

PUBLIC HEARING
BEFORE THE
CALIFORNIA ENERGY RESOURCES CONSERVATION
AND DEVELOPMENT COMMISSION

In the Matter of:)
)
Proposed Amendments) Docket No: 05-AAER-1
to the Appliance)
Efficiency Regulations)
)

CALIFORNIA ENERGY COMMISSION
1516 NINTH STREET
HEARING ROOM A
SACRAMENTO, CALIFORNIA

THURSDAY, JULY 21, 2005

10:00 A.M.

Reported by:
Sean Willard
Contract No. 150-04-002

PETERS SHORTHAND REPORTING CORPORATION (916) 362-2345

COMMISSIONERS PRESENT

Jackalyne Pfannenstiel, Presiding Member

ADVISORS

Tim Tutt, Advisor

STAFF PRESENT

Jim Holland
Appliance Program

R. Michael Martin, P.E.

Jonathan Blee

Bill Staack

Elaine Hussey

Betty Chrisman

Michelle Fristoe

ALSO PRESENT

Ramin Faramarzi, Manager
Southern California Edison

Patrick Eilert, Senior Program Manager
Pacific Gas and Electric

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1 P R O C E E D I N G S

2 10:00 a.m.

3 PRESIDING MEMBER PFANNENSTIEL: I'd like
4 to start. We are running a little late already.
5 This is public hearing to consider proposed
6 amendments to appliance efficiency regulations. On
7 December 15, 2004, the Energy Commission adopted
8 changes to our appliance efficiency regulations,
9 but we left open some issues for further
10 resolution, and we will today consider some of the
11 remaining open issues.

12 I am Commissioner Jackie Pfannenstiel, I
13 am the Presiding Member of the Commission's Energy
14 Efficiency Committee. Commissioner Rosenfeld, the
15 second member of that committee is not available
16 today. To my right is my advisor, Tim Tutt.

17 With that, why I don't I turn this over
18 to Jim Holland who will conduct the remainder of
19 today's hearing. Jim.

20 MR. HOLLAND: Thank you, Ma'am. I am
21 Jim Holland. I'm with the Commission's Appliance
22 Program, and beside me is Mr. Michael Martin, our
23 Program Engineer.

24 I'd also like to acknowledge Mr.
25 Jonathan Bles, who is our program legal counsel,

1 as is also Mr. Bill Staack, and also here is Betty
2 Chrisman, Michelle Fristoe, Elaine Hussey. Not
3 present, but in our program is Carolyn McCormack
4 and our office manager, Bill Pennington.

5 With that, I would like to open with
6 some background to this particular ruling. On
7 December 15, 2004, the Energy Commission adopted
8 numerous changes to the Appliance Efficiency
9 Regulations.

10 The five commissioners also signed an
11 Order Adopting Regulations and Directing
12 Additional Rule Making Activities. The amended
13 regulations were approved by the Office of
14 Administrative Law on March 16, 2005 and took
15 effect April 15, 2005.

16 The directives to the Efficiency
17 Committee are discussed below. The order adopting
18 regulations and directing additional rule making
19 activities directed the Efficiency Committee on
20 December 15, 2004 to continue the rule making to
21 consider at least five issues listed in the order
22 and take appropriate action thereon as soon as
23 possible.

24 We are considering three of these five
25 directives at today's hearing. These three

1 directives being considered are as follows, and
2 rather than reading through all three at once,
3 what I would like to do is read one at a time and
4 then open the floor to public comment on each
5 directive if I may.

6 The first issue is Door Closers for
7 Walk-in Refrigerators and Walk-in Freezers. The
8 Order Adopting Regulations Directive, consider
9 whether Section 1605.3 (a)(4) requiring walk-in
10 refrigerators and walk-in freezers manufactured on
11 or after January 1, 2006 to have automatic door
12 closers should be limited to (a) refrigerators and
13 freezers no greater than a certain size, (b) with
14 doors no greater than a certain size, for example
15 4 feet by 7 feet, or (c) other circumstances.

16 Staff's response is as follows. Section
17 1605.3 (a)(4) currently requires walk-in
18 refrigerators and walk-in freezers to have
19 automatic door closers that firmly close walk-in
20 doors that have been closed within one inch of
21 full closure.

22 Staff recognizes that this provision as
23 written is not practical for doors of refrigerated
24 warehouses that are designed for access by
25 highway-type trucks since manufacturers have

1 indicated that automatic door closers do not have
2 the ability to close doors of such size or weight.
3 However, they are practical for smaller pedestrian
4 access doors in such warehouses.

5 Staff therefore recommends that the
6 provisions be modified to refer to automatic door
7 closers being required on doors no larger than 4
8 feet by 7 feet. That is our proposal, and I open
9 the floor to any discussion related to this.

10 PRESIDING MEMBER PFANNENSTIEL: Is there
11 any discussion on this proposal, anybody here who
12 would like to speak to this proposal?

13 (No response.)

14 PRESIDING MEMBER PFANNENSTIEL: Hearing
15 none, Jim, then why don't you continue.

16 MR. HOLLAND: The second issue,
17 directive by the Commission, Fan Motors Used in
18 Walk-in Refrigerators and Walk-in Freezers.

19 The Order Adopting Regulations is as
20 follows. Order Adopting Regulations Directive -
21 Consider whether there is evidence that sufficient
22 equipment will not be available to meet the
23 "electronically commutated evaporator fan motor"
24 requirement of Section 1605.3(a)(4), and if so
25 whether the standard should be modified,

1 postponed, or eliminated.

2 The staff's response is as follows. On
3 February 23, 2005, appliance program staff,
4 appliance program standards consultants, and
5 commercial refrigeration industry representative
6 came to a mutually-acceptable agreement on
7 evaporator fan motor requirements for walk-in
8 refrigeration units, resulting in a proposal to
9 delay the requirement for electronically
10 commutated evaporator fan motors. This compromise
11 solution will still allow for significant energy
12 savings for walk-in refrigeration equipment while
13 giving industry a longer period of time to comply
14 with more stringent standards for walk-in
15 refrigeration equipment.

16 The proposed changes consist of delaying
17 the requirement for using electronically
18 commutated motors for walk-in refrigeration
19 evaporator fans from January 1, 2006 to January 1,
20 2008, and allowing the use of permanent-split-
21 capacitor motors in the interim between January 1,
22 2006 and January 1, 2008. These changes would
23 also exclude efficiency requirements for motors
24 operating at 460 volts or higher.

25 That concludes staff's input, and I open

1 the floor to any remarks.

2 PRESIDING MEMBER PFANNENSTIEL:

3 Questions, discussion on this proposal?

4 (No response.)

5 PRESIDING MEMBER PFANNENSTIEL: Go

6 ahead.

7 MR. HOLLAND: The third main topic of
8 discussion regards marking and data reporting
9 provisions or power supplies and consumer audio
10 and video equipment. The Commission's directive
11 is as follows.

12 Order Adopting Regulations Directive -
13 consider whether there should be marking and data-
14 reporting requirements for power supplies and
15 consumer audio and video equipment.

16 Staff's response is as follows. Data
17 reporting requirements for external power supplies
18 were considered for inclusion in the current
19 proposed amendments to the regulations, but staff
20 believes that more time is needed to ensure that
21 the correct parameters are included in the data
22 collection requirements.

23 As a result of this decision, a proposal
24 for the data collection for external power
25 supplies will be the subject of a separate staff

1 report which will be released during a future
2 rulemaking.

3 In order to ensure compliance with
4 adopted standards, staff proposes that there be
5 data reporting requirements for consumer audio and
6 video equipment. Staff is proposing that Section
7 1606, Table V, Group U should be amended to add
8 specific data collection items for consumer audio
9 and video products.

10 Those specific parameters can be found
11 in the staff report relevant to the consumer audio
12 and video products. That's staff's response, and
13 I open it to the public.

14 PRESIDING MEMBER PFANNENSTIEL:
15 Comments, public response to this?

16 (No response.)

17 MR. HOLLAND: Those are the three main
18 topics that were directed by the Commission.
19 Other than that, during the rulemaking, staff and
20 consultants found a number of issues that did need
21 corrected in the regulations for the most part,
22 insubstantial, but part of this rulemaking, all of
23 which our outlined in the staff report. At this
24 point, I'll open the floor to any remarks
25 regarding any of the other proposed items in the

1 proposed amendments to the regulations.

2 PRESIDING MEMBER PFANNENSTIEL: Thank
3 you, Jim. Let me open the floor more generally I
4 think. We have one blue card, and I don't know
5 whether there are other people who would like to
6 speak today, but we do have, in fact, on that
7 other proposed changes, I think the speaker from
8 Southern California Edison, Ramin Faramarzi.

9 MR. FARAMARZI: Good morning, Madam
10 Commissioner. First of all, I would like to
11 welcome the inclusion of the refrigeration
12 equipment in Title 20 Program, and I appreciate
13 the opportunity to share some feedback with you.

14 I know that this is not included in this
15 rulemaking, but I have some comments regarding the
16 vending machines, and I know that vending machines
17 are part of Title 20 in the current standards. We
18 hope that these comments can be heard by the
19 Commission and possibly considered for inclusion
20 in the future rulemakings.

21 Before I start my comments, I'd like to
22 make some background information, some pointers
23 about the background of vending machines in the US
24 and in California in particular.

25 There are basically two main types of

1 vending machines that we have, there are closed
2 front units and glass front units, and sometimes
3 glass front units are all referred to as multi-
4 package units.

5 These units are found in cool indoor
6 environment as well as hot outdoor environments,
7 and what we have understood lately is that the
8 industry is shifting from making closed front
9 units, they are more interested in producing glass
10 front units because the increase in sales that
11 they have noticed.

12 Here is where my comments begin. Under
13 the Title 20 standards today, vending machines are
14 covered, but these standards do not make a
15 distinction between the closed front and glass
16 front units.

17 Additionally, the indoor versus outdoor
18 application of these units are not clearly defined
19 in the standards.

20 Lastly, the energy consumption values
21 that have been set for these units for 2006 is the
22 same value as for 2007, and we think that there is
23 some potential in that area as well.

24 A little background about the
25 information that I would like to share with you.

1 I am the Manager of Southern California Edison's
2 Refrigeration and Thermal Test Center. In the
3 past few years, we have been involved in testing
4 of vending machines. In our projects, we have
5 tried to look at the impact of varying
6 (indiscernible) conditions on the thermal
7 performance and energy efficiency of these
8 machines, in particular, closed front and glass
9 front units.

10 We have leveraged some of this
11 information to develop energy efficiency
12 specifications and also we have partnered with
13 manufacturers and major beverage companies to
14 develop a prototype that we have tested also.

15 Our test results have indicated that
16 when you move closed front and glass front units
17 both from a cool indoor environment to a hot
18 outdoor environment, you can actually experience
19 up to 20 percent increase in the electric demand
20 of these machines.

21 Under the same conditions when these
22 units are moved from indoor to outdoor, you can
23 experience up to 140 percent increase in the
24 energy consumption.

25 We have also seen that glass front units

1 consume significantly more energy and demand than
2 closed front units.

3 Through out prototype testing that we
4 have done with our high efficiency unit, that
5 basically uses commercially available technologies
6 in it. We have seen that there could be a maximum
7 of technical potential of 50 percent reduction in
8 demand of the units if manufacturers to date
9 decide to leverage the existing technologies that
10 we currently have available. Also the same
11 prototype yielded 60 percent reduction in energy
12 consumption.

13 In conclusion, what I would like to
14 emphasize is that Southern California is very
15 interested in working very closely with the
16 Commission members and especially with the
17 appliance programs staff to see how we can
18 possibly leverage the test results that we have
19 from our facility and funnel through a very
20 dynamic process to the Commission, so that we
21 could support you guys in a more meaningful
22 fashion in order to enhance your future
23 rulemakings in this area. Thank you.

24 PRESIDING MEMBER PFANNENSTIEL: Thank
25 you very much for that information. We will, in

1 fact, be willing and in fact be grateful to work
2 with you on this going forward in our future
3 rulemaking.

4 Staff want to make comments on this?

5 MR. MARTIN: Yes, this is Michael
6 Martin, and Ramin and I worked actually on some of
7 these things. We do recognize that our standard
8 that we adopted in December for glass front
9 vending machines is less than satisfactory, and we
10 welcome any information that he can provide to us
11 and look forward to working with him on this.

12 The same applies to beverage vending and
13 beverage refrigerators with no doors that was a
14 problem and is part of this directive that you
15 gave us to act on that we haven't acted on yet,
16 and I am hopeful that working with Southern
17 California Edison, we can come up to a good
18 solution on that problem too.

19 I welcome Ramin's assistance here.

20 PRESIDING MEMBER PFANNENSTIEL: Thank
21 you, Michael. I agree on the issue of the
22 doorless refrigerators also, I think that is a
23 separate problem.

24 MR. FARAMARZI: We're really excited
25 about that too ourselves, we would be more than

1 happy to work with you. Thank you.

2 PRESIDING MEMBER PFANNENSTIEL: Thank
3 you very much.

4 Other public comment?

5 MR. EILERT: Good morning, my name is
6 Pat Eilert, and I work for PG & E. I would just
7 like to state for the record that PG & E is well
8 aware of the changes being proposed today. We
9 have reviewed them and we support them.

10 In addition, I would just like to
11 reiterate since there is a bit of controversy in
12 the news again about reporting data submittals,
13 that they are very important to PG & E's and the
14 other IOU's programs. We need to know exactly how
15 various appliances respond relative to one
16 another, and we need baselines to make these
17 programs work.

18 Thank you very much.

19 PRESIDING MEMBER PFANNENSTIEL: Thank
20 you, Pat.

21 Are there other public comment, anybody
22 else in the audience? Is there anybody on the
23 phone? No. Last comments, Jim or Michael?

24 MR. MARTIN: I was mentioning to Jim
25 when you have a small audience like this, your

1 first worry is whether the notice went out. After
2 that, you feel pretty good that you didn't do
3 anything that made people want to come across
4 town, 3,000 miles to come and tell you how badly
5 you did it, so I think Jim did a fabulous job on
6 this staff report.

7 PRESIDING MEMBER PFANNENSTIEL: Yes, I
8 would hope and I believe that the lack of
9 controversy does reflect our good staff work on
10 this, so I appreciate this. From the
11 Commissioner's standpoint, it is much easier to go
12 forward with this kind of excellent work on this.
13 So, thank you very much.

14 The next step then will be a public
15 hearing before the entire Commission, which is
16 scheduled now for the Commission meeting of August
17 10 I believe. With that, hearing no other issue,
18 we will be adjourned.

19 (Whereupon, at 10:30 a.m., the
20 public hearing was adjourned.)

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CERTIFICATE OF REPORTER

I, SEAN WILLARD, an Electronic Reporter, do hereby certify that I am a disinterested person herein; that I recorded the foregoing California Energy Commission Public Hearing; that it was thereafter transcribed into typewriting.

I further certify that I am not of counsel or attorney for any of the parties to said public hearing, nor in any way interested in outcome of said public hearing.

IN WITNESS WHEREOF, I have hereunto set my hand this 30th day of July, 2005.

Sean Willard