



Commissioners Present

Robert B. Weisenmiller, Chair  
Karen Douglas  
David Hochschild  
Andrew McAllister  
Janea Scott

Staff Present:

Michael Levy, Chief Counsel  
Pippin Brehler, Chief Counsel's Office  
Alana Mathews, Public Advisor's Office

	<u>Item No.</u>
Mary Dyas	3
Martha Brook	4
Rashid Mir	5
Christine Collopy	6
Haile Bucaneg	7
Jim Holland	8
Marcia Smith	9
Chris Kavalec and Caryn Holmes	10
Sylvia Bender	11
Peter Strait	12
Steven Mac	13
Bill Kinney	14
Phil Cazal	15
Michelle Tessier	16
Michelle Tessier	17
Lindsee Tanimoto	18
Sarah Williams	19
Andre Freeman	20
David Hungerford	21
Michael Sokol	22

Also Present (\* Via WebEx/Phone)

Public Comment

Patrick Splitt, Aptech  
\*Craig Wheatley, Integrated Environmental Solutions (IES)  
\*Todd Lukesh, IES West Coast, San Francisco  
\*Timothy Moore, IES  
Charlie Bashand, CalcERTS, Inc.  
Bob Raymer, Building Industry Association  
Kelly Sherfey, California Building Officials (CALBO)  
Dave Faiella, Midway Sunset Cogeneration Company

Public Comment (Continued)

Mike Bashand, CalCERTS, Inc.  
Richard Sepulveda, Sanger Unified School District  
Kevin Edwards, Sanger Unified School District  
Rick Brown, Terra Verde  
Bill Pucheu, Mendota Bioenergy LLC  
Jeff Cox, South Coast Air Quality Management District  
\*Joanne Stewart, Los Angeles Economic Development  
Corporation  
\*Michael Boehm, Advanced Sustainability Institute  
Linda Hui, Bay Area Air Quality Management District  
Patricia Kwon, South Coast Air Quality Management District  
\*Gail Haratunian, Fresno State University  
\*Dr. David Blekhman, Professor at Cal State L.A.  
Valerie Wynn, Pacific Gas and Electric Company (PG&E)  
Dr. Chang Yul Cha, CHA Corporation  
\*Peter Sinsheimer, University of California Los Angeles  
\*Dan Poppe, H2 Frontier  
\*Paul Staples

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P R O C E E D I N G S

MAY 14, 2014 10:08 a.m.

CHAIRMAN WEISENMILLER: Good morning.

Let's start the Business Meeting with the Pledge of Allegiance.

(Whereupon, the Pledge of Allegiance was recited in unison.)

CHAIRMAN WEISENMILLER: Before we start, I've got some housekeeping on the Agenda, basically shuffling the order generally and another change.

First of all, Item 6 will actually move before Item 4, it is information; and similarly, Item 9 will basically move before 8; and then finally, for Item 10, I'm going to drop the second part of that delegation, and so then move the first part to the Consent Calendar, it's dealing with some Errata, so more technical in nature. And Item 2, again, will be held for the next meeting.

So with those changes, again, six before four, nine before eight, and 10 dropping Part 2, and moving Part 1 into the Consent.

COMMISSIONER DOUGLAS: Okay, so with those changes, I will move approval of the

1 Consent Calendar, including Item 10(1).

2 COMMISSIONER MCALLISTER: I'll second.

3 CHAIRMAN WEISENMILLER: Okay. All those  
4 in favor?

5 (Ayes.) So the Consent Calendar is  
6 approved 5-0.

7 CHAIRMAN WEISENMILLER: So again, Item 2  
8 we're not dealing with today, so let's go on to  
9 Item 3. Mary Dyas, please.

10 MS. DYAS: Good morning, Commissioners.  
11 My name is Mary Dyas. I'm the Compliance Project  
12 Manager for the Midway Sunset Cogeneration  
13 Company Project. With me this morning is Kevin  
14 Bell, Senior Staff Counsel, and technical staff  
15 is also in attendance.

16 The Midway Sunset Cogeneration Project is  
17 a 225 megawatt cogeneration power plant that uses  
18 cogeneration steam to aid in the enhanced oil  
19 recovery process. The project is located in  
20 Fellows, Kern County. The project was certified  
21 by the Energy Commission on May 14, 1987 and  
22 began commercial operation on May 1, 1989.

23 On November 21, 2013, the Midway Sunset  
24 Cogeneration Company filed a petition with the  
25 California Energy Commission, requesting to

1 upgrade the existing Dry Low-NO<sub>x</sub> combustion  
2 systems of Units A and B, to have the latest  
3 revision Dry Low-NO<sub>x</sub> 1 plus turndown enhanced  
4 combustion systems. The upgraded systems will  
5 allow Midway Sunset to meet the permitted 5 ppm  
6 oxides of nitrogen emission limit when operated  
7 in non-cogeneration bypass mode as peaking units,  
8 without the use of selective catalytic reduction,  
9 and allow more flexibility to operate at reduced  
10 loads.

11           The proposed modification includes  
12 leaving the selective catalytic reduction grid  
13 and ammonia injection system intact as a backup  
14 NO<sub>x</sub> reduction option if needed when either unit  
15 is operated in cogeneration mode.

16           The requested modifications will also  
17 accommodate the declining steam demands of Midway  
18 Sunset's steam host while maintaining the  
19 availability of electric power to the grid with  
20 Units A and B operating as peaking units when  
21 cogeneration is not required.

22           The proposed project changes pertaining  
23 to the requested upgrade include additional  
24 language to existing Air Quality Conditions of  
25 Certification, AQ49, AQ52, and AQ53. In

1 addition, staff is proposing administrative  
2 changes to the following Air Quality Conditions  
3 of Certification applicable to the current  
4 project: AQ5, AQ8, AQ9, AQ19, AQ26, and AQ35 have  
5 been modified or deleted to update outdated  
6 language that no longer applies to the current  
7 facility, and AQ22 have been updated to reflect  
8 current reporting requirements, and AQ6 and AQ7  
9 would bring the facility into compliance with  
10 current operating requirements.

11           A Notice of Receipt for this Petition to  
12 Amend was mailed to the Midway Sunset Post-  
13 Certification Mail List, docketed and posted to  
14 the Web on December 5, 2013. Staff's analysis of  
15 the Petition to Amend was docketed and posted to  
16 the Web on April 2, 2014. The public comment  
17 period ended on May 2, 2014, and no comments have  
18 been received.

19           Staff is recommending approval of the  
20 requested modification for installation of the  
21 Dry Low-NO<sub>x</sub> 1+ Turndown Enhanced Combustors in  
22 Units A and B to allow Midway Sunset to operate  
23 in either simple cycle or cogeneration modes.  
24 The proposed modifications will not result in a  
25 significant adverse direct or cumulative impact

1 to the environment pursuant to Title 20  
2 California Code of Regulations, Section 1769.

3 Staff also recommends approval of the  
4 proposed changes to the Air Quality Conditions of  
5 Certification. There would be no change in  
6 permitted emission limits at Midway Sunset, and  
7 with the proposed changes to the Conditions of  
8 Certification, the project would continue to  
9 comply with all applicable laws, ordinances,  
10 regulations, and standards. Thank you.

11 CHAIRMAN WEISENMILLER: Thank you.  
12 Applicant?

13 MR. FAIELLA: Oh, we have nothing to say,  
14 thank you.

15 CHAIRMAN WEISENMILLER: Okay, thank you.  
16 Commissioners, any questions or comments?

17 COMMISSIONER DOUGLAS: I have no  
18 questions. I'll just say that I reviewed this  
19 Proposed Amendment, I don't have any concerns,  
20 and I would recommend it for our approval. If  
21 there are questions, let's take them. If not,  
22 I'll make a motion.

23 All right, well, I'll move approval then  
24 of Item 3.

25 COMMISSIONER HOCHSCHILD: Second.

1                   CHAIRMAN WEISENMILLER: All those in  
2 favor?

3                   (Ayes.) This item passes 5-0. Thank  
4 you, Mary.

5                   CHAIRMAN WEISENMILLER: Let's go on now  
6 to Item 6. 2013 Building Energy Efficiency  
7 Standards. Christine Collopy, please.

8                   MS. COLLOPY: Good morning, Chair and  
9 Commissioners. I am Christine Collopy, I am  
10 Deputy Division Chief of the Efficiency Division.  
11 I am here today to provide you with a status  
12 update of the implementation of the 2013 Building  
13 Energy Efficiency Standards effective July 1,  
14 2014.

15                   Six months ago, I sat before you  
16 requesting a change in the effective date of the  
17 2013 Building Energy Efficiency Standards from  
18 January 1st to July 1st, 2014. At that time, we  
19 had heard overwhelming comments from the building  
20 industry that they did not have the complete set  
21 of performance compliance software tools, and  
22 they had not received the training they needed to  
23 fully understand and use the public domain  
24 compliance software for the 2013 Building  
25 Standards.

1 I am pleased to report that we have  
2 before you today two items for your consideration  
3 that makes the Energy Commission read to fully  
4 implement the 2013 Building Standards on July  
5 1st: the approval of the Integrated Environmental  
6 Solutions, 2013 Nonresidential Compliance  
7 Software, and CalcCERTS, Inc. as a HERS Provider.

8 I am also happy to report that the Energy  
9 Commission, along with its utility partners, are  
10 offering a variety of training courses to ready  
11 the industry for July 1. This process has been a  
12 big lift and we thank the Energy Commission  
13 staff, Executive Office Commissioners, the  
14 utilities, our contractors, private vendors, and  
15 building industry professionals, who have helped  
16 the Energy Commission develop, test, and  
17 implement the 2013 standards software and tools.

18 July 1st is a big day for the California  
19 Building Industry. It is an unprecedented time  
20 for the Building Energy Efficiency Standards.  
21 With the 2013 Standards comes a new era with  
22 public domain compliance software tools utilizing  
23 electronic forms to help providers collect  
24 consistent and accurate information about  
25 buildings and their performance, and standards

1 that prepare California for Zero Net Energy goals  
2 as we look forward to the 2016 Standards and  
3 beyond.

4           Commissioners, the 2013 Energy Standards  
5 are adopted, software if available, a HERS  
6 provider is being considered today for your  
7 approval, and training is now available  
8 statewide. The Energy Commission is ready to  
9 fully implement the 2013 Standards as of July 1.

10           July 1st is also just 60 days away, and  
11 implementation is in fully swing and that  
12 momentum is building. The time is now for all  
13 building professionals -- builders, building  
14 departments, energy consultants, architects,  
15 contractors and raters, to get fully prepared for  
16 July 1. This presentation will provide you with  
17 information about implementation of the 2013  
18 Building Standards.

19           There are significant changes with the  
20 2013 Building Standards. Beginning July 1, the  
21 Standards will have 20 percent greater savings  
22 and residential improvements compared to 2008.  
23 They will have 30 percent greater savings than  
24 nonresidential improvements compared to 2008.  
25 It's the first update to address Zero Net Energy

1 goals. It includes photovoltaics in the Building  
2 Energy Standards for the first time as a  
3 compliance option. Also included for the first  
4 time are energy saving measures in supermarkets,  
5 parking garages, commercial kitchens, and in  
6 laboratory spaces.

7           The biggest lift for the 2013 Building  
8 Energy Efficiency Standards implementation was  
9 redeveloping the reference methods for all  
10 residential and non-residential compliance  
11 software programs. The Energy Commission  
12 introduced for the first time public domain  
13 software called CBECC, which stands for  
14 California Building Energy Code Compliance.  
15 CBECC software is available for both residential  
16 and nonresidential buildings. It is called CBECC  
17 Residential (Res), using the California  
18 simulation engine, and CBECC Commercial (Com),  
19 using EnergyPlus.

20           The CBECC platform provides more  
21 consistent simulation results and facilitates  
22 compliance analysis within third party building  
23 energy design tools. The software also provides  
24 electronic compliance information and the 2013  
25 Standards require for all residential compliance

1 documents to be electronically registered with a  
2 HERS Provider Data Registry when HERS field  
3 verification is required.

4           Having the Standards software simulation  
5 engine standardized will help future standards  
6 development, measures, analysis, enforcement, and  
7 evaluation efforts.

8           The 2013 Building Energy Efficiency  
9 Standards set the stage for the state to meet  
10 Zero Net Energy goals, which include all new  
11 residential construction in California to be Zero  
12 Net Energy by 2020, and all new nonresidential  
13 construction in California to be Zero Net Energy  
14 by 2030.

15           The 2016 and 2019 Building Energy  
16 Efficiency Standards will include measures to get  
17 the state closer to achieving Zero Net Energy in  
18 newly constructed buildings. The 2016 Building  
19 Standards will cover measures that were not  
20 included in the 2013 Standards such as improved  
21 insulation in attics or ducts in conditioned  
22 spaces, improved insulation in walls, tankless  
23 water heaters, more efficient lighting, and  
24 photovoltaic credit.

25           The Energy Commission's 2013 Public

1 Domain Compliance Software, CBECC Com and CBECC  
2 Res, consist of two tools, one is for low-rise  
3 residential buildings and the other is for high-  
4 rise residential and nonresidential buildings.  
5 Together these software tools provide energy  
6 analysts with best practice methods of estimating  
7 energy use in buildings. Both CBECC Res and  
8 CBECC Com are approved and available in the  
9 market today.

10 Private vendor software for both  
11 residential and nonresidential buildings is also  
12 approved and available for use. EnergyPro  
13 Version 6.1 for Residential Buildings as an  
14 alternative calculation method for demonstrating  
15 performance compliance with residential  
16 provisions of the 2013 Standards, and Integrated  
17 Environmental Solutions, also known as IES,  
18 Virtual Environment 2013 for Nonresidential  
19 Buildings is before you today for your  
20 consideration. IES Virtual Environment 2013 is  
21 an alternative calculation method for  
22 demonstrating performance compliance with  
23 Nonresidential provisions in the Building  
24 Standards.

25 Those that need to comply with the 2013

1 Standards now have various compliance software  
2 options. Some are new and some are very  
3 different, and we are working to educate the  
4 industry on their options.

5           Commissioners, before you today is an  
6 application from CalCERTS, Inc. to be approved to  
7 be the first Home Energy Rating System or HERS  
8 provider for newly constructed buildings and  
9 alternations to existing buildings for the 2013  
10 Building Standards.

11           There have been months of work between  
12 CalCERTS and Energy Commission staff to get the  
13 first 2013 HERS Provider on the agenda for your  
14 approval today. The Energy Commission thanks  
15 CalCERTS for working hard to get approved prior  
16 to the July 1 effective date. By having an  
17 approved HERS Provider, residential compliance  
18 documentation for 2013 projects can now be  
19 registered. An approved provider also makes  
20 raters available for field verification for 2013  
21 projects undertaken.

22           The Acceptance Testing Technicians  
23 Certification Program, also known as ATTCP, is  
24 new with the 2013 Building Standards from  
25 Lighting and Mechanical Acceptance Testing for

1 nonresidential buildings. Acceptance Tests are  
2 targeted functional tests that ensure equipment  
3 controls and systems operate as required by the  
4 Building Standards. Acceptance Testing became  
5 mandatory in 2005 for all newly installed HVAC  
6 and lighting systems, but for the 2013 Building  
7 Standards the Energy Commission is certifying  
8 ATTCPs to train and certify technicians to do the  
9 Acceptance Tests. The ATTCP is also required to  
10 track the work of the technician and to conduct  
11 quality assurance testing on the certified  
12 technicians. At this time, any licensed  
13 individual can conduct an Acceptance Test, a  
14 contractor, a commissioning agent, or certified  
15 technician.

16           Once the Energy Commission determines  
17 that a specific threshold has been met, then only  
18 certified technicians will be allowed to conduct  
19 the Acceptance Test. The specific threshold that  
20 must be met requires that enough certified  
21 technicians are available throughout the state  
22 and that most of the individuals who would be  
23 interested in becoming a certified technician  
24 have been contacted and given the opportunity to  
25 be trained.

1           An industry certification threshold  
2 report for lighting has been submitted by the  
3 California Advanced Lighting Control Training  
4 Program, CTP, and is under review by the Energy  
5 Commission.

6           At this time, Cal CTP has been approved  
7 to train and certify technicians for lighting.  
8 Three additional ATTCP applications have been  
9 submitted to the Energy Commission and are under  
10 review. For lighting, it's the National Lighting  
11 Contractor's Association of America, or NLCAA,  
12 and for Mechanical, it's the Testing Adjusting  
13 and Balancing Bureau, or TAB, and the National  
14 Environmental Balancing Bureau, or NEBB.

15           The Energy Commission has offered an  
16 early adopter program to builders who want to  
17 build now under the 2013 Building Standards. The  
18 Energy Commission coordinates with enforcement  
19 agencies and CSLB to partner with progressive  
20 builders meeting the 2013 Building Standards  
21 early. After a 2013 Building Standards HERS  
22 Provider is approved, HERS Raters must register  
23 any compliance documents completed through the  
24 early adopter program with the new HERS Provider.

25           Momentum for the 2013 Building Energy

1 Efficiency Standards is building. Partners are  
2 helping the Energy Commission by offering  
3 presentations and classroom training for the 2013  
4 Building Standards, as well as the compliance  
5 software. The utilities will add more training  
6 as demand for these classes increase, so we are  
7 encouraging people to please sign up for training  
8 today, and there are links on the Energy  
9 Commission's website to the Utilities' websites.

10 The Energy Commission also has available  
11 online self-paced Energy Standards webinars for  
12 you to review at any time. The Energy Commission  
13 also has links to our website to the CBEC Com  
14 Software How-To Videos for you to also review at  
15 a time that is good for you.

16 The IOUs, as part of the California  
17 Statewide Codes and Standards Program, offers  
18 Energy Code Ace which is a new website that  
19 offers free tools, training and resources to  
20 building industry professionals, which aims to  
21 advance the adoption and effective implementation  
22 of the 2013 Building Standards, and it's to lock  
23 in that long term energy savings. The program is  
24 funded through the Public Utilities Commission  
25 and is offered through Pacific Gas and Electric,

1 San Diego Gas and Electric, Southern California  
2 Edison, Southern California Gas, and these are  
3 all in support of the Energy Commission's  
4 programs.

5           The Energy Commission and utility  
6 partners offer presentations to many  
7 professionals in the building industry including  
8 CALBO Education Week, the International Code  
9 Council Chapter Meetings, and local enforcement  
10 agency presentations. The Energy Commission  
11 communicates opportunities for training and  
12 presentations through Listservs and email blasts.  
13 We are sending at least two Listserv  
14 announcements every week and information may also  
15 be found on the Energy Commission's website.  
16 Energy Commission staff also attend local events  
17 to provide information about the 2013 Standards  
18 and software. We were recently seen at the  
19 California Green Summit and SMUD's Home Energy  
20 Efficiency Expo.

21           Utility partners sponsor many energy-  
22 related trainings throughout the year and we are  
23 really grateful to them for this. They offer  
24 training in a lot of different ways: classroom  
25 training, on-the-job training, they have web-

1 based training, an on demand training if you work  
2 with their Ace team. We want people to know that  
3 it's really important, that they can train at any  
4 utility across utility territory, it doesn't have  
5 to be just in their territory.

6           The 2013 Nonresidential Compliance  
7 Software Training is now available across the  
8 state. CBBEC Com classroom training is happening  
9 in the Utilities' territories. Southern  
10 California Edison is offering a class in May and  
11 June, there are two classes in June from PG&E in  
12 San Francisco, San Diego is having a CBBEC Com  
13 class in June, and SMUD here in Sacramento is  
14 offering a class in July. A reminder again that  
15 the CBBEC Com How-To Videos are available on the  
16 Energy Commission's website, or a link is  
17 available on our website for folks to participate  
18 in those at any time that is convenient for them.  
19 More training will be scheduled as demand for  
20 these classes increase. I just repeat that  
21 please sign up for training so that we can have  
22 more classes offered.

23           The 2013 Residential Compliance Software  
24 Training is also now available throughout the  
25 state. Classroom training is being offered by

1 the Utilities and they're offering EnergyPro 6.1  
2 for beginners, and Advanced EnergyPro 6.1.  
3 Classes are currently scheduled in Southern  
4 California Edison territory, San Diego Gas and  
5 Electric, and Pacific Gas and Electric territory.  
6 Again, more training will be scheduled as demand  
7 increases.

8           The Energy Commission is offering  
9 webinars to help Building industry professionals  
10 to transition to the 2013 Building Energy  
11 Efficiency Standards; one will be offered on May  
12 15th and on May 20th. Additional Energy  
13 Commission hosted webinars will be offered in  
14 June related more specifically to the CBEC  
15 Compliance Software. There will be webinars on  
16 June 3rd and June 9th related to CBEC Res, and  
17 June 6th and June 12th related to CBEC Com.  
18 Please join the Energy Commission Listservs to  
19 receive announcements about the webinars and  
20 other training opportunities.

21           The Title 24 Energy Standards Hotline  
22 receives calls from many different types of  
23 individuals working in the building industry.  
24 From January to April in 2014, the Hotline  
25 received over 2,000 calls. Of those calls, 1,000

1 of them were from contractors. Other high volume  
2 callers are building owners, Building  
3 Departments, and energy consultants, engineers,  
4 and architects. The calls received are related  
5 to both the 2008 and the 2013 Standards, and the  
6 highest volume topic areas include questions  
7 related to forms, Heating, Ventilation and Air-  
8 Conditioning, and lighting.

9           The Energy Commission also publishes a  
10 "Blueprint Newsletter" and we do that on a  
11 quarterly basis. The "Blueprint" includes  
12 information related to implementation of the  
13 Building Standards and other topics of interest.  
14 We encourage everyone to sign up for the  
15 "Blueprint" Listserv to receive the next edition.

16           To receive up-to-date announcements about  
17 the 2013 Building Standards and Compliance  
18 Software, join an Energy Commission Listserv.  
19 Listservs are applicable to implementation of the  
20 Standards and include the following titles:  
21 "Building Standards," "Efficiency," and  
22 "Blueprint." You can sign up for a Listserv and  
23 learn other information about the 2013 Standards  
24 by visiting the Energy Commission's website.

25           If the 2013 Building Energy Efficiency

1 Standards impact you, get prepared now for the  
2 July 1 effective date. Take a training class,  
3 visit our website, or call our hotline.

4 Thank you very much, Commissioners.

5 CHAIRMAN WEISENMILLER: Thank you. We  
6 have one public comment and then we'll go to  
7 questions. Pat Splitt.

8 MR. SPLITT: Good morning, Commissioners  
9 and everyone. I'm Pat Splitt, I'm an Energy  
10 Consultant from Aptech in Santa Cruz and, well,  
11 actually I have two comments; one has to do with  
12 the Acceptance Testing Certification. There are  
13 Lighting Controls Acceptance Test Technicians and  
14 Mechanical Acceptance Test Technicians and  
15 they're also required to certify Acceptance  
16 Employers and Acceptance Test Technical  
17 Certification Providers. And as far as the  
18 Mechanical Acceptance Test goes, there are two  
19 classes of Acceptance Testers, one that can do  
20 all the tests and one that can just do a subset  
21 of seven tests. And it's not clear what happens  
22 once there are 300 people that can do the total  
23 tests, whether those other several hundred people  
24 that can do the partial tests are still going to  
25 be allowed to do that, or they're just out? So

1 that's a question.

2           The other question is, there's supposed  
3 to be somewhere a listing, a directory, or  
4 something on a website where I can look up and  
5 see who these providers and Acceptance  
6 Technicians are that are certified so that if  
7 I'm, say, doing a project in Santa Cruz, I'd  
8 prefer, even if there weren't 300, if I'm going  
9 to have to have somebody do Acceptance Testing,  
10 I'd rather have somebody who has tested and is  
11 certified and knowing what they're doing to do  
12 the test, but I need some way of knowing who  
13 those people are. And I need to know where  
14 they're located so I know that they're actually  
15 in Santa Cruz County. So I think there's a  
16 database that's missing somewhere that we need to  
17 have. That's it.

18           CHAIRMAN WEISENMILLER: Okay, that's  
19 fine. The first one seemed to be a legal  
20 question.

21           MS. BROOK: I think that --

22           CHAIRMAN WEISENMILLER: Martha.

23           MS. BROOK: The first question was  
24 whether the people that are certified for the  
25 reduced number of tests that was part of the

1 interim approval for the Mechanical Providers  
2 would still be able to conduct those subset of  
3 tests after full approval is --

4 MR. SPLITT: Well, there is in the  
5 Regulations, first it says after there are 300  
6 people who are certified to do the entire tests,  
7 everybody, you know, just anyone can't do the  
8 tests.

9 MS. BROOK: Yeah.

10 MR. SPLITT: But before there are 300  
11 certified to do all the tests, there's a subset  
12 after that which says, "Well, if that's not the  
13 case, then there can be up to 300 people that are  
14 certified just to do seven tests."

15 MS. BROOK: Yes.

16 MR. SPLITT: So for a lot of projects,  
17 that may be all you need.

18 MS. BROOK: Right.

19 MR. SPLITT: But the question is, once  
20 you get 300 who can do everything, what happens  
21 to those people that could just do some of them?  
22 Can they still do their work?

23 MR. BROOK: Right. So I think the answer  
24 right now is probably. It depends on the  
25 applications that we receive from the Mechanical

1 Providers, and we do expect that they will submit  
2 applications that differentiate basically in  
3 technical terms "package systems" versus "built-  
4 up central plant systems" and we'll consider that  
5 in our review of the applications. And that's  
6 why I'm saying "probably," it's a little too  
7 early to say because we haven't reviewed and  
8 approved the mechanical applications yet.

9 MR. SPLITT: So will there be -- will the  
10 CEC have a database for people in like just one  
11 place to find out --

12 MS. BROOK: That's the other thing I was  
13 going to mention, is that sort of infrastructure  
14 of information is all going to be built out also  
15 at the time that the providers are approved, so  
16 one of the obligations that they have is they do  
17 have to have a public face with their  
18 providership and provide access to certified  
19 technicians that are in their domain. And we  
20 will obviously link to those websites and make  
21 all that available and put out our Listserv  
22 notices once that information is -

23 MR. SPLITT: Okay, so there will be one  
24 place, even if you don't have everything in one  
25 list, there will be one place I can go and it

1 will send me so I know where these lists will be?

2 MS. COLLOPY: Yeah. And all of that will  
3 be when we are doing the actual implementation  
4 after the approval. It's a little early to --

5 MS. BROOK: So we appreciate those  
6 suggestions and we have thought about them, and I  
7 think we're consistent with your desires.

8 MR. SPLITT: Okay. Then I just had one  
9 more comment that actually is I'm going to praise  
10 the Commission for a change (laughs). I've been  
11 really bugging the staff on the new Residential  
12 software to allow some newer types of equipment,  
13 air to water heat pumps, to be included in the  
14 calculation method, and they've actually added  
15 that in there now, and that's made me very happy.  
16 They had a few more tweaks to go, but I've been  
17 talking to many people who are going to now want  
18 to use that equipment, including a couple of  
19 Japanese companies that have some new types of  
20 air to water heat pumps that actually use carbon  
21 dioxide as a refrigerant, which has absolutely  
22 zero climate warming potential. So this change  
23 is going to allow them to sell their equipment in  
24 California.

25 COMMISSIONER MCALLISTER: Great. I want

1 to go out on a little bit of a limb and actually  
2 thank you and encourage you to keep  
3 participating. Your presence here is, I think,  
4 you know, stimulated some action and you're  
5 brought up some good questions, and you've  
6 participated in a way that I think has been very  
7 productive, so I appreciate your persistence and  
8 bringing in your hard won knowledge from out  
9 there in the world doing projects. I think that  
10 helps everybody. So thank you.

11 CHAIRMAN WEISENMILLER: This is an  
12 informational item. Any questions from the  
13 Commissioners or staff? Or comments?

14 COMMISSIONER MCALLISTER: Was there  
15 another -

16 CHAIRMAN WEISENMILLER: No, this is just  
17 informational.

18 COMMISSIONER MCALLISTER: So I wanted to  
19 just make a few comments here. I mean, that was  
20 an informational item, but as Lead on Efficiency  
21 and kind of have been in the room throughout this  
22 implementation, also certainly want to thank  
23 Commissioner Douglas for all of the effort and  
24 the very, I think, easy hand-off to me having  
25 wrapped up and tied up a lot of loose ends, and

1 made sure that the ground was well plowed for the  
2 effort of implementation that staff in her office  
3 continues to be involved in.

4           And I think those of you who are regulars  
5 at our Business Meetings have seen item after  
6 item come up on various aspects of implementation  
7 of the 2013 Energy Efficiency Building Standards  
8 and it's clearly been just a gargantuan effort on  
9 everybody's part. Lots of stakeholders have been  
10 involved, I think very productively, with their  
11 expertise and specialties really playing a part  
12 in shaping the implementation, and in some cases  
13 the timeline, and the priorities. And I have to  
14 just call out staff, and I'll just read out some  
15 of the names here of people that have been here  
16 putting their best efforts forward on this: I  
17 have to call out Drew Bohan from Executive Office  
18 for just running herd on so many issues and  
19 making sure that everybody was at the table, and  
20 pinging everybody that needed pinging probably  
21 more frequently than many of them would like, and  
22 that's kind of what it takes to get things done.  
23 And so that's been invaluable and certainly Rob's  
24 leadership and enabling of Drew to do that is  
25 much appreciated. Dave Ashuckian and Christine

1 Collopy, the leaders of the Efficiency Division,  
2 I really want to thank you both for your efforts  
3 on this front and keeping the priorities in mind  
4 and aligned. And in the Building Standards  
5 Development Office, Eurlynne and her team, Martha  
6 Brook, who you all know, and I think Cherish is  
7 an amazing resource for the State of California,  
8 I think has just been everywhere on this effort.  
9 Mazi Shirakh, as well, it's hard to overstate the  
10 role of some of the individuals in this team,  
11 just the sort of good will, persistence, good  
12 faith efforts that they show, and clearly on  
13 behalf of the State, I mean, it's really quite  
14 impressive. Jeff Miller, Todd Ferris, Seran  
15 Thamilseran, Dee Ann Ross on that same team. And  
16 in the Building Standards Implementation Office,  
17 you know, I have to call out Pedro Gomez who  
18 recently retired, Joan Walter, who is the new  
19 face of that office, Rashid Mir, Tav Commins,  
20 Nelson Pena, Suzie Chan, Ann Shimasaki, the  
21 outreach team lately in the last few months has  
22 really really bent over backwards to make sure  
23 that everybody knew what was coming and what was  
24 happening, and the training was available. Paula  
25 David, Jane Heinz, Dan Johnson, Gary Fabian. And

1 then finally, in the Legal Office, Pippin Brehler  
2 and Gaylen Lemei have also been I think somewhat  
3 thanklessly at some points, but persistently and  
4 very legally capably, to compound adverbs, I  
5 guess, just really been on top of things and I  
6 really appreciate all the effort. So from that  
7 long list of individuals, you can really see that  
8 this has been a team effort for the Energy  
9 Commission. So I'm really glad that we are where  
10 we are, so much has been done, and there's a  
11 really sound foundation now for moving forward.

12           And finally, I mean, we've talked about  
13 this in previous meetings, but I just want to  
14 remind everyone, Christine said it in her  
15 presentation, but I want to remind everyone that  
16 the lift for implementing the 2013 Standards is  
17 an uncommonly large lift, this isn't just your  
18 every run of the mill three-year cycle update,  
19 this is a refresh, this is really a rebuilding of  
20 the infrastructure in the whole system, and so  
21 standardizing on the EnergyPlus for commercial,  
22 building a new engine and standardizing on that,  
23 that's open and available for anyone to look at,  
24 those are really sea changes in the way we do  
25 business at the Energy Commission and I think are

1 really huge for not just having better products  
2 that serve their purposes better, but also making  
3 sure that we at the Commission are accountable,  
4 that we have a large community of folks who are  
5 tuned in to the infrastructure and the basis for  
6 what we do. So there's really no firewall  
7 anymore. On the commercial side, it's a DOE  
8 standard, an industry standard product that is  
9 going to persist, and it's not owned by anyone in  
10 particular, and the simulation engine, again, has  
11 been developed in an open process and will  
12 continue to be so. So I think those are really  
13 fundamental shifts that reflect a new approach at  
14 the Energy Commission and I hope that everyone  
15 appreciates that and sees where we're going with  
16 this because this is a major step in the long  
17 term vision that we have. And I want to thank  
18 the staff, particularly Martha in this case, for  
19 sort of driving that vision and having it develop  
20 and come to fruition.

21           So we have a few other items on the  
22 Building Standards, individual items that  
23 Christine mentioned, further on in the agenda,  
24 but I'll leave this item there. So thank you  
25 very much, Christine and the rest of the team.

1           COMMISSIONER DOUGLAS: I'll just step in  
2 and join Commissioner McAllister first of all in  
3 thanking the staff, and he's read off a long list  
4 of names because it's a large team, and it was a  
5 major effort, I won't do that again, but I'll  
6 join him in his thanks. And I'll add his name to  
7 the list because Commissioner McAllister brings  
8 this tremendous hands on experience in this world  
9 and knowledge of these tools, and he's just been  
10 an incredible leader in this area so far in this  
11 particular effort. This was an easy hand off in  
12 part because he got in the engine room and we  
13 worked there together. We have something of a  
14 running joke in my office about the Efficiency  
15 soccer ball that gets kicked back and forth  
16 between our offices, sometimes many times a day,  
17 and sometimes it sits in one office or the other  
18 for a little while, I think it's going to be  
19 sitting in your office increasingly, but I don't  
20 mind getting out there and kicking around a bit  
21 from time to time. It's been a fun team effort,  
22 it's been a really nice chance for me to work  
23 with Commissioner McAllister closely, and so I've  
24 enjoyed it very much. And I am very happy to be  
25 at this stage where we can say with confidence

1 that we're in a position to have all systems go,  
2 and the systems look very strong, they look very  
3 good. And they'll do what we need them to do.  
4 So I want to join staff in encouraging the  
5 industry to take advantage of trainings.

6 And finally, last but not least, I made a  
7 reference to Advisors in my office and  
8 Commissioner McAllister's office, one of whom  
9 coined the term "efficiency soccer ball," but I  
10 do want to call out Jennifer Nelson who spent  
11 many many hours on this, and I probably should  
12 have added a few more "many's," Eli Harland, and  
13 Andrew, do you want to call out your Advisors?

14 COMMISSIONER MCALLISTER: So Pat Saxton,  
15 in particular, is just sort of a Swiss army knife  
16 of energy efficiency here at the Energy  
17 Commission, so maybe we should rename him  
18 MacGyver or something, I don't know. But I'm  
19 also dating myself, I guess. But he's been  
20 really invaluable on this front and no doubt will  
21 continue to be so on implementation, and then as  
22 we engage with the 2016 really with the  
23 stakeholders. Hazel Miranda on some of the  
24 policy issues involved, it's been really  
25 terrific. And I want to call out, actually,

1 Galen Lemei in his previous life as your Advisor,  
2 who was really critical in the early stages in  
3 getting the Standards to the finish line in the  
4 first place, now in Legal. So really, very much  
5 a high priority team effort as you can all see.

6           So there's still work to be done, I mean,  
7 let's not totally get ahead of ourselves, we are  
8 in implementation. There's a growing community  
9 of energy professionals that needs to avail  
10 itself of the trainings. We have little bits and  
11 pieces that certainly will require tweaking over  
12 time, but that's part of the process, you know,  
13 software in general you could say is a bit of a  
14 moving target, and innovation comes and there's  
15 always an evolution that happens and that is to  
16 be expected. But I think we have enough options  
17 and enough pathways that we can give comfort to  
18 virtually everyone in the marketplace, and this  
19 is a relatively complex field, we're trying to  
20 save energy, we're trying to make sure that we  
21 really have the interests of the State and our  
22 broader environment in mind, as well as the  
23 participants in the building industry and the  
24 sort of broader ecosystem that that entails. So  
25 I think we are really at a moment that is to be

1 celebrated, but maybe not overstated in that we  
2 still have some stuff to do. So I think we are  
3 all aware of that around the table, I certainly  
4 know that we are all aware of that. So anyway,  
5 with that, thanks again to staff and we'll move  
6 on to the rest of the agenda.

7 CHAIRMAN WEISENMILLER: I certainly again  
8 would also like to thank the staff. I would  
9 point out that, looking at the almost 40 years of  
10 the Energy Commission, this is the biggest step  
11 of any of the Standards in terms of savings,  
12 percentage-wise. So anyway, so again, great day,  
13 July 1st.

14 So let's move on to Item 4. This is  
15 Integrated Environmental Solutions, IES, 2013  
16 Nonres Compliance Software. Martha Brook.

17 MS. BROOK: Good morning, Commissioners.  
18 You just heard from Christine about the multiple  
19 resources available to the industry to learn  
20 about, then comply with the 2013 Standards in the  
21 building projects. This item is a new  
22 opportunity for the industry to consider a new  
23 compliance software tool that can be used for the  
24 2013 Nonresidential Standards.

25 We are here today to recommend approval

1 of Virtual Environment 2013, Title 24 Feature  
2 Pack, as Nonresidential Compliance Software  
3 complying with the 2013 Building Energy  
4 Efficiency Standards. So we also ask you to  
5 consider approving the accompanying resolution.

6           Staff reviewed the software test results  
7 and documentation submitted as part of the  
8 application package for the Virtual Environment  
9 Software Tool, and we can confirm that this  
10 application meets the requirements,  
11 specifications and criteria for compliance  
12 software set forth in the 2013 Nonresidential  
13 Alternative Calculation Method Approval Manual as  
14 required by Title 24 Section 10109(C)(2). This  
15 Virtual Environmental Software, developed and  
16 marketed by Integrated Environmental Solutions  
17 (IES), includes the CBBEC Com Application  
18 Programming Interface (API). We are therefore  
19 pleased to bring this agenda item to you today  
20 for possible approval because it demonstrates a  
21 partnership between private software vendors and  
22 the Energy Commission that is now possible  
23 because of the resource investments we've made to  
24 develop the CBBEC Com API.

25           We have IES representatives on the phone

1 and they would like to say a few words next.  
2 Then together we are here to answer any questions  
3 that you have.

4 CHAIRMAN WEISENMILLER: Okay, that would  
5 be great. We also have one commenter in the  
6 room, so let's go to the phone first.

7 MR. WHEATLEY: -- and that was a company  
8 why we're doing this and why it's important to  
9 us. First, IES is over a 20-year-old label  
10 company, we've got software in 140 countries.  
11 We've enabled architects and engineers over the  
12 last 20 years to assess the sustainability of  
13 building design from the very early stages of --

14 CHAIRMAN WEISENMILLER: Okay, so I think  
15 we have Craig Wheatley, Timothy Moore, and Todd  
16 Lukesh.

17 UNIDENTIFIED SPEAKER: Hello? I think  
18 you just heard from Craig, although it seems he  
19 may have been cut off a little bit there. Todd,  
20 do we have you on the line?

21 MR. LUKESH: Yeah, I'm here. This is  
22 Todd Lukesh. I'm Vice President of IES West  
23 Coast, based in San Francisco. And I'm delighted  
24 to be here today. We worked very hard to get  
25 here. I'm just going to give you a quick

1 overview of what we're doing in terms of  
2 marketing, outreach, and support.

3           We're currently gearing up to be ready to  
4 work with all the various Utilities in  
5 California, including Southern California Edison,  
6 SMUD, PG&E, SDG&E, and working with them to  
7 develop training modules that will allows us to  
8 demonstrate what our Title 24 software can do in  
9 terms of specifically for the commercial energy  
10 modeling piece, but also as part of the holistic  
11 building performance analysis that's part of the  
12 bigger how do you get to Net Zero type modeling  
13 and software analysis.

14           We are currently partnering with AEC,  
15 Architectural Energy Corporation, in developing  
16 Code jointly, co-joint trainings, and figuring  
17 out how the best way is to strategize around  
18 that, working with various industry groups like  
19 U.S. GBC and AIA and their local chapters in  
20 developing trainings and events around that. We  
21 also will have a dedicated Title 24 website that  
22 has education about what is coming, in addition  
23 to what our software can do and the value of  
24 being able to use our software for commercial  
25 compliance. And then we also will have staff set

1 up throughout California; like I said, I'm in San  
2 Francisco, we've got someone in San Diego, and we  
3 will be staffing up as Title 24 approaches to  
4 offer training, to offer support, in office  
5 trainings, and dissemination of information. So  
6 that's basically all we're doing, where we're  
7 coming from a marketing standpoint. And I'll  
8 turn it over to Timothy.

9 MR. MOORE: I'm Timothy Moore. I'm with  
10 IES, as well. I'm a Senior Product Manager and  
11 I'd like to tell you a little bit about how we  
12 will see the IES software for Title 24 Energy  
13 Code Compliance developing further in the next  
14 year. Specifically, we will enhance the user  
15 interface and provide additional functionality  
16 beyond what we already have, which includes the  
17 3D modeling interface and the full capability  
18 that's in the CBBEC interface. We will go beyond  
19 that in the next year to offer more efficient  
20 editing of zone daylighting and system-related  
21 data in large models to provide templates for  
22 daylighting and interior lighting, integration of  
23 the Title 24 model location with our existing  
24 MaP-based locator tool, drag and drop editing of  
25 zone groups, visual representation of both air

1 side and water side HVAC systems according to  
2 user input, and a workflow navigator to aid users  
3 in completing all the necessary steps in the  
4 appropriate sequence. It will also be essential  
5 for approved exceptional methods to follow on the  
6 heels of the initial release, so that we can  
7 provide users with the means of completing Title  
8 24 compliance for HVAC systems and building  
9 design strategies that are not covered by the  
10 CBBEC Com compliance engine. And many such  
11 methods for this are already supported, very well  
12 supported by the IES Virtual Environment  
13 software, and this includes for Zero Net Energy  
14 strategies, mixed mode operation, specialized  
15 HVAC systems, and renewable energy systems and  
16 associated controls for these things.

17           Therefore, we have initiated a dialogue  
18 with the Energy Commission to clarify and to  
19 fully understand the requirement for approval of  
20 these methods using the IES Virtual Environment  
21 Software in parallel and integrated with the  
22 CBBEC Com compliance engine and reporting  
23 mechanisms that the Energy Commission has put  
24 together.

25           This will be a first for the Energy

1 Commission, so we are going to be working very  
2 closely with the CEC to ensure that this goes  
3 smoothly.

4 MS. BROOK: Thank you.

5 CHAIRMAN WEISENMILLER: Thank you.

6 Patrick, I believe you had some comments?

7 MR. SPLITT: It's Pat Splitt from Aptech  
8 again. Basically I approve your motion to accept  
9 this software. My comment has to do basically  
10 with the process. Two things: 1) there's  
11 supposed to be a finding by the Executive  
12 Director that all the requirements have been met  
13 for approval, and while if we look at the  
14 CalCERTS items, there actually is the format and  
15 the documentation that's required as far as  
16 certification by the Executive Director. But  
17 there isn't anything like that for this software,  
18 or even for the previous EnergyPro, and probably  
19 won't be for whatever might be happening next  
20 month. And there's supposed to be, according to  
21 your own rules and regulations, a 60-day public  
22 review period before you accept this software.  
23 And of course, it's too late to do that, and  
24 while normally I am a stickler for the letter of  
25 the law, and having you guys do exactly what you

1 have to do, I'll limit that to having the  
2 Executive Director fill out a form and stick it  
3 in the Docket for that item. But I'd propose,  
4 and I talked to staff earlier a little bit about  
5 an alternative to the actual requirement of a 60-  
6 day before you approve, of for all the ACMS  
7 coming up with a 60-day review period that starts  
8 July 1st, so that for at least this software  
9 there will be a 60-day review period starting  
10 July 1st where people can comment on all of these  
11 ACMS and, at the end of the 60-day period, we'd  
12 have a public workshop and then we'd give the  
13 vendors an additional 60 days after the workshop  
14 to make any changes that might be necessary. So  
15 that's my comment.

16 CHAIRMAN WEISENMILLER: Well, thank you.  
17 We'll obviously turn to our attorneys on legal  
18 issues.

19 MR. LEVY: We're getting the Reg now,  
20 give us just a moment please.

21 CHAIRMAN WEISENMILLER: Sure.

22 MR. BREHLER: Good morning,  
23 Commissioners. This is Pippin Brehler in the  
24 Chief Counsel's Office. I don't believe that the  
25 requirements for the findings are there for the

1 exceptional methods and the software, there  
2 certainly is for the HERS software and that's why  
3 it's part of the CalcERTS item, but I don't  
4 believe it is the same requirement. Sections 10-  
5 109 or 10-110.

6 MR. SPLITT: 10-110 includes anything  
7 that's adopted, and 10-109, and the ACMS are part  
8 of 10-109.

9 MR. BREHLER: That's right and what those  
10 requirements say are that the application has to  
11 be made available, and we've posted that  
12 information on our website, I believe.

13 MR. SPLITT: And that there has to be a  
14 60-day public review before we have this  
15 approval. I'm not trying to blow this away, I'm  
16 just --

17 CHAIRMAN WEISENMILLER: Well, again,  
18 thank you. But, again, this is a legal question.  
19 Obviously I'm not an attorney, you're not an  
20 attorney either, so the question -

21 MR. SPLITT: I was in a former life,  
22 though, and this is my punishment.

23 CHAIRMAN WEISENMILLER: Oh, okay. But  
24 anyway, we'll let those two gentlemen come back  
25 and tell us precisely what we can do and how to

1 fix it.

2 COMMISSIONER MCALLISTER: I would also  
3 just point out that the review of the software,  
4 you know, it can be ongoing. I mean, anyone who  
5 finds anything in the software that they want to  
6 suggest, you know, it goes into a bucket and we  
7 manage that in real time as we go forward. So  
8 maybe staff can expand on that.

9 MS. BROOK: Yeah, we definitely have been  
10 reacting in real time to comments on the software  
11 and our vendors who have already included our API  
12 have passed along comments they get because  
13 they're working directly with their clients. And  
14 so this is a new relationship where they're kind  
15 of fielding comments that are actually about the  
16 API, not about their software, and we're fielding  
17 those comments as well. I personally don't see  
18 anything wrong with having a workshop about the  
19 software, in fact, we are for the 2016 Standards  
20 going to have a workshop on the software in our  
21 plans for 2016. We potentially could use some of  
22 that time to talk about any issues about the  
23 current software and better ways to move forward.  
24 One of the things we did implement for 2013 is we  
25 moved the software specification document into a

1 guideline, so it's a living document. So we  
2 actually don't have to wait until another  
3 rulemaking to make changes to the software if  
4 they are needed. So we do have the flexibility  
5 to receive comments on an ongoing basis and  
6 respond to those with software updates throughout  
7 the Standard implementation period.

8 CHAIRMAN WEISENMILLER: But why don't we  
9 just keep this item on hold, go to 5, and then at  
10 the conclusion of 5, we'll get our legal to  
11 advise. So let's go on to 5, CalCERTS. Rashid  
12 Mir, please.

13 MR. MIR: Good morning, Chairman and  
14 Commissioners. I'm Rashid Mir of the Standards  
15 Implementation Office in the Efficiency Division.  
16 Three Home Energy Rating System (HERS) Providers  
17 were previously approved for the 2008 Building  
18 Energy Efficiency Standards and are required by  
19 Regulation to return for approval for the 2013  
20 Standards.

21 CalCERTS is the first of the three HERS  
22 Providers for which we are requesting approval,  
23 and we will be bringing the other two to future  
24 business meetings when they meet the  
25 requirements. Staff is requesting Commission

1 approval of CalcCERTS as a HERS Provider to  
2 oversee HERS Raters conducting field verification  
3 and diagnostic testing for newly constructed  
4 buildings and alterations to existing buildings  
5 for the 2013 Building Energy Efficiency  
6 Standards, and the CalcCERTS HERS Data Registry as  
7 a Residential Data Registry. Staff has reviewed  
8 the CalcCERTS HERS Provider application, including  
9 the training material, and determined that they  
10 meet the requirements of the 2013 Building Energy  
11 Efficiency Standards, and the HERS Regulations.  
12 We have also tested the CalcCERTS Data Registry  
13 and determined it meets the requirements in the  
14 2013 Standards of a Residential Data Registry,  
15 subject to the Conditions of Certification agreed  
16 to by CalcCERTS in the Executive Director  
17 recommendation.

18           Based on this information, staff asks for  
19 you to confirm the Executive Director's findings  
20 and to adopt his recommendations with CalcCERTS'  
21 agreement to the Conditions of Certification to,  
22 1) certify CalcCERTS as a HERS Provider for field  
23 verification and diagnostic testing for newly  
24 constructed buildings and alterations to existing  
25 buildings, as required by the 2013 Building

1 Energy Efficiency Standards, and 2) certify the  
2 CalcERTS HERS Data Registry as a Residential Data  
3 Registry as required by the 2013 Building Energy  
4 Efficiency Standards.

5 The Efficiency Lead Commissioner has  
6 reviewed this item. Thank you. I am available  
7 for any questions and Mike Bashand and Charlie  
8 Bashand from CalcERTS would like to make a  
9 statement.

10 CHAIRMAN WEISENMILLER: Sure. Mr.  
11 Bashand, please. We have a number of public  
12 comments, but let's start with you.

13 MR. BASHAND: Good morning,  
14 Commissioners. My name is Charlie Bashand, I'll  
15 be very brief. We are in favor of approval. We  
16 very much appreciate the opportunity to be the  
17 first provider out there. We want to thank  
18 staff, you've listed a long list of names, and I  
19 nodded my head with almost every one of them,  
20 they've been very diligent and very hard working.  
21 They've held us to a high standard, but they've  
22 also been very communicative with us and we  
23 appreciate that very much.

24 And so we're looking forward to the  
25 opportunity to support the 2013 Standards come

1 July 1st, and we thank you.

2 CHAIRMAN WEISENMILLER: Thank you. Thank  
3 you for being here. Bob Raymer.

4 MR. RAYMER: Thank you, Mr. Chairman and  
5 Commissioners. I'm Bob Raymer, Senior Engineer  
6 with the Building Industry Association. And  
7 we're in strong support of today's approval of  
8 CalCERTS' program. We understand that there's  
9 one or more other programs out there that's  
10 looking forward to approval, as well, we're  
11 really looking forward to having all of this in  
12 place and working smoothly. And I realize we're  
13 talking about sort of an integrated system. I  
14 did want to get up and speak at the previous  
15 items, but all this stuff interacts with each  
16 other. In particular, we'd like to be very  
17 thankful of staff's getting the early adopter  
18 program up and running, getting CalCERTS  
19 approved, getting others approved, this will  
20 helps us as we move forward to the 2016  
21 Regulations. A very interesting thing happened  
22 this time around, and that is we had a large  
23 number of production builders that wanted to show  
24 compliance with the new Regs early. The  
25 administrative logistics wasn't in place at that

1 time, and so we implemented the Early Adopter  
2 Program, however, having said that, it's not just  
3 the energy efficiency benefits to the state that  
4 are accrued here, having all the administrative  
5 -- if you want to call it bureaucracy or the  
6 system in place -- early on, well before the  
7 effective date of the new standards, is also very  
8 helpful to both the builder and the Building  
9 Department primarily, for example, if I've got a  
10 300-unit project and I'm going to be building out  
11 over the next year and a half to two years, it  
12 may well serve administrative purposes well to  
13 effectively submit permit applications for the  
14 new Regs at a particular time that may be six to  
15 eight months prior to the effective date of those  
16 standards. If I don't do that, right now many of  
17 the Building Departments want you to submit under  
18 the old regulations, the stuff that's currently  
19 in place, which means when that new effective  
20 date rolls around, I have to resubmit the same  
21 exact paperwork for all of the new buildings that  
22 are going to take place after that effective  
23 date; effectively, I have to double the amount of  
24 paperwork here. We've got lots of examples of  
25 entities that wanted to try to get their permits

1 submitted under the new Regs back in August and  
2 September, fortunately the Early Adopter Program  
3 has helped sort of ease that situation, and  
4 clearly the Herculean effort that staff and  
5 others have put into this. I think as we go  
6 forward in the 2016 Regs, a lot of these problems  
7 will become non-problems.

8           So with that, we're very grateful and we  
9 hope to receive your approval today. Thank you.

10           CHAIRMAN WEISENMILLER: Thank you. Mr.  
11 Splitt again.

12           MR. SPLITT: Pat Splitt from Aptech. I  
13 also support the adoption of CalcERTS. I had two  
14 questions, though. I pointed out earlier that in  
15 this packet we actually did have the  
16 certification from the Executive Director;  
17 however, after his signature there was a  
18 Condition of Certification, sort of an addendum  
19 that was slipped in there maybe? And it  
20 basically states that the remaining Certificates  
21 of Compliance, Certificates of Installation, and  
22 Certificates of Verification will be provided by  
23 December 31, 2014, not July 1st. So that looks  
24 like pretty much anything, so I'm wondering what  
25 actually are we going to be able to use the

1 database for on July 1st. That's my first  
2 question.

3 CHAIRMAN WEISENMILLER: Actually, why  
4 don't you go through all your questions and we'll  
5 ask people to deal with them in sequence.

6 MR. SPLITT: Okay. What's the next one?  
7 So the other thing is, it was mentioned that this  
8 database can be used for additions, and some  
9 alterations also, well, whereas for new buildings  
10 most people in residential use Performance  
11 Method, and for additions and alterations, a lot  
12 of them do use prescriptive. And those have to  
13 be uploaded to the Registry. So I'm wondering if  
14 there's some way of uploading these to the  
15 Registry when, as far as I know, the Commission  
16 requires that there be certified software that  
17 has to be used to upload prescriptive forms to  
18 the Registry. And I haven't heard that there is  
19 any such thing. So will it be possible July 1st  
20 to actually do prescriptive compliance for  
21 additions and alterations and upload it to a  
22 registry? So those are my two questions.

23 CHAIRMAN WEISENMILLER: Staff, do you  
24 want to respond first to question 1 and then to  
25 question 2?

1           MR. MIR: So just a clarification, page  
2 11 of the Executive Director Recommendation lists  
3 that the Conditions of Certification are part of  
4 the item, so the Executive Director signed the  
5 first part of it and CalCERTS signed the last  
6 page, so that's why there's a separate page that  
7 lays out the specific conditions, it's not  
8 something that got slipped in, it was part of the  
9 original document.

10           MR. SPLITT: I get carried away  
11 sometimes.

12           MR. MIR: That's okay. He's keeping us  
13 honest. In terms of the compliance  
14 documentation, so staff, Building Development  
15 staff and Implementation staff, looked at the  
16 forms that are needed for the 2013 Standards and  
17 identified which forms would be necessary for the  
18 effective date of the Standards, specifically for  
19 alterations, those forms are needed sooner, for  
20 newly constructed buildings, the Certificate of  
21 Compliance is required Day 1 so that you can pull  
22 the permit, and then you have to build your  
23 building, and as you're building the building,  
24 that's when you do the installation tests and the  
25 verification tests, so those documents could come

1 later. So we determined the core set of  
2 documents that were necessary as of the effective  
3 date and will handle the majority of buildings  
4 that will be used in production builders and  
5 custom homes for the Standards.

6 In terms of you were asking about  
7 prescriptive for additions in software, in the  
8 Standards there's a discussion of possible  
9 software that could be approved for submission to  
10 registries. Other than compliance software,  
11 there is no other software currently approved to  
12 submit those documents, so that software does not  
13 exist right now, so that is not a current  
14 requirement.

15 MR. SPLITT: But it is a requirement,  
16 it's a Certificate of Compliance for prescriptive  
17 compliance and we have to register that.

18 MR. MIR: For prescriptive Certificates  
19 of Compliance for alterations are part of the  
20 approval.

21 MR. SPLITT: There's no software to --  
22 how do I upload it? There's no software.

23 MR. MIR: You use the provider's registry  
24 to enter the data for --

25 MR. SPLITT: I can't enter the data. If

1 you go to your website, you have 600 pages of  
2 residential forms, not one of them can be filled  
3 out by a computer, whatever they are. I can't  
4 type in the information there, so what am I going  
5 to do? Print that thing out, fill it out by  
6 hand, copy it, send it to CalCERTS, and they're  
7 going to sit there and have somebody manually  
8 input all of that data into their database?

9 MR. MIR: So it's a similar process --

10 CHAIRMAN WEISENMILLER: Actually, why  
11 don't we have you and staff have a follow-up  
12 conversation on this with the computer forms in  
13 hand?

14 MS. COLLOPY: We're happy to have a  
15 follow-up conversation about the process.

16 MR. SPLITT: Okay.

17 MR. MIR: It's a similar process -

18 CHAIRMAN WEISENMILLER: Well, anyway, so  
19 I'd encourage you to have a follow-up process and  
20 just sort of resolve how to implement this part.  
21 Okay, so we have one more speaker, CALBO.

22 MS. SHERFEY: Hi. Kelly Sherfey from  
23 California Building Officials. We would like to  
24 keep the July 1 implementation date on track, so  
25 we definitely support the approval of CalCERTS as

1 a HERS Provider. Short and sweet.

2 CHAIRMAN WEISENMILLER: Thank you. So,  
3 please. Actually, identify yourself when you  
4 start, but go ahead.

5 MR. BASHAND: Good morning,  
6 Commissioners. I know this is an exciting moment  
7 for everybody. I just wanted to do a little bit  
8 of clarification on Mr. Splitt's concerns. We  
9 already upload prescriptive forms for 2008, it's  
10 not a form process, it's a registry process. And  
11 so he hasn't seen our new registry yet. Oh, I  
12 just said I would do that and I forgot -- hi, I'm  
13 Mike Bashand from CalCERTS, sorry for forgetting  
14 that. So the point is, you know, no users have  
15 used our site. We've redesigned the entire site,  
16 how data entry happens. Part of that is because  
17 of the way the 2013 Standards were written, what  
18 the report generator and some other issues that  
19 had not existed before, so this process will be  
20 ready as designed on time, and so nobody knows  
21 how it is, but it's not going to be writing  
22 things with a pencil and emailing them, or  
23 mailing them, or faxing them. So I just wanted  
24 to assure the public and everybody else that that  
25 process has been addressed. Thank you.

1 CHAIRMAN WEISENMILLER: Okay, thank you.

2 Again, at some point -

3 MR. SPLITT: Okay, if that is the case, I  
4 didn't realize this, but then I assume, then,  
5 since that is part of this current package, then  
6 your approval now will include certificating that  
7 part of it, so you're approving the upload method  
8 for the prescriptive method, too?

9 CHAIRMAN WEISENMILLER: Again, that's a  
10 very detailed question for staff and our  
11 attorneys to respond to, but certainly I'm not  
12 going to try.

13 MR. MIR: Yes. Those documents are  
14 uploaded and registered by the provider. Or  
15 actually the data for that document is entered in  
16 the provider's website which then registers those  
17 documents and gives those documents back to the  
18 person entering it for use.

19 CHAIRMAN WEISENMILLER: Okay, great.  
20 Thanks. So with that, Commissioners, any  
21 questions or comments?

22 COMMISSIONER MCALLISTER: I'll just again  
23 sort of a little bit of a Take Two on the issue  
24 of all the back and forth we've seen on this and  
25 just the day in and day out communication between

1 the provider and staff, and just iteratively  
2 working systematically through the rock pile, you  
3 know? I mean, a lot of effort and just chipping  
4 away at it day by day, and good communication, I  
5 think, another example where it just goes a long  
6 way. And so the critical elements are there and  
7 in place, and you know, there are a few things  
8 that are the reason for the Conditional Approval  
9 by December 31st, but if staff wants to sort of  
10 explain a little bit more about that, if anybody  
11 wants to hear it on the dais. But again, we're  
12 at a moment where projects that happen will have  
13 the right skill set there to evaluate them and  
14 make sure they can get their Certificate of  
15 Occupancy when they're built. And that's the  
16 key. And eventually when other providers come  
17 in, so assuming they pass muster, you know, we  
18 will then have more of a marketplace for this,  
19 which I think is also good for everybody. So we  
20 are at the moment where we have the minimum  
21 structure in place and I think I'm happy with the  
22 direction it's going and the pace that staff and  
23 CalCERTS have been moving forward.

24 So I will move Item 5.

25 COMMISSIONER DOUGLAS: Second.

1                   CHAIRMAN WEISENMILLER:   Okay, all those  
2 in favor of Item 5?

3                   (Ayes.)   Item 5 passes 5-0.

4                   So with that, let's go on to Item 7.

5                   MR. LEVY:   Should we go back to Item 4?

6                   CHAIRMAN WEISENMILLER:   Excuse me, Item  
7 4, you're right.   Thank you.

8                   MR. LEVY:   Commissioners, Item 4, the  
9 comments directed to Paragraph 10-110 of the  
10 Building Efficiency Standards, those standards  
11 have a variety of timelines in them, but they are  
12 directed to permit streamlining policies, they  
13 are maximum periods of time, not minimum; in  
14 other words, they are specified as within 30 days  
15 the Executive Director shall...we've met those  
16 requirements, there is not a requirement to allow  
17 60 days as was suggested, that's a  
18 misinterpretation of the Regulations.

19                   Also, in terms of the written  
20 recommendation, I'll just call everyone's  
21 attention to the written resolution which comes,  
22 of course, from the Executive Director's staff  
23 with the Executive Director's approval.   We  
24 believe that's fully in substantial compliance  
25 with the requirements of the Regulation.

1 CHAIRMAN WEISENMILLER: Thank you. I'm  
2 back on Item 4. Do I have a motion?

3 COMMISSIONER MCALLISTER: I'll move Item  
4 4.

5 COMMISSIONER DOUGLAS: Second.

6 CHAIRMAN WEISENMILLER: All those in  
7 favor?

8 (Ayes.) Item 4 also passes unanimously.  
9 So now we can go to Item 7.

10 MR. BUCANEG: Good morning,  
11 Commissioners. My name is Haile Bucaneg and I'm  
12 with the Local Assistance and Financing Office.  
13 The California Polytechnic State University is  
14 requesting a \$3 million loan at a one percent  
15 interest rate through the California Energy  
16 Commission's ECAA Loan Program to install a  
17 number of energy efficiency measures at the  
18 University's San Luis Obispo campus.

19 Energy efficiency measures to be  
20 installed at the campus include lighting,  
21 retrofits, central plant upgrades, and  
22 transformer replacements. The majority of the  
23 savings will come from the lighting retrofits,  
24 which includes interior lighting in 19 campus  
25 buildings, and exterior lighting throughout the

1 campus. Interior lighting retrofits consist of  
2 upgrading to third generation 28 watt T8 lamps,  
3 T5 high output lamps for high bay fixtures, and  
4 LED lamps. Exterior lighting will consist of  
5 upgrading various lamp types to LED lamps. The  
6 central plant measures will consist of upgrading  
7 the system's chilled water loop condenser  
8 operations and boiler operations.

9           Implementing the proposed energy  
10 efficiency measures will save the University over  
11 3 million kilowatt hours in electric savings and  
12 approximately 46,000 therms in natural gas  
13 savings. This represents an annual energy cost  
14 savings of \$350,051, resulting in an 8.57 simple  
15 payback on the loan amount.

16           In addition to the Energy Commission's  
17 low interest loan, the University is also working  
18 with local utilities to use utility incentives to  
19 fund these projects. Thank you, and I am here to  
20 answer any questions you might have.

21           CHAIRMAN WEISENMILLER: Great, thank you.  
22 Commissioners, any questions or comments?

23           COMMISSIONER SCOTT: I'll move the item.

24           COMMISSIONER DOUGLAS: Second.

25           CHAIRMAN WEISENMILLER: All those in

1 favor?

2 (Ayes.) This item also passes 5-0.

3 Thank you.

4 So now we'll go on to Item 9, which is  
5 another informational item, it's the California  
6 Clean Energy Jobs Act, Prop. 39. Marcia Smith,  
7 please.

8 MS. SMITH: Good morning, Commissioners.  
9 I have a brief presentation. I'm Marcia Smith.  
10 I manage the Local Assistance and Financing  
11 Office in the Efficiency Division, and I wanted  
12 to provide you an update today on the California  
13 Clean Energy Jobs Act, also known as Proposition  
14 39.

15 The Program Guidelines were completed and  
16 presented to you and adopted by you on December  
17 19, 2013. Since then, we've made a lot of  
18 progress in the Program Implementation. In  
19 January 2014, we released the Energy Expenditure  
20 Plan Handbooks, the related forms and calculator  
21 tools, and resources, and we notified by a  
22 welcome email all of the eligible local  
23 educational agencies that we were launching the  
24 program.

25 The local educational agencies include K-

1 12 schools, charter schools, County Offices of  
2 Education, and three State Special Schools which  
3 represent about a little over 2,000 local  
4 educational agencies.

5           During February and March, we hit the  
6 field and performed three webinars and 13  
7 trainings, okay, thank you, covering the  
8 application process and the tools that we had  
9 released. We had about 800 participants in those  
10 trainings and have had lots of follow-up  
11 questions and also been invited back to do  
12 smaller presentations at various organizations.

13           In April, we began reviewing and  
14 approving the expenditure plans as they started  
15 coming in the door here at the Commission.

16           So just to go into a little bit more  
17 detail on the resources and tools that have been  
18 released, the Proposition Guidelines themselves  
19 provide an overview, they outline the eligibility  
20 for the program, the application requirements, as  
21 well as the program requirements. In addition,  
22 the Energy Expenditure Plan Handbook is really a  
23 step-by-step how to apply for the Energy  
24 Expenditure Plans, which are submitted  
25 electronically to the Energy Commission through

1 an electronic system, obviously, the Prop. 39  
2 Expenditure Plan System. This was designed  
3 specifically for use by the local educational  
4 agencies, although a lot of the consultants also  
5 working with the local educational agencies are  
6 also utilizing the handbook.

7           We do have two very simple application  
8 forms, one is a general expenditure plan  
9 application form which summarizes the LEA's  
10 intent expending their requested award funds, how  
11 they're planning to implement, and what they're  
12 requesting of us for approval, and the second  
13 form provides project-by-project detail. Each  
14 project is a separate site within the school  
15 district.

16           In addition, we work very hard with the  
17 Utilities as we were developing the program, and  
18 designed a utility data release authorization  
19 form which all of the utilities statewide have  
20 agreed to accept so that they can release data to  
21 the Energy Commission in our database, starting  
22 at the end of this year and going through 2023.

23           In addition, one of our Senior Engineers  
24 developed a number of energy savings calculators  
25 for the more common energy measures that we see

1 and have seen over our 30 plus years of doing  
2 energy efficiency programs, and those include a  
3 benchmarking tool, 10 different lighting  
4 measures, eight HVAC measures, two plug load  
5 measures, and one photovoltaic measure.

6           Finally, we did put together a compendium  
7 of various resources and tools that are available  
8 to schools, those include benchmarking tools,  
9 commissioning tools, energy audits to help with  
10 project identification, energy planning, and best  
11 practices, energy management and project  
12 implementation, funding resources that are  
13 available, as well as training and education  
14 programs.

15           So where are we right now? As of Monday,  
16 we've received 47 Energy Expenditure Plan  
17 applications. They represent proposed projects  
18 on 137 sites, which represents \$33.4 million in  
19 projects. The breakdown is the applications have  
20 come from 19 charter schools, 27 K-12 districts,  
21 and one County Office of Education. To date, 11  
22 of those plans have been approved, and those  
23 represent 21 project sites and \$3.5 million in  
24 projects.

25           We have a few other programs that are

1 funded by Prop. 39 funds. One is the California  
2 Conservation Corps' Energy Corps Program, it's a  
3 \$5 million program funded in the current fiscal  
4 year's budget, and the Corps provides energy  
5 opportunity surveys. And then we have two  
6 programs within the Energy Commission, the Bright  
7 Schools Program which provides grants of service  
8 for energy audits, and the Energy Conservation  
9 Assistance Account Program, or ECAA-Ed, which is  
10 a zero interest rate loan program.

11           So just for a little more detail, the  
12 Conservation Corps' Energy Corps Program focuses  
13 on serving the smaller local educational  
14 agencies, the Corps members go through a training  
15 program, and they visit schools and collect  
16 information to help identify energy efficiency  
17 projects for the smaller schools. The data is  
18 currently being analyzed by the U.C. Davis Energy  
19 Efficiency Center in a partnership program, and  
20 that helps to support the LEAs in preparing their  
21 energy expenditure plans. The Corps also  
22 provides no or low-cost direct install services  
23 for basic energy measures, or energy efficiency  
24 measures, including lighting, lighting occupancy  
25 detectors, smart power strips, and they also

1 provide some education services to students at  
2 schools both on the Energy Corps Program and also  
3 the Energy Efficiency Opportunities through  
4 Proposition 39 and the work that's going on in  
5 their campuses.

6           Our Bright Schools Program here at the  
7 Commission provides three primary services  
8 through Prop. 39, we do comprehensive energy  
9 audits, we can review proposals and help with  
10 those, as well as bid specification. These  
11 services are currently provided by our  
12 consultant, KW Engineering.

13           As far as the program status for Bright  
14 Schools, we currently have 154 projects or  
15 applications in-house, 121 of those have been  
16 accepted as complete applications, 23 are  
17 currently going through a bill analysis, site  
18 work, either initial site work or actual audit  
19 work, is happening at 40 locations, 26 currently  
20 have either been put on hold or returned because  
21 we're waiting for additional work by the CCC or  
22 the utilities, what we found is some of those  
23 entities were applying to multiple programs, and  
24 so rather than performing duplicative services,  
25 we are coordinating with the utilities and the

1 CCC, and in some cases we needed some additional  
2 information from those schools, so we are  
3 following up with them. And then finally,  
4 reports that are currently final or in process of  
5 being finalized, we have four of those.

6 Our ECAA-Ed Program, we now have a zero  
7 interest rate loan program. As you're aware,  
8 it's modeled after ongoing standard ECAA loan  
9 program, it's a simple application with no fees  
10 or points, the maximum loan amount is \$3 million,  
11 and that's based on the estimated energy cost  
12 savings formula that we use. Repayment comes  
13 from estimated energy cost savings and the  
14 current law allows up to 20 years repayment. The  
15 first repayment isn't due for at least six months  
16 after the project completes so that the entity  
17 can begin to realize energy savings and therefore  
18 dollar savings. The funds can be supplemented by  
19 incentives or rebates and there is ongoing  
20 technical support from our staff after the  
21 project installation.

22 So the current status of that program, we  
23 did put out a Loan Program Opportunity Notice on  
24 May 2nd. The eligible entities include school  
25 districts, charter schools, County Offices of

1 Education, State Special Schools, and Community  
2 College Districts. And we currently have \$25.2  
3 million available. We've received 28  
4 applications to date which represent \$50.2  
5 million in projects. These Applicants had  
6 previously applied under a previous notice that  
7 had been posted on the ECAA Program, and a list  
8 was established for those applications based on  
9 the date of receipt. And we have requested  
10 supplemental information to be compliant with the  
11 Notice that was posted on May 2nd, and those  
12 Applicants have until May 23rd to comply with the  
13 supplemental information.

14 And I'm pleased so say that today on your  
15 agenda, our next item, is an application from  
16 Sanger Unified School District, and it is our  
17 first ECAA-Ed application. And I thank you for  
18 the opportunity to share with you our program.

19 CHAIRMAN WEISENMILLER: Well, thank you.  
20 Thanks for the presentation. Commissioners, any  
21 questions or comments?

22 COMMISSIONER MCALLISTER: I would just  
23 again, you know, Prop. 39 is another one of these  
24 things that is an ongoing enterprise for us and I  
25 just want to hold up Marcia and her team for

1 ongoing job well done, but certainly getting us  
2 to where we are with this. This is a five-year  
3 program, Prop. 39, a five-year program, so I  
4 really appreciate the update of the roll-out and  
5 getting us to where we are with the roll-out.  
6 It's great to see the applications rolling in and  
7 I think we're always day to day watching out for  
8 more and kind of expecting a big flood to come  
9 in, and know that schools vary a lot across the  
10 state and some of them are going to find an  
11 easier path to get their applications in than  
12 others, some are going to be larger and more  
13 complex and have a lot more money than they need  
14 to allocate in a way that's good, so I'm really  
15 proud of our team for stepping up and  
16 understanding the program aspect of this and  
17 putting in place something that school districts  
18 and those who support them can actually  
19 participate in and get answers to their questions  
20 and interface with in a way that is workable for  
21 them. And I think that's really been the focus  
22 all along and it now exists. So it's a really  
23 good position to be in.

24           You know, at some level, back last year  
25 in the Leg Session, all of this came together

1 pretty quickly and, oh, okay, we now have this  
2 responsibility, it really wasn't clear until kind  
3 of the last minute. And our team hit the ground  
4 running, we took all the experience that we had  
5 gotten on the program front, various programs  
6 fronts in the previous few years, and really  
7 operationalized it and incorporated a lot of the  
8 lessons that we learned, and I think you're  
9 seeing all that coming to fruition in Prop. 39.  
10 And I think there are some other opportunities  
11 actually going forward to also kind of flex that  
12 well developed expertise now. So ECAA-Ed, it's  
13 great to see that supporting program in place now  
14 to complement the Prop. 39 and hopefully schools  
15 can actually use both to do more projects and  
16 really have a more integrated approach to their  
17 facilities and getting them to be optimally  
18 performing from the energy perspective. So,  
19 anyway, thanks for the update and I think it's  
20 appropriate that that preceded the first ECAA-Ed  
21 item, so thanks for that readjustment, Chair.

22 COMMISSIONER HOCHSCHILD: Marcia, just a  
23 question. Are you getting feedback from  
24 stakeholders as to what the biggest barriers  
25 they're facing are, and why for folks who have

1 not yet applied, what is it that's holding them  
2 up? And do you have any sense of at what point  
3 we can expect a bigger influx of applications?

4 MS. SMITH: There are different reasons,  
5 and I'm not sure it's always barrier, I think one  
6 of the assets of this program is that the LEAs  
7 were allowed planning funds and they received  
8 that funding upfront if they requested it, and as  
9 a result they are taking a step back to take a  
10 look at really their big picture in terms of  
11 energy needs. They realizes it's a five-year  
12 program, which really when you add in -- the  
13 funds have to be encumbered within that five  
14 years, but they have two years beyond that for  
15 implementation, so they're really taking a big  
16 picture look and in many cases, I think, are  
17 thinking, well, if I have to go through the  
18 process, why not put together a big plan over the  
19 five years? Because they have flexibility in  
20 this program to do annual applications, or multi-  
21 year applications. So some that I've spoken to  
22 are doing that.

23 Some of the smaller schools, I think, are  
24 overwhelmed a bit by what the program is. We  
25 have been in discussions with the Charter School

1 Associations, a lot of the smaller schools are  
2 charter schools, and our plan is to do some focus  
3 specialty training for them. So, you know, some  
4 of them may need a little more hand holding, if  
5 you will, and we're trying to also match up the  
6 resources of the utilities, working with the  
7 utilities in partnership with them and  
8 identifying where the needs are. So it's partly  
9 an educational process for some, and for others  
10 it's a real big picture planning process where  
11 they do have more resources available to them.

12 COMMISSIONER HOCHSCHILD: Just one  
13 further question. I was just wondering, I think  
14 a lot of these schools, I imagine, are finding  
15 themselves in similar circumstances where their  
16 facilities departments are hugely under-  
17 resourced, they may not have the in-house  
18 expertise. And in terms of us facilitating these  
19 guys learning from each other, I'm just curious  
20 to what extent are we -- you know, have we  
21 thought about hosting webinars when there's been  
22 a successful project to share lessons learned, so  
23 people aren't having to reinvent the wheel? Or  
24 what other forums are there for this kind of  
25 knowledge exchange?

1           MS. SMITH: Internally, what we are doing  
2 is we actually are in the process of updating our  
3 Prop. 39 web page and one of our plans is to post  
4 when we have some good samples of plans that have  
5 been submitted and approved to post portions of  
6 those so that others could take advantage and  
7 learn. The Webinars we have given are currently  
8 on our website so that folks can review them at  
9 any time. There has been some discussion among  
10 various stakeholder groups about some interfacing  
11 and how to possibly have some of those external  
12 stakeholders present lessons learned and putting  
13 folks in touch. So there's a lot of discussion  
14 that's still going on in how we can continue to  
15 make information available as it becomes  
16 available, and for us to tweak the process, too,  
17 as we move forward and learn lessons.

18           COMMISSIONER MCALLISTER: I want to just  
19 add to what Marcia is saying also that there are  
20 some entities that have stepped up to the plate.  
21 You know, we're a little bit resource constrained  
22 in terms of what we can write a contract to do,  
23 and certainly I've been working with staff to try  
24 to find ways to not just have sort of a  
25 relatively, you know, so not just have KW sort of

1 helping with the traditional energy audits, but  
2 also fill other gaps that may exist with schools  
3 like just hand holding them on the application  
4 process, or doing that kind of networking on the  
5 ground that you're kind of referring to there,  
6 helping do aggregative procurement-type  
7 activities, or at least kind of standardizing the  
8 process so that it's a little more streamlined.  
9 And I think so far we haven't quite found how to  
10 make that happen ourselves, although there are  
11 entities out there, you know, San Diego has got a  
12 little regional coalition going on where they're  
13 doing exactly that, where they're sharing  
14 experiences and trying to sort of centralize  
15 knowledge and help in the procurement process  
16 across the school districts in the region. Also,  
17 you know, the School Energy Coalition is an  
18 entity that convenes and shares experiences and I  
19 think some of the larger and smaller are able to  
20 cross pollenate like that. So I wouldn't say, at  
21 least not to my knowledge, it's not  
22 systematically present across the state, but  
23 you're seeing kind of that happening in bits and  
24 pieces around the state and I think it's a really  
25 great question, like how can we encourage that

1 and maybe bring some resources to that and make  
2 it systematic across the state.

3 CHAIRMAN WEISENMILLER: Again, thanks for  
4 your work on that. Let's go on to Item 8.  
5 Sanger Unified School District. Jim Holland,  
6 please.

7 MR. HOLLAND: Good morning, Mr. Chairman  
8 and Commissioners. I'm Jim Holland of the Local  
9 Assistance and Financing Office, and I'm here to  
10 request your approval for a zero percent interest  
11 rate loan funded by the Education Sub Account of  
12 the Energy Conservation Assistance Act Loan  
13 Program, known as ECAA-Ed, to the Sanger Unified  
14 School District in the amount of \$1,242,492 for  
15 efficiency upgrades at three schools within the  
16 Sanger Unified School District.

17 As indicated by Marcia Smith in the  
18 previous agenda item, this is the first loan  
19 request under the ECAA-Ed Sub Account, which is  
20 funded through Proposition 9 funds to be brought  
21 before the Energy Commission for approval. \$25.2  
22 million has been set aside for this zero percent  
23 interest rate loan program, and to date we have  
24 received loan applications totaling over \$50  
25 million for proposed energy efficiency projects.

1           These applications have been placed on a  
2 waiting list and are in the process of being  
3 validated based on the requirements set forth in  
4 the Program Opportunity Notice for this loan  
5 program.

6           The Sanger Unified School District loan  
7 application has been reviewed and has been found  
8 to be in compliance with the requirements for the  
9 ECAA-ED Loan Program.

10           The energy efficiency measures to be  
11 funded with this loan to Sanger Unified School  
12 District include indoor and outdoor lighting and  
13 lighting controls, combined which account for  
14 approximately 78 percent of the total electricity  
15 savings for the loan funded projects.

16           Additionally, the loan will fund energy  
17 management system upgrades, heating, ventilation  
18 and air-conditioning component and control  
19 upgrades, exit sign upgrades, walk-in  
20 refrigeration system upgrades, pumping motor  
21 upgrades, and automatic computer shutdown  
22 software installation. These energy efficiency  
23 measures will result in an estimating annual  
24 electricity savings of 720,310 kilowatt hours,  
25 204 kilowatts in demand reduction, annual natural

1 gas savings of 11,637 therms, and a cost savings  
2 of \$120,418 per year, resulting in a 10.3 year  
3 payback period. These upgrades are also  
4 estimated to reduce greenhouse gas emissions by  
5 317 tons of CO<sub>2</sub> equivalent each year.

6 With that, I ask your approval of the  
7 loan and will address any questions that you may  
8 have regarding this loan request, and I also  
9 believe there are representatives of Sanger  
10 Unified School District here to speak, as well.  
11 Thank you.

12 CHAIRMAN WEISENMILLER: Thank you. Let's  
13 turn to first representatives of Sanger.

14 MR. SEPULVEDA: Good morning. I'm  
15 Richard Sepulveda, Chief Operations Officer for  
16 Sanger Unified School District. And I've brought  
17 with me Kevin Edwards, who is our Energy Manager.  
18 And we do want to say thank you for this  
19 opportunity to be the first recipient of your  
20 application, or your loan program here.

21 Sanger Unified School District is in  
22 Fresno County, we have approximately 11,000  
23 students. Of that 11,000, 75 percent of them are  
24 free and reduced students as part of that  
25 program. We've been into an Energy Conservation

1 Program with our Energy Manager for approximately  
2 four years. We've also been a past participant,  
3 if you will, of the CEC Loan Program and we  
4 appreciate the opportunity to apply again and  
5 receive these funds. So we ask your approval on  
6 the Resolution that's before you today. We also  
7 would urge continuing support of the ECAA-Ed  
8 Program so that we can apply again when the  
9 opportunity arises. And, as we heard you talk  
10 about, the other districts in our area, we are  
11 continuing to discuss these opportunities and we  
12 can be an Ambassador, if you will, to speak to  
13 them and let them know of the opportunity that's  
14 presented here. So there are other districts in  
15 our area that can benefit from this program, as  
16 well. So we want to encourage you to continue  
17 the program. And also, we're looking forward to  
18 using the Prop. 39 funds as best we can to  
19 further our energy conservation programs in our  
20 district. So, again, we thank you and appreciate  
21 your time.

22 CHAIRMAN WEISENMILLER: Thank you. Also,  
23 I believe we have Rick Brown.

24 MR. BROWN: Thank you, Mr. Chair and  
25 Commissioners. Terra Verde serves as the Energy

1 Advisor for Sanger, as well as about 30 other  
2 districts, and I'm just here to again support  
3 this loan application, but also support many of  
4 the comments that Ms. Smith talked about in terms  
5 of where the Prop. 39 program is at and the kind  
6 of continuing support that the program needs. We  
7 have a number of other districts who are very  
8 interested, some of whom are on that waiting list  
9 for the ECAA-Ed Program, and after this meeting  
10 Mr. Sepulveda and Mr. Edwards and I are going  
11 over to the Capitol to talk to some of the  
12 Legislators about the importance of adding  
13 funding to the ECAA-Ed Program. You've got, as  
14 you've heard today, many many applicants on the  
15 wait list, there's definitely a demand for this  
16 program, and so we hope you can do whatever you  
17 can to support that also, ongoing. Thank you  
18 very much. If you want, I don't know, Kevin as  
19 an Energy Manager can give you some more detailed  
20 information about some of the things that Sanger  
21 has done. I think it might be useful.

22 CHAIRMAN WEISENMILLER: No, that would be  
23 good, certainly, to the extent Kevin is here.  
24 Please.

25 MR. EDWARDS: All right, good morning,

1 you all. I appreciate the opportunity to tell  
2 you the story about Sanger. Sanger, I mean, it  
3 really is a remarkable transition that we've done  
4 over the past couple years because before even  
5 Prop. 39 became an idea that we may have some  
6 actual money coming in, Sanger has invested some  
7 resources in making sure that we're doing what we  
8 can to be energy conscious, as well, primarily  
9 working through our staff and our students. And  
10 so I was hired as an energy manager out of the  
11 classroom about three years ago in order to do  
12 what we can do as a staff to reduce our costs.  
13 And so right now I can say that this is an  
14 exciting time to be an Energy Manager because not  
15 only am I going in and telling students and  
16 staff, okay, this is what you need to do, but  
17 also you guys as Commissioners are teaming with  
18 us to actually give some weight behind some other  
19 things that we can do not only to reduce our  
20 costs as a district, but also improve the  
21 learning environment for our kids. So I really  
22 appreciate you guys continuing to support schools  
23 in this way, especially in Sanger. We have some  
24 pretty old facilities that we're really looking  
25 forward to moving some new equipment in to make

1 us more energy efficient, as well as providing  
2 additional services for our kids. So I  
3 appreciate it. Thank you.

4 CHAIRMAN WEISENMILLER: Thank you.  
5 Certainly thanks for being here. Commissioners,  
6 questions or comments?

7 COMMISSIONER MCALLISTER: I think I've  
8 said just generally on Prop. 39 and ECAA, I guess  
9 maybe one thing I'm not sure if it was in your  
10 presentation, but maybe, Marcia, you could just  
11 make clear the kind of what is the dividing line  
12 between ECAA and ECAA-Ed so that we don't get a  
13 storm of people running to the ECAA-Ed door for  
14 the zero percent when there are eligibility  
15 constraints there. So maybe you could just  
16 define sort of what's ECAA and what's ECAA-Ed and  
17 who applies to which.

18 MS. SMITH: Right, thank you. ECAA-Ed  
19 includes any of the entities that are eligible  
20 under the -- who have received funds through  
21 Prop. 39. So those would include Community  
22 College Districts, K-12 School Districts, County  
23 Offices of Education, Charter Schools, and the  
24 three State Special Schools. Are standard ECAA  
25 Program serves local jurisdictions, public

1 hospitals, UCs and CSUs; in fact, the previous  
2 agenda item, Cal Poly San Luis Obispo, was  
3 actually our first ever CSU application that  
4 we've had before the Commission. And we've had a  
5 couple of UCs in the past through our standard  
6 ECAA Program.

7 COMMISSIONER MCALLISTER: Perfect. Thank  
8 you.

9 COMMISSIONER SCOTT: I just wanted to say  
10 thank you to the School District for being here.  
11 It's great to hear what you're working on and  
12 also to hear how you are looping the students  
13 into learning about energy efficiency, and I also  
14 appreciate what you said about, as you have  
15 lessons learned and information that you've  
16 gathered, your willingness to share that with  
17 other School Districts. So thank you for being  
18 here.

19 COMMISSIONER HOCHSCHILD: Commissioner  
20 McAllister, this is the first Prop. 39 project,  
21 am I --

22 COMMISSIONER MCALLISTER: This is an  
23 ECAA-Ed loan and I wanted to reiterate --

24 COMMISSIONER HOCHSCHILD: -- but as part  
25 of -- it's money from the Prop. 39, is that

1 right?

2                   COMMISSIONER MCALLISTER: Yeah, I guess  
3 it's the \$25 million that came over as part of  
4 the whole budget process last year, absolutely.  
5 That is Prop. 39 funds through ECAA. That's  
6 right, yeah. So I wanted to reiterate actually  
7 what Commissioner Scott just said and thank you  
8 for being here. Our schools are our bread and  
9 butter in this state, that's our future, it's our  
10 kids, and you know, it's hard to overstate how  
11 important that is, right? And you guys are out  
12 there duking it out trying to do what's best for  
13 them, not literally obviously, I'm going to have  
14 to watch my analogies, I guess. But you know,  
15 fighting the good fight to make sure that they  
16 have every opportunity to succeed, for your  
17 teachers and for your kids. And so I really  
18 appreciate your being here, I mean, it shows  
19 commitment just to make the drive over from  
20 Fresno, and to get through the application  
21 process and clearly you know what you're doing  
22 because you're first out of the gate. And so  
23 Commissioner Hochschild was absolutely right, I  
24 think this must be the first dollars out of the  
25 gate from the Prop. 39 -- sorry, maybe we're off-

1 base.

2 CHAIRMAN WEISENMILLER: I think, again,  
3 ECAA-Ed, if you go back to the presentation we  
4 just had, this is the first dollars out for ECAA-  
5 Ed, but we certainly got money out the door.

6 COMMISSIONER MCALLISTER: Well, we've  
7 done the planning funds, right? So that's the  
8 first trench is getting the planning funds out to  
9 the School Districts so that they can actually do  
10 the planning that now will enable them to  
11 implement projects that are funded by the  
12 dollars. But be that as it may, congratulations  
13 and really thanks for being here and for your  
14 leadership.

15 So I will move Item 8.

16 COMMISSIONER SCOTT: Second.

17 CHAIRMAN WEISENMILLER: All those in  
18 favor?

19 (Ayes.) Item 8 passes unanimously.

20 Let's go on to Item 11. Energy and  
21 Environmental Economics, Inc. Sylvia.

22 MS. BENDER: Good morning, Chair  
23 Weisenmiller, Commissioners. The leadership of  
24 the Energy and Air Agencies, known as the Energy  
25 Principles, are conducting a multi-agency project

1 to examine pathways to achieve deep reductions in  
2 the state's greenhouse gas emissions. Although  
3 GHG emission reduction programs are primarily the  
4 responsibility of the Air Resources Board,  
5 potential pathways necessarily involve close  
6 coordination of policies and programs across  
7 these state agencies.

8 Energy and Environmental Economics (E3)  
9 is developing a greenhouse gas policy tool under  
10 contracts with the ARB, the Public Utilities  
11 Commission, the California Independent System  
12 Operator, and now the Energy Commission. This  
13 overall effort is being coordinated closely to  
14 ensure that data, methods, and assumptions  
15 reflect the perspectives and understandings of  
16 these state agencies.

17 Based on a review of multiple potential  
18 approaches to this project, the tool is being  
19 developed in a single modeling platform, building  
20 on prior work performed by E3 to enable cost-  
21 effective and timely completion of this project  
22 later in the summer of 2014. Given the structure  
23 of the overall project across these multiple  
24 agencies, and the importance of integrating all  
25 of the modules into a single tool, E3 is uniquely

1 qualified to perform the task of developing this  
2 final transportation and bioenergy module for the  
3 project.

4           Using an alternate supplier at this point  
5 would delay the completion of the work, as a new  
6 supplier would first need to learn the design and  
7 organization of the tool.

8           So with that, I ask for your approval of  
9 this agreement and will be happy to answer any  
10 questions.

11           CHAIRMAN WEISENMILLER: Thank you,  
12 Sylvia, for bringing this forward. I think all  
13 of us realize that this Administration has a very  
14 high priority on dealing with climate change  
15 issues and that means that work certainly cuts  
16 across all the State agencies, and we often hear  
17 comments about coordination, this is sort of,  
18 again, a marvelous example where basically the  
19 energy and environmental agencies have come  
20 together under the Energy Principles umbrella,  
21 this is building off of First Step, I would point  
22 out that this group has published in *Science*,  
23 again, they're uniquely qualified. Looking at  
24 the overall platform, there are some parts that  
25 LBNL, the CCST group is doing, again, they have

1 also published in *Science*, and it is uniquely  
2 qualified certainly. This is an effort we're  
3 adding a lot of analytical rigor to these  
4 important questions and it's a very very high  
5 priority to get this done in a timely fashion.

6 COMMISSIONER MCALLISTER: I'll just  
7 second that. The issues that came up last year  
8 in the IEPR, in the Demand Forecasts, and the  
9 imperative of involving the other agencies to  
10 really get a grip on the highest level issue,  
11 even across agency, really the highest level long  
12 term planning issues, and how the agencies  
13 exercise their authority in concert made it clear  
14 that we need a better understanding of the  
15 system, and certainly driven by the carbon  
16 question. And so I think we're fortuitous to  
17 have a quite amazing bench of expertise in the  
18 state, both the National Labs that are here, and  
19 then also the University system, as well that's  
20 producing a lot of consultants that are here,  
21 that are really knowledgeable in this area. And  
22 I think E3 is one good example of that really  
23 tremendous expertise about it in lots of -- I  
24 mean, I don't know how many hundreds of years of  
25 collective experience they and the team that's on

1 this actually has, but it's a lot. So these are  
2 critical questions and pushing forward quickly is  
3 definitely in our best interest.

4 COMMISSIONER DOUGLAS: Well, I agree the  
5 work is extremely important, it's nice to see it  
6 going forward in this way. I'll move approval of  
7 Item 11.

8 COMMISSIONER MCALLISTER: I'll second.

9 CHAIRMAN WEISENMILLER: All those in  
10 favor of Item 11?

11 (Ayes.) This items also passes 5-0.

12 Thank you, Sylvia.

13 Let's go on to Item 12. Appliance  
14 Efficiency Program Database Modernization.

15 MR. STRAIT: This is Peter Strait. I'm  
16 with the Appliance Efficiency Program. This item  
17 is a \$1,497,250 contract offered under a Master  
18 Service Agreement with a company called Trinity  
19 Technology Group. This is for the modernization  
20 of our Appliance Efficiency Database. This  
21 follows from a Feasibility Study Report that was  
22 completed last year and that was approved and  
23 made a part of the 2013-2014 Budget.

24 The goal of this contract is to modernize  
25 our existing Appliance Efficiency Database. That

1 database was constructed in the year 2000  
2 actually with the intent of solving Y2K  
3 compliance problems, but is now 14-years-old and  
4 we need to update this database to make sure that  
5 it remains compatible with modern equipment and  
6 computer software. But along with that, we want  
7 to make sure this database integrates core  
8 functions related to online submittal of data.  
9 Right now, manufacturers that submit data to our  
10 program have to do so by filling out Excel sheets  
11 and PDF files and emailing them to us. We would  
12 like to bring this to a fully online and  
13 paperless process that will allow manufacturers  
14 to submit their information online through a  
15 webpage, receive immediate feedback if there's  
16 anything filled out incorrectly, or any  
17 additional materials that are needed, and that  
18 can be submitted to staff with that validation  
19 already in place.

20 We would also like to see an improved  
21 search interface that more closely mimics the  
22 interfaces that you see in modern online shopping  
23 websites such as a website by Amazon.com or Best  
24 Buy where all of your search information is  
25 present there on the screen, and it has a much

1 cleaner and more intuitive interface for  
2 connecting consumers with the appliance data that  
3 they're looking for.

4           Lastly, we have two additional features  
5 that we would like to see this database have. We  
6 are hoping that this database incorporates QR  
7 Codes that retailers can print out that allow  
8 consumers in their stores to scan that QR Code  
9 and be taken directly to the efficiency listing  
10 for their product. And we are also intending for  
11 this database to be able to communicate directly  
12 with other databases of similar appliance data  
13 that are managed by the U.S. Department of Energy  
14 and by other outside parties such as the Energy  
15 Star Program such that we can hopefully engage in  
16 data sharing that should streamline some of the  
17 interactions that manufacturers have with both  
18 our program and our sister programs.

19           To give some context for this activity,  
20 staff processed roughly 300 data submittals per  
21 month. The majority of those data submittals do  
22 require more than one touch in order to complete;  
23 that is, of the materials that a manufacturer  
24 must fill out, there will be some error or  
25 omission that needs correction or feedback from

1 that manufacturer. Accordingly, the lead time  
2 for processing of a submittal can be up to 30  
3 days and most commonly averages about two weeks  
4 between when we receive the submittal and when a  
5 manufacturer's listings appear on our system.  
6 With the improvements that we're considering with  
7 this modernization, we would be able to cut that  
8 time at least in half by shifting the validation  
9 for completeness to an immediate interface that  
10 the manufacturer sees. This would both address  
11 reduction in lead time for manufacturers and the  
12 work they need to get their products listed as  
13 required by law, but also would represent a  
14 significant savings of staff time.

15           Additionally, by coding a modern database  
16 and consolidating the systems that are needed for  
17 compliance with our program, it is hoped that we  
18 will have additional flexibility for our program  
19 to meet potential future actions or activities  
20 that we might engage in, the best example being  
21 our participation in the Cash for Appliance  
22 Program where we very quickly had to roll out an  
23 appliance rebate program and a lot of associated  
24 software, and interactive webpages and portals.  
25 We would hope to have functionality in our system

1 here that would allow us to more quickly adapt to  
2 similar programs in advance that might occur in  
3 the future.

4           With that, I would respectfully request  
5 that you approve this project and contract so  
6 that we can begin modernizing our Appliance  
7 Efficiency Database.

8           CHAIRMAN WEISENMILLER: Thank you. I  
9 think Mr. Splitt again?

10           MR. SPLITT: Pat Splitt from Aptech.  
11 This will probably be the last time I'm up here  
12 unless I get inspired to do a public comment.

13           COMMISSIONER MCALLISTER: Thanks for the  
14 heads up.

15           MR. SPLITT: So basically I first should  
16 start and say I approve that you go ahead with  
17 this. But I had a couple of questions, 1) I  
18 know, Peter, there are some other proceedings  
19 going on now that are manipulating some aspects  
20 of the Appliance Standards and the requirements  
21 for this software actually happened who knows  
22 when, so I'm just wondering if --

23           CHAIRMAN WEISENMILLER: Let's not say  
24 "manipulating," you know, "considering,"  
25 "adjusting," --

1           MR. SPLITT:  -- "contemplating," okay,  
2   that I just wanted to make sure that the results  
3   of these proceedings that are going on now will  
4   have a chance to be integrated into this database  
5   so that the database isn't obsolete before it's  
6   even finished.  That's the first.

7           MR. STRAIT:  Certainly.  To answer that,  
8   this project would be to make mechanical changes,  
9   I'd liken it to overhauling a car, getting under  
10  the engine, replacing the engine block, doing a  
11  lot of internal things.  Our intent is to move  
12  actually toward table-based validation for the  
13  rules by which the database decides what can be  
14  accepted into it and published online.  And based  
15  on those, it should be easier for us once this is  
16  implemented to make changes to update the  
17  database to follow any of the change that we  
18  contemplate in the Regulations.  So, yes, this  
19  project should be responsive to those changes  
20  that we're contemplating on the regulatory side.

21          MR. SPLITT:  Okay, and then just one  
22  other comment.  Right at the end here, it says  
23  that you also communicate with similar databases  
24  used by federal programs.  Will this database  
25  also be able to communicate with AHRI database?

1           MR. STRAIT: We hope so. What we are  
2 hoping to implement is a general ability for this  
3 database to talk to other databases, one that our  
4 current system simply lacks. Once we have that  
5 functionality in place, then it will require a  
6 process of us coordinating with those outside  
7 parties. So our intent is, if we get this side  
8 done, we can then invite them and work with them  
9 to coordinate and share data between our  
10 programs.

11           MR. SPLITT: Okay, that would be good  
12 because right now it's a problem with different  
13 databases, you look at one and you don't realize  
14 there's another one, and it would be nice to look  
15 at one spot. That's it. Thanks.

16           CHAIRMAN WEISENMILLER: Okay.  
17 Commissioners, any questions or comments?

18           COMMISSIONER MCALLISTER: Yeah, I'm very  
19 excited about this. I think it's a well-  
20 conceived effort, definitely due. So much has  
21 happened just in the technology field and with  
22 software generally, databases since 2000, you  
23 know, it's just mind boggling, really. And I  
24 think, again, fundamentally it's a customer  
25 service issue and with both users of the data and

1 also providers of the data being folks that we  
2 need to provide with good quick seamless service.  
3 And certainly speeding up the processes and  
4 making them more accurate and doing the pre-  
5 validation and all that is just fantastic. I'm  
6 really excited about the QR, I have this vision  
7 of somebody going around Best Buy and scanning  
8 the QRs on products and, "Hey, there's the  
9 Commission's website." Maybe that's a little  
10 self-centered, but you know. But I think we're  
11 all growing to expect that kind of service and I  
12 think it's reasonable that we would include that  
13 in the scope of work for the contractor that we  
14 have accepted through an RFP process today. And  
15 also, I would just point out that this enables -  
16 there are many many corollary benefits, you know,  
17 its ease of use and its systemization and its  
18 integration of various resources under one tool,  
19 or one roof, and that actually is going to help  
20 us, I think, in our long term pursuit of the  
21 state's goals on the appliance efficiency front,  
22 which is going to give us a basis for much more  
23 sophisticated analytics about what's actually  
24 happening in the marketplace, to see what kinds  
25 of devices, their efficiency levels, and do

1 analysis actually on the database to see how  
2 things are evolving sort of longitudinally. And  
3 I think that actually potentially has a lot of  
4 power for us to make better policy going forward,  
5 so I'm excited about this at a number of levels.  
6 Could you maybe talk just a little bit about the  
7 timeline?

8 MR. STRAIT: The timeline currently,  
9 software development is anticipated to take 18  
10 months. The schedule that we have assumed a  
11 start date of July 1, just under a worst case  
12 projection if we had to miss this Business  
13 Meeting and be picked up at the next one, but if  
14 we start on June 1st, we anticipate completion of  
15 the software development side of things before  
16 the end of 2015. And following that, there would  
17 be a warranty period at the end of the contract  
18 where we would continue to receive support for  
19 any bugs that are noticed once it goes live and  
20 we have a far larger number of users, but also to  
21 make adjustments if there are any usability  
22 questions that come up, or any suggestions  
23 outside parties end up having that prove valuable  
24 to us. Ultimately, this will be brought in-house  
25 after that and we will remain responsive to

1 feedback from manufacturers, third-party  
2 certifiers, and the other parties that we work  
3 with and hope to serve. So you are correct, this  
4 is very much about customer service. We are  
5 striving to be a customer driven program inasmuch  
6 as we're also a regulatory program, because we  
7 find that we see a lot more compliance and a lot  
8 more achievement of our goals -- the old saying,  
9 more flies with honey than vinegar, I suppose.

10 COMMISSIONER MCALLISTER: Yeah. Well,  
11 this is also key for -- last point I will want to  
12 make -- this is key for making -- well, we now  
13 have authority under SB 454 for enforcement of  
14 our Appliance Efficiency Regs, our Standards, so  
15 the rigor that this will produce I think is also  
16 helpful in that regard. So thanks, Peter, I  
17 appreciate it.

18 COMMISSIONER DOUGLAS: So I just have to  
19 jump on the bandwagon here and say that we've  
20 been waiting for this for a long time. I'm  
21 really delighted to see the item come forward.  
22 Certainly, as we look at moving forward with our  
23 Regulations to implement the enforcement  
24 authority for the Appliance Efficiency Standards,  
25 having this tool available -- and it won't be

1 available right away, as you know -- but just  
2 having this tool on the horizon makes it so much  
3 easier for everybody to upload data, to ensure  
4 that appliances that are consistent with the  
5 Standards are registered and registered correctly  
6 and quickly, and so I'm just really enthusiastic  
7 about this item.

8 COMMISSIONER MCALLISTER: I will move  
9 Item 12.

10 COMMISSIONER DOUGLAS: Second.

11 CHAIRMAN WEISENMILLER: All those in  
12 favor?

13 (Ayes.) This item also passes 5-0.  
14 Thank you.

15 MR. STRAIT: Thank you.

16 CHAIRMAN WEISENMILLER: We're going to go  
17 and cover Item 13, and then we will break for  
18 lunch, and so that will let us segue over to the  
19 transportation stuff when we come back, and we're  
20 going to target that for about 1:15. So let's  
21 start on Item 13, Andes Consulting, LLC. Steven  
22 Mac, please.

23 MR. MAC: Good afternoon, Commissioners.  
24 My name is Steven Mac with the Demand Analysis  
25 Office with the Electricity Supply Analysis

1 Division.

2           We are asking for approval for the  
3 purchase order of \$350,000 for the programming  
4 services by Andes Consulting. The current  
5 Quarterly Fuel and Energy Report Data Reporting  
6 System is outdated, providing only computer  
7 assistance, rather than computer automation in  
8 key program areas such as data reporting,  
9 compliance assessment, data validation, and data  
10 publishing.

11           The database system limitations, coupled  
12 with constrained staffing levels have dampened  
13 feedback to utilities regarding accurate data  
14 reporting and have limited opportunities to  
15 educate them in how to remedy such shortcomings.

16           Resulting judgment-based data adjustments  
17 have contributed to decreased forecasting  
18 transparency. Data quality enforcement is an  
19 important component of the QFER data quality  
20 problem, a role staff can more effectively  
21 perform with support from a substantially more  
22 automated data reporting system.

23           Programming services by Andes Consulting  
24 would help the QFER Unit in the following ways:  
25 1) redirect focus from mechanics of validating

1 and publishing energy consumption data to the  
2 process of improving data quality, in part  
3 through timely and more frequent interactions  
4 with utilities and the enhance ability to analyze  
5 data trends that could provide energy consumption  
6 insights independent of any modeling methodology;  
7 2) add transparency to the process of data  
8 publishing by standardizing documentation of each  
9 step; 3) increase both consistency and efficiency  
10 in creating multiple views of the energy  
11 consumption dataset that continues to grow over  
12 time; and 4) increase staff's responsiveness to  
13 requests for energy consumption data.

14           With that, we ask for your approval for  
15 this purchase order. Staff is available to  
16 answer questions.

17           CHAIRMAN WEISENMILLER: Thank you.  
18 Commissioners, any questions or comments? I was  
19 going to say, as the Lead Commissioner on  
20 Electricity and Natural Gas, again, this is an  
21 area that's very important to us, to be getting  
22 the data in, to be able to effectively and  
23 efficiency process it, so that it becomes the  
24 basis for our going forward in analysis. So,  
25 again, this is -- I'd hate to ask how long --

1 this has been here whether it's more or less than  
2 14 years, but anyway it's certainly a great next  
3 step.

4 COMMISSIONER MCALLISTER: It's not a  
5 competition.

6 CHAIRMAN WEISENMILLER: Well, I was just  
7 going to say I remember the PG&E billing system  
8 was like Cobalt-based from the '60s.

9 COMMISSIONER MCALLISTER: It was?

10 CHAIRMAN WEISENMILLER: It was, yeah.  
11 Valerie left, so she can't respond. But anyway.

12 COMMISSIONER MCALLISTER: I agree, I  
13 mean, this is bread and butter, this is  
14 foundational stuff for the Commission to do, it's  
15 work that we've been doing since the beginning,  
16 so getting this information in systematically and  
17 correctly is really key. And we have all these  
18 tools at our disposal now, living in 2014. So I  
19 think it's very much appropriate. So I will move  
20 Item 13.

21 COMMISSIONER SCOTT: Second.

22 CHAIRMAN WEISENMILLER: All those in  
23 favor?

24 (Ayes.) So Item 13 passed 5-0. Thank  
25 you. And, again, we're going to take a break,

1 we'll be back at 1:15 and we'll segue then to 14  
2 and it looks like a big 118 day after this.

3 (Recess at 12:13 p.m.)

4 (Reconvene at 1:19 p.m.)

5 CHAIRMAN WEISENMILLER: Good afternoon.  
6 We're back on the record. Let's go to Item 14,  
7 Mendota Bioenergy LLC. Bill Kinney, and we have  
8 some announcements first.

9 COMMISSIONER MCALLISTER: Yeah, so from  
10 here on there are a few items starting with this  
11 one that I just want to disclose my wife's income  
12 from the U.C. System, U.C. Regents, and I'll just  
13 list the items: Item 14, 17(b), and Item 22 all  
14 have some aspect of the University of California  
15 System, so I'm going to disclose my relationship  
16 for those items and then there will be a recusal  
17 later on.

18 CHAIRMAN WEISENMILLER: But you will not  
19 recuse yourself on the U.C. items.

20 COMMISSIONER MCALLISTER: I will not  
21 recuse, no, absolutely not. Yeah, I'm just  
22 disclosing on the U.C. items.

23 COMMISSIONER DOUGLAS: So I'm going to  
24 add on to Commissioner McAllister's disclosure.  
25 I am an Adjunct Professor at U.C. Davis in King

1 Hall where I teach a Renewable Energy law class,  
2 and so I get some income from them, so I'm  
3 disclosing that for all of these U.C. contracts,  
4 none of these contracts are with King Hall.

5 CHAIRMAN WEISENMILLER: Thank you.  
6 Staff, please.

7 MR. KINNEY: Good afternoon,  
8 Commissioners. My name is Bill Kinney. I work  
9 in the Emerging Fuels and Technology Office and  
10 I'm here this afternoon to request approval of  
11 Amendment 2 to the Mendota Bioenergy Grant  
12 Agreement.

13 The purpose of this Grant Agreement is  
14 for Mendota Bioenergy to design, construct and  
15 operate an integrated demonstration plant,  
16 converting energy beets to advanced biofuels, and  
17 it's located in Five Points, California.

18 The purpose of this amendment is to  
19 reduce the scale of the demonstration project to  
20 match the availability of energy beet feedstock  
21 in 2014. The reduced scale will still  
22 accommodate the original 12-month harvest  
23 schedule and the resulting data will still be  
24 sufficient to demonstrate the feasibility of  
25 full-scale commercial production of a beets-to-

1 energy facility. As a result, Mendota expects to  
2 operate the advanced ethanol demonstration plant  
3 36-60 days, as opposed to the original 100.

4           The primary need for the amendment is  
5 that Mendota had to replace their original  
6 engineering procurement and construction  
7 subcontractor, who was actually filling two roles  
8 in the project, they were also the technology  
9 provider. Due to the delays in replacing their  
10 subcontractor, Mendota will need an additional  
11 three months to complete all operations and data  
12 collection.

13           There are no changes to the original  
14 grant amount, nor to the goals and objectives of  
15 the agreement. And with this amendment, Mendota  
16 will still meet their long range goal of  
17 transitioning to a commercial scale facility.

18           Thank you for your time and I'm prepared  
19 to answer any questions you may have, and I'm  
20 also joined today by representatives from Mendota  
21 Bioenergy, who would like to make a brief  
22 statement, and they would also respond to your  
23 questions, if needed.

24           CHAIRMAN WEISENMILLER: Yeah, gentlemen  
25 please come forward. Introduce yourselves for

1 the record.

2 MR. PUCHEU: Good afternoon, Mr. Chairman  
3 and Commissioners. My name is Bill Pucheu and  
4 I'm the General Manager of Mendota Bioenergy LLC.  
5 And it's been good to work with the Commission in  
6 pursuing this goal of ours, common goal, to  
7 produce ethanol from, well, they used to call  
8 them sugar beets, but now we call them energy  
9 beets. And I'm prepared for questions.

10 CHAIRMAN WEISENMILLER: Thank you.  
11 Commissioners, questions?

12 COMMISSIONER SCOTT: I don't have any  
13 questions, but I would just say thank you for  
14 coming to join us here today.

15 MR. PUCHEU: My pleasure. Thank you.

16 CHAIRMAN WEISENMILLER: Thank you.  
17 Certainly you will recall Bob and I came down,  
18 did the tour, and certainly appreciate the sort  
19 of energy enthusiasm people had in the whole  
20 Fresno area for this project.

21 MR. PUCHEU: Well, we've been at it since  
22 2008, and with your assistance for the last  
23 couple years we've gotten a lot further along  
24 than I ever dreamed we were going to be able to,  
25 and this looks like the light at the end of the

1 tunnel starting to take on, you know, a little  
2 gleam.

3 COMMISSIONER WEISENMILLER: That's very  
4 good.

5 MR. PUCHEU: Hopefully next time I come,  
6 I'd like to see some energy beets on the wall  
7 here.

8 COMMISSIONER WEISENMILLER: Let's see,  
9 the last couple times, you brought energy beets  
10 with you.

11 MR. PUCHEU: Brought beets, themselves,  
12 but on the walls.

13 COMMISSIONER WEISENMILLER: And bring  
14 some ethanol.

15 MR. PUCHEU: Well, once we get licensed.

16 CHAIRMAN WEISENMILLER: Right, okay.

17 COMMISSIONER SCOTT: I'll move approval  
18 of Item 14.

19 COMMISSIONER DOUGLAS: Second.

20 CHAIRMAN WEISENMILLER: All those in  
21 favor?

22 (Ayes.) Item 14 passes 5-0. Thank you.  
23 Thanks very much for all of you coming and for  
24 your continued progress on this venture.

25 Let's go on to Item 15, South Coast Air

1 Quality Management District. Phil Cazal, please.

2 MR. CAZEL: Good afternoon. My name is  
3 Phil Cazal from the Emerging Fuels and  
4 Technologies Office. Also here today is Jeff Cox  
5 from the South Coast Air Quality Management  
6 District.

7 I'm presenting for approval an agreement  
8 in the amount of \$2 million with the South Coast  
9 Air Quality Management District. This is a  
10 contract that will support the demonstration of  
11 prototype heavy-duty natural gas engines and  
12 exhaust after treatment technologies in on-road  
13 heavy-duty vehicles.

14 Advanced natural gas engine technologies  
15 with near zero nitrous oxide emissions have the  
16 potential to lower greenhouse gas emissions by 11  
17 to 23 percent, improving air quality and reducing  
18 health and environmental risks associated with  
19 the emissions from heavy-duty vehicles. The  
20 reduction of nitrous oxide emissions from heavy-  
21 duty vehicles is necessary in order for  
22 California's worst air basins to meet future  
23 Federal Ambient Air Quality Standards for Ozone.

24 The specific engine technology  
25 demonstrated through this contract is expected to

1 achieve nitrous oxide emission levels 90 percent  
2 lower than the Federal 2010 Engine Emission  
3 Certification Standards, as well as lower the  
4 emission levels of carbon monoxide, particulate  
5 matter, and non-methane hydrocarbons.

6           The on-road demonstration of these  
7 prototype natural gas engines is an important  
8 step toward commercialization of near zero  
9 emission technology. The total cost for the  
10 project is approximately \$13,645,000, with  
11 additional funding provided by the South Coast  
12 Air Quality Management District, Southern  
13 California Gas Company, Cummins Inc., and Cummins  
14 Westport Inc.

15           An additional \$2 million contract was  
16 provided through the Energy Commission's Energy  
17 Research and Development Division for the  
18 Research and Development of this near zero  
19 emissions technology. The contract I'm  
20 presenting for approval today is for the  
21 integration of that engine technology into  
22 prototype heavy-duty vehicles for on-road  
23 demonstration.

24           Staff is requesting Commission approval  
25 of the proposed contract in the amount of \$2

1 million to support the demonstration of this  
2 advanced low nitrous oxide natural gas vehicle  
3 technology. Thank you and we're available for  
4 any questions you may have.

5 CHAIRMAN WEISENMILLER: Thank you.  
6 Thanks for being here. Do you have anything you  
7 want to say?

8 MR. COX: Yes. Good afternoon, Mr.  
9 Chairperson. I'm Jeff Cox from the South Coast  
10 AQMD. I don't have anything technical to add to  
11 Phil's presentation, but I would like to convey  
12 that our organization is extremely appreciative  
13 of this opportunity to partner and collaborate  
14 with the Energy Commission. This is a project  
15 that is acutely interesting for our organization  
16 since it has the opportunity to help us with our  
17 air quality attainment goals, as well as reduce  
18 diesel fuel consumption in a diesel fuel  
19 dominated space within that source category.

20 So I'll be here to answer any questions,  
21 should you have them.

22 CHAIRMAN WEISENMILLER: Oh, certainly  
23 thanks for coming up and certainly send our  
24 regards to Barry Wallerstein. We certainly  
25 appreciate the opportunity to work together on

1 projects like this and many others.

2 MR. COX: Oh, absolutely.

3 CHAIRMAN WEISENMILLER: Okay.

4 COMMISSIONER SCOTT: I'd also like to  
5 just say thank you very much for coming up here  
6 and I was also going to note that, just to put a  
7 finer point, Phil mentioned it in his  
8 presentation, and Jeff mentioned it as well, but  
9 the air quality imperative that we have, both in  
10 the South Coast Air Quality Management District  
11 and the San Joaquin really necessitates us  
12 helping to find some solutions, and some  
13 technology solutions that can help reduce the  
14 amount of NO<sub>x</sub> especially that are coming out of  
15 these vehicles, and so to me that is why projects  
16 like this are so exciting. We had both Barry  
17 Wallerstein and Matt Miyasato come up in various  
18 IEPR workshops and talk to us about that  
19 imperative, and so it's great and I would echo  
20 what the Chair said, it's great to work in  
21 partnership with you all.

22 I just had one question, which is when do  
23 we anticipate sort of having the data or the  
24 information from integrating this engine into the  
25 new system?

1           MR. COX: Yeah, so we're anticipating a  
2 three-year project. So we should have some  
3 preliminary emissions data off an engine dyno in,  
4 I would say, a year and a half's time.

5           COMMISSIONER SCOTT: I will move approval  
6 of Item 15.

7           COMMISSIONER HOCHSCHILD: Second.

8           CHAIRMAN WEISENMILLER: All those in  
9 favor?

10           (Ayes.) This item passes 5-0. Thank  
11 you.

12           Now let's go on to Item 16, City of  
13 Visalia. Michelle?

14           MS. TESSIER: Yes. Good afternoon,  
15 Chairman and Commissioners. My name is Michelle  
16 Tessier. I work in the Emerging Fuels and  
17 Technologies Office and I am seeking approval of  
18 a Grant Agreement with the City of Visalia for  
19 \$300,000, an Alternative and Renewable Fuel and  
20 Vehicle Technology Program funds for projects  
21 that support installation of new natural gas  
22 fueling infrastructure and upgrades to existing  
23 infrastructure.

24           The City of Visalia proposes to upgrade  
25 the CNG fueling station located at 439 North Cane

1 Street, Visalia, California. The station  
2 provides fuel for all city CNG vehicles, Tulare  
3 Transit, AT&T, the general public, and local  
4 fleets.

5 The upgrade project will be owned by the  
6 City and operated by Trillium CNG under a current  
7 10-year agreement with the City of Visalia. The  
8 project will provide upgrades to the time fill  
9 and fast fill capabilities of the station. By  
10 increasing the number of time fill stations, by  
11 upgrading the dispenser and number of hoses, wait  
12 times will be significantly shorter and the  
13 public will have a more typical modern fueling  
14 experience.

15 In closing, staff asks the Commission to  
16 approve this Grant Agreement with the City of  
17 Visalia. And I believe two City representatives  
18 are also on the phone today for any questions you  
19 may have.

20 CHAIRMAN WEISENMILLER: Great. So will  
21 we have the City people identify themselves?

22 MS. TESSIER: Okay, I'm sorry about that.  
23 I had the Transit Director and also the assistant  
24 that I've been working with on this grant.

25 CHAIRMAN WEISENMILLER: Yeah, no, they

1 were on earlier.

2 MS. TESSIER: They were.

3 CHAIRMAN WEISENMILLER: We'll give them a  
4 minute or 30 seconds. Okay, Commissioners, any  
5 questions or comments?

6 COMMISSIONER SCOTT: I'll move approval  
7 of Item 16.

8 COMMISSIONER DOUGLAS: Second.

9 CHAIRMAN WEISENMILLER: All those in  
10 favor?

11 (Ayes.) This item is also 5-0. Thank  
12 you.

13 Let's go on to Item 17. Now, we're going  
14 to discuss 17, although we will bring up parts  
15 (a) and (b) separately. So, please.

16 MS. TESSIER: Hello again, I think you  
17 remember my name --

18 CHAIRMAN WEISENMILLER: Actually --

19 COMMISSIONER MCALLISTER: I'm going to  
20 recuse myself from this particular vote.

21 CHAIRMAN WEISENMILLER: Well, okay, so  
22 we'll deal with 17a first.

23 COMMISSIONER MCALLISTER: Yes.

24 CHAIRMAN WEISENMILLER: And so you're  
25 going to recuse yourself from 17a.

1 COMMISSIONER MCALLISTER: Right.

2 CHAIRMAN WEISENMILLER: Okay, let's do  
3 that. Let's do a now.

4 COMMISSIONER MCALLISTER: Yeah, so I'm  
5 recusing myself due to my prior affiliation with  
6 one of the subcontractors on this vote. So I'm  
7 going to recuse.

8 MS. TESSIER: I'm just going to start  
9 with (a) and then let them do their thing and  
10 come back and discuss. Yeah, I know what's going  
11 on.

12 Okay, whenever you're ready, I'm ready to  
13 go again.

14 CHAIRMAN WEISENMILLER: Please, why don't  
15 you go on with 17(a)?

16 MS. TESSIER: Okay, I'm still the same  
17 person, Michelle Tessier. I work in the same  
18 place. And the two agreements I am presenting,  
19 Item (a), is with the Economic Development  
20 Corporation of Los Angeles, or an acronym of  
21 LAEDC. The agreement with LAEDC is for  
22 \$1,566,274 to develop the Southern California  
23 Center for Alternative Transportation Fuels and  
24 Advanced Vehicle Technologies. They will develop  
25 two physical centers, one will be located in

1 downtown Los Angeles and the other in Central San  
2 Diego. There will also be a virtual center which  
3 is a website.

4           The physical centers will focus on a  
5 series of coordinating councils and workshops and  
6 will be available for companies, researchers, and  
7 public agencies to collaborate on alternative  
8 fuels technology development, intellectual  
9 property protection, and prototyping.

10           The virtual center will provide public  
11 education opportunities about alternative fuels  
12 and advanced vehicle technologies, and assist  
13 with creating a council to discuss upcoming  
14 trends in the development of technology. This  
15 proposed project is estimated to have the  
16 following benefits: generate a minimum of 50 jobs  
17 in alternative fuel and advanced vehicle  
18 technology industry, including start-ups, pilot  
19 projects, and new programs in large companies, as  
20 well as assist the State of California in efforts  
21 to reduce petroleum use and transportation on a  
22 per capita basis. And that's all I have on Item  
23 (a).

24           CHAIRMAN WEISENMILLER: Thank you. Now  
25 we have a person on the phone on Item (a)?

1 MS. TESSIER: Yes. We should have two  
2 people?

3 CHAIRMAN WEISENMILLER: We have one for  
4 (a) and one for (b).

5 MS. TESSIER: Okay. I did have two  
6 people for Item (a).

7 CHAIRMAN WEISENMILLER: Yeah, I had a  
8 list for Joanne Stewart.

9 MS. TESSIER: They were pretty eager to  
10 be on the phone, Joanne Stewart, so I'm not sure  
11 what's happening here with the disconnecting.  
12 We've been communicating all morning.

13 CHAIRMAN WEISENMILLER: Okay, great.  
14 Please go forward, Joanne.

15 MS. STEWART: -- Director of Public  
16 Policy for the Economic Development Corporation  
17 of Los Angeles County. We're probably better  
18 known as the LAEDC. Joining me today is also  
19 Michael Boehm from the Advanced Sustainability  
20 Institute. I have him conferenced in.

21 And first I want to thank you for your  
22 consideration of the Southern California Center  
23 for Alternative Fuels and Advanced Vehicle  
24 Technology. This is a critical program that will  
25 really unite the various activities throughout

1 the Southern California Region around these  
2 technologies to drive consumption, adoption,  
3 production design, development and demonstration.  
4 There are really two physical center locations,  
5 and Michelle was already mentioning, one is in  
6 Los Angeles County at the Los Angeles Clean Tech  
7 Incubator, and then another one that is in San  
8 Diego at the California Center for Sustainable  
9 Energy. We've also proposed the development of a  
10 Virtual Center website, which will house  
11 information on the two physical center locations,  
12 as well as much more.

13 We have tremendous partners in this  
14 proposal, including those that have already been  
15 mentioned with the Clean Tech Incubator and the  
16 California Center for Sustainable Energy. But we  
17 also have the Advanced Sustainability Institute,  
18 UCLA Smart Grid Energy Research Center,  
19 California State University Los Angeles, and we  
20 have so many more who are partners of ours, and  
21 also have contributed a variety of different  
22 types of matching funds. We are requesting the  
23 support of this funding allocation and we're  
24 excited to work with you, staff of the California  
25 Energy Commission, the public, stakeholders,

1 Southern California, California and beyond the  
2 Center, and we know it will be a tremendous asset  
3 to the region. So thank you.

4 CHAIRMAN WEISENMILLER: Thank you.  
5 Commissioners, any questions or comments?

6 COMMISSIONER SCOTT: I would just say  
7 thank you to Joanne and Michael for joining us.

8 CHAIRMAN WEISENMILLER: Great.

9 COMMISSIONER SCOTT: I will move approval  
10 of Item 17(a).

11 COMMISSIONER DOUGLAS: Second.

12 CHAIRMAN WEISENMILLER: All those in  
13 favor?

14 (Ayes.) This item passes 4-0 with one  
15 abstention.

16 So let's now go on to 17(b).

17 COMMISSIONER SCOTT: And I am going to  
18 recuse myself from Item 17(b) because I am  
19 serving on the Executive Committee of the Fuel  
20 Cell Partnership.

21 CHAIRMAN WEISENMILLER: And the  
22 relationship with the Fuel Cell Partnership?

23 COMMISSIONER SCOTT: The Fuel Cell  
24 Partnership is, I believe, one of the  
25 subcontractors under the Center.

1           CHAIRMAN WEISENMILLER: Thank you. So  
2 let me welcome Commissioner McAllister back.

3           So let's go on to 17(b).

4           MS. TESSIER: Okay. This agreement with  
5 U.C. Berkeley is for \$1,566,667 to develop a  
6 Northern California Center for Alternative  
7 Transportation Fuels and Advanced Vehicle  
8 Technologies. The acronym for this Center is  
9 NorthCAT.

10           The NorthCAT is a network of physical  
11 locations, institutional arrangements, and  
12 virtual communication systems to conduct a broad  
13 range of Alternative Fuel and Advanced Vehicle  
14 Technology demonstrations, training and outreach,  
15 and project facilitation programs.

16           Under this agreement, U.C. Berkeley will  
17 develop infrastructure and capabilities needed to  
18 provide these activities. The NorthCAT will have  
19 four physical locations and one website, the  
20 physical locations are Richmond Field Station in  
21 Richmond, California, Humboldt State University  
22 in Arcata, California, Prospect Silicon Valley in  
23 San Jose, California, and California Fuel Cell  
24 Partnership in West Sacramento, California.

25           This proposed project is estimated to

1 have a cumulative GHG emission reduction of 27  
2 million tons, and petroleum use reduction of 3.5  
3 million gallons by 2020, by conducting a broad  
4 range of alternative fuel and advanced vehicle  
5 technology demonstrations, training and outreach,  
6 and project facilitation programs.

7 In addition, U.C. Berkeley estimated the  
8 total jobs created from this project in its first  
9 year to be 60.5, including direct and indirect  
10 jobs.

11 And I am asking for the Commission to  
12 approve this project. And I also believe  
13 Professor Tim Littman from U.C. Berkeley is on  
14 the phone, as well, for any questions.

15 CHAIRMAN WEISENMILLER: I believe so.  
16 Professor Littman? Would you like to say a few  
17 words?

18 MR. LITTMAN: Yes. Can you all hear me?

19 CHAIRMAN WEISENMILLER: Yes.

20 MR. LITTMAN: Yes. Hello, everyone.  
21 Good afternoon. I have to apologize, I was  
22 waiting in the wings this morning, but because of  
23 the lunch break, I had to break away to a meeting  
24 across town with the Department of Energy, but  
25 wanted to be on hand to answer any questions. I

1 just want to say that, on behalf of the full  
2 project team which includes the partners  
3 mentioned, and I'll list them quickly, U.C.  
4 Berkeley, the Lawrence Berkeley National Lab,  
5 Humboldt State University, the Center for  
6 Transportation and Environment, the California  
7 Fuel Cell Partnership, the Prospect Silicon  
8 Valley Center, the Bay Area Climate  
9 Collaborative, and the Bay Area Air Quality  
10 Management District, we're very excited about  
11 this opportunity. The team feels like this is an  
12 incredibly well timed and oriented activity, and  
13 similar to the Southern California Center, we  
14 have a combination of physical centers, four  
15 physical centers in our case, and also a virtual  
16 networked center to conduct a range of  
17 alternative fuel and vehicle technology outreach,  
18 education and training programs across the  
19 Northern California region. And we're very  
20 excited about it and happy to answer any  
21 questions that the Commissioners may have about  
22 our proposed activities. Thank you.

23 CHAIRMAN WEISENMILLER: Well, thank you  
24 for being here this morning and for being on the  
25 line now. Commissioners, any questions or

1 comments?

2 COMMISSIONER DOUGLAS: No, no questions  
3 or comments. I think this is a really strong  
4 proposal. I'm happy to move approval of Item  
5 17(b).

6 COMMISSIONER MCALLISTER: I'll second.

7 CHAIRMAN WEISENMILLER: Okay, all those  
8 in favor?

9 (Ayes.) This item passes 4-0 with one  
10 abstention.

11 So let's go on to Item 18.

12 MS. TESSIER: Thank you.

13 CHAIRMAN WEISENMILLER: Thank you. Item  
14 18 is going to be Electric Vehicle Charging  
15 Infrastructure Grants, PON-13-606. Lindsee,  
16 please.

17 MR. TANIMOTO: Yes. Good afternoon, Mr.  
18 Chair and Commissioners. My name is Lindsee  
19 Tanimoto with Emerging Fuels and Technology  
20 Office of the Fuels and Transportation Division.  
21 I will be presenting for your approval today  
22 Agenda Item 18.

23 These 10 agreements are a part of the 35  
24 that were awarded in a Notice of Proposed Awards  
25 published on April 4, 2014. This Electric

1 Vehicle Charging Infrastructure solicitation  
2 provides funding for the insulation of electric  
3 vehicle chargers at destinations, workplaces,  
4 multi-unit dwellings, and in Corridors.

5 All the Grantees have been coordinated  
6 with their local or regional Plug-In Coordinating  
7 Vehicle Council on the location and the actual  
8 selection of the electric vehicle charger they're  
9 going to use.

10 I am seeking the possible approval of the  
11 10 Grant Agreements totaling \$3.5 million. Staff  
12 concurs with the Lead Agencies in their  
13 determination of the Notice of Exemption in  
14 complying with CEQA for the insulation of  
15 Electric Vehicle chargers along California  
16 highways, destination locations, and workplaces.

17 Eight agreements will be with public and  
18 nonprofits that will live in Corridors,  
19 destination and workplace charging, all with  
20 public access for \$3.2 million. Funding will  
21 cover the equipment and insulation of the  
22 electric vehicle chargers consisting of 77 Level  
23 2s, 33 Fast Chargers, and these will be located  
24 in the South Coast Air Basin, Fresno, San Diego,  
25 East and North Bays of the San Francisco Area,

1 and in the North Coast from Fortuna to Trinidad.  
2 Two of our agreements will be with private  
3 companies for workplace charging, and they also  
4 will be providing public access for over  
5 \$300,000. Fifth Level 2 electric vehicle  
6 chargers will be installed at five Kaiser  
7 Permanente sites in the Cities of Roseville, San  
8 Francisco, Los Angeles, Anaheim, and Irvine.  
9 Twenty-one Level 2 electric vehicle chargers will  
10 be installed at 11 Bio-Rad Laboratory sites in  
11 the Cities of Hercules, Benicia, Pleasanton, and  
12 Irvine. Staff has reviewed Notice of Exemptions  
13 for all 10 proposed projects and we concur.  
14 Staff recommends your approval of these  
15 exemptions that will be noted in the resolution  
16 that awards these Grant Agreements.

17 This concludes my presentation. Staff  
18 requests your approval of Item 18 and I'll be  
19 glad to answer questions you may have regarding  
20 these projects. And I also have a representative  
21 from both the South Coast and the Bay Area AQMDs  
22 that would like to speak to you. Thank you.

23 CHAIRMAN WEISENMILLER: That's very good.  
24 I think we have one party in the room and two on  
25 the line. So let's start with the Bay Area Air

1 Quality Management District, Linda Hui.

2 MS. HUI: Good afternoon, Chairperson and  
3 Commissioners. My name is Linda Hui and I'm with  
4 the Bay Area Air Quality Management District.  
5 I'm here to express our support of staff's  
6 recommendation to award the Alternative and  
7 Renewable Fuel and Vehicle Technology funding for  
8 the Bay Area Corridor Charging Expansion Project.

9 In the Bay Area, the transportation  
10 sector accounts for more than 50 percent of  
11 criteria pollutants and more than 40 percent of  
12 greenhouse gas emissions. Significant emission  
13 reductions from the on-road transportation sector  
14 are key to helping the Bay Area attain State and  
15 Federal Ambient Air Quality Standards. And Plug-  
16 In Electric Vehicles are a promising solution to  
17 help us meet emission reduction targets.

18 The Bay Area is home to approximately 37  
19 percent of Plug-In Electric Vehicles that have  
20 been purchased or leased in the state over the  
21 past three years. The Bay Area Corridor Charging  
22 Expansion Project will help to strengthen the  
23 region's limited fast charge network, increase  
24 the electric miles that can be driven, and  
25 further support the adoption and growth of Plug-

1 In Electric Vehicles.

2 Also in closing, I would like to  
3 recognize and thank the Emerging Fuels and  
4 Technologies Office staff and acknowledge their  
5 efforts to help accelerate the deployment of  
6 Plug-in Electric Vehicles in California and in  
7 the Bay Area. We very much appreciate your  
8 support on this project. Thank you.

9 CHAIRMAN WEISENMILLER: Thank you.  
10 Thanks for being here. We have two people on the  
11 line, right? Let's start with Mr. Boyd. Ah,  
12 sorry, please go ahead.

13 MS. KWON: Thank you. I'm Patricia Kwon  
14 of the South Coast Air Quality Management  
15 District. I'm in the Technology Demonstration  
16 Group. We're very pleased to accept this award.  
17 This is actually for six additional sites based  
18 on a previous award of 20 DC Fast Charge  
19 networks, so now it becomes 26, and it allows us  
20 to really expand the Fast Charging Corridors into  
21 Riverside and San Bernardino Counties, as well as  
22 L.A. and Orange Counties.

23 We're also very pleased to see that  
24 there's support of a number of projects in  
25 Southern California, so we look forward to seeing

1 a lot more Level 2 and Fast Charging across the  
2 state. Thank you very much.

3 CHAIRMAN WEISENMILLER: Well, certainly.  
4 Thanks again for being here and send our regards  
5 to Barry Wallerstein, and indicate we certainly  
6 enjoy working as a partner with the South Coast  
7 to deal with air quality issues there.

8 Now I think we have two parties on the  
9 line. Okay, fine.

10 MS. HARATUNIAN: Hello?

11 CHAIRMAN WEISENMILLER: Please. Please  
12 introduce yourself.

13 MS. HARATUNIAN: This is Gail Haratunian  
14 from Fresno State and I am here to thank the  
15 Commission. We're very excited to be able to  
16 provide EV charging stations to the University,  
17 to Fresno, and to the Central Valley. It's a  
18 true catalyst project because the infrastructure  
19 here has traditionally lagged behind the rest of  
20 the state. And the campus is highly visible,  
21 plus we're right off a main corridor, 168, so  
22 that EV Charging Station will be an icon for the  
23 public to see a real commitment to  
24 sustainability. Thank you.

25 CHAIRMAN WEISENMILLER: Thank you.

1 Anyone else on the line? Okay. Commissioners,  
2 any questions or comments?

3 COMMISSIONER HOCHSCHILD: Just a quick  
4 question. So about six months ago, if I'm  
5 remembering correctly, we had a member of the  
6 public come and basically rake us over the coals  
7 for not moving fast enough on EV charging  
8 infrastructure in the state, and relative to  
9 Oregon and Washington State. So I'd just be  
10 curious in your assessment at this point of how  
11 we're doing relative to those states, and what  
12 you anticipate in the next year or two looking  
13 ahead.

14 MS. KWON: If you're referring to fast  
15 charging and the fast charging corridor that was  
16 set up in Washington and Oregon, I think that has  
17 taken us a little longer to get going on that,  
18 and partly that's because, you know, some of the  
19 funding for Washington and Oregon was provided at  
20 an earlier date, but we feel that actually  
21 deploying the fast charging now actually makes  
22 perfect sense for our state because there is  
23 actually a new connector standard, there's a new  
24 set of Plug-In Electric Vehicles to support with  
25 fast charging. So this really gives us an

1 opportunity from the get go to install fast  
2 chargers with both CHADdeMO and Combo connectors,  
3 so perhaps some of that work in Oregon and  
4 Washington might have to be revisited to support  
5 that second standard. We feel at this point it's  
6 too early to choose what the winning fast  
7 charging standard is, so we're trying to just  
8 support the adoption of all Plug-In Electric  
9 Vehicles. So I think actually, even though the  
10 timing is later, I think it's perfectly in tune.

11 CHAIRMAN WEISENMILLER: Yeah, I was going  
12 to say Oregon has 75 percent of their people that  
13 live around I5, which we don't have the similar  
14 very central, you know, that one area and you've  
15 got everything covered, but we're a much more  
16 disparate state in population -- which gives  
17 Commissioner Scott a lot more headaches trying to  
18 get the infrastructure out.

19 COMMISSIONER SCOTT: So I would say thank  
20 you to Lindsee for the great presentation and to  
21 the Bay Area Air Quality Management District and  
22 South Coast, and also to Gail for calling in  
23 today. I think it's great to see this expansion  
24 of the infrastructure, especially in places like  
25 Fresno and San Bernardino. And one of the goals

1 of our Alternative and Renewable Fuel and Vehicle  
2 Technology Program is to help support the Zero  
3 Emission Vehicle mandate and Governor Brown's  
4 Zero Emission Vehicle Executive Order, which  
5 calls for one million on the road by 2020, and  
6 1.5 million on the road by 2025, and in order for  
7 us to get there we've got to have some of the  
8 infrastructure in place, and that's a critical  
9 role that the Energy Commission plays both with  
10 these Electric Vehicle Charging Grants and also  
11 with the Hydrogen Infrastructure piece that's  
12 coming up next.

13           COMMISSIONER MCALLISTER: I guess I just  
14 want to make an observation, you know, echoing  
15 what others have said, but I remember when I was  
16 at graduate school for the first time and I  
17 worked with the Bay Area Air Quality Management  
18 District to write a paper about VOC emissions and  
19 fume hoods, or something like that, in terms of  
20 air quality, and just came away incredibly  
21 impressed at the level of commitment and both  
22 technical expertise, but really beyond that the  
23 commitment and the kind of single-mindedness of  
24 each person I interacted with at that agency, and  
25 since then have seen also in South Coast just how

1 knowledgeable the folks are at that AQMD. And I  
2 feel like, you know, we talk about so ARB has  
3 this expanded role with AB 32, looking at carbon  
4 emissions, and I think it's worth highlighting  
5 sitting back and understanding and appreciating  
6 again how well-positioned, how successful the Air  
7 Quality Agencies have been in the state and how  
8 well-positioned that put them to deal with some  
9 of the modern issues we're dealing with on carbon  
10 emissions and really seeing that agency role  
11 flower.

12           And obviously there are many many  
13 Grantees here, so I don't want to single them out  
14 inappropriately, but I do feel like the Air  
15 Quality and Energy sectors are just so  
16 overlapping increasingly and I'm really pleased  
17 to see repeatedly all of our interaction from  
18 staff level all the way up to the Executive  
19 levels of the agencies. So, again, just  
20 reiterating what the Chair and others have said,  
21 that collaboration here really is key and it's  
22 happening and it's a really wonderful thing. So  
23 thank you.

24           I will move Item 18.

25           COMMISSIONER SCOTT: Second.

1                   CHAIRMAN WEISENMILLER: All those in  
2 favor?

3                   (Ayes.) Item 18 passes 5-0. Thank you.

4                   Let's go on to Item 19. Hydrogen  
5 Refueling Infrastructure Operation and  
6 Maintenance Grants. Sarah Williams, please.

7                   MS. WILLIAMS: Good afternoon,  
8 Commissioners and Chairman. My name is Sarah  
9 Williams and I'm with the Emerging Fuels and  
10 Technology Office. Last summer, staff wanted to  
11 know more about what hydrogen stakeholders needed  
12 to build the hydrogen infrastructure and we  
13 conducted an intensive survey and several  
14 workshops with that goal. One of the things that  
15 came up repeatedly in that process was the  
16 difficulties that stations had running, even if  
17 they were supported in building the station,  
18 because of the lack of customers. And I want to  
19 make sure that we thank all the stakeholders who  
20 were involved, they were very generous with their  
21 time and expertise.

22                   So in response to that need, staff  
23 developed in the recent solicitation Operation  
24 and Maintenance Grants. Those grants cover  
25 operation and maintenance costs for stations when

1 they're up and running. They cover three years  
2 at \$100,000 per year. And today I'm here to  
3 request approval for four of these grants. The  
4 four stations covered by this grant have been  
5 operational already, so these stations will be  
6 able to incur eligible operation and maintenance  
7 costs immediately. Upon execution, these grants,  
8 as I said, would provide \$100,000 per year for  
9 three years. The proposed grants are Air Liquide  
10 for the Los Angeles Airport Station, Mebtahi  
11 Station Services for the Harbor City Station, Cal  
12 State Los Angeles University Auxiliary Services  
13 for the Cal State L.A. station, and H2 Frontier  
14 for the Burbank Station.

15 I'm asking for two actions from the  
16 Commission today, first to concur with the  
17 staff's finding that the proposed projects are  
18 CEQA exempt and, second, to approve the proposed  
19 projects. I believe that Dan Poppe from H2  
20 Frontier and a representative from Cal State L.A.  
21 are on the phone.

22 CHAIRMAN WEISENMILLER: Okay. Please,  
23 David.

24 MR. BLECHMAN: Can you hear me?

25 CHAIRMAN WEISENMILLER: Yes.

1 DR. BLEKHMAN: Okay. Hi. Good  
2 afternoon. I am David Blekhman, Professor at Cal  
3 State L.A. and this is a second project that I'm  
4 involved in that is being in front of the  
5 Commission. I would like to thank you for  
6 supporting Cal State L.A. hydrogen station that  
7 was grand opened last week. This is a very  
8 important funding, operation and maintenance.  
9 The station will provide not only vehicles with  
10 hydrogen, but also educational and resource  
11 opportunities for hydrogen infrastructure, so we  
12 find that very valuable.

13 In addition, I would like to say that the  
14 station being funded by California Air Resources  
15 Board, Ahmanson Foundation and AAA, and so we are  
16 very happy that California Energy Commission is  
17 also stepping forward in supporting your  
18 stations. Thank you very much.

19 CHAIRMAN WEISENMILLER: Thank you. Mr.  
20 Staples, do you want to say anything?

21 MR. STAPLES: Yeah, I was just curious,  
22 okay, I was expecting that there were going to be  
23 -- is this the only part of the PON that you're  
24 considering --

25 CHAIRMAN WEISENMILLER: Yeah, that's

1 correct. This PON, well, among other things,  
2 there is at least an error in Mr. Elias's comment  
3 column, this is only dealing with the Operating  
4 Agreements, it's not dealing with the rest of the  
5 PON. And that's certainly what has been posted  
6 on the agenda all along. So anyway, that's all  
7 that is on. If you have anything you want to say  
8 on the topic, please go ahead.

9 MR. STAPLES: [Inaudible response]

10 CHAIRMAN WEISENMILLER: Okay, apparently  
11 not. So Commissioners, any questions or  
12 comments?

13 COMMISSIONER SCOTT: Sure. I will just  
14 add on this one, I wanted to underscore what  
15 Sarah mentioned in her presentation about the  
16 robust and transparent public process that we had  
17 that went along with this Program Opportunity  
18 Notice. We had workshops that the staff  
19 conducted, several workshops throughout the  
20 summer last summer, put together a draft proposal  
21 and asked for comments on that draft proposal,  
22 and then based on some of the public input that  
23 we got, updated it based on that. So there was a  
24 lot of thought that went behind putting together  
25 this solicitation and that included the piece

1 that has these Operation and Maintenance Grants.  
2 So I just kind of wanted to underscore what Sarah  
3 had mentioned there. Any questions? I will move  
4 approval of Item 19.

5 COMMISSIONER DOUGLAS: Second.

6 CHAIRMAN WEISENMILLER: Okay, all those  
7 in favor?

8 (Ayes.) So Item 19 passes 5-0. Thank  
9 you.

10 MS. WILLIAMS: Thank you.

11 CHAIRMAN WEISENMILLER: Let's go on to  
12 Item 20, which is Natural Gas Vehicle Incentives.  
13 Andre Freeman, please.

14 MR. FREEMAN: Good afternoon,  
15 Commissioners. My name is Andre Freeman and I'm  
16 from the Emerging Fuels and Technologies Office.  
17 Today I'm seeking approval of this Natural Gas  
18 Vehicle Incentive Reservation that will be funded  
19 through the Alternative and Renewable Fuel and  
20 Vehicle Technology Program. This incentive  
21 reservation was awarded through the Natural Gas  
22 Vehicle Incentive Solicitation that was released  
23 on January 27th of 2014. We had stopped  
24 accepting reservations on May 1st, and this one  
25 was a straggler that didn't come in time for last

1 month's Business Meeting.

2           The intent of this solicitation was to  
3 provide funding to help reduce the incremental  
4 costs for natural gas vehicles. The funding  
5 provided through this incentive program will  
6 promote the purchase of over 2,500 light-,  
7 medium- and heavy-duty vehicles in the State of  
8 California. These vehicles can range anywhere  
9 from light-duty passenger vehicles to heavy-duty  
10 goods movement and waste disposal vehicles.

11           These vehicles can provide viable options  
12 to reduce air pollution in high population  
13 regions. With the wide variety of duty cycles  
14 and operational locations, the benefits of the  
15 reduced tailpipe emissions can be by areas  
16 severely impacted by vehicle air pollution.  
17 Additional benefits can be achieved from the  
18 promotion of the natural gas sector with the  
19 further development of Low NO<sub>x</sub> Engines, which you  
20 heard about a few items ago, Natural Gas Electric  
21 Hybrids, and the promotion of biomethane in  
22 California.

23           In accordance with the California  
24 Environmental Quality Act Guidelines, staff has  
25 determined that this incentive reservation is not

1 a project or activity under CEQA.

2 Staff is asking the Commission for two  
3 actions today, the first is to find that the  
4 incentive reservation is not a project under  
5 CEQA, and the second is to approve the  
6 reservation itself. I'd like to thank you for  
7 your consideration of the item. I'll be  
8 available to answer any questions you may have.

9 CHAIRMAN WEISENMILLER: Thank you.  
10 Commissioners, any questions or comments?

11 COMMISSIONER SCOTT: I'll move approval  
12 of Item 20.

13 COMMISSIONER HOCHSCHILD: Second.

14 CHAIRMAN WEISENMILLER: All those in  
15 favor?

16 (Ayes.)

17 MR. FREEMAN: Thank you.

18 COMMISSIONER WEISENMILLER: Thank you.

19 Let's go on to Item 21. DOE-Lawrence  
20 Berkeley National Lab. David Hungerford, please.

21 MR. HUNGERFORD: Good afternoon,  
22 Commissioners. I'm David Hungerford with the  
23 Energy Efficiency Research Office in the Energy  
24 Research and Development Division.

25 This project is an agreement with the

1 Lawrence Berkeley National Lab for \$2.3 million  
2 in AB 118 Innovative Technology Funds to fund a  
3 demonstration project at Moffitt Field in  
4 Mountain View, to integrate building loads within  
5 Electric Vehicles to provide Demand Response in  
6 the California ISO's Proxy Demand Resource  
7 Market.

8           This builds on other projects with the  
9 Department of Defense in Southern California,  
10 which are providing ancillary services to the  
11 market by combining the vehicle batteries with  
12 building loads in both interrupting charging on  
13 the vehicles and actually utilizing the charge in  
14 the vehicles to feed back into the grid, and to  
15 demonstrate the viability of such a system  
16 integrated with building loads to provide a  
17 consistent resource for the ISO market.

18           This is a partnership with Department of  
19 Defense and with PG&E, who are providing together  
20 half the funding for this project. And so I ask  
21 for the approval of this project.

22           CHAIRMAN WEISENMILLER: Commissioners,  
23 any questions or comments?

24           COMMISSIONER MCALLISTER: I would just  
25 highlight, so thanks for the presentation, David.

1 I would just highlight all the innovative work  
2 that the Military is doing generally, certainly  
3 on Demand Response, they have a lot of reasons to  
4 be looking at it. And I think all of us, the  
5 rest of us are learning a lot as well along with  
6 them, and certainly the Commission has a  
7 partnership that the Chair largely leads to  
8 really work with the Military on various fronts,  
9 energy security issues for planning on a number  
10 of fronts, and certainly Demand Response, and  
11 Micro Grids are an essential part of that. And,  
12 you know, I am sure they are going to make sure  
13 that they can still land Air Force One when  
14 needed like they did last week, you know, while  
15 this project is going on. And just broadly  
16 speaking, we worked hard on pushing the Demand  
17 Response discussion forward last year on the IEPR  
18 and that's proceeding apace, I think, so that we  
19 can really begin to count on that as a resource  
20 that's going to help us with our long term  
21 planning, and this is I think a good piece of  
22 that puzzle. So I am fully supportive of this  
23 project. So thanks.

24 CHAIRMAN WEISENMILLER: Good. Valerie,  
25 do you want to say anything for PG&E?

1 Enthusiasm, no interconnection problems?

2 (Laughing)

3 MR. HUNGERFORD: They're actually  
4 providing money to deal with that particular  
5 issue, yes.

6 MS. WYNN: Hi. Valerie Wynn with PG&E.  
7 And I would love to say that our interconnection  
8 process is perfect, but I can say that we have  
9 been making improvements over the last few years  
10 to try to address some of the concerns folks have  
11 had. And I'll also say, ask if you could please  
12 repeat the question because we're having an  
13 emergency drill today and I'm part of our  
14 Emergency Operations Team, and so I was  
15 responding to an email, so I apologize for that.

16 CHAIRMAN WEISENMILLER: I thought for  
17 sure you wanted to say how enthusiastic PG&E was  
18 about the project and about Demand Response in  
19 general. (Laughing)

20 MS. WYNN: Thank you. Yes, we are very  
21 supportive of this project and actually I would  
22 say that we're definitely supportive of approval  
23 of this project, and I think earlier this year  
24 when we were having some challenges in early  
25 February, we were able to test out a lot of our

1 existing demand response programs at that time,  
2 and we're really encouraged with the success that  
3 we had. So having another demand response tool  
4 in our portfolio will be a great thing and we  
5 appreciate the support of this project. Thank  
6 you.

7 CHAIRMAN WEISENMILLER: Thank you. We  
8 enjoy the partnership.

9 COMMISSIONER SCOTT: I'll move approval  
10 of Item 21.

11 COMMISSIONER MCALLISTER: I'll second.

12 CHAIRMAN WEISENMILLER: All in favor?

13 (Ayes.) This item also passes 5-0.

14 Thank you, David.

15 MR. HUNGERFORD: Thank you.

16 CHAIRMAN WEISENMILLER: Let's go on to  
17 Item 22. Joint Renewable Energy and Advanced  
18 Generation and Energy Related Environmental  
19 Research Development and Demonstration Grants.  
20 Michael, please.

21 MR. SOKOL: All right. Good afternoon,  
22 Commissioners. My name is Michael Sokol with the  
23 Energy Generation Research Office. And as you  
24 mentioned, I'm here to present projects  
25 recommended for funding under the 2013 Joint

1 Renewable Energy and Advanced Generation and  
2 Environmental-Related Energy Research Development  
3 Grants Solicitation.

4           So that included projects that were  
5 recommended under four distinct research areas.  
6 The first research area was focused on developing  
7 advanced technology solutions for localized  
8 combined heat and power and combined cooling,  
9 heating and power, with a focus on increasing  
10 efficiency and reliability, reducing costs, and  
11 increasing the use of renewable and alternative  
12 fuels.

13           The second research area was focused on  
14 addressing the technical and economic challenges  
15 to develop and combine heat and power  
16 applications for associated gas from oil and gas  
17 production fields.

18           The third research area was focused on  
19 accelerated demonstration and deployment of  
20 localized combined heat and power capacity to  
21 support reliability in areas affected by the  
22 closure of the San Onofre Nuclear Generating  
23 Station, while also addressing the efficient use  
24 of natural gas and other resources.

25           And the fourth and final research area

1 was focused on the air quality implications of  
2 using biogas to replace natural gas, and that  
3 includes research on strategies to reduce  
4 emissions for direct use of biogas, potential  
5 operational issues associated with the use of low  
6 heating value gas, as well as a range of  
7 environmental issues affecting the use of biogas  
8 as a fuel.

9           A total of seven projects were  
10 recommended for funding under these four research  
11 areas for a total award amount of \$5.4 million of  
12 Public Interest Energy Research Natural Gas  
13 Funding.

14           And those projects include a project with  
15 the University of California at Davis to evaluate  
16 the chemical and biological hazards found in  
17 biogas produced at five different facilities, as  
18 well as their combustion emissions, to screen for  
19 toxic organic compounds, semi-volatile metals,  
20 and potential pathogens that could pose potential  
21 health problems under widespread adoption  
22 scenarios.

23           The second project is with EtaGen and it  
24 will design and fabricate a pre-commercial scale  
25 prototype of an advanced natural gas fueled free

1 piston compression engine. And this promising  
2 technology will be first demonstrated in a lab  
3 setting and later moved to a field demonstration  
4 site to evaluate the mechanical, electrical and  
5 emissions performance in a real world setting.

6           The project with University of California  
7 at Los Angeles will conduct a pilot demonstration  
8 of a new multi-fuel combined heat and power  
9 system capable of operating on a natural gas for  
10 base load generating and anhydrous ammonia for  
11 backup and peak power. This project aims to  
12 verify that Stirman Industries' advanced engine  
13 technology can provide a reliable and scalable  
14 distributed generation system capable of meeting  
15 South Coast Air Quality Management District's  
16 strict emission standards, and will evaluate the  
17 viability of renewable sourced ammonia as a zero  
18 carbon fuel.

19           The fourth project with University of  
20 California Irvine will develop and demonstrate a  
21 low cost natural gas fueled rotary engine based  
22 micro combined heat and power system for rapid  
23 deployment at commercial laundry facilities in  
24 Southern California.

25           The fifth project with Desert Power will

1 demonstrate and evaluate the ability of a high  
2 efficiency reciprocating engine-based system to  
3 provide hot water and chilling for a poultry  
4 processing plant in California. Waste heat will  
5 be used to power a thermal heat pump to provide  
6 simultaneous chilling and hot water pumping for  
7 the facility while maintaining a high coefficient  
8 of performance.

9           The sixth project presented today with  
10 CHA Corporation will conduct a field  
11 demonstration of an integrated pre- and post-  
12 combustion NO<sub>x</sub> emission control system for biogas  
13 powered engines based on a microwave technology  
14 developed in a previous Energy Commission Energy  
15 Innovation Small Grant fund, and this project  
16 aims to provide a reliable system for complying  
17 with South Coast Air Quality Management District  
18 and California Air Resources Board Emissions  
19 Standard for Biogas Engines.

20           There's also a seventh project that will  
21 be presented at the June Business Meeting with  
22 the University of California San Diego.

23           Each of these projects promises to take  
24 steps towards achieving California's co-  
25 generation policy goals and provides a range of

1 additional benefits to natural gas ratepayers.  
2 In total, the proposed projects will leverage  
3 over \$3.6 million in combined match funding  
4 provided by grant recipients and project  
5 partners.

6 Staff recommends the approval of these  
7 agreements and will be happy to answer any  
8 questions you may have. We also have a  
9 representative of CHA Corporation to discuss his  
10 project.

11 CHAIRMAN WEISENMILLER: Please. Please  
12 come up and identify yourself.

13 DR. CHA: Good afternoon, Commissioners.  
14 My name is Chang Yul Cha. I am the President of  
15 CHA Corporation. CHA Corporation is a small  
16 dynamic company using micro technology to solve  
17 environmental energy problems facing our country.  
18 CHA Corporation was founded in 1993 to develop  
19 and commercialize micro technologies. We moved  
20 from Miami to California mainly to commercialize  
21 micro technology for engine emission control and  
22 biogas upgrading as well as hydrogen production.

23 We have received funding from several  
24 sources, including three EISG Grants, two were to  
25 determine the feasibility of micro technology for

1 pre- and post-combustion NO<sub>x</sub> control. We are now  
2 working on our EISG grant to determine the  
3 feasibility of producing hydrogen from natural  
4 gas with no greenhouse gas emissions.

5 The new CEC project allows us to field  
6 demonstrate a two-part integrated microwave  
7 system dairy farm in Elk Grove. The successful  
8 development of this project will meet 2007 CARB  
9 emissions standards. Also, successful completion  
10 of this new CEC project will provide substantial  
11 benefits to California by generating all  
12 additional energy from bio resources.

13 The project is also an initial step to  
14 developing micro technology to convert all biogas  
15 to hydrogen for fuel cell hydrogen stations.  
16 Thank you very much, Commissioners.

17 CHAIRMAN WEISENMILLER: Well, thank you.  
18 Thank you for being here. I believe we also have  
19 on the line. Please go forward and please  
20 identify yourself and start. Peter Sinsheimer.

21 MR. SINSHEIMER: Yes, hello. This is  
22 Peter Sinsheimer from UCLA. Can you hear me?

23 CHAIRMAN WEISENMILLER: Yes, we can.

24 MR. SINSHEIMER: Ah, very good. So I'm  
25 Executive Director of UCLA's Sustainable

1 Technology and Policy Program, and the project  
2 that we are seeking funding for is to pilot a  
3 demonstration of a multi-fuel near zero NO<sub>x</sub>  
4 combined heat and power system capable of using  
5 natural gas for base load power and zero carbon  
6 renewable-based, anhydrous for back-up power and  
7 peak power. This will be demonstrated at a  
8 metals foundry in South Los Angeles who would  
9 serve as the demonstration site for this and  
10 we're working very closely with the City of Los  
11 Angeles and the South Coast AQMD with respect to  
12 the permitting for this pilot demonstration.

13           CHAIRMAN WEISENMILLER: Thank you.  
14 Commissioners, any questions or comments? I was  
15 going to say, I think this is again a very good  
16 set of projects. I think that we've done a lot  
17 with CHP on the technology side, I think this is  
18 building off of what we did in an earlier project  
19 with Tecogen, which actually is a gas-fired CHP  
20 project which had fewer emissions in fuel cells.  
21 So again I think the idea is, particularly in  
22 Southern California, it's really important to  
23 focus on the air issues and certainly that is  
24 where our demonstration projects are really going  
25 on the CHP side. So, again, pretty exciting

1 opportunities here.

2 COMMISSIONER MCALLISTER: I will move  
3 Item 22.

4 COMMISSIONER SCOTT: Second.

5 CHAIRMAN WEISENMILLER: All those in  
6 favor?

7 (Ayes.) This item also passes 5-0.

8 Thank you.

9 So let's go on to the Minutes. Possible  
10 approval of the April 22nd Business Meeting  
11 Minutes.

12 COMMISSIONER DOUGLAS: Move the Minutes.

13 COMMISSIONER MCALLISTER: Second.

14 CHAIRMAN WEISENMILLER: All those in  
15 favor?

16 (Ayes.) So this also passes 5-0. So  
17 Lead Commissioner and Presiding Member Reports.  
18 Commissioner Scott.

19 COMMISSIONER SCOTT: I have just a couple  
20 updates for you all. Since we last met,  
21 Commissioner Douglas and I have hosted one more  
22 Integrated Energy Policy Report workshop. This  
23 one I thought was really interesting, we talked a  
24 little bit about alternative financing mechanisms  
25 for the transportation program, and we had a

1 really interesting morning. We had a great  
2 presentation by John Butler on our staff to sort  
3 of talk about what the Commission does. We had  
4 David Green come and join us from the University  
5 of Texas, and he really laid out the importance  
6 of well-timed incentives and a report that he is  
7 doing that shows that in the future -- and I  
8 don't have it right in front of me, so I can't  
9 remember the exact date, but at some point in  
10 time, both Battery Electric Vehicles and Fuel  
11 Cell Electric Vehicles are anticipated to be less  
12 expensive than an internal combustion engine, and  
13 it's mostly because of the number of parts that  
14 they have to them. And so that was just a really  
15 nice frame for our day.

16           And then what we did was we explored some  
17 of the financial mechanisms that Assembly Bill 8  
18 lays out for us where we're able to do more than  
19 just grants under that program, and to think a  
20 little bit about whether additional incentives  
21 might make sense. And so we were joined by Tyson  
22 Eckerle and he actually kind of had his old hat  
23 on from Energy Independence Now to talk about  
24 market assurance grants. We had Charlie Meyers  
25 join us from the Massachusetts Hydrogen

1 Coalition, and they talked about a model that  
2 they have where they are matching the OEMs with  
3 the fleet provider, with the fuel provider, and  
4 what happens is the fuel provider will provide  
5 just enough fuel for that fleet, but it can also  
6 be scaled up, and that's how they're moving  
7 forward with hydrogen infrastructure in  
8 Massachusetts. We also heard from Cisco Devries,  
9 he talked to us about PACE. Renee Webster  
10 Hawkins, who talked to us from the Treasurer's  
11 Office, and John Rao from Kleiner Perkins. So we  
12 had a great set of folks to talk with us about  
13 financial mechanisms.

14           And then in the afternoon, we really  
15 talked about leveraging our funding opportunities  
16 and we heard from the Department of Energy, the  
17 U.S. EPA, the Bay Area Air Quality Management  
18 District, CalRecycle, and the California Air  
19 Resources Board, and just the different programs  
20 that we all have that are funding the  
21 transformation of our transportation fleet. And  
22 in some instances, folks are focused on off-road  
23 sector, you know, they're focused on the port, or  
24 on railroads, and most of our program is focused  
25 on on-road, or sometimes it's pre-commercial

1 versus research and development, and so there's  
2 some really neat ways that we might be able to  
3 use our funding to complement projects and help  
4 drive them along, and really leverage the  
5 investments that we're making without double-  
6 dipping, so that was the other piece that we had  
7 to be careful of, that not all of us are all  
8 funding the same thing with the same project.  
9 But it was a really interesting discussion, I  
10 thought, that we had.

11           The next IEPR workshop is coming up I  
12 think on the 28th and it's going to be about  
13 Climate Change, Transportation and Climate  
14 Change.

15           I wanted to let you also know a little  
16 bit about the Western Interstate Energy Board  
17 Meeting that I went to, it was in Denver at the  
18 end of April, and it was really an interesting  
19 meeting, but there were two studies that I wanted  
20 to highlight that the Western Interstate Energy  
21 Board is working on, and one is on the methane  
22 leakage issues from the Natural Gas Pipeline and  
23 the different studies, the different  
24 universities, the different folks who are kind of  
25 really digging into that, and they provided us

1 with a pretty interesting presentation. A lot of  
2 that is on the web page, so if it's something you  
3 all are interested in, I'd be happy to kind of  
4 dig up some of those presentations and send them  
5 to you, but it was a great conversation.

6           And the other thing we talked about were  
7 the interdependences between Western natural gas  
8 and electric systems. And this came up mostly  
9 because on the East Coast, during the polar  
10 vortex they had a little bit of shortage of  
11 natural gas getting to some of the power plants,  
12 and so the idea was, oh, can that happen out  
13 west? And should we look into that? And so  
14 we're just kind of at the beginning, it's a study  
15 that's going to be done by Arne Olsen at E3 and  
16 they're going to look into how that is working  
17 out west. But I thought that was a really  
18 interesting topic, as well, so I just wanted to  
19 highlight those two for you all.

20           I got to go on a terrific field trip with  
21 Commissioner Peterman from the Public Utilities  
22 Commission to visit the Geysers last week, which  
23 is actually the largest geothermal resource in  
24 the world. And we visited the Calpine site which  
25 has about 15 power plants, and together they can

1 provide up to 725 megawatts of geothermal power,  
2 and it was really neat to take a look at those  
3 and see what they're doing. They've got the  
4 pollution control technologies on the ones that  
5 have the high sulfur levels, we got to see the  
6 hot bubbling water that the steam was coming out  
7 of it. So it was pretty neat to just kind of get  
8 to go there, see that, and see it really is the  
9 world's largest operation in geothermal. So that  
10 was great.

11           And then last, I'll just end with thank  
12 you to Rhetta DeMesa who was just a superstar and  
13 served as an excellent interim Advisor to me  
14 while Leslie was on maternity leave. Rhetta did  
15 a terrific job and I can't thank her enough. And  
16 also to say welcome back to Leslie, so she's back  
17 from maternity leave and you'll see her just  
18 sitting right outside of my office again.

19           COMMISSIONER MCALLISTER: That's great.  
20 I'm going to have to follow your footsteps and go  
21 visit the Geysers, I think. And, yeah, they  
22 often don't get mentioned as much in our whole  
23 renewables discussion, but they are a key  
24 resource for the state and been there for a  
25 while.

1           So I just want to mention a couple of  
2 things. I actually was out for the last Business  
3 Meeting and I want to just -- and before and  
4 after that I was out for a little while, and I  
5 just want to thank my fellow Commissioners here  
6 for holding down the fort and keeping the  
7 necessary balls in the air while I couldn't pay  
8 full attention to them, so I appreciate that very  
9 very much.

10           Just a couple of highlights for me  
11 actually. I was able to go to see the President  
12 give a speech in person in Mountain View last  
13 week and that was quite an interesting  
14 experience, you know, national politics kind of  
15 comes to California. And the message was  
16 certainly a national message, I think maybe the  
17 reason he was at a Wal-Mart was because it was  
18 near Moffitt Field and he could get in and out,  
19 but I think it was an interesting dynamic, the  
20 local politics and the national message that he  
21 obviously needs to keep in mind. But overall,  
22 the message from the energy perspective was  
23 really a fantastic one, which is that the White  
24 House is reenergizing, so to speak, its efforts  
25 on the energy and climate front, energy

1 efficiency and renewables really are front and  
2 center. The follow-up announcements and sort of  
3 the whole package that the President spoke at a  
4 high level about was pretty substantive, a lot of  
5 good meat behind it. And literally hundreds of  
6 things going on across the country, and joint  
7 initiatives working with individual states,  
8 working with local jurisdictions, working on  
9 individual technologies, really kind of taking  
10 overall a market transformation message and  
11 trying to go as big as possible. I think many of  
12 us are familiar with the work that DOE is doing  
13 on trying to reduce costs and on the solar front  
14 obviously, and increasingly on the energy  
15 efficiency front in terms of really working with  
16 the marketplace to get scale. And so it's really  
17 exciting. And I was able to sort of sidle up and  
18 shake his hand and exchange some words, and  
19 there's a reason he's the leader of the free  
20 world, he's a very charismatic individual. And,  
21 you know, I think the fact that he came out here  
22 to our neck of the woods was a good opportunity  
23 for us to sort of interface and make sure that  
24 our leadership is also acknowledged and offer  
25 more of it to the Federal context. I really feel

1 like increasingly we are collaborating with the  
2 Federal Government productively, the Department  
3 of Energy and other agencies in a way that really  
4 does reinforce the overall goals that we have,  
5 and many of them are similar. So that was an  
6 interesting day, it's not that often when one  
7 gets the chance to shake hands with the sitting  
8 President, so maybe someday again.

9           And then just yesterday, actually, I went  
10 to the kickoff of the Envision Electric Campaign  
11 which is funded by the Metropolitan  
12 Transportation Commission in the extended Bay  
13 Area, and they are really going all out together  
14 with the Bay Area AQMD and others, other agencies  
15 to try to get Electric Vehicles really on the  
16 front page for car buyers. And so they are doing  
17 a lot of media activity and they're kind of  
18 trying to make it as easy as possible, and that  
19 was a nice event to sort of see in the heart of  
20 San Francisco and there was this progressive,  
21 very techno-savvy vibe around it, and I think in  
22 some ways it's kind of Ground Zero, you've got  
23 San Francisco and L.A., to some extent San Diego,  
24 which really are the places where EVs are taking  
25 hold. And I think our Demand Forecasts or our

1 transportation forecasts shows that we are on  
2 track, we think, to get to a million Electric  
3 Vehicles on the roads of California by 2020, and  
4 1.5 by 2025. And those are the kinds of events  
5 that really are going to make sure this happens  
6 and really get it into the marketplace and get  
7 people excited about these products.

8           And there was obviously a *Tesla* there  
9 and, you know, an EV event can't happen without a  
10 *Tesla*. There is an all-electric *Cadillac* that's  
11 out there now that's pretty darn sharp, but *Ford*  
12 *Focus* and the little *Fiat*, and the *Chevy Volt* has  
13 been around, really pioneering in this field, and  
14 the *Leaf* also, you know, the leading and most  
15 popular EV at the moment, they were all there and  
16 just every iteration gets better and better. So  
17 it's pretty exciting. I'm not the lead on  
18 transportation, obviously, I defer to  
19 Commissioner Scott on that, but even I could get  
20 excited about it, so anyway, that was a fun  
21 event. But those are the two main things that I  
22 wanted to mention briefly.

23           CHAIRMAN WEISENMILLER: So again, just a  
24 couple things for me, it's been a long day. One  
25 of them is I was going to mention that I was at

1 Brawley last Thursday and that was for the  
2 Hyperlink Event. We and SDG&E both found a very  
3 low cost solar thermal project and it was located  
4 at San Diego State University down there. It's  
5 interesting, they're trying to really do a  
6 renewable test bed, and obviously Imperial has a  
7 lot of sun, a lot of unemployment, so they're  
8 trying to really develop. This started out as an  
9 algae thing, and ultimately the algae wasn't  
10 really coming out, but they discovered they had a  
11 low cost way of getting thermal energy.

12           One of the things that was interesting  
13 about it was, too, we have the video on the Web  
14 and if you look at it, which we do with Sempra,  
15 they actually used a drone as part of the video  
16 to do an overflight over the system, so again,  
17 talking about the drone technology coming down in  
18 cost and stuff, but again the notion of saying --  
19 obviously you get a much better sense of the  
20 technology, not just looking up, but looking down  
21 at it and flying over. And this one might have  
22 some interesting applications as they try to  
23 scale it for some of the Salton Sea issues. This  
24 has a very low cost thermal sort of potential.

25           The other thing I was going to do, if you

1 can put the slide up, obviously we're getting  
2 into the summer of 2014 and I think I want to  
3 remind everyone that the first year we were  
4 without SONGS it was like an average year, one  
5 and two, last year was cooler than an average  
6 year, this year there's not much hope that it's  
7 going to -- I guess the law of averages is  
8 catching up with us and, as we know, climate is  
9 changing, so one of the basic things is obviously  
10 it's going to be a lot hotter, I think, a lot  
11 more of stressing the system, but also wildfires.  
12 I think, as you know, we had basically a high  
13 fire season since January throughout the state,  
14 more or less border to border. We have two fires  
15 today, one in San Diego, they've shut down a  
16 number of lines in San Diego, so there's about  
17 5,000 people without power. And also the fire  
18 near Carlsbad. So we may have to take the plant  
19 down. I just noticed I got a call from Steve  
20 Berberich, I'm not quite sure what the message  
21 is, but anyway, if we have to start taking down  
22 plants in San Diego because of fire, we could be  
23 losing more load fast. So bottom line, one of  
24 the things in talking about climate change is, if  
25 you look at the chart there, that's actually one

1 from Cal Fire, so just to be clear that, you  
2 know, it's not really us, and historically there  
3 used to be one bad fire about every decade, and  
4 if you look at that chart and you look at the  
5 last 10 years, the basic message is that the top  
6 20 fires in California history, about half of  
7 them have been in the last decade, and certainly  
8 this year is probably going to set new records.  
9 And along with the fires, obviously there's sort  
10 of phenomenal air quality impacts from the fires  
11 which is one of the drivers for why we try to do  
12 biomass. So one of our real concerns was we not  
13 be complacent this summer on trying to deal with  
14 the SONGS issues. And obviously the drought,  
15 too, but I think the issue is much more going  
16 from a 1 and 2 weather to 1 and 10, or 1 and 20,  
17 and/or large fires, particularly near  
18 transmission lines. So with that cheery note,  
19 Karen?

20 COMMISSIONER DOUGLAS: Well, that's a  
21 tough act to follow. All right, so maybe I'll  
22 lighten things up by pointing out that we are not  
23 quite half way through May is Bike Month, and the  
24 Energy Commission is going strong, please  
25 continue to log your miles, we have over 4,500

1 miles logged so far for the month of May, and  
2 we're looking pretty good in our employer ratings  
3 next to many many other Sacramento area  
4 employers, some of which are much bigger than us.  
5 So keep it up, everybody. Go team.

6 I might also mention that I have switched  
7 over in this biking endeavor to my own personal  
8 Plug-In Hybrid Electric Vehicle, it has pedals,  
9 it works very nicely (laughing).

10 CHAIRMAN WEISENMILLER: Okay, I guess,  
11 yeah, the basic message is we do have a  
12 transmission emergency in California.

13 COMMISSIONER DOUGLAS: Ouch.

14 CHAIRMAN WEISENMILLER: It's been  
15 declared by the ISO in the region south of SONGS.  
16 The fire is near substation lines, along the 220  
17 lines, two 30 KV lines, so that's bad.

18 COMMISSIONER DOUGLAS: Okay. Well,  
19 thanks for that. My only other report is that  
20 Commissioner Scott and I were in the Los Angeles  
21 area at the end of April for an informational  
22 hearing on the Alamitos proposal, and we also in  
23 that time were able to have a nice meeting with  
24 the General Manager of LADWP, Marcie Edwards, and  
25 also went over to the Antelope Valley area to

1 meet with the L.A. County Supervisor Antonovich's  
2 Office regarding renewable energy development.  
3 So that's my report.

4           COMMISSIONER HOCHSCHILD: Great. So my  
5 update, since we met last, I spoke at the  
6 dedication of Genesis thanks to Commissioner  
7 Scott for her work when she was in the Department  
8 of Interior, and the Chair, and Commissioner  
9 Picker, so 250 megawatts on line, and also, for  
10 those of you who haven't heard, the White House  
11 has actually now installed solar on the roof and  
12 they released a video of their PV system last  
13 week. Also did a visit to Lassen Municipal  
14 Utility District and the only joint geothermal  
15 biomass plant in the world up there, Honey Lake.  
16 And on Monday, Commissioner Scott and I are going  
17 to the China Lake Navy Base to visit some of the  
18 renewable energy projects they've done, and meet  
19 with Southern California Gas on Wednesday. So  
20 that's my update.

21           COMMISSIONER DOUGLAS: All right, so  
22 let's see, do we have a Chief Counsel's Report?

23           MR. LEVY: Yes. Good afternoon,  
24 Commissioners. It's always a privilege to  
25 introduce a new attorney to you. I'd like to ask

1 our latest addition to the Chief Counsel's Office  
2 to stand up. Michael Mirza graduated Magna Cum  
3 Laude from the College of Charleston with a  
4 triple major in Psychology, Philosophy, and  
5 Latin. He attended law school at U.C. Davis King  
6 Hall and passed the Bar last year. Michael comes  
7 to our office after spending a little less than a  
8 year as the Environmental Law Fellow at the  
9 California Environmental Law and Policy Center  
10 located at King Hall under the supervision of  
11 Professor Rick Frank.

12           During Law School, Michael completed  
13 internships at the California Air Resources  
14 Board, Environmental Defense Fund, and the Cal  
15 EPA Department of Toxic Substances Control. In  
16 law school, he was Editor of both *Environs*,  
17 *Environmental Law and Policy Journal*, and the  
18 *Business Law Journal*. Notably, he took renewable  
19 energy law with Mike Levy and Karen Douglas, an  
20 outstanding student, but that did not go into his  
21 evaluation or his merit for appointment here,  
22 except for the qualifications of his academic  
23 prowess. He won the Witkin Award for Academic  
24 Excellence in Energy Law, and was awarded the  
25 John and Mary Quirk Environmental Law Award and

1 was Co-Chair of the Environmental Law Society.  
2 One more thing to note, he is a black belt in  
3 three separate Martial Arts disciplines,  
4 Taekwondo, Jujitsu, and Okinawan Kempo. We  
5 anticipate he'll be working on appliance  
6 efficiency issues, AB 118, EPIC, and other  
7 various --

8 COMMISSIONER HOCHSCHILD: That should  
9 come in handy with Compliance, actually.

10 MR. LEVY: Please join me in welcoming  
11 him to the Commission.

12 COMMISSIONER MCALLISTER: Welcome, Mike.

13 COMMISSIONER DOUGLAS: Well, welcome,  
14 Michael. It's great to have you here. All  
15 right, so Public Advisor's Report.

16 MS. MATHEWS: Good afternoon. We have  
17 been busy. So for the beginning of the month, we  
18 started out, we accompanied staff to the Tribal  
19 Consultation Draft Meeting with some of our  
20 Native American Tribes in Southern California in  
21 Palm Springs. And the Public Advisors Office is  
22 actually an assistant tribal liaison. We also  
23 attended the El Segundo -- I think it was the PSA  
24 Workshop and helped the public understand that  
25 and hopefully we'll be moving forward with more

1 public outreach. We also attended the Alamitos  
2 Informational Hearing and we conducted quite a  
3 bit of community outreach and public outreach for  
4 that. We placed newspaper advertisements in the  
5 *Long Beach Press*, as well as in the Spanish  
6 Language *Impacto U.S.A. Magazine*, we also sent an  
7 email blast to several -- all of the surrounding  
8 elected officials, Mayors, as well as community  
9 organizations, and we also managed the site visit  
10 bus reservations for the members of the public  
11 who wanted to attend the site visit, as well.  
12 But of course, we facilitated public comment  
13 there. We helped with the set-up, and also we  
14 helped the public understand, we gave a  
15 presentation so that the members of the public in  
16 that area would understand how to participate in  
17 our process, deciding process as well as give  
18 them contact information of who to contact with  
19 the information for more follow-up.

20 In addition, we have consulted with staff  
21 in the Fuels and Transportation Division on how  
22 we can be supportive in their Notice of Proposed  
23 Awards, and the next phase of the process, and  
24 we've also consulted with staff in our Building  
25 Standards Unit as to how we can be supportive

1 with the roll-out of new standards or new testing  
2 methods, how we can engage and be supportive of  
3 engaging stakeholders and public officials. And  
4 that's it.

5 COMMISSIONER DOUGLAS: Thank you, Alana.  
6 Great work. I accidentally skipped the Executive  
7 Director's Report. Let's go there now. Drew?

8 MR. BOHAN: Nothing to report, thanks  
9 very much.

10 COMMISSIONER DOUGLAS: Thank you. That  
11 was nice and brief. Is there any public comment?  
12 Oh, go ahead.

13 MR. BOHAN: I will report Rob is at an  
14 emergency exercise in San Francisco today, that's  
15 why I'm here in his stead. And it seems timely  
16 given the Chair's remarks.

17 COMMISSIONER DOUGLAS: Absolutely. Is  
18 there any public comment? We have the Public  
19 Advisor.

20 MS. MATHEWS: I do want to make sure that  
21 we have two people who are on the line because  
22 they were apparently dropped. I believe one is  
23 Phil Staples and the other -- Paul Staples, I'm  
24 sorry -- and the other is Dan Poppe.

25 CHAIRMAN WEISENMILLER: Great.

1 MS. MATHEWS: P-o-p-p-e, yes. So if we  
2 could just check that they're on the phone, and  
3 if they're not, if we can just wait a few minutes  
4 until they are.

5 CHAIRMAN WEISENMILLER: Sure.

6 MR. POPPE: I'm on the line.

7 CHAIRMAN WEISENMILLER: Okay, we're at  
8 the Public Comment phase, so Mr. Staples?

9 MR. POPPE: The name is Dan Poppe.

10 CHAIRMAN WEISENMILLER: Dan Poppe. Sure,  
11 go ahead.

12 MR. POPPE: I just wanted to thank the  
13 Commission for their insight in helping station  
14 developers such as myself remain active with  
15 older stations that are still waiting for the  
16 cars to be deployed, and it's this O&M grant  
17 that's going to keep these stations open, and the  
18 best part is the valuable data that is being  
19 collected and shared with the CEC and other  
20 station developers so that we can have a high  
21 reliability to gain the consumer confidence that  
22 we need to make this technology become viable and  
23 commercially acceptable by the public. So I just  
24 wanted to thank their insight and their  
25 generosity and I hope we continue down the road

1 we're going and I'm excited about the whole  
2 thing. So thank you very much.

3 COMMISSIONER DOUGLAS: Thank you. Is  
4 there any other public comment?

5 CHAIRMAN WEISENMILLER: Yeah, he was on  
6 the line, he asked a question, but he didn't say  
7 anything, so the question was whether he was cut  
8 off, although again -- no, that's good, yeah, we  
9 should try to figure out -- okay, great. Please,  
10 Mr. Staples, I understand you were cut off.  
11 Please go ahead.

12 MR. STAPLES: Okay, yeah. I was just  
13 wondering in reference to the 607 station NOPA  
14 that was released recently, when is that due to  
15 be considered?

16 CHAIRMAN WEISENMILLER: Well, I would  
17 look to the staff. I believe the answer is the  
18 awards have been given, but agreements have to be  
19 negotiated with the winners, such as you, and  
20 then it will come back to the full Business  
21 Meeting after agreements have been reached.

22 MR. STAPLES: Oh, okay, I wasn't sure. I  
23 thought that just the NOPA had to be approved.  
24 Okay, so obviously they've been doing a very  
25 quick job in getting those operation agreements

1 done and so our congratulations on that. And I'm  
2 looking forward to it. That's all.

3 CHAIRMAN WEISENMILLER: Staff, do you  
4 have a sense of what Business Meeting we are  
5 targeting to have all these agreements back,  
6 because we would like to move fast on them? But,  
7 again, we need good agreements, too.

8 MS. WILLIAMS: We estimate that the  
9 awards for the Hydrogen Fueling Stations may  
10 potentially be presented in the upcoming July  
11 Business Meeting, but as you were saying  
12 eloquently, that depends on getting the  
13 agreements all negotiated, written up, and also  
14 the CEQA process.

15 CHAIRMAN WEISENMILLER: Okay.

16 MR. STAPLES: Okay.

17 CHAIRMAN WEISENMILLER: So anyway, so  
18 certainly work on the agreements diligently and  
19 the CEQA analysis so we can come back and move  
20 those along.

21 MR. LEVY: Chairman, just a  
22 clarification. The Proposed Awards.

23 CHAIRMAN WEISENMILLER: Proposed Awards,  
24 yes. Yes, we will vote then, not presupposing  
25 how we will vote.

1           MR. STAPLES:   Okay, that's the only  
2 question I had.

3           CHAIRMAN WEISENMILLER:   Great.

4           MR. STAPLES:   And you have yourself a  
5 good day.

6           CHAIRMAN WEISENMILLER:   Thank you.  
7 Again, having said that, it seems that the fires  
8 are both around SONGS in South Orange County and  
9 around Carlsbad and South, and inland through San  
10 Diego.

11           COMMISSIONER MCALLISTER:   Actually, it  
12 looks like it's wrapping around San Diego, sort  
13 of really to the east of San Diego, almost all  
14 the way around to the east of San Diego.

15           CHAIRMAN WEISENMILLER:   Again, sort of  
16 like three subs in Orange County, or down, so,  
17 yeah.   Anyway.   Please, go ahead.   Well, anyway,  
18 these are reports I'm getting, again, it could  
19 well be errors on them, but from the fields.

20           UNIDENTIFIED SPEAKER:   Timothy Moore is  
21 on the line for number 4.

22           CHAIRMAN WEISENMILLER:   Sure.   Does he  
23 know four has been obviously approved?   Sure.   I  
24 guess, Drew, we did seem to have a lot of people  
25 dropped, and we were gone very long, but if there

1 is a WebEx problem, we need to make sure it's  
2 fixed.

3 MR. STAPLES: Hello?

4 CHAIRMAN WEISENMILLER: Hi. Go ahead.

5 MR. STAPLES: Yeah, hello? Oh, okay.  
6 Sorry. Bye.

7 CHAIRMAN WEISENMILLER: Okay. He's gone.  
8 Okay, please, Mr. Moore. I was going to ask the  
9 Public Advisor if she could reach out to the  
10 gentlemen. He spoke first, so okay. This  
11 Business Meeting is adjourned.

12 (Whereupon, at 2:45 p.m., the Business Meeting  
13 was adjourned.)

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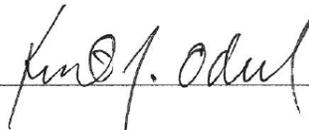
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I do hereby certify that the testimony in the foregoing hearing was taken at the time and place therein stated; that the testimony of said witnesses were reported by me, a certified electronic court reporter and a disinterested person, and was under my supervision thereafter transcribed into typewriting.

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IN WITNESS WHEREOF, I have hereunto set my hand this 24th day of June 2014.



A handwritten signature in cursive script, appearing to read "Kent Odell", is written over a horizontal line.

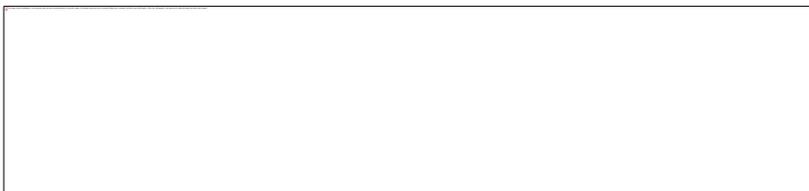
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IN WITNESS WHEREOF, I have hereunto set my hand this 24th day of June, 2014.



Karen Cutler  
Certified Transcriber  
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