RTR Appendix

Southern California Edison, Pacific Gas and Electric, Southern California Gas, and San Diego Gas and Electric ("Joint Utilities" or "Joint IOUs") developed Responses to Recommendations (RTR) contained in the evaluation studies of the 2013-2015 Energy Efficiency Program Cycle. This Appendix contains the Responses to Recommendations in the report:

RTR for the Codes and Standards Compliance Improvement Program Years 2013-14
Process Evaluation Final Report (DNV GL, Calmac ID #CPU0129.01, ED WO
#ED_D_CS_3)

The RTR reports demonstrate the Joint Utilities' plans and activities to incorporate EM&V evaluation recommendations into programs to improve performance and operations, where applicable. The Joint IOUs' approach is consistent with the 2013-2016 Energy Division-Investor Owned Utility Energy Efficiency Evaluation, Measurement and Verification (EM&V) Plan¹ and CPUC Decision (D.) 07-09-043².

Individual RTR reports consist of a spreadsheet for each evaluation study. Recommendations were copied verbatim from each evaluation's "Recommendations" section. In cases where reports do not contain a section for recommendations, the Joint IOUs attempted to identify recommendations contained within the evaluation. Responses to the recommendations were made on a statewide basis when possible, and when that was not appropriate (e.g., due to utility-specific recommendations), the Joint IOUs responded individually and clearly indicated the authorship of the response.

The Joint IOUs are proud of this opportunity to publicly demonstrate how programs are taking advantage of evaluation recommendations, while providing transparency to stakeholders on the "positive feedback loop" between program design, implementation, and evaluation. This feedback loop can also provide guidance to the evaluation community on the types and structure of recommendations that are most relevant and helpful to program managers. The Joint IOUs believe this feedback will help improve both programs and future evaluation reports.

Page 336, "Within 60 days of public release of a final report, the program administrators will respond in writing to the final report findings and recommendations indicating what action, if any, will be taken as a result of study findings. The IOU responses will be posted on the public document website." The Plan is available at http://www.energydataweb.com/cpuc.

Attachment 7, page 4, "Within 60 days of public release, program administrators will respond in writing to the final report findings and recommendations indicating what action, if any, will be taken as a result of study findings as they relate to potential changes to the programs. Energy Division can choose to extend the 60 day limit if the administrator presents a compelling case that more time is needed and the delay will not cause any problems in the implementation schedule, and may shorten the time on a case-by-case basis if necessary to avoid delays in the schedule."

Recommendations may have also been made to the CPUC, the CEC, and evaluators. Responses to these recommendations will be made by Energy Division at a later time and posted separately.

Response to Recommendations (RTR) in Impact, Process, and Market Assessment Studies

Study Title: Codes and Standards Compliance Improvement Program Years 2013-14 Process Evaluation Final Report

Program: Codes and Standards

 Author:
 DNV GL

 Calmac ID:
 CPU0129.01

 ED WO:
 ED_D_CS_3

Link to Report: http://www.calmac.org/publications/ComplianceImprovementImpactEvaluationDraftReport_FINAL-OUT.pdf

					Disposition	
				Recommendation	(Accepted,	Disposition Notes
Item #	Page #	Findings	Best Practice / Recommendations	Recipient	Rejected, or Other)	(e.g. Description of specific program change or Reason for rejection or Under further review)
1a	66	The IOU CI program trainings were a series	1. Provide more focused trainings: Our	All IOUs	Accepted	We agree completely with the recommendations of simplifying the code for building
		of role and/or project based trainings that	findings indicate that participants find value			industry members, maximizing building department members' time-effectiveness, and
		were well received by participants. The	in the ECA trainings. However, while the			focusing on hands-on activities with immediate feedback for sample projects.
		strength of the ECA trainings was that the	trainings provide a lot of information on			
		information provided on the energy code	broad aspects of code compliance and build			• The current courses for Plans Examiners and Building Inspectors (PE & BI) include
		was comprehensive. Participants reported	knowledge of the energy code, they may			multiple "hands-on," case-study based activities using the sample projects and the
		the trainings served to provide a knowledge	not be leading to improved code			relevant Plans Examiner Checklist and Building Inspector Checklist (developed by ECA
		base on the energy code, provided practical	compliance. All market actors, especially			and approved by the Energy Commission), which are designed to focus attention on key
		information on how to find out more	plan checkers and building inspectors, have			aspects of determining a project's compliance with Title 24, Part 6.
		detailed code information, and provided	limited time available per project to focus			
		take home materials to use as an ongoing	on energy code. We recommend that the			In addition, case study materials for the Nonresidential PE & BI course include the
		resource.	IOUs, perhaps in conjunction with BayREN,			updated NRCC-PRF-01 form. The ECA team worked with the Energy Commission, the
			work to identify areas of the code that are			association of California Building Officials' (CALBO's) Energy Committee and various
		The trainings could benefit from three	most vulnerable to noncompliance. We			building departments throughout the state to update this Certificate of Compliance to
		measures:	suggest the IOUs develop focused, targeted			make the form easier to read and use (now only the PRF version of the form must be
			trainings that address these areas of the			submitted for a project instead of the PRF along with Prescriptive forms for the project)
			code to both the supply side (building			and to include a chart highlighting the "high-value" measures for a given project, and
			department staff) and the demand side			which is customized based on the project's compliance strategy.
			(building industry members). Specifically,			
			the IOUs should consider trainings that aim			The updated form makes plan checking faster and easier, and in our classes, plans
			to:			examiners get practical experience using the project-specific energy use chart to
			a. Simplify the code for building industry			prioritize their time based on the "high-value" measures in the project.
			members and provide trainings that are			
			applicable to targeted groups (i.e.			The current courses for Energy Consultants, Designers and HVAC contractors also
			electricians that focus on residential			include multiple "hands-on," activities based on sample projects that parallel
			improvements).			participants' on-the-job responsibilities related to compliance with Title 24, Part 6.
			b. Maximize building department			
			members time effectively			• Later this year (2016), we plan to further refine all of these courses to minimize the
						presentation time and focus more on activities using ECA tools and resources (Forms
			The trainings should be hands-on and offer			Ace, Reference Ace, Checklists, Fact Sheets, Trigger Sheets, etc.) to direct their on-the-
			instant feedback for sample projects,			job efforts and to complete their compliance-related responsibilities as time-effectively
			identify common pitfalls, and provide			as possible.
			examples of compliant and non-compliant			
			projects. These trainings should be updated			Additionally, we have expanded our online course offerings to better help participants
			frequently as needs of building department			use time effectively, allowing them to take classes when and where they prefer. (See our
			and industry change.			response to the recommendation to "Expand online trainings" for more detail.)

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1b	66		2. Expand online trainings. Users were very	All IOUs	Accepted	We agree that online offerings are especially effective in reaching busy professionals
			satisfied with the online trainings that were			and those who are located in more remote areas.
			offered by ECA as described in previous			
			sections. The evaluation team recommends			We currently have two major types of online training:
			offering more of the Title 24 Essentials			"Virtual classes" (v-classes) are live, online instructor-facilitated training that parallel
			training series online, especially the			the kinds of activities incorporated in our traditional classroom training (individual and
			trainings targeted to the building industry,			small-group "hands-on" activities based on typical "real-world" situations). We currently
			who are less likely to come to classroom			offer V-class formats of the following Energy Code Ace Title 24 Part 6 Essentials classes:
			training. Further, users stated they wanted			o Residential Standards for Energy Consultants
			more examples and "how-tos." The online			o Nonresidential Standards for Energy Consultants
			platform could provide great resource for			o Residential Modeling
			short videos on how to fill out specific			o Nonresidential Modeling
			energy code forms, how to navigate the			o Standards for Refrigeration in Retail Food Storage
			ECA website, and how to ensure proper			Online self-study courses are on-demand training that people can complete at their
			installations of energy efficient equipment.			own pace at their convenience. We currently offer online self-study formats of the
						following Energy Code Ace Title 24 Part 6 Essentials classes:
						o Residential Standards for AC Quality Installation Contractors
						o Residential Standards for Indoor Lighting
						o Residential Standards for Ventilation
						o Nonresidential Standards for Indoor Lighting Mandatory Measures
						o Nonresidential Standards for Indoor Lighting Prescriptive Compliance
						We are currently developing a series of "blended learning" opportunities that use a
						combination of traditional classroom training, v classes, and online self-
						studies—supported by personalized mentoring opportunities—to do a deep dive on key
						facets of compliance and to help energy consultants build the skills and knowledge
						associated with achieving Certified Energy Analyst (CEA) status.
						Our plans for next year (2017) include producing more interactive online self-study
						courses targeted to building professionals, focusing on how to perform their role-
						specific responsibilities related to Title 24 Part 6.
						We also agree that videos can be an effective teaching tool, and we have added one on
						the ECA site and its offerings. The Energy Commission's online resource center (ORC)
						includes many videos on Title 24 compliance and there are plans to add more. ECA
						coordinates closely with the Energy Commission to ensure we are cross-promoting
						resources and not duplicating materials and efforts.

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1c	66-67		3. Improve the reach of the trainings	All IOUs	Accepted	ECA strives to dramatically improve compliance with Title 24, Part 6 and Title 20 by
			through strategic partnerships. The IOUs			working with industry stakeholders to understand their code compliance barriers and
			should partner with code related			implementing solutions designed to address key market actors' specific job tasks and
			organizations to provide links to the ECA			needs. We understand the critical importance of strategic partnerships with key
			training website. As knowledge of the			stakeholders to achieving our goals, and have successfully built and strengthened
			energy code spreads, the time it takes for			relationships with such organizations as the Energy Commission, CALBO, County Building
			permit applicants and issuers to fill out and			Officials of California (CBOAC), International Code Council (ICC), California Association of
			process forms will decrease. One theme			Building Energy Consultants (CABEC), American Institute of Architects California Council
			that emerged from web survey respondents			(AIACC), United States Green Building Council (USGBC), Association of Energy Engineers
			was that the building department staff			(AEE), Construction Specifications Institute (CSI), Institute of Heating and Air
			spends a significant amount of time			Conditioning Industries (IHACI), American Society of Heating, Refrigerating and Air-
			explaining codes and standards			Conditioning Engineers (ASHRAE), California Lighting Technology Center (CLTC),
			requirements to permit applicants. The CI			International Association of Lighting Designers (IALD) and the Illuminating Engineering
			programs should aim to increase their reach			Society (IES), and the local chapters of these associations across California. We have also
			with strategic partnerships in industry and			broadened our reach to local governments through such endeavors as the Statewide
			equipment distributors. They should also			Energy Efficiency Collaborative (SEEC) and the IOU Local Government Partnerships.
			leverage partnerships with local			
			governments and encourage them to use			ECA outreach activities include fostering relationships with these and other
			resources and trainings available to permit			organizations to extend campaign reach to their members via email messages,
			applicants. The IOUs should consider the			newsletter articles, website content and advertisements. These partners now routinely
			possibility of offering trainings that qualify			list EnergyCodeAce.com as a prime resource and help distribute messaging for ECA,
			for continuing education credits to further			adding to the program's reach and credibility. ECA is featured on the Energy
			broader reach.			Commission's newly launched Tile 24 ORC (http://www.energy.ca.gov/title24/orc/) and
						the Energy Commission's Title 24 hotline staff routinely refers callers to ECA resources,
						tools and training. Shortly after the ECA site launch, we worked with the Energy
						Commission to send each of the nearly 600 building department offices across California
						jump drives and collateral materials to help them help their customers. This was
						repeated again in 2016 in preparation for the new Title 24, Part 6 standards becoming
						effective January 1, 2017. Our targeted outreach activities also included promotional
						sponsorships, presentations (both in person and virtual) and tabling events at chapter
						meetings, conferences and trade shows. ECA had a presence at over 70 industry events
						and webinars in 2015 – 2016. The key organizations listed above produced the majority
						of these and promoted ECA and our participation to their members and attendees via
						websites, emails, and electronic and print publications.
						, , , , , , , , , , , , , , , , , , , ,
						We also routinely collaborate with these partners to inform our tools, resources and
						trainings – as well as theirs. For example, our new Designer Essentials Course, with
						nonresidential architects as the target audience, was developed in conjunction with the
						Energy Commission and with input from AIACC. In addition, AIACC and its local chapters
						sent members to the pilot of this course at PG&E's Pacific Energy Center where feedback
						was provided on the course structure, content and activities. ECA partnered with CABEC
1	1	I	1	I	I	produced on the source structure, content and activities, Early attricted with Choice

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						to establish the CEA exams, and currently we are working with the organization and
						surveying its members to better understand how the code could be simplified for ease
						of use. We coordinate with the Energy Commission to review all ECA tools and resources
						before publication, and to revise forms (e.g., the above-mentioned NRCC-PRF-01), and
						compliance manuals to make them more user-friendly.
						We also concur that it is important to help building department staff reduce the amount
						of time they spend explaining codes and standards to their customers. The ECA Fact
						Sheets and Trigger Sheets are designed to be used as building department counter staff
						as "customer handouts" that quickly and clearly communicate the need-to-know
						requirements for specific project measures (lighting, HVAC, fenestration, plan permit
						process, etc.). These resources are introduced in training designed for building
						department personnel, and are made available to building departments through
						download from the ECA website.
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						In addition, the 2016 Application Guides, which we are developing in cooperation with
						the Energy Commission, focus on specific measure areas and present the essentials in
						terms that resonate with building industry professionals and include specific examples
						of what does and does not comply with Title 24, Part 6. Building department staff can
						refer customers to these Guides when they want a more in-depth understanding of
						options and considerations for a specific measure area.
						options and considerations for a specific measure area.
						The Forms Ace is an interactive online tool that provides specific guidance on the
						compliance documentation required based on project-specific information. Many
						building departments have found it a great time-saver to be able to refer their
						customers to this tool to determine what they need to submit with a permit application.
						, , , , , , , , , , , , , , , , , , , ,
						In support of certification and to broaden our reach, we worked with the ICC to achieve
						Preferred Education Provider status for Energy Code Ace training offerings.
						All of our courses (traditional classroom, v-class, and online self-studies) now qualify
						for ICC continuing education credits (CEUs), which are required for the many ICC
						certifications.
						All of our courses also are recognized by CABEC for CEUs required for CEA
						credentials.We also have been instrumental in helping CABEC develop their robust
						certification program, including the CEA exam.
						section program, moraling the our count
						ECA traditional classroom courses for energy consultants and designers are recognized
						by the AIA for CEUs, and this year we are pursuing gaining AIA accreditation for our
						online training opportunities.
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2a	67	The ECA website has become widespread in use during the relatively short time it has been live. Based on our research, the evaluation team recommends the following three ways to improve user experience and optimize the website for all users:	Improve functionality of the ECA website. Our findings indicate that the ECA website is a welcomed tool and popular destination for building department	All IOUs	Accepted	ECA believes strongly in continuous improvement and providing performance-based resources to the broad range of industry stakeholders that drive code compliance. We agree that all our offerings, including the site, must be informed by the ever-changing needs of this diverse community. In 2016 we conducted research, including interviews with ECA site users, to determine how we could better serve the industry. We are currently working on upgrading functionality and making the site even more inviting and easy to use. Site revisions are due to roll out by year end.
2b	67		2. Improve organization of the ECA website. Again, our findings indicate that the ECA website is a welcome, well-used resource by the building community. However, users found the website confusing to use and not intuitive. A number of specific suggestions indicated that the website should be organized by climate zone, compliance form, building area, or project type. Website users were also mostly unaware of available resources such as hotlines and help available through info@energycodeace.com. Building industry members were least likely to be regular visitors of the ECA website, which could be an indication that the current format of the information is not meeting their needs. We recommend that the IOU CI team further explores why and how users are coming to their website and how the site organization could be improved to best meet user needs.	All IOUs	Accepted	Please note the response above also addresses this recommendation.
2c	67		3. Partner and integrate. CI program implementers should take steps to form and strengthen partnerships with professional organizations frequented by the building community (such as CABEC, the American Institute of Architects, the international code council, and CALBO) and code enforcement agencies. They should	All IOUs	Accepted	ECA strives to dramatically improve compliance with Title 24, Part 6 and Title 20 by working with industry stakeholders to understand their code compliance barriers and implementing solutions designed to address key market actors' specific job tasks and needs. We understand the critical importance of strategic partnerships with key stakeholders to achieving our goals. In order to be as effective as possible, we have approached our activities in a somewhat staged manner, beginning with a focus on market actors and related industry organizations considered initial primary targets due to their potential to garner significant energy savings, and with the plan to extend our

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			continue to build and leverage current			reach successively to those with lower savings potential. While all potential market
			partnerships with local jurisdictions.			actors have been included in our efforts, building department personnel and energy
			Information supplied by ECA could be			consultants were first targeted more pointedly, followed closely by design professionals
			customized for jurisdictions and added			and trades contractors for HVAC, retail and office lighting and envelope measures, and
			directly to building department websites.			HERS raters. We will continue to grow our partnerships as we continue to expand our
			Further, the IOUs should consider further			efforts throughout the market actor chain just as we have done in 2016 with the
			research to investigate where building			architectural community. Please see the reference to our new Designer Essentials
			industry members seek information on the			course and AIACC collaboration noted below.
			energy and or other codes and develop a			
			presence there. These partnerships could			Using this approach, we have successfully built and strengthened relationships with such
			expand the reach of ECA and provide			organizations as the Energy Commission, CALBO, CBOAC, ICC, CABEC, AIACC, USGBC,
			consistency in messaging about energy			AEE, CSI, IHACI, ASHRAE, CLTC, IALD and IES, and the local chapters of these associations
			code requirements statewide.			across California. We have also broadened our reach to local governments through such
			·			endeavors as the Statewide Energy Efficiency Collaborative (SEEC) and the IOU Local
						Government Partnerships.
						ECA outreach activities include fostering relationships with these and other
						organizations to extend campaign reach to their members via email messages,
						newsletter articles, website content and advertisements. These partners now routinely
						list EnergyCodeAce.com as a prime resource and help distribute messaging for ECA,
						adding to the program's reach and credibility. ECA is featured on the Energy
						Commission's newly launched Tile 24 ORC (http://www.energy.ca.gov/title24/orc/) and
						the Energy Commission's Title 24 hotline staff routinely refers callers to ECA resources,
						tools and training. Shortly after the ECA site launch, we worked with the Energy
						Commission to send each of the nearly 600 building department offices across California
						jump drives and collateral materials to help them help their customers. This was
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						repeated again in 2016 in preparation for the new Title 24, Part 6 standards becoming
						effective January 1, 2017. Our targeted outreach activities also included promotional
						sponsorships, presentations (both in person and virtual) and tabling events at chapter
						meetings, conferences and trade shows. ECA had a presence at over 70 industry events
						and webinars in 2015 – 2016. The key organizations listed above produced the majority
						of these and promoted ECA and our participation to their members and attendees via
						websites, emails, and electronic and print publications.
						We also routinely collaborate with these partners to inform our tools, resources and
						trainings – as well as theirs. For example, our new Designer Essentials Course, with
						nonresidential architects as the target audience, was developed in conjunction with the
						Energy Commission and with input from AIACC. In addition, AIACC and its local chapters
						sent members to the pilot of this course at PG&E's Pacific Energy Center where feedback
						was provided on the course structure, content and activities. ECA partnered with CABEC
						to establish the CEA exams, and currently we are working with the organization and
						surveying its members to better understand how the code could be simplified for ease
						of use. We coordinate with the Energy Commission to review all ECA tools and resources
						before publication, and to revise forms (e.g., the above-mentioned NRCC-PRF-01), and
						compliance manuals to make them more user-friendly.
						compliance manuals to make them more user-menuly.

				Recommendation	Disposition (Accepted,	Disposition Notes
1tem# 2d	Page # 67	Findings	Best Practice / Recommendations 4. Track user satisfaction. The CI program participants responded enthusiastically to our request for feedback on CI program activities. This indicates that the tools are valuable and the community is engaged. We recommend that the ECA periodically ask users for feedback to track user satisfaction, determine user needs, and to inform future updates to all IOU CI program activities.	Recipient All IOUs	Rejected, or Other) Accepted	(e.g. Description of specific program change or Reason for rejection or Under further review) ECA believes strongly in continuous improvement and providing performance-based resources to the broad range of industry stakeholders that drive code compliance. We agree that all our offerings, including the site, must be informed by the ever-changing needs of this diverse community. In 2016 we conducted research, including interviews with ECA site users, to determine how we could better serve the industry. We have also conducted surveys related to the Forms Ace tool. This year we are also expanding our training evaluation and feedback questionnaire to solicit users' recommendations for expanding and refining ECA offerings, in addition to the standard satisfaction data we currently collect. Additionally, we have a number of email addresses that are listed in multiple places on the site for feedback on the site as a whole, as well as individual tools and resources (see our Contact Us page for a full list). To date we have received and responded to over 550 messages through these email channels. We have also recently added "User Snap" feedback functionality to each page of the site to collect and respond
3a	68	Our research shows that the ECA tools are a valuable resource for building departments, building industry, and energy professionals. Tool users indicate high satisfaction with the tools and they draw people to the ECA website. We recommend that the IOU CI team continues to develop ECA tools.	We recommend further research into building community needs and that the IOUs align tools with areas of energy code noncompliance. Based on our research and the feedback given by participants, some tools that the IOUs could consider are tools by climate type, building type, and project type.	All IOUs	Accepted	to user input. We agree that continuing to investigate ideas and assess the need for new tools and resources should be an on-going part of our activities. While our Forms Ace tool tailors results to climate zone, building type, and project type, and our Fact and Trigger Sheets are specific to building type and project type, and call out climate-zone-specific information, we are considering new ideas for ECA resources by climate zone, building type and project type, including additional handouts for permit applicants for common project types. We also agree that providing building departments with resources for their clients applying for permits is a very effective way to enable building department members to effectively and consistently communicate code requirements to permit applicants, increase ECA brand awareness, and drive traffic to the ECA website and trainings. To this end we have developed our fact and trigger sheets, our new application guides, and our checklists. The 2016 Plans Examiner checklists create customized corrections lists as the Plans Examiner uses the checklist. The corrections lists have hyperlinks to code requirements in the ECA Reference Ace. This resource is meant to help plans examiners quickly, consistently and accurately communicate code requirements to permit applicants. The checklists and correction comments lists have been developed in collaboration with the Energy Commission, energy consultants and building department
3b	68	ECA tools are also seen as a way in which the building departments communicate with the building industry as they apply for permits. This is an opportunity for the IOUs to enable building department members to effectively and consistently communicate code requirements to permit applicants, increase ECA brand awareness, and drive traffic to the ECA website and trainings.	The IOUs should consider handouts that building departments can refer customers to on common project types.			staff. The ECA Fact Sheets and Trigger Sheets are designed to be used as building department counter staff as "customer handouts" that quickly and clearly communicate the need-to-know requirements for specific project measures (lighting, HVAC, fenestration, plan permit process, etc.). In addition, the 2016 Application Guides, which we are developing in cooperation with the Energy Commission, focus on specific measure areas and present the essentials in terms that resonate with building industry professionals and include specific examples

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						of what does and does not comply with Title 24, Part 6. Building department staff can refer customers to these Guides when they want a more in-depth understanding of options and considerations for a specific measure area. The Forms Ace is an interactive online tool that provides specific guidance on the compliance documentation required based on project-specific information. Many building departments have found it a great time-saver to be able to refer their customers to this tool to determine what they need to submit with a permit application. To better ensure that building department staff are aware of our offerings, in addition to our frequent email messaging to them, these tools and resources are introduced at our event booths, in presentations, webinars and training designed for building department personnel, and are made available to building departments through download from the ECA website. Additionally, shortly after the ECA site launch, we worked with the Energy Commission to send each of the nearly 600 building department offices across California jump drives and collateral materials to help them help their customers. This was repeated again in 2016 in preparation for the new Title 24, Part 6 standards becoming effective January 1, 2017.