40 CFR 1048.105(a)(2)
SAE J2261	2002	Society of Automotive Engineers	Stop Lamps and Front- and Rear-Tum Signal Lamps for Use on Motor Vehicles 2032 mm or More in Overall Width	49 CFR 393.25(c)
SAE J2534	2002	Society of Automotive Engineers	Recommended Practice for Pass-Thru Vehicle Programming	40 CFR 86.096-38(g)(17) (iv)
SCTE 26	2010	Society of Cable Telecommunications Engineers	Home Digital Network Interface Specification with Copy Protection	47 CFR 76.640(b)(4)(iii)
SCTE 28	2007	Society of Cable Telecommunications Engineers	Host-POD Interface Standard	47 CFR 15.123(b)(4)
SCTE 40	2004	Society of Cable Telecommunications Engineers	Digital Cable Network Interface Standard (2004)	47 CFR 15.123(b)(2)
SCTE 40	2011	Society of Cable Telecommunications Engineers	Digital Cable Network Interface Standard (2011)	47 CFR 15.123(b)(2)
SCTE 41	2011	Society of Cable Telecommunications Engineers	POD Copy Protection System	47 CFR 76.640(b)(2)(ii)
SCTE 54	2009	Society of Cable Telecommunications Engineers	Digital Video Service Multiplex and Transport System Standard for Cable Television	47 CFR 15.123(b)(3)
SCTE 65	2008	Society of Cable Telecommunications Engineers	Service Information Delivered Out-of-Band for Digital Cable Television	47 CFR 76.640(b)(1)(ii)
SEAC	1996	Structural Engineers Association of California	Recommended Lateral Force Requirements and Commentary including Errata	42 CFR 52b.12(c)(5)
SII	1994	Steel Joist Institute	Standard Specification Load Tables and	24 CFR 3280.304(b)(1)

Public Safety Standards of the United States

		Public Safety Standards	s of the United States	
			Weight Tables for Steel Joists and Joist Girders	
SMACCNA HVAC (pdf) SMACCNA HVAC (html) SMACCNA HVAC (svg)	1985	Sheet Metal and Air Conditioning Contractors National Association	SMACNA: HVAC Air Duct Leakage Test Manual	10 CFR 434.403.2.9.3
SMACCNA DUCT (pdf) SMACCNA DUCT (html) SMACCNA DUCT (svg)	1995	Sheet Metal and Air Conditioning Contractors National Association	SMACCNA: HVAC Duct Construction Standards – Metal and Flexible (RS-34)	10 CFR 434.403.2.9.3
SMACCNA GLASS (pdf)	1992	Sheet Metal and Air Conditioning Contractors National Association	SMACCNA: Fibrous Glass Duct Construction Standards (RS-36)	10 CFR 434.403.2.9.3
SMACCNA AIR (pdf)	1978	Sheet Metal and Air Conditioning Contractors National Association	SMACCNA: Energy Recovery Equipment and Systems, Air-to- Air	10 CFR 440 Appendix A
NIST Handbook H-28	1942	Department of Commerce	Handbook of Screw- Thread Standards for Federal Service	49 CFR 178.45(f)(5)(ii)
DOD AFTO 11A- 1-47	1988	Department of Defense	Explosive Hazard Classification Procedures	49 CFR 173.56(b)(2)(i)
FedSpec RR-C- 901D	2003	Department of Transportation	Cylinders, Compressed Gas: High Pressure, Steel DOT 3AA, and Aluminum Applications	49 CFR 173.302(b)(3)
RTCA 23-63	1963	Radio Technical Commission for Aeronautics	Standard Adjustment Criteria for Airborne Localizer and Glide Slope Receivers	14 CFR 91 App. A, 3(a) (1)
SNELL B-90	1998	Snell Memorial Foundation	Standard for Protective Headgear for Use in Bicycling	16 CFR 1203.53(a)(4)
SNELL B-95	1998	Snell Memorial Foundation	Standard for Protective Headgear for Use in Bicycling	16 CFR 1203.53(a)(7)
SRCC OG-300	2008	Solar Rating and Certification Corporation	Operating Guidelines and Minimum Standards for Certifying Solar Water Heating Systems	24 CFR 200.950(a)(1)
н ат	1985	Truss Plate Institute	Design Specifications for Metal Plate Connected Wood	24 CFR 3280.304(b)(1)

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		Public Safety Standard		
			Trusses	
TTMA RP-61	1998	Truck Trailer Manufacturers Association	Performance of Manhole and/or Fill Opening Assemblies	49 CFR 180.405(g)(2)(i)
TIMA RP-81	1997	Truck Trailer Manufacturers Association	Performance of Spring Loaded Pressure Relief Valves	49 CFR 178.345-10(b)(3) (i)
TTMA RP-107	1998	Truck Trailer Manufacturers Association	Procedure for Testing In-Service Unmarked and/or Uncertified MC 306 and Non-ASME MC 312 Type Cargo Tank Manhole	49 CFR 180.405(g)(2)(i)
UL 17	1988	Underwriters Laboratories	Vent or Chimney Connector Dampers for Oil-Fired Appliances	10 CFR 440 Appendix A
UL. 38	1993	Underwriters Laboratories	Standard for Manually Actuated Signaling Boxes for Use with Fire-Protective Signaling Systems	46 CFR 161.002-4(b)(1)
UL 44	2002	Underwriters Laboratories	Standard for Thermoset-Insulated Wire and Cable	46 CFR 110.10-1
UL, 50	1995	Underwriters Laboratories	Standard for Enclosures for Electrical Equipment	46 CFR 111.81-1(d)
UL 62	1997	Underwriters Laboratories	Standard for Flexible Cord and Fixture Wire	46 CFR 110.10-1
UL 127	1996	Underwriters Laboratories	Factory-Built Fireplaces	24 CFR 3280
UL 142 (pdf) UL 142 (html)	1968	Underwriters Laboratories	Steel Above Ground Tanks for Flammable and Combustible Liquids	49 CFR 1910
UL 174	1989	Underwriters Laboratories	Household Electric Storage Tank Water Heaters	46 CFR 63.25-3(a)
UL 217	1993	Underwriters Laboratories	Single and Multiple Station Smoke Detectors	46 CFR 181.450(a)(1)
UL 486A	1990	Underwriters Laboratories	Wire Connections and Soldering Lugs for Use With Copper Conductors	46 CFR 175.600
UL 521	1993	Underwriters Laboratories	Heat Detectors for Fire Protective Signaling Systems	46 CFR 161.002-4(b)(1)
UL 727	1994	Underwriters	Oil-Fired Central	10 CFR 431.76(c)(1)

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ĩ	a.	Public Safety Standard		
		Laboratories	Furnaces	
UL 746C	1995	Underwriters Laboratories	Polymeric Material– Use in Electrical Equipment Evaluations	16 CFR 1211.10(e)(2)
UL 913	1988	Underwriters Laboratories	Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III Division 1, Hazardous (Classified) Locations	46 CFR 111.105-11(a)
UL 991	1995	Underwriters Laboratories	Tests for Safety- Related Controls Employing Solid-State Devices	16 CFR 1211.4(c)
UL. 1042	1995	Underwriters Laboratories	Electric Baseboard Heating Equipment	24 CFR 3280.703
UL 1072	1995	Underwriters Laboratories	Standard for Medium- Voltage Power Cables	46 CFR 111.60-1(e)
UL 1096	1986	Underwriters Laboratories	Electrical Central Air Heating Equipment	24 CFR 3280.703
UL. 1104	1983	Underwriters Laboratories	Standard for Marine Navigation Lights	46 CFR 120.420
UL 1426	1986	Underwriters Laboratories	Cables for Boats	33 CFR 183.435(a)(4)
UL 1570	1995	Underwriters Laboratories	Fluorescent Lighting Fixtures	46 CFR 183.410(d)
UL 1571	1995	Underwriters Laboratories	Incandescent Lighting Fixtures	46 CFR 111.75-20(e)
UL 1572	1995	Underwriters Laboratories	High Intensity Discharge Lighting Fixtures	46 CFR 120.410(d)
UL. 1574	1995	Underwriters Laboratories	Track Lighting Systems	46 CFR 111.75-20(e)
UL 1995	1995	Underwriters Laboratories	Heating and Cooling Equipment, Second Edition, with 1999 revisions	24 CFR 3280.4
UNECE	1996	United Nations Economic Commission of Europe	Uniform Provisions Concerning the Approval of Vehicles with Regard to the Installation of Lighting and Light-Signaling Devices	49 CFR 571.108
UN ESC	2009	United Nations Economic and Social Council	Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria	49 CFR 173.128(c)(3)

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UN ESC	2005	United Nations Economic and Social Council	Recommendations on the Transport of Dangerous Goods	49 CFR 173.40(d)(2)
FAO 4	1995	UN Food and Agriculture Organization	Requirements for the Establishment of Pest- free Areas	7 CFR 319.56
IAEA Circular 225	1999	International Atomic Energy Agency	Physical Protection of Nuclear Material and Nuclear Facilities	10 CFR 110.44(b)(1)
IAEA TS-R-1	2009	International Atomic Energy Agency	Regulations for the Safe Transport of Radioactive Material	49 CFR 171.23
IMO Resolution A.264	1960	International Maritime Organization	Amendment to Chapter VI of the International Convention for the Safety of Life at Sea	46 CFR 172.015(a)(2)
IMO Resolution A.265	1973	International Maritime Organization	Carriage of Grain	46 CFR 170.135(a)
IMO Resolution A.342	1975	International Maritime Organization	Recommendations on Performance Standards for Automatic Pilots	33 CFR 164.13(d)(1)
IMO Resolution A.414	1979	International Maritime Organization	Code for Construction and Equipment of Mobile Offshore Drilling Units	33 CFR 143.207(c)
IMO Resolution A.520	1983	International Maritime Organization	Code of Practice for the Evaluation, Testing and Acceptance of Prototype Novel Life- Saving Appliances and Arrangements	46 CFR 108.105(c)(1)
IMO Resolution A.525	1983	International Maritime Organization	Performance Standards for Narrow- band Direct Printing Telegraph Equipment for the Reception of Navigational and Meteorological Warnings	47 CFR 80.1101(c)(1)(i)
IMO Resolution A.601	1987	International Maritime Organization	Provision and Display of Manoeuvering Information on Board Ships	33 CFR 157.450
IMO Resolution A.649	1991	International Maritime Organization	Code for the Construction and Equipment of Mobile Offshore Drilling Units (MODU Code)	46 CFR 108.503
MO Resolution	1989	International Maritime	Graphical Symbols for	46 CFR 109.563(a)(6)

т		Public Safety Standard	s of the United States	
A.654		Organization	Fire Control Plans	
IMO Resolution A.657	1989	International Maritime Organization	Instructions for Action in Survival Craft	46 CFR 160.151-21(v)(3)
IMO Resolution A.658	1989	International Maritime Organization	Use and Fitting of Retro-Reflective Materials on Life- Saving Appliances	46 CFR 108.645(a)(4)
IMO Resolution A.662	1989	International Maritime Organization	Performance Standards for Float- Free Release and Activation Arrangements for Emergency Radio Equipment	47 CFR 80.1101(c)(11) (ii)
IMO Resolution A.664	1989	International Maritime Organization	Performance Standards for Enhanced Group Call Equipment	47 CFR 80.1101(c)(10)
IMO Resolution A.688	1991	International Maritime Organization	Fire Test Procedures for Ignitability of Bedding Components	46 CFR 116.405(j)(2)
IMO Resolution A.689	1996	International Maritime Organization	Recommendation on Testing Lif e -Saving Appliances	46 CFR 160.151-21(f)
IMO Resolution A.594	1991	International Maritime Organization	General Requirements for Shipborne Radio Equipment Forming Part of the Global Maritime Distress and Safety System and for Electronic Navigational Aids	47 CFR 80.1101(b)(1)
IMO Resolution A.700	1991	International Maritime Organization	Performance Standards for Narrow- band Direct-printing Telegraph Equipment for the Reception of Navigational and Meteorological Warnings and Urgent Information to Ships	47 CFR 80.1101(c)(4)(iv)
IMO Resolution A.739	1993	International Maritime Organization	Guidelines for the Authorization of Organizations Acting on Behalf of the Administration	33 CFR 96.440(a)(12)
IMO Resolution A.741	1993	International Maritime Organization	International Management Code for the Safe Operation of Ships and for Pollution Prevention	33 CFR 96.220(b)
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		Public Safety Standard	ls of the United States	
IMO Resolution A.744	1993	International Maritime Organization	Guidelines on the Enhanced Program of Inspections During Surveys of Bulk Carriers and Oil Tankers	33 CFR 157.430(a)
IMO Resolution A.751	1994	International Maritime Organization	Interim Standards for Ship Manoeuverability	33 CFR 157.445(a)
IMO Resolution A.753	1993	International Maritime Organization	Guidelines for the Application of Plastic Pipe on Ships	46 CFR 56.60-25(a)
IMO Resolution A.760	1993	International Maritime Organization	Symbols Related to Life-Saving Appliances and Arrangements	46 CFR 108.646(a)
IMO Resolution A.788	1995	International Maritime Organization	Guidelines on Implementation of the International Safety Management (ISM) Code by Administrations	33 CFR 96.320(c)(2)
IMO Resolution A.802	1995	International Maritime Organization	Performance Standards for Survival Craft Radar Transponders for Use in Search and Rescue Operations	47 CFR 80.1101(c)(6)(i)
IMO Resolution A.803	1995	International Maritime Organization	Performance Standards for Shipborne VHF Radio Installations Capable of Voice Communication and Digital Selective Calling	47 CFR 80.1101(c)(2)(i)
IMO Resolution A.804	1995	International Maritime Organization	Performance Standards for Shipborne MF Radio Installations Capable of Voice Communication and Digital Selective Calling	47 CFR 80.1101(c)(3)(i)
IMO Resolution A.806	1995	International Maritime Organization	Performance Standards for Shipborne MF/HF Radio Installations Capable of Voice Communication, Narrow-Band Direct Printing and Digital Selective Calling	47 CFR 80.1101(c)(4)(i)
IMO Resolution A.807	1995	International Maritime Organization	Performance Standards for INMARSAT Standard-C	47 CFR 80.1101(c)(9)

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			Public Safety Standards	s of the United States	
				Ship Earth Stations Capable of Transmitting and Receiving Direct- Printing Communications	
	IMO Resolution A.808	1995	International Maritime Organization	Performance Standards for Ship Earth Stations Capable of Two-Way Communications	47 CFR 80.1101(c)(8)
	IMO Resolution A.809	1995	International Maritime Organization	Performance Standards for Survival Craft Two-Way VHF Radiotelephone Apparatus	47 CFR 80.1101(c)(7)(i)
	IMO Resolution A.810	1995	International Maritime Organization	Performance Standards for Float-free Satellite Emergency Position-Indicating Radio Beacons (EPIRBs) Operating on 406 MHz	47 CFR 80.1101(c)(5)(i)
	IMO Resolution A.812	1995	International Maritime Organization	Performance Standards for Float- Free Satellite EPIRBs Operating Through the Geostationary INMARSAT Satellite System on 1.6 GHz	47 CFR 80.1101(c)(11)(i)
	USEC 651	1995	United States Enrichment Corporation	Good Handling Practices for Uranium Hexafluoride	49 CFR 173.417(a)(3)(i)
	USPHS 934	1962	U.S. Public Health Service	Food Service Sanitation Ordinance and Code	29 CFR 1910.142(i)(1)
	USPHS 956	1962	U.S. Public Health Service	Drinking Water Standards	46 CFR 160.026-4(a)
	USPHS 934	1962	U.S. Public Health Service	Food Service Sanitation Ordinance and Code	29 CFR 1910.142(i)(1)
	USPHS 9	2003	U.S. Public Health Service	The Ships Medicine Chest and Medical Aid at Sea	33 CFR 143.405(a)(15)
	WCLIB R17	2004	West Coast Lumber Inspection Bureau	Grading Rules for West Coast Lumber	7 CFR 1728.201(f)(1)(i)
	WHO	1973	World Health Organization	Laboratory Techniques in Rabies	9 CFR 113.209(d)(3)
	WIPO ST.25	2001	World Intellectual Property Organization	Handbook on Industrial Property Information	37 CFR 1.821(a)(1)
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	Public Safety Standards of the United States						
	1		and Documentation				
WQA S-100	1985	Water Quality Association	Water Softeners	24 CFR 200, Subpart S			
WQA S-200	1988	Water Quality Association	Water Filters	24 CFR 200, Subpart S			
WQA S-300	1984	Water Quality Association	Point-of-Use, Low Pressure Reverse Osmosis Drinking Water Systems	24 CFR 200, Subpart S			
WQA S-400	1986	Water Quality Association	Point-of-Use Distillation Drinking Water Systems	24 CFR 200, Subpart S			
WSTDA T-1	2005	Web Sling and Tiedown Association	Recommended Standard Specification for Synthetic Web Tledowns	49 CFR 393.104(e)(3)			

Last Updated: December 31, 2012

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EXHIBIT 19

EXHIBI Ashley Scevyn, CSR No 12019 Date 2/27/15 Witness: MALAMUD

From: Kickstarter Sent: Tue 10/01/2013 12:23 PM (GMT -7) To: carl@media.org Cc: Bcc:

Subject: Project Update #1: Public Safety Codes of the World: Stand Up For Safety! by Carl Malamud, Public.Resource.Org

Project Update #1: 106 New ASTM Standards Converted

Posted by Carl Malamud, Public.Resource.Org

The work we're doing to rekey standards is part of a long-standing process we've put in place, starting with the California building codes and moving on to over 1,000 standards so far that span the globe. Just today, I added HTML versions of <u>106 standards from</u> <u>ASTM</u> to our directory of standards required by U.S. federal law. These standards are particularly important because many of these are out-of-date although still required by federal law and there are no readily available version of these documents on the net or in public libraries around the country.

You can really see the difference between the original HTML and the rekeyed HTML:

- A47 is the 1968 standard for Standard Specification for Malleable Iron Castings. It is required by law in the OSHA standards for storage and handling of anhydrous ammonia. Here's the <u>PDF version</u>. Compare that to the <u>HTML version</u>.
- The U.S. Coast Guard requires by law the use of ASTM A333: Standard Specification for Seamless and Welded Steel Pipe for Low-Temperature Service. Here's the <u>PDF version</u>. Compare that to the <u>HTML version</u>.

One of the hopes as we move beyond the rekey stage is that we can do more than simply recover text, but can start adding true value. For example, rekeying the mathematical formulas into MATHML, adding section ID headers so you can permalink not only the standard but a subsection of the standard, and converting the graphics to vector format.

We'll have another 100 or so ASTM standards done in a couple of weeks, plus there is a queue of several hundreds standards from India that have been converted into HTML and are undergoing QA.

We do get some pushback from time to time from organizations that think legallymandated standards shouldn't be made available, but we fight hard for our right to read, know, and speak the law. Read what our lead firm, the Electronic Frontier Foundation,

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has to say in their post yesterday entitled "<u>The Law Belongs To Everyone, We Tell</u> <u>Standards Organizations</u>." Some of the best intellectual property lawyers in the United States are standing firmly with us on this fundamental right to know the laws by which we govern ourselves. I hope you'll stand with us. Thank you for your support.

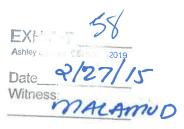
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EXHIBIT 20



From: Kickstarter Sent: Fri 10/25/2013 12:16 PM (GMT -7) To: carl@media.org Cc: Bcc:

Subject: Project Update #8: Public Safety Codes of the World: Stand Up For Safety! by Carl Malamud, Public.Resource.Org

Project Update #8: A Prayer for Our Democracy

Posted by Carl Malamud, Public.Resource.Org Y Like

ASCII to ASCII, disk to disk, data thou art and data thou shalt return.

Today, I published 130 more ASTM standards that have been rekeyed into HTML. We have posted a total of 328 ASTM files as scans from PDF and 256 are now available as open HTML. They are <u>available for open access</u> without restriction from our servers. These are a few of these laws with which we have chosen to govern ourselves:

- ASTM D86 (2007): <u>Standard Test Method for Distillation of Petroleum</u> <u>Products at Atmospheric Pressure</u>, as required by the EPA in <u>40 CFR</u> <u>1065.710</u>.
- ASTM D129 (1964): <u>Standard Test Method for Sulfur in Petroleum</u> <u>Products (General Bomb Method)</u> as required by the EPA in <u>40 CFR</u> <u>60.106(i)(2)</u>.
- ASTM D257 (1991): <u>Standard Test Method for DC Resistance of</u> <u>Conductance of Insulating Materials</u> as required by the Rural Utilities Service, Department of Agriculture at <u>7 CFR 1755.860(e)(5)</u>.
- ASTM D323 (1958): <u>Standard Test Method for Vapor Pressure of</u> <u>Petroleum Products (Reid Method)</u> as required by OSHA in <u>29 CFR</u> <u>1910.106(a)(30)</u>.
- ASTM D412 (1968): <u>Standard Test Methods for Vulcanized Rubber</u> and <u>Thermoplastic Elastomers-Tension</u> as required by the Food and Drug Administration in <u>21 CFR 801.410(d)</u>.
- ASTM D413 (1982): <u>Standard Test Method for Rubber Property--</u> <u>Adhesion to Flexible Substrate</u> as required by the Coast Guard in <u>46</u> <u>CFR 160.055-3.</u>
- ASTM D445 (1972): <u>Standard Test Method for Kinematic Viscosity of</u> <u>Transparent and Opaque Liquids</u> as required by the FDA in <u>21 CFR</u> <u>177.1430(c)(2)</u>.
- ASTM D756 (1956): <u>Standard Practice for Determination of Weight</u> and Shape Changes of Plastics Under Accelerated Service



CFR 571.209 S5.2(b).

- ASTM D781 (1971): <u>Standard Test Methods for Puncture and</u> <u>Stiffness of Paperboard and Corrugated and Solid Fiberboard</u> as required by the Department of Housing and Urban Development in <u>24</u> CFR 3280.304(b)(1).
- ASTM D1056 (1973): <u>Standard Specification for Flexible Cellular</u> <u>Materials Sponge or Expanded Rubber</u> as required by the National Highway Safety Administration in <u>49 CFR 571.213</u>.
- ASTM D2156 (1965): <u>Method of Tests for Smoke Density in Flue</u> <u>Gases from Distillate Fuels</u> as required by the Department of Energy in <u>10 CFR 430 Subpart B.</u>
- ASTM D4268 (1993): <u>Standard Test Method for Testing Fiber Ropes</u> as required by the Coast Guard in <u>33 CFR 164.74(a)(3)(i)</u>.

The rule of law is the secular underpinning of our society. John Adams, in "<u>A</u> <u>Dissertation on the Canon and the Feudal Law</u>" said that for democracy to succeed, we must all know and speak the laws. He said:

"Let the public disputations become researches into the grounds and nature and ends of government, and the means of preserving the good and demolishing the evil. Let the dialogues, and all the exercises, become the instruments of impressing on the tender mind, and of spreading and distributing far and wide, the ideas of right and the sensations of freedom.

In a word, let every sluice of knowledge be opened and set a-flowing."

For our democracy to succeed, we must all be scanners. ASCII to ASCII, disk to disk. Data thou art and data thou shalt return.

When I started to publish federal law, I sent the ASTM and 9 other



I continue publishing the laws of our land. Let every sluice of knowledge be set a-flowing. Thanks for your support.

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