

Proposed Federal PSD Permit for the
Russell City Energy Center

INDEX OF PUBLIC PERMITTING RECORD DOCUMENTS

The Bay Area Air Quality Management District (“Air District”) has collected the following documents to constitute the public permitting record on which it is basing its proposal to issue a Federal Prevention of Significant Deterioration (“PSD”) permit for the proposed Russell City Energy Center. The Air District is making these documents available for public review and inspection at Air District headquarter, 939 Ellis Street, San Francisco, CA during normal business hours. Members of the public interested in the basis for the Air District’s proposal to issue a Federal PSD Permit for this facility are invited to review these documents.

Documents indicated with an asterisk* were part of the original collection of public permitting record documents that the Air District made available for public review and inspection during the initial public comment period on this proposed permit in December 2008 - February 2009. The Air District has conducted additional review and analysis since that time, and has added documents to this collection accordingly. The Air District anticipates that it will continue to add documents to this public permitting record as this permit proceeding moves forward. Members of the public are therefore encouraged to check with the Air District periodically for the current status of the permitting record. Additionally, if any members of the public believe that there are additional relevant documents not listed below and contained in the public permitting record collection, they are invited to identify such documents for inclusion in the record. Copies of any additional public records not listed below and made available in the public permitting record collection can be obtained from the Air District upon request.

Members of the public should also note that the Air District has organized the documents generally by subject category for ease of public review. These subject category headings are intended as general guidance only, and some documents listed under one subject category may be relevant to other categories.

Printed: August 3, 2009

Document Title/Description	Date	Author/Source	Recipient
<u>PERMIT APPLICATION & RELATED MATERIALS</u>			
Application for Permit Modification for the Russell City Energy Center (with transmittal letter)*	11/20/2006	Russell City Energy Company	BAAQMD
Notes from telephone conversation re Calpine's comments on proposed permit conditions	No date	W.Lee	
Letter from Michael Hatfield, Russell City Energy Company, to Brian Bateman, BAAQMD, re: Permit Amendment for the Russell City Energy Center*	11/20/2006	Michael Hatfield, Russell City Energy Company	Brian Bateman, BAAQMD
BAAQMD Form P-101B, Application Information for Authority to Construct/Permit to Operate*	11/06	Russell City Energy Company	BAAQMD
BAAQMD Data Form C, Fuel Combustion Source, for Gas Turbine #1*	11/06	Russell City Energy Company	BAAQMD
BAAQMD Data Form C, Fuel Combustion Source, for Duct Burner #1*	11/06	Russell City Energy Company	BAAQMD
BAAQMD Data Form C, Fuel Combustion Source, for Gas Turbine #2*	11/06	Russell City Energy Company	BAAQMD
BAAQMD Data Form C, Fuel Combustion Source, for Duct Burner #2*	11/06	Russell City Energy Company	BAAQMD
BAAQMD Data Form G, General Air Pollution Source, for Cooling Tower*	11/06	Russell City Energy Company	BAAQMD

Document Title/Description	Date	Author/Source	Recipient
BAAQMD Data Form C, Fuel Combustion Source, for Fire Pump Engine*	11/06	Russell City Energy Company	BAAQMD
BAAQMD Data Form A, Abatement Device, for Selective Catalytic Reduction (SCR), Gas Turbine #1*	11/06	Russell City Energy Company	BAAQMD
BAAQMD Data Form A, Abatement Device, for Carbon Monoxide (CO) Catalyst, Gas Turbine #1*	11/06	Russell City Energy Company	BAAQMD
BAAQMD Data Form A, Abatement Device, for Selective Catalytic Reduction (SCR), Gas Turbine #2*	11/06	Russell City Energy Company	BAAQMD
BAAQMD Data Form A, Abatement Device, for Carbon Monoxide (CO) Catalyst, Gas Turbine #2*	11/06	Russell City Energy Company	BAAQMD
BAAQMD Data Form A, Abatement Device, for High Efficiency Drift Eliminators, Cooling Tower*	11/06	Russell City Energy Company	BAAQMD
BAAQMD Data Form P, Emission Point #1*	11/06	Russell City Energy Company	BAAQMD
BAAQMD Data Form P, Emission Point #2*	11/06	Russell City Energy Company	BAAQMD
BAAQMD Data Form P, Emission Point #3*	11/06	Russell City Energy Company	BAAQMD
BAAQMD Data Form P, Emission Point #4*	11/06	Russell City Energy Company	BAAQMD
BAAQMD Permit Application Invoice #IPA35*	12/06	BAAQMD	Russell City Energy Company

Document Title/Description	Date	Author/Source	Recipient
Letter from David Williams, Calpine, to Dennis Jang, BAAQMD, re: Russell City Acid Rain Permit Application*	6/20/07	David Williams, Calpine	BAAQMD
Email from Barbara McBride, Calpine to Weyman Lee, BAAQMD, re: Russell City Permit (change of owner name)*	8/18/08	Barbara McBride, Calpine	Weyman Lee, BAAQMD
<u>BACT ANALYSIS - GAS TURBINES</u>			
Roointon Pavri and Gerald D. Moore, GE Energy Services, "GE Power Systems: Gas Turbine Emissions and Control"*	No date	Roointon Pavri and Gerald D. Moore, GE Energy Services	
Article excerpt, "Power: Gas turbine combustors drive emissions toward Best Available Control..."*	11/5/2008		
Excerpt, Air Resources Board Report to the Legislature, "Gas-Fired Power Plant NOx Emission Controls and Related Environmental Impacts"*	5/1/2004	California Air Resource Board	
Request for Comments: Proposed Renewal of Standard Air Contaminant Discharge Permit for Klamath Generation, LLC*	10/31/2008	Oregon Department of Environmental Quality, Eastern Region Air Quality	
Fax from Weyman Lee, BAAQMD, to Tim Shippy, Peerless Mfg., re: Cost Analyses for SCR and EMx Systems, w/ attachment*	11/18/2008	Weyman Lee, P.E., BAAQMD	Tim Shippy, Peerless Mfg.
Multiple Fax Cover Pages, from Weyman Lee, BAAQMD, to Lou Brizzolara, AHM, et al., re: 1999 SCR Cost Analysis, w/ attachment	10/20/2008; 8/25/2008	Weyman Lee, P.E., BAAQMD	Lou Brizzolara, AHM, et al.
Figure 8.1E-2: EMx Cost Effectiveness Calculation: 2008 EMx Cost Comparison*	2008		

Document Title/Description	Date	Author/Source	Recipient
Email from Tim Shippy, Peerless Mfg., to Weyman Lee, BAAQMD, et al., re: Cost Effectiveness for SCR*	11/17/2008	Tim Shippy, Peerless Mfg.	Weyman Lee, P.E., BAAQMD, et al.
Appendix 8.1E: Evaluation of Best Available Control Technology*	No date		
Steven DeCicco, EmeraChem, LLC, et al., "High Performance EMx Technology for Fine Particles, NOx, CO, and VOCs from Gas Turbines and Stationary IC Engines"*	4/27/2006	Steven DeCicco, EmeraChem, LLC, et al.	
Gateway Generating Station, Application No. 15629, [Draft] EMx (formerly SCONox) NOx Control Cost Effectiveness Calculations*	8/25/2008	BAAQMD	
[Duplicate] Steven DeCicco, EmeraChem, LLC, et al., "High Performance EMx Technology for Fine Particles, NOx, CO, and VOCs from Gas Turbines and Stationary IC Engines" *	4/27/2006	Steven DeCicco, EmeraChem, LLC, et al.	
Appendix 8.1E: Evaluation of Best Available Control Technology*	No date		
EMx Catalyst System: Technical Specifications*	No date	EmeraChem Power	
EMx for NOx, SOx, CO, VOC and Particulate Matter (PM) Reduction*	No date	EmeraChem Power	
California Environmental Technology Certification Program: SCONox*	No date	Goal Line Environmental Technologies, Represented by: Sunlaw Energy Corp.	
Email from Jeff Valmus, Emerachem to Brian Lusher, BAAQMD re: Questions on EMX	3/26/2009	Jeff Valmus, Emerachem	Brian Lusher, BAAQMD
Test results, Formaldehyde emissions, Calpine Sumas, WA power plant	6/13/2002	Valid Results, Inc.	
Email message from B. Fretwell to B. McBride, Calpine re Sumas Formaldehyde test results	3/4/2009	B. Fretwell	B. McBride

Document Title/Description	Date	Author/Source	Recipient
Email from Paul Bruning to Brian Fretwell, et al, re: Sumas NH3 and Formaldehyde Results	7/2//02		
Product Brochure, LM6000 SPRINT Gas Turbine Generator Set	Mar-03	GE Aero Energy Products	
Final Staff Report, "Comparative Costs of California Central Station Electricity Generation Technologies", CEC-200-2007-011-SF (Excerpts)	Dec-07	California Energy Commission	
"Summary of Filterable PM10"	6/22/2009	B.McBride, Calpine	
Email from Fred Booth, BASF Chemical Company to Mark Strehlow, URS Corp, re: Siemens Flex 10 Project, CO Catalysts - BASF Catalysts LLC Budgetary Proposal EPB00870	5/29/2009	BASF Catalysts LLC	Mark Strehlow, URS Corp
CO Catalyst Average/Total Cost Effectiveness Analysis 1.5 ppm	6/22/2009	Calpine	
CO Catalyst Incremental Cost Effectiveness Analysis 1.5 ppm	6/22/2009	Calpine	
SCAQMD <i>Best Available Control Technology Guidelines</i>	7/14/06 (rev'd)	South Coast Air Quality Mangement District	
Memorandum from David Warner, Director of Permit Services Staff, re <i>Revised BACT Cost-Effectiveness Thresholds</i>	5/14/2008	D. Warner, San Joaquin Valley APCD	
EPA RACT/BACT/LAER Clearinghouse Identification No. GA-0127, Southern Company/Georgia Power, Permit No 4911-067-003-V-02-2	1/7/2008		
EPA RACT/BACT/LAER Clearinghouse Identification No. NV-0035, Sierra Pacific Power Company Trace Substation Expansion Project, Permit No. AP4911-1504	8/16/2005		

Document Title/Description	Date	Author/Source	Recipient
EPA RACT/BACT/LAER Clearinghouse Identification No. OR-0041, Wanapa Energy Center, Permit No. R10PSD-OR-05-01	8/8/2005		
Letter from Gerardo Rios, EPA Region 9, to Eldon Heaston, Antelope Valley AQMD, re: EPA Comments on the PDOC for the Palmdale Hybrid Power Project	3/19/2009	Gerardo Rios, EPA Region 9	Eldon Heaston, Executive Director, Antelope Valley AQMD
CPV Vaca Station, LLC Responses to California Energy Commission Staff Data Requests 1 through 53 for the Application for the CPV Vaca Station Project (08-AFC-11)	4/19/2009	Douglas Davy, CH2MHILL	CEC
New Source Review Permit Issued by the State of Connecticut, Department of Environmental Protection, Bureau of Air Management to Kleen Energy Systems LLC	2/25/2008		
Memorandum from Sims Roy to Docket A-95-51, re Hazardous Air Pollutant (HAP) Emission Control Technology for New Stationary Combustion Turbines	4/3/2002	Sims Roy, Emissions Standards Division, Combustion Group	Docket A-95-51
<u>STARTUP BACT ISSUES</u>			
Delta Energy Center: Cold Startups Since 2004*	11/24/2008	Calpine	
Table 16: Comparison of Startup Permit limits from Large Combined Cycle Turbines, w/ handwritten notes*	11/24/2008		

Document Title/Description	Date	Author/Source	Recipient
Proposed Draft Permitting Analysis Language Regarding Startup and Shutdown BACT Analysis*	11/24/2008	Calpine	BAAQMD
Proposed Draft Permitting Analysis Language Regarding Startup and Shutdown BACT Analysis*	12/3/2008	Calpine	BAAQMD
EPRI Technical Analysis, excerpt regarding OpFlex*	11/24/2008	EPRA	
San Diego County Air Pollution Control District, Startup Authorization for SDG&E, Application No. 984461, PO No. 976846*	4/3/2008 (date of issuance); 11/24/08 (printed)	San Diego APCD	
Printout from Webwire.com: "GE Energy Introduces 10-Minute Startup Capability For Its Frame 7FA Gas Turbines"*	12/12/2007	WebWire	
Letter from Daniel Baerman, Sempra Energy Co., to Catherine Santos, Clerk of Hearing Board for the San Diego County Air Pollution Control District re: Hearing Board Variance 4073; Quarterly Report*	4/11/2007		

Document Title/Description	Date	Author/Source	Recipient
Letter from Daniel Baerman, Sempra Energy Co., to Dan Speer, San Diego County Pollution Control District, re: Nonapplicability Confirmation for Installation of Tuning Software*	8/22/2006		
OpFlex Turndown Product Brochure*	No date	GE Energy	
Phone Memorandum of Brian Lusher, BAAQMD, re: call with Bob Bellis, GE Energy*	11/21/2008	Brian Lusher, BAAQMD	
Phone Memorandum of Brian Lusher, BAAQMd, re: call with Derrick Owen, GE Energy*	11/21/2008	Brian Lusher, BAAQMD	
Memorandum from Shaheerah Kelly, USEPA Region 9 Air Division, Permits Office, to Administrative Record for the Colusa Generating Station Final PSD Permit re: Record of Communication regarding a 6/23/08 phone call between Gary Rubenstein and EPA*	6/23/2008	Shaheerah Kelly, USEPA Region 9 Air Division, Permits Office	Administrative Record for the Colusa Generating Station Final PSD Permit
Memorandum from Shaheerah Kelly, USEPA Region 9 Air Division, Permits Office, to Administrative Record for the Colusa Generating Station Final PSD Permit re: Record of Communication regarding a 7/1/08 phone call between General Electric and EPA*	9/29/2008	Shaheerah Kelly, USEPA Region 9 Air Division, Permits Office	Administrative Record for the Colusa Generating Station Final PSD Permit
Letter from Martin Homec, Esq., CARE, et al., to Deborah Jordan, USEPA Region 9, et al., re: Withdrawal of Comments on Proposed PSD Permit for Colusa Generating Station -- PSD Permit SAC 06-01*	9/12/2008 (date of letter)		
Email message from Michael Boyd, CARE, to Shaheerah Kelly, EPA Region 9, re CARE's Comments on PSD Permit for Colusa Generating Station*	7/31/2008	Michael Boyd, CARE	Shaheerah Kelly, EPA Region 9
Product Fact Sheet re OpFlex Start-up Nox and Start-up Fuel Heating: Operational Flexibility Enhancements for Gas Turbines*	No date	GE Energy	

Document Title/Description	Date	Author/Source	Recipient
Press Release: GE Energy Announces New OpFlex Extended Turndown for 9FA+e Gas Turbines: OpFlex Extended Turndown is Latest Addition to GE's Operational Flexibility Portfolio*	6/5/2008 (date of release); 11/24/2008 (date printed)	GE Energy	
S. Xiao and V. Martling, PSM, "The Proven Alternative: Reducing Gas Turbine NOx and CO Emissions Through Improved Combustor Design"*	No date	PSM	
Telephone notes re: 11/6/08 teleconference w/ Candido Veiga et al.*	11/6/2008	Weyman Lee, BAAQMD	
Spreadsheet, Comparison of Emission Rates between RCEC and Flex 10*	No date		
H. Emberger et al., Siemens, "Economic Evaluation of Cycling Plants - An Approach to Show the Value of Operational Flexibility"*	2007	H. Emberger et al, Siemens	
Khawar J. Syed, Siemens Industrial Turbomachinery Ltd., et al., "A Novel Approach to Predicting NOx Emissions From Dry Low Emissions Gas Turbines", in Proceedings of GT2006 ASME Turbo Expo 2006*	2006	Khawar J. Syed, Siemens Industrial Turbomachinery Ltd.	
Testimony of Shahab Khoshmashrab re Power Plant Efficiency, CEC Licensing Proceeding for Russell City Energy Center*	6/10/2002	Shahab Khoshmashrab	CEC Proceeding
Excerpt, CEC Comments on Fast Start*	Jun-07	CEC? Staff?	CEC Proceeding
Excerpt, Babcock & Wilcox: Steam 40 / Thermodynamics of Steam, p. 2-21*	No date		
Low Load Operational Flexibility for Siemens G-class Gas Turbines*	11/24/2008 (date article sent by Siemens)	Ben Beaver, Siemens	BAAQMD
Integrated Technologies that Enhance Power Plant Operating Flexibility*	No date	Siemens	

Document Title/Description	Date	Author/Source	Recipient
Preparing a flow schematic for the HRSG*	No date		
Evaluation of the use of Siemens "Fast Start" Technology at Calpine's Russell City Energy Center (RCEC)*	9/10/2008	Calpine	BAAQMD
Evaluation of the use of Siemens "Fast Start" Technology at Calpine's Russell City Energy Center (RCEC)*	8/20/2008	Calpine	BAAQMD
Product Brochure, BENSON Once-Through Heat Recovery Steam Generator*	2006	Siemens	
Product Brochure, BENSON Boilers for Maximum Cost-Effectiveness in Power Plants*	2001	Siemens	
John Xia, Siemens, et al., "SGT6-5000F (W501F) Engine Enhancements to Improve Operational Flexibility"	Dec-05	Siemens	
Peter Murau and Dr. Michael Schottler, Siemens, "Low Emission Water/Steam Cycle -- A Contribution to Environment and Economics"	2005	Siemens Power Generation (PG)	
H. Emberger, Siemens Power Generation (PG), et al., "Fast Cycling Capability for New Plants and Upgrade Opportunities", POWER-GEN International 2005*	Dec-05	Siemens Power Generation (PG)	
Email (forwarded) from Sherman Lewis to distribution list re Hayward Power Plants*	9/23/2007	Sherman Lewis	Distribution List
Email from Barbara McBride, Calpine, to Bob Nishimura, BAAQMD, et al., FW: RCEC / Siemens Fast Start at RCEC.doc*	6/1/2007	Barbara McBride, Calpine	Bob Nishimura, BAAQMD, et al.
Database information printout re permit application status of application 2896 for Russell City Energy Center	8/30/2007		
Michael T. McManus and Raymond Baumgartner, Siemens Westinghouse Power Corp., "An Integrated Combined-Cycle Plant Design That Provides Fast Start Capability at Base-Load"	Dec-03	Michael T. McManus and Raymond Baumgartner, Siemens Westinghouse Power Corp.	

Document Title/Description	Date	Author/Source	Recipient
Dr. Daniel Hofmann and Holger-Max Emberger, Siemens, "Taking Advantage of Market Opportunities through Siemens Reference Power Plants"*	2006	Dr. Daniel Hofmann and Holger-Max Emberger, Siemens	
H. Emberger, Siemens Power Generation (PG), et al., "Fast Cycling Capability for New Plants and Upgrade Opportunities"*	2005		
Phone notes of conversation with John Bowater, Plant Manager of the Lakeside Power Plant, Utah, re: Use of Siemens FP30 technology at the power plant	4/8/2009	Weyman Lee, BAAQMD	
Phone notes of conversation with Steven Moore, San Diego APCE, re: Palomar Opflex data	4/16/2009	Weyman Lee, BAAQMD	
Phone notes of conversation with Hashim Navrozali, San Diego Gas and Electric, re: Palomar Opflex data	4/16/2009	Weyman Lee, BAAQMD	
Data Table, Delta Energy Center: Cold Startups Since 2004*	11/24/2008	Calpine	BAAQMD
Los Medanos Energy Center Start-up/Shutdown Log, CY2008*	2008	Calpine	BAAQMD
Los Medanos Energy Center Start-up/Shutdown Log, CY2007*	2007	Calpine	BAAQMD
Los Medanos Energy Center Start-up/Shutdown Log, CY2006*	2006	Calpine	BAAQMD
Los Medanos Energy Center Start-up/Shutdown Log, CY2005*	2005	Calpine	BAAQMD
Los Medanos Energy Center Start-up/Shutdown Log, CY2004*	2004	Calpine	BAAQMD

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Delta Energy Center Start-up/Shutdown & Tuning Log, CY2007*	2007	Calpine	BAAQMD
Delta Energy Center Start-up/Shutdown & Tuning Log, CY2008*	2008	Calpine	BAAQMD
Proposed Draft BACT analysis language regarding startup emissions limits*	12/10/2008	Calpine	BAAQMD
Proposed Draft BACT analysis language regarding startup emissions limits*	12/10/2008	Calpine	BAAQMD
Email from Kevin Poloncarz, Calpine to Alexander Crockett, BAAQMD re: Analysis of Additional Startup Data from Palomar Energy Center <i>etc.</i>	4/18/2009	Kevin Poloncarz, Calpine	Alexander Crockett, Esq., BAAQMD
Email from Kevin Poloncarz, Calpine to Alexander Crockett, BAAQMD re: Startup/Shutdown Analysis of Annual Limits, Auxiliary Boiler and CO BACT	4/2/2009	Kevin Poloncarz, Calpine	Alexander Crockett, Esq., BAAQMD
Table, Summary of Startups (2006 - 2007), Palomar Energy Center			
Table, Emissions of NOx During Startup Events After Installation of OpFlex		Calpine	BAAQMD
Spreadsheet, Estimated Annual Emissions for Typical Scenario with CO at 2.0 ppm		Calpine	BAAQMD
Email from Pete Bukunt, GE Energy to Rick Thomas, Calpine, re: GE OpFlex for Gas Turbines	3/17/2009	Pete Bukunt, GE Energy	Rick Thomas, Calpine
Data Log for Delta Energy Center: Startup/Shutdown, CY 2005		Calpine	
Data Log for Delta Energy Center: STG cold start and Tuning, CY 2007		Calpine	
Data Log for Delta Energy Center, Startup/Shutdown & Tuning, CY 2007		Calpine	
Data Log for Delta Energy Center, Startup/Shutdown & Tuning, CY 2008		Calpine	

Document Title/Description	Date	Author/Source	Recipient
Data Log for Delta Energy Center, Cold Start Startup/Shutdown, CY 2005		Calpine	
Email from Barbara McBride, Calpine to Kevin Poloncarz, et al, re: Aux Boiler Emissions	3/21/2009	Barbara McBride, Calpine	Kevin Poloncarz, Calpine
Spreadsheet re Auxiliary Boiler Cost Effectiveness Analysis		Calpine	BAAQMD
Los Medanos Energy Center Start-up/Shutdown Log, CY2008*	2008	Calpine	BAAQMD
Delta Energy Center Start-up/Shutdown & Tuning Log, CY2007*	2007	Calpine	BAAQMD
Monthly CEM Reports for Metcalf Energy Center*	5/1/2005 - 8/31/2008	Calpine	BAAQMD
New Source Review Permit, Lake Side Power Plant, Utah County, UT	10/25/2004	Utah Division of Air Quality	
Notice of Intent and Prevention of Significant Deterioration Air Quality Application, Lake Side Power Plant	May-04	Greystone Environmental Consultants, Inc., prepared for Summit Vineyard LLC	
PSD Permit, Catithness Long Island Energy Center (with transmittal letter from W. Mugdan, EPA Region 2)	4/7/2006	EPA Region 2	
Colusa Generating Station, Ambient Air Quality Impact Report, PSD Permit No. SAC 06-01	5/1/2008	EPA Region 9	
Final PSD Permit, Colusa Generating Station, PSD Permit No. SAC 06-01	9/29/2008	EPA Region 9	

Document Title/Description	Date	Author/Source	Recipient
Siemens Statement Regarding Available Siemens Technology Which Apear in Comments On RCEC's Draft PSD Permit, attachment to email from C. Viego, Siemens Regional Vice President, to R. Thomas, Calpine.	3/16/2009	C. Viego, Regional Vice President, Pacific Northwest, Siemens Energy, Inc.	
Caithness Long Island Energy Center Environmental Impact Statement	6/1/2005	Long Island Power Authority	
Email from Barbara McBride, Calpine, to Weyman Lee, BAAQMD, re: Re: RCEC vs FP 10 emissions*	11/13/2008	Barbara McBride, Calpine	Weyman Lee, P.E., BAAQMD
Notes re: RCEC turbine firing rate, etc.*	11/12/2008	Weyman Lee, P.E., BAAQMD	BAAQMD Internal File
Email from Mark Strehlow, URS Corp., to Brian Lusher, BAAQMD, et al., re: Mirant AFCs FP10 responses*	10/27/2008	Mark Strehlow, URS Corp.	Brian Lusher, BAAQMD, et al.
Estimated Startup and Shutdown Emissions, Fuel Use and Energy Produced: SCC6-5000F(4) 1x1 Flex-Plant 10 Combined Cycle (20 ppm ULN) on Natural Gas - ISO Conditions*	6/20/2008 (date of document); 11/24/2008 (sent by Siemens)	Ben Beaver, Siemens	BAAQMD
Chart, "Heat Input vs. Power" *	11/21/08 (sent by Siemens)	Ben Beaver, Siemens	BAAQMD
Comparison of Emission Rates between RCEC and Flex 10*	No date		
Appendix 3.1A: Calculation of Maximum Hourly, Daily, and Annual Emissions*	No date		
Appendix C.1: Operational Emissions (Siemens Combined Cycle FP 10 ...)*	No date		

Document Title/Description	Date	Author/Source	Recipient
<u>COOLING TOWER PARTICULATE MATTER ISSUES</u>			
J. Reisman and G. Frisbie, "Calculating Realistic PM10 emissions from Cooling Towers, Abstract NO. 216, Session No. AM-1b		Greystone Environmental Consultants, Inc.	
Appendix A: Updated CEIDARS Table with PM2.5 Fractions		South Coast Air Quality Management District	
EPA AP-42, Chapter 13.4: Wet Cooling Towers	Jan-95	EPA	
Kings River Conservation District Community Plant Appendix 8.1-5 : Operations Phase Emissions		Kings River Conservation District Community Power Plant	
<u>DIESEL FIREPUMP BACT ISSUES</u>			
Product Information Sheets re Diesel Engines*	Various	Various	
Appendix C: Firewater Pump Information*	No date	URS	
Fact Sheet: Clean Air Nonroad Diesel Rule*	May-04	U.S. EPA	
Letter from Daniel Donohoue, ARB, to John Whitney, Clarke Fire Protection Products*	3/30/2005	Daniel Donohoue, ARB	John Whitney, Clarke Fire Protection Products
Final Regulation Order: Amendments to the Airborne Toxic Control Measure for Stationary Compression Ignition Engines (amending 17 CCR section 93115)*	10/18/2007	ARB	

Document Title/Description	Date	Author/Source	Recipient
Various State and Federal Regulatory Requirements Applicable to Diesel Engines*	Various	Various	
<u>GREENHOUSE GAS BACT ISSUES</u>			
Spreadsheet Comparing Power Plant Greenhouse Gas Emissions and Efficiency*		Calpine	BAAQMD
Notes and attachment re: General Emission Factors for Source Code - C18X0189*	12/3/2008	??	
Email message from K. Poloncarz, Calpine, to A. Crockett, BAAQMD, re GHG BACT Analysis	4/2/2009	K. Poloncarz	A. Crockett, BAAQMD
Table - Comparison of Plant Efficiency, 612.8 MW: FD2, FD3, G-Class and Flex 10 Configurations (and supporting calculations)	4/2/2009	A. Prusi, Calpine	BAAQMD
Table - Comparison of FD3 Plant Efficiency with and without Duct Burners (with supporting calculations)	4/2/2009	A. Prusi, Calpine	BAAQMD
Email from Kevin Poloncarz, Calpine to Alexander Crockett, BAAQMD re: Analysis of Additional Startup Data from Palomar Energy Center <i>etc.</i>	4/18/2009	Kevin Poloncarz, Calpine	Alexander Crockett, Esq., BAAQMD
Letter from R. Boschee, PG&E to C. Delaney, Calpine re: Calpine Russell City Energy Center, documenting variability in natural gas supply pressure	12/2/2008	R. Boschee, PG&E	C. Delaney, Calpine
Siemens Power Generation, Inc., "Guiding Principles for Conducting Site Performance Tests on Siemens Industrial Gas Turbine-Generator Sets", Doc. EC-93208-R10	7/15/2008	E. Hoyer, et al, Siemens Power Generation, Inc.	
Siemens Power Generation, Inc., Service Bulletin 36803, "Combustion Turbine and Inspection Intervals", Rev. 10	10/7/004	Siemens Power Generation, Inc.	

Document Title/Description	Date	Author/Source	Recipient
Russell City Energy Center Heat Balance Diagrams (with duct burners firing and without duct burners firing)		Calpine	
Table: Reclaimed Water Project - 2008, Final Clarifier			
City of Hayward Wastewater Treatment Facility TFSC Process Control Data, from Nov 1, 2008 to march 20, 2009	11/08-3/09	City of Hayward	
Project Description, Application for Certification, Victorville 2 Hybrid Power Project	2/28/2007	City of Victorville	CEC
Calpine, Application For Certification, Russell City Energy Center, Section 9 (Alternatives)	May-01	Calpine	CEC
Paper, "The Enhancement of Local Air Pollution by Urban CO2 Domes"	3-Apr-09	Mark Z. Jacobson	
Report, "Framework for Evaluating Greenhouse Gas Implications of Natural Gas-Fired Power Plants In California"	May-09	MRW & Associates	CEC
Commission Decision, Russell City Energy Center, Application for Certification 01-AFC-7 (excerpts)	Jul-02	CEC	
Final Commission Decision, Russell City Energy Center, Amendment No. 1, Application for Certification 01-AFC-7C (excerpts)	Oct-07	CEC	
"Air Emissions" fact summary, from www.epa.gov/cleanrgy/energy-and-you/affect/air-emissions.html		EPA	
Documentation for Emission Default Factors in Joint Staff Proposal for an Electricity Retail Provider GHG Reporting Protocol	Jun-07	California Air Resources Board	

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Paper, "Adaptation of the STG-6000G to a Dynamic Power Generation Market"	Dec-05	E. Bancalari & P. Chan, Siemens AG	
Press Release, <i>GE's H System Gas Turbine Hits Project Milestone in Japan</i>	Dec-07	GE Energy	
Article, <i>New, Efficient Industrial Gas Turbines Coming: Siemens, GE, Full Report</i>	Aug-08	Frank J. Bartos, <i>Control Engineering</i>	
Article, <i>The Hunt for 60%+ Thermal Efficiency</i>	Aug-08	Frank J. Bartos, <i>Control Engineering</i>	
Memorandum, <i>Inland Empire Energy Center Power Project (01-AFC-17C) Staff Analysis of Proposed Modifications to Change to GE 107H Combined-Cycle Systems, Increase Generation and Add Additional Laydown Areas</i>	Jun-05	Connie Bruins, CEC	
Article: <i>Largest Gas Turbine: 2838 Sensors, 90 GB Data Per Hour</i>	Feb-09	Frank J. Bartos, <i>Control Engineering</i>	
ASME, <i>Performance Test Code on Overall Plant Performance (PTC 46-1996)</i>	Oct-97	ASME	
Clarke JW6H-UF40 Fire Pump Driver Emission Data for California ATCM Tier 2, Rev. E	7/12/2007	Clarke Fire Protection Products	
Cummins CFP11E-F10 Fire Pump Driver, California ATCM Tier 2 Emission Data	8/26/2008	Cummins	
Deutz DFP6 1013 C25 fire protection engine, EPA Tier 2/CARB Technical Data Sheet	4/1/2008	Deutz Fire Protection	

Document Title/Description	Date	Author/Source	Recipient
Instruction Manual - Type HGF 1012/1014 (SF ₆ Circuit Breaker)	Oct-99	Alstom, USA	
Paper, <i>SF₆ Leak Rates from High Voltage Circuit Breakers – U.S. EPA Investigates Potential Greenhouse Gas Emissions Source</i>	Jun-06	J. Blackman, USEPA, <i>et al.</i>	
Letter From David Mehl, CARB re Sulfur Hexafluoride (SF ₆) Emissions Survey for the Electricity Sector and Particle Accelerator Operators	Jan-09	David Mehl, Manager, Energy Section, California Air Resources Board	
NIST Technical Note 1425: <i>Gases for Electrical Insulation and Arc Interruption: Possible Present and Future Alternatives to Pure SF₆</i>	Nov-97	L.G. Christophorou, J.K. Olthoff, D.S. Green, National Institute of Standards & Technology	
SF ₆ Emission Reduction Partnership for Electric Power Systems, 2007 Annual Report	Dec-08	US EPA	
Siemens TechTopics no. 53, <i>Use of SF₆ Gas in Medium Voltage Switchgear</i>	Jun-05	Siemens Power Transmission & Distribution, Inc.	
<i>Technology Options for the Near & Long Term, Section 4.3.5 "Electric Power Systems and Magnesium: Substitutes for SF₆"</i>	Nov-03	US Climate Change Technology Program	
Email message from Tony Conte, Sr. Account Manager, ABB, re 230 kV Circuit Breaker SF ₆ Leakage Rate	Apr-09	Tony Conte, Sr. Account Manager, ABB	
Email message from Jason Cunningham, Regional Sales Manager, HVB AE Power Systems, Inc., re 230 kV SF ₆ Leak Rate Guarantee	Apr-09	Jason Cunningham, Regional Sales Manager, HVB AE Power Systems, Inc.	

Document Title/Description	Date	Author/Source	Recipient
<u>PSD AIR QUALITY IMPACT ANALYSIS</u>			
Petition for Reconsideration in the matter of: Final Rule Published at 73 Fed. Reg. 28321 (May 16, 2008), entitled "Implementation of the New Source Review (NSR) Program for Particulate Matter Less Than 2.5 Micrometers (PM2.5)," Docket No. EPA-HQ-OAR-2003-0062, RIN 2060-AN86	No date	Natural Resources Defense Fund and Sierra Club	Administrator, US EPA
Letter from Lisa P. Jackson, EPA to Paul Cort, Earthjustice	4/24/2009	Lisa P. Jackson, EPA	Paul Cort, Earthjustice
Memorandum from Kevin Poloncarz, Calpine to Alexander Crockett, BAAQMD, re: Russell City Energy Center: Response to US EPA Administrator Lisa Jackson's April 24, 2009 decision to reconsider petition concerning PM2.5	5/1/2009	Kevin Poloncarz, Calpine	Alexander Crockett, Esq., BAAQMD
EPA Presentation Slides for "PM2.5 Final NSR Implementation Rule" prepared by Raj Rao, NSRG	5/14/2008	Raj Rao, NSRG	
EPA Presentation Slides for "Draft Modeling Protocol for PM2.5" prepared for Regional/State/Local Modeler's Workshop, Philadelphia, May 2009		EPA	Regional/State/Local Modeler's Workshop
Fact Sheet: Final Rule on the Implementation of the New Source Review Provisions for Particulate Matter Less Than 2.5 Microns (PM2.5)	No date	EPA	
Memorandum from Glen Long, BAAQMD to Weyman Lee, BAAQMD, re: Russell City Energy Center, Permit Application #15487*	2/7/2007	Glen Long, BAAQMD	Weyman Lee, BAAQMD
Memorandum from Glen Long, BAAQMD to Weyman Lee, BAAQMD, re: Russell City Energy Center, Permit Application #15487 (with updated AERMOD Modeling Assessment)*	12/8/2008	Glen Long, BAAQMD	Weyman Lee, BAAQMD

Document Title/Description	Date	Author/Source	Recipient
Memorandum from Glen Long, BAAQMD to Weyman Lee, BAAQMD, re: PSD PM2.5 Air Quality Impacts Analysis for Russell City Energy Center, Permit Application #15487	July 27, 2007	Glen Long, BAAQMD	Weyman Lee, BAAQMD
Russell City Energy Center Modeling Files (CD)	No Date	Glen Long, BAAQMD	
Amendment No. 1 prepared by Russell City Energy Company, LLC, submitted to the California Energy Commission for the Russell City Energy Center (01-AFC-7): Chapter 3.2 Biological Resources*	Nov-06	Russell City Energy Company, LLC	CEC
Letter from Barbara McBride, Calpine to Dr. Anita Lee, US EPA Region 9 re: Russell City Energy Center PSD/ESA	2/20/2009	Barbara McBride, Calpine	Anita Lee, US EPA Region 9
Memorandum prepared by Craig Williams, CH2MHILL, for Barbara McBride, Calpine: Russell Energy Center: Nitrogen Deposition at East Bay Regional Parks	2/19/2009	Craig Williams, CH2MHILL	Barbara McBride, Calpine
Cover Letter from Kevin Poloncarz, Calpine to Dr. Anita Lee, US EPA Region 9 re: Russell City Energy Center PSD/ESA	2/25/2009	Kevin Poloncarz, Calpine	Anita Lee, US EPA Region 9
Memorandum prepared by Craig Williams, CH2MHILL, for Barbara McBride, Calpine: Russell Energy Center: Nitrogen Deposition at East Bay Regional Parks	2/24/2009	Craig Williams, CH2MHILL	Barbara McBride, Calpine
EPA Analysis of PG&E Reconductoring Projects - Russell City Energy Center	No date	EPA	

Document Title/Description	Date	Author/Source	Recipient
Memorandum from Douglas Davy, CH2MHILL, to Barbara McBride, Calpine: Russell City Energy Center Operational Noise Levels at the Hayward Shoreline Regional Park	4/3/2009	Douglas Davy, CH2MHILL	Barbara McBride, Calpine
Letter from Gerardo Rios, EPA Region 9, to Ryan Oh, US Fish and Wildlife Service, re: Additional Information for Informal Consultation under Section 7 of the Federal Endangered Species Act for the Proposed Russell City Energy Center - Hayward, CA	6/1/2009	Gerardo Rios, EPA Region 9	Ryan Oh, US Fish and Wildlife Service
Document: Despositional Modeling Results from the Russell City Energy Center Operation Critical Habitat Areas			
Revised Document prepared by Atmospheric Dynamics, Inc. for Russell City Energy Company, LLC: PM2.5 PSD Source Impact Analysis	7/30/2009	Atmospheric Dynamics, Inc.	Russell City Energy Company, LLC
<u>HEALTH RISK ASSESSMENT ISSUES</u>			
Memorandum from Glen Long, BAAQMD to Weyman Lee, BAAQMD, re: Results of Health Risk Screening Analysis for Russell City Energy Center, Plant #18136, Application #15487*	2/28/2007	Glen Long, BAAQMD	Weyman Lee, BAAQMD
Memorandum from Glen Long, BAAQMD to Weyman Lee, BAAQMD, re: RCEC Aircraft Impacts with attachment: Hayward Executive Airport Location	3/12/2009	Glen Long, BAAQMD	Weyman Lee, BAAQMD
Table of California Air Toxics Emission Factors (CATEF) for turbines, printed on 2/21/07*		California Air Resources Board	
Table of California Air Toxics Emission Factors (CATEF) for Engines, printed on 2/21/07*		California Air Resources Board	
Telephone note, re: call with Glen Long, BAAQMD, using emission factors for toxic emissions*	2/21/2007	Weyman Lee, BAAQMD	

Document Title/Description	Date	Author/Source	Recipient
<u>ENDANGERED SPECIES ACT AND CLASS I AREAS CONSULTATION</u>			
Email from Anita Lee, US Environmental Protection Agency to Barry Young, BAAQMD, re: Russell City Energy PSD Permit	1/12/2009	Anita Lee, US Environmental Protection Agency	Barry Young, BAAQMD
Letter from Weyman Lee, BAAQMD to Jan Knight, US Fish and Wildlife Service, re: Consultation regarding Section 7 of the Endangered Species Act	9/24/2008	Weyman Lee, BAAQMD	Jan Knight, US Fish and Wildlife Service
Letter from Weyman Lee, BAAQMD to Don Neubacher, Pt Reyes National Seashore, re: Consultation regarding Section 7 of the Endangered Species Act	9/24/2008	Weyman Lee, BAAQMD	Don Neubacher, Pt Reyes National Seashore
Letter from Weyman Lee, BAAQMD to Sheheerah Kelly, US EPA Region 9, re: Consultation regarding Section 7 of the Endangered Species Act	9/24/2008	Weyman Lee, BAAQMD	Sheheerah Kelly, US EPA Region 9
Letter from Barbara McBride, Calpine to Weyman Lee, BAAQMD, re: Submission of Supplement to Russell City Energy Center's Application for Prevention of Significant Deterioration Permit to Require Approval of Certain Construction Plans by US Fish and Wildlife Service	6/26/2009	Barbara McBride, Calpine	Weyman Lee, BAAQMD
Letter from Barbara McBride, Calpine to Carol Severin, et al, HASPA, re: Response to comments of Hayward Area Shoreline Planning Agency (HSPA) on Proposed Prevention of Significant Deterioration (PSD) Permit for Russell City Energy Center	6/26/2009	Barbara McBride, Calpine	HASPA
Map of Modeled Nitrogen Deposition for the Hayward Shoreline Regional Park	No Date	Atmospheric Dynamics, Inc.	HASPA

Document Title/Description	Date	Author/Source	Recipient
<u>PUBLIC NOTICE AND COMMENT OPPORTUNITIES</u>			
Notice of Public Hearing and Notice Inviting Written Public Comment on Proposed Air Quality Permit for the Russell City Energy Center, Hayward, CA (with revised address)*		BAAQMD	
Project Fact Sheet: Russell City Energy Center (Hayward, CA)*		BAAQMD	
Statement of Basis for Draft Amended Federal "Prevention of Significant Deterioration" Permit: Russell City Energy Center*	12/8/2008	Weyman Lee, P.E., BAAQMD	
Russell City permitting status report to Board of Directors		BAAQMD	
Email from David Ruiz, Language Source, to Daniel Smith, BAAQMD, re: hearing 1-21-09 in Hayward, w/ copy of digital recording (CD)	1/23/2009	David Ruiz, Language Source	Daniel Smith, BAAQMD
[Original] Reporter's Transcript of Bay Area Air Quality Management District Public Comment Hearing Regarding The PSD Permit For The Russell City Energy Center	1/21/2009	Reported by Peter D. Torreano, CSR, CRR	

Document Title/Description	Date	Author/Source	Recipient
[Copy] Reporter's Transcript of Bay Area Air Quality Management District Public Comment Hearing Regarding The PSD Permit For The Russell City Energy Center	1/21/2009	Reported by Peter D. Torreano, CSR, CRR	
San Francisco Chronicle Proof of Publication for Notice to Persons Interested in "Prevention of Significant Deterioration" Permit Issues	8/19/2008	San Francisco Chronicle	BAAQMD
Santa Rosa Daily Proof of Publication for Notice to Persons Interested in "Prevention of Significant Deterioration" Permit Issues	8/19/2008	Santa Rosa Daily	BAAQMD
Marin Independent Journal, #1408398, Proof of Publication for Notice to Persons Interested in "Prevention of Significant Deterioration" Permit Issues	8/19/2008	Marin Independent Journal	BAAQMD
Napa Daily, Ad# 114516-01, Proof of Publication for Notice to Persons Interested in "Prevention of Significant Deterioration" Permit Issues	8/19/2008	Napa Daily	BAAQMD
San Jose Mercury News, Legal Ad #2900886, Proof of Publication for Notice to Persons Interested in "Prevention of Significant Deterioration" Permit Issues	8/19/2008	San Jose Mercury News	BAAQMD
Contra Costa Times, File #1742610, Proof of Publication for Notice to Persons Interested in "Prevention of Significant Deterioration" Permit Issues	8/19/2008	Contra Costa Times	BAAQMD
West County Times, File #1408394, Proof of Publication for Notice to Persons Interested in "Prevention of Significant Deterioration" Permit Issues	8/19/2008	West County Times	BAAQMD
San Mateo County Times, File #1408396, Proof of Publication for Notice to Persons Interested in "Prevention of Significant Deterioration" Permit Issues	8/19/2008	San Mateo County Times	BAAQMD
Tri-Valley Herald, File #1408376, Proof of Publication for Notice to Persons Interested in "Prevention of Significant Deterioration" Permit Issues	8/19/2008	Tri-Valley Herald	BAAQMD

Document Title/Description	Date	Author/Source	Recipient
Vacaville Reporter Proof of Publication for Notice to Persons Interested in "Prevention of Significant Deterioration" Permit Issues	8/19/2008	Vacaville Reporter	BAAQMD
The Argus, File #1408373, Proof of Publication for Notice to Persons Interested in "Prevention of Significant Deterioration" Permit Issues	8/19/2008	The Argus	BAAQMD
The Benecia Herald and New ERA Proof of Publication for Notice to Persons Interested in "Prevention of Significant Deterioration" Permit Issues	8/19/2008	The Benecia Herald and New ERA	BAAQMD
The Oakland Tribune, File #1400569, Proof of Publication for Notice to Persons Interested in "Prevention of Significant Deterioration" Permit Issues	8/19/2008	Oakland Tribune	BAAQMD
Hayward Daily Review, File #1400487, Proof of Publication for Notice to Persons Interested in "Prevention of Significant Deterioration" Permit Issues	8/19/2008	Hayward Daily Review	BAAQMD
San Francisco Daily Journal Proof of Publication for Notice to Persons Interested in "Prevention of Significant Deterioration" Permit Issues	8/19/2008	San Francisco Daily Journal	BAAQMD
Hayward Daily Review Proof of Publication, File #1485888 in the matter of Notice Inviting Written Public Comment (for the Prevention of Significant Deterioration Permit)	12/15/2008	Hayward Daily Review	BAAQMD
Hayward Daily Review Proof of Publication, File #1488754 in the matter of Notice Inviting Written Public Comment (for the Prevention of Significant Deterioration Permit)	12/18/2008	Hayward Daily Review	BAAQMD
Oakland Tribune Proof of Publication, File #1485873 in the matter of Notice Inviting Written Public Comment (for the Prevention of Significant Deterioration Permit)	12/15/2008	Oakland Tribune	BAAQMD
Oakland Tribune Proof of Publication, File #1488758 in the matter of Notice Inviting Written Public Comment (for the Prevention of Significant Deterioration Permit)	12/18/2008	Oakland Tribune	BAAQMD
El Mensajero Proof of Publication in the matter of Notice Inviting Written Public Comment (for the Prevention of Significant Deterioration Permit)	Week of 12/21/08 to 12/27/08	El Mensajero	BAAQMD

Document Title/Description	Date	Author/Source	Recipient
Audio Recording (CD) and Reporter's Transcript of Bay Area Air Quality Management District Public Comment Hearing Regarding the PSD Permit for the Russell City Energy Center	1/21/2009	BAAQMD	
Comments received from the public regarding proposed PSD Permit and Statement of Basis	Various	Various	BAAQMD
Oakland Tribune Proof of Publication, File #1116419 in the matter of Notice Inviting Written Public Comment (for the Preliminary Determination of Compliance)*	4/12/2007	Oakland Tribune	BAAQMD
Oakland Tribune Proof of Publication, File #1242140 in the matter of Notice of Final Action Public Comment (for the issuance of the Authority to Construct)*	12/6/2007	Oakland Tribune	BAAQMD
Daily Review Proof of Publication, File #1513725: Notice of Extension of Public Comment Period	1/31/2009	Daily Review	BAAQMD
Order for Notice of Public Hearing and Writing Inviting Public Comment published in the Oakland Tribune on 12/15/08	12/9/2008	AdTech	BAAQMD
Order for Notice of Public Hearing and Writing Inviting Public Comment published in the Daily Review on 12/15/08	12/9/2008	AdTech	BAAQMD
Order for Notice to Persons Interested in "Prevention of Significant Deterioration" Permit Issues published in the Contra Costa Times on 6/12/08	6/9/2008	AdTech	BAAQMD

Document Title/Description	Date	Author/Source	Recipient
BAAQMD Russell City Energy Center PSD List for Agencies*	No Date	BAAQMD	
BAAQMD Russell City Energy Center PSD List for Mailing*	No Date	BAAQMD	
BAAQMD Russell City Energy Center PSD List for Non-Agencies*	No Date	BAAQMD	
List of Comment Letters for the Comment Period that ended on 2/6/09	No Date	BAAQMD	
List of Comment Letters Received Outside of Comment Period that ended on 2/6/09	No Date	BAAQMD	
<u>MISCELLANEOUS COMMUNICATIONS</u>			
Miscellaneous communications received from various sources regarding proposed Russell City Energy Center permitting action.	Various	Various	Various
<u>2007 DISTRICT PERMITTING ACTION (STATE-LAW ATC PERMITTING ACTION)</u>			
Memorandum from Weyman Lee, BAAQMD, to Jack Broadbent, re: Amended Preliminary Determination of Compliance for the Proposed Russell Energy Center, Application 15487*	3/26/2007	Weyman Lee, BAAQMD	Jack Broadbent, BAAQMD

Document Title/Description	Date	Author/Source	Recipient
Letter from Jack Broadbent, BAAQMD to Sayed Sadredin, San Joaquin Valley Unified APCD, re: Proposed Russell City Energy Center, BAAQMD Application 15487 (notification of completed PDOC)*	4/2/2007	Jack Broadbent, BAAQMD	Sayed Sadredin, San Joaquin Valley Unified APCD
Letter from Jack Broadbent, BAAQMD to Larry Greene, Sacramento Metropolitan AQMD, re: Proposed Russell City Energy Center, BAAQMD Application 15487 (notification of completed PDOC)*	4/2/2007	Jack Broadbent, BAAQMD	Larry Greene, Sacramento Metropolitan AQMD
Letter from Jack Broadbent, BAAQMD to Mat Ehrhardt, Yolo-Solano AQMD, re: Proposed Russell City Energy Center, BAAQMD Application 15487 (notification of completed PDOC)*	4/2/2007	Jack Broadbent, BAAQMD	Mat Ehrhardt, Yolo-Solano AQMD
Letter from Jack Broadbent, BAAQMD to Deborah Jordan, US Environmental Protection Agency, re: Proposed Russell City Energy Center, BAAQMD Application 15487 (notification of completed PDOC)*	4/2/2007	Jack Broadbent, BAAQMD	Deborah Jordan, US Environmental Protection Agency
Letter from Jack Broadbent, BAAQMD to Doug Quetin, Monterey Bay Unified APCD, re: Proposed Russell City Energy Center, BAAQMD Application 15487 (notification of completed PDOC)*	4/2/2007	Jack Broadbent, BAAQMD	Doug Quetin, Monterey Bay Unified APCD
Letter from Jack Broadbent, BAAQMD to Jeri Scott, California Energy Commission, re: Proposed Russell City Energy Center, BAAQMD Application 15487 (notification of completed PDOC)*	4/2/2007	Jack Broadbent, BAAQMD	Jeri Scott, California Energy Commission
Letter from Jack Broadbent, BAAQMD to Barbara McBride, Calpine, re: Proposed Russell City Energy Center, BAAQMD Application 15487 (notification of completed PDOC)*	4/2/2007	Jack Broadbent, BAAQMD	Barbara McBride, Calpine

Document Title/Description	Date	Author/Source	Recipient
Letter from Jack Broadbent, BAAQMD to Don Neubacher, Pt. Reyes National Seashore, re: Proposed Russell City Energy Center, BAAQMD Application 15487 (notification of completed PDOC)*	4/2/2007	Jack Broadbent, BAAQMD	Don Neubacher, Pt. Reyes National Seashore
Letter from Jack Broadbent, BAAQMD to Michael Tollstrup, California Air Resources Board, re: Proposed Russell City Energy Center, BAAQMD Application 15487 (notification of completed PDOC)*	4/2/2007	Jack Broadbent, BAAQMD	Michael Tollstrup, California Air Resources Board
Amended Preliminary Determination of Compliance for the Russell City Energy Center*	3/27/2007	BAAQMD	Russell City Energy Company
Letter from Paul C. Richins, California Energy Commission to Jack Broadbent, BAAQMD, re: Amended Determination of Compliance for the Russell City Energy Center, Application 15487*	5/29/2007	Paul C. Richins, California Energy Commission	Jack Broadbent, BAAQMD
Letter from Jack Broadbent, BAAQMD to Paul C. Richins, California Energy Commission, re: Amended Determination of Compliance for the Russell City Energy Center, Application 15487*	No Date	Jack Broadbent, BAAQMD	Paul Richins, California Energy Commission
Permit Conditions with Revision Marks from Calpine*	No Date	Calpine	BAAQMD
Letter from Barbara McBride, Calpine, to Brian Bateman, BAAQMD, re: Emission Reduction Credit Swap for the Russell Energy Center*	5/30/2007	Barbara McBride, Calpine	Brian Bateman, BAAQMD
Memorandum from Weyman Lee, BAAQMD, to Jack Broadbent, re: Amended Final Determination of Compliance for the Proposed Russell Energy Center, Application 15487*	6/21/2007	Weyman Lee, BAAQMD	Jack Broadbent, BAAQMD

Document Title/Description	Date	Author/Source	Recipient
Letter from Jack Broadbent, BAAQMD to Sayed Sadredin, San Joaquin Valley Unified APCD, re: Proposed Russell City Energy Center, BAAQMD Application 15487 (notification of issuance of FDOC)*	6/27/2007	Jack Broadbent, BAAQMD	Sayed Sadredin, San Joaquin Valley Unified APCD
Letter from Jack Broadbent, BAAQMD to Larry Greene, Sacramento Metropolitan AQMD, re: Proposed Russell City Energy Center, BAAQMD Application 15487 (notification of issuance of FDOC)*	6/27/2007	Jack Broadbent, BAAQMD	Larry Greene, Sacramento Metropolitan AQMD
Letter from Jack Broadbent, BAAQMD to Mat Ehrhardt, Yolo-Solano AQMD, re: Proposed Russell City Energy Center, BAAQMD Application 15487 (notification of issuance of FDOC)*	6/27/2007	Jack Broadbent, BAAQMD	Mat Ehrhardt, Yolo-Solano AQMD
Letter from Jack Broadbent, BAAQMD to Deborah Jordan, US Environmental Protection Agency, re: Proposed Russell City Energy Center, BAAQMD Application 15487 (notification of issuance of FDOC)*	6/27/2007	Jack Broadbent, BAAQMD	Deborah Jordan, US Environmental Protection Agency
Letter from Jack Broadbent, BAAQMD to Doug Quetin, Monterey Bay Unified APCD, re: Proposed Russell City Energy Center, BAAQMD Application 15487 (notification of issuance of FDOC)*	6/27/2007	Jack Broadbent, BAAQMD	Doug Quetin, Monterey Bay Unified APCD
Letter from Jack Broadbent, BAAQMD to Jeri Scott, California Energy Commission, re: Proposed Russell City Energy Center, BAAQMD Application 15487 (notification of issuance of FDOC)*	6/27/2007	Jack Broadbent, BAAQMD	Jeri Scott, California Energy Commission
Letter from Jack Broadbent, BAAQMD to Barbara McBride, Calpine, re: Proposed Russell City Energy Center, BAAQMD Application 15487 (notification of issuance of FDOC)*	6/27/2007	Jack Broadbent, BAAQMD	Barbara McBride, Calpine

Document Title/Description	Date	Author/Source	Recipient
Letter from Jack Broadbent, BAAQMD to Don Neubacher, Pt. Reyes National Seashore, re: Proposed Russell City Energy Center, BAAQMD Application 15487 (notification of issuance of FDOC)*	6/27/2007	Jack Broadbent, BAAQMD	Don Neubacher, Pt. Reyes National Seashore
Letter from Jack Broadbent, BAAQMD to Michael Tollstrup, California Air Resources Board, re: Proposed Russell City Energy Center, BAAQMD Application 15487 (notification of issuance of FDOC)*	6/27/2007	Jack Broadbent, BAAQMD	Michael Tollstrup, California Air Resources Board
Letter from Jack Broadbent, BAAQMD to Paul Richins, California Energy Commission, re: Proposed Russell City Energy Center, BAAQMD Application 15487 (notification of issuance of FDOC)*	6/27/2007	Jack Broadbent, BAAQMD	Paul Richins, California Energy Commission
Amended Final Determination of Compliance for the Russell City Energy Center*	6/19/2007	BAAQMD	Russell City Energy Company
Memorandum from Weyman Lee, BAAQMD, to Jack Broadbent, re: Issuance of the Authority to Construct and PSD Permit for the Russell Energy Center, Application 15487*	10/22/2007	Weyman Lee, BAAQMD	Jack Broadbent, BAAQMD
Letter from Jack Broadbent, BAAQMD to Sayed Sadredin, San Joaquin Valley Unified APCD, re: Russell City Energy Center, BAAQMD Application 15487 (notification of issuance of AC and PSD Permit)*	11/1/2007	Jack Broadbent, BAAQMD	Sayed Sadredin, San Joaquin Valley Unified APCD
Letter from Jack Broadbent, BAAQMD to Larry Greene, Sacramento Metropolitan AQMD, re: Russell City Energy Center, BAAQMD Application 15487 (notification of issuance of AC and PSD Permit))*	11/1/2007	Jack Broadbent, BAAQMD	Larry Greene, Sacramento Metropolitan AQMD

Document Title/Description	Date	Author/Source	Recipient
Letter from Jack Broadbent, BAAQMD to Mat Ehrhardt, Yolo-Solano AQMD, re: Russell City Energy Center, BAAQMD Application 15487 (notification of issuance of AC and PSD Permit)*	11/1/2007	Jack Broadbent, BAAQMD	Mat Ehrhardt, Yolo-Solano AQMD
Letter from Jack Broadbent, BAAQMD to Doug Quetin, Monterey Bay Unified APCD, re: Proposed Russell City Energy Center, BAAQMD Application 15487 (notification of issuance of AC and PSD Permit)*	11/1/2007	Jack Broadbent, BAAQMD	Doug Quetin, Monterey Bay Unified APCD
Letter from Jack Broadbent, BAAQMD to Lance Shaw, California Energy Commission, re: Proposed Russell City Energy Center, BAAQMD Application 15487 (notification of issuance of AC and PSD Permit)*	11/1/2007	Jack Broadbent, BAAQMD	Lance Shaw, California Energy Commission
Letter from Jack Broadbent, BAAQMD to Don Neubacher, Pt. Reyes National Seashore, re: Russell City Energy Center, BAAQMD Application 15487 (notification of issuance of AC and PSD Permit)*	11/1/2007	Jack Broadbent, BAAQMD	Don Neubacher, Pt. Reyes National Seashore
Letter from Jack Broadbent, BAAQMD to Michael Tollstrup, California Air Resources Board, re: Russell City Energy Center, BAAQMD Application 15487 (notification of issuance of AC and PSD Permit)*	11/1/2007	Jack Broadbent, BAAQMD	Michael Tollstrup, California Air Resources Board
BAAQMD Authority to Construct and Federal PSD Permit for the Russell City Energy Center*	11/1/2007	BAAQMD	Russell City Energy Company
Certification for the Russell City Energy Center	9/2/2008	Barbara McBride, Calpine	BAAQMD

Document Title/Description	Date	Author/Source	Recipient
<u>CEC LICENSING PROCEEDING RECORD</u>			
<p>Permitting record from the California Energy Commission licensing proceedings for the Russell City Energy Center, CEC Dockets Nos. 01-AFC-7 (original proceeding) and 01-AFC-7C (amendment proceeding). [Note that most relevant documents are available electronically on the Energy Commission's website at www.energy.ca.gov. Members of the public are encouraged to access these records electronically to save paper and resources. Should any member of the public not be able to access any documents electronically, the Air District will be happy to make copies physically available for review and inspection at District headquarters upon request.]</p>	Various	Various	Various
<u>DISTRICT HEARING BOARD APPEAL RECORD</u>			
<p>Appeal Record, BAAQMD Hearing Board Docket No. 3546, In the Matter of the Appeal of ROB SIMPSON from the issuance of an Authority to Construct for the RUSSELL CITY ENERGY CENTER.</p>	Various	Various	Various
<u>EAB APPEAL RECORD</u>			
<p>Appeal Record, EPA Environmental Appeals Board Dockets PSD 08-01 and PSD 08-07. [Note that these documents are available electronically on the Environmental Appeals Board's website at www.epa.gov/eab. Members of the public are encouraged to access these records electronically to save paper and resources. Should any member of the public not be able to access any documents electronically, the Air District will be happy to make copies physically available for review and inspection at District headquarters upon request.]</p>	Various	Various	Various

