

BEFORE THE ENVIRONMENTAL APPEALS BOARD  
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C.

In re:	)	
	)	
Pio Pico Energy Center	)	Appeal Nos. PSD 12-04, PSD 12-05,
	)	and PSD 12-06
PSD Permit No. SD 11-01	)	
	)	

**CERTIFIED INDEX TO THE ADMINISTRATIVE RECORD**

I, Deborah Jordan, am the Director of the Air Division for EPA Region 9 ("Region 9"). I certify that the attached index lists the documents constituting the administrative record required by 40 C.F.R. 124.18 for Region 9's final Prevention of Significant Deterioration permit issued to Pio Pico Energy Center, LLC, which is the subject of the above-captioned petitions for review.

In witness whereof, I have signed my name this 17<sup>th</sup> day of January, 2013 at San Francisco, California.

  
\_\_\_\_\_  
Deborah Jordan  
Air Division  
U.S. Environmental Protection Agency, Region 9

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I.59	Letter from Sierra Research (S. Hill) to EPA (G. Rios) submitting modeling input/output files to support updated NO2 modeling analysis	05/23/2012
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II.3	Email from Sierra Research (G. Rubenstein) to EPA (G. Rios) with ESA Section 7 consultation letter	10/12/2011
II.4	Letter from URS (L. Hulse) to EPA (G. Rios) submitting Biological Assessment	11/29/2011
II.5	Email from URS (L. Hulse) to EPA (G. Rios) submitting Biological Assessment	11/30/2011
II.6	PPEC Biological Assessment prepared by URS and submitted to EPA	November 2011
II.7	Email from PPEC/URS (L. Hulse) to EPA (R.Kohn) submitting electronic version of Biological Assessment	12/05/2011
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II.9	Email (2 of 2) from EPA (R. Kohn) to Apex Power (D. Jenkins) re start of ESA consultation	12/22/2011
II.10	Letter from EPA to FWS requesting initiation of formal consultation under Section 7 of the Endangered Species Act	12/23/2011
II.11	Email from EPA (R. Kohn) to FWS (E. Porter) transmitting electronic copy of ESA consultation request and Biological Assessment	12/23/2011
II.12	Letter from FWS to EPA on ESA Section 7 consultation request	02/01/2012
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II.14	Letter from URS (P. Mock) to FWS (E. Porter) re: habitat preservation and/or management	02/24/2012
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II.19	Email from EPA (R. Kohn) to FWS (E. Porter) submitting comments on draft Biological Opinion	08/23/2012
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II.29	Emails from PPEC (D. Jenkins) to EPA (G. Rios) submitting application addendum letter for ESA	10/16/2012
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<b>III. Federal Land Manager and PSD Class I/Air Quality Modeling Related Documents</b>		
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III.2	EPA Guidance - Screening Procedure for the Impacts of Air Pollution Sources on Plants, Soils, and Animals, EPA 450/2-81-078, December 1980. (available electronically only)	12/12/1980
III.3	Federal Land Managers Air Quality Related Values Workgroup (FLAG) Phase I Report (December 2000), U.S. Forest Service, National Park Service, U.S. Fish And Wildlife Service. (available electronically only)	12/01/2000
III.4	Letter (01/03/02) from Christine L. Shaver, National Park Service and Sandra V. Silva, U.S. Fish and Wildlife Service to S. William Becker, STAPPA/ALAPCO - Deposition Analysis Threshold (DAT) within NPS and FWS Class I air quality areas.	01/03/2002
III.5	Attachment to Letter (01/03/02) (Index No. III-4) - Guidance on Nitrogen and Sulfur Deposition Analysis Thresholds	01/03/2002

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III.7	AERMOD Implementation Guide, EPA, January 9, 2008 (available electronically only)	01/09/2008
III.8	EPA Memo (03/23/10) - Modeling Procedures for Demonstrating Compliance with PM 2.5 NAAQS	03/23/2010
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III.11	Letter (07/22/85) from North Carolina to EPA re: Screening and Q/D methodology	07/22/1985
III.12	FR Notice - 76 FR 28646, May 18, 2011- Implementation of the New Source Review (NSR) Program for Particulate Matter Less Than 2.5 Micrometers (PM2.5); Final Rule To Repeal Grandfather Provision (available electronically only)	05/18/2011
III.13	Email from NPS (Tonnie Cummings) to EPA (C. Holladay)	03/22/2012
III.14	Email from USFS (M. McCorison) to EPA (C. Holladay)	May-87
III.15	EPA Guidance on Implementation of the 1-hour NO2 NAAQS for the PSD Program (available electronically only)	6/29/2010
III.16	SDAPCD 2011 Ambient Air Quality Network Plan, Section 5	6/30/2012
III.17	CEC Order Approving Otay Mesa Energy Air Quality Conditions of Certification (excerpt)	6/3/2009
III.18	SDAPCD 2011 Ambient Air Quality Network Plan, Appendices 3, 5, 7, 10	6/30/2012
III.19	Ambient Monitoring Guidelines for PSD, Section 2.4.1	May-87
III.20	Electronic modeling files: AFC modeling files on CD (March 2011); modeling hard drive (8/31/11); modeling spreadsheets on CD (12/1/11); 1-hr NO2 alternative background data on CD (2/2/12); Class I increment analysis on CD (2/28/12); modeling files on USB drive (5/23/12)	Mar-2011 to May-2012



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V.2	Agenda for 3-7-12 meeting (PPEC, EPA)	03/05/2012
V.3	EPA Environmental Justice Analysis for PPEC, June 2012	Jun-12
V.4	Chalmers, H., & Gibbins, J. (2007). Initial evaluation of the impact of post-combustion capture of carbon dioxide on supercritical pulverised coal power plant part load performance. Fuel, 86, 2109-2123	2007
V.5	Environmental Protection Agency. (2011, December 9). [Letter to the Honorable Edmund G. Brown, Jr.].	12/09/2011
V.6	EPRI. (2003). <i>SF6 and the Environment: Guidelines for Electric Utility Substations</i> (Report No. 1002067). Retrieved from at DoD Environment, Safety, and Occupational Health Network and Information Exchange website at <a href="http://www.denix.osd.mil/cmrmdupload/EPRI-SF6-Guidelines-for-Utility-Substations.pdf">http://www.denix.osd.mil/cmrmdupload/EPRI-SF6-Guidelines-for-Utility-Substations.pdf</a>	2003

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V.7	Fluor Corporation. (2009). Econamine FG Plus Process. Retrieved from <a href="http://www.fluor.com/econamine/Pages/efgprocess.aspx">http://www.fluor.com/econamine/Pages/efgprocess.aspx</a>	2009
V.8	General Electric Company. (n.d.[1]). 7FA Heavy Duty Gas Turbine. Retrieved January 21, 2012 from <a href="http://www.ge-energy.com/products_and_services/products/gas_turbines_heavy_duty/7fa_heavy_duty_gas_turbine.jsp">http://www.ge-energy.com/products_and_services/products/gas_turbines_heavy_duty/7fa_heavy_duty_gas_turbine.jsp</a>	undated
V.9	General Electric Company. (n.d.[2]). LMS100 Aero-derivative Gas Turbines. Retrieved May 24, 2012 from <a href="http://www.ge-energy.com/products_and_services/products/gas_turbines_aeroderivative/lms100.jsp">http://www.ge-energy.com/products_and_services/products/gas_turbines_aeroderivative/lms100.jsp</a> .	undated
V.10	General Electric Company. (n.d.[3]). LMS100. Retrieved from <a href="http://www.ecomagination.com/portfolio/lms100-simple-cycle-gas-turbine">http://www.ecomagination.com/portfolio/lms100-simple-cycle-gas-turbine</a>	undated
V.11	Hurst, P., & Walker, G. (2005). Post-combustion Separation and Capture Baseline Studies for the CCP Industrial Scenarios. In Thomas, D.C., & Benson, S.M. (Eds.), <i>Carbon Dioxide Capture for Storage in Deep Geologic Formations, Volume 1</i> (pp. 117-131). Oxford: Elsevier Ltd.	2005
V.12	Intergovernmental Panel on Climate Change. (2005). IPCC Special Report on Carbon Dioxide Capture and Storage. Prepared by Working Group III of the Intergovernmental Panel on Climate Change [Metz, B., O. Davidson, H. C. de Coninck, M. Loos, and L. A. Meyer (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA. (available electronically only)	2005
V.13	Kvamsdal, H., Chikukwa, A., Hillestad, M., Zakeri, A., & Einbu, A. (2011). A comparison of different parameter correlation models and the validation of an MEA-based absorber model. Energy Procedia, 4, 1526-1533	2011
V.14	National Petroleum Council. (2007). Hard Truths: Facing the Hard Truths about Energy. Retrieved from the National Petroleum Council website at <a href="http://www.npchar truthsreport.org/">http://www.npchar truthsreport.org/</a> . (available electronically only)	2007

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V.15	National Institute of Standards and Technology. (1997). Gases for Electrical Insulation and Arc Interruption: Possible Present and Future Alternatives to Pure SF6 (NIST Technical Note No. 1425). Retrieved from EPA website at <a href="http://www.epa.gov/electricpower-sf6/resources/index.html">http://www.epa.gov/electricpower-sf6/resources/index.html</a>	1997
V.16	Reddy, S., Scherffius, J., Freguia, S., & Roberts, C. (2003, May). Fluor's Econamine FG PlusSM Technology: An Enhanced Amine-Based CO2 Capture Process. Paper presented at the Second Annual Conference on Carbon Sequestration, Alexandria, VA	2003
V.17	Rolls Royce. (n.d.). Trent 60. Retrieved June 11, 2012 from <a href="http://www.rolls-royce.com/energy/energy_products/gas_turbines/trent_60/">http://www.rolls-royce.com/energy/energy_products/gas_turbines/trent_60/</a> .	n.d.
V.18	Siemens AG. (2008). Siemens Gas Turbines over 100 MW. Retrieved June 11, 2012 from <a href="http://www.energy.siemens.com.cn/CN/downloadCenter/Documents/E_F_SGT_over_100MW.pdf">http://www.energy.siemens.com.cn/CN/downloadCenter/Documents/E_F_SGT_over_100MW.pdf</a>	2008
V.19	Siemens AG. (2011). SGT-2000E Series. Retrieved June 10, 2012 from <a href="http://www.energy.siemens.com/hq/en/power-generation/gas-turbines/sgt6-2000e.htm">http://www.energy.siemens.com/hq/en/power-generation/gas-turbines/sgt6-2000e.htm</a> .	2011
V.20	Simmonds, M., Hurst, P., Wilkinson, M.B., Reddy, S., & Khambaty, S., (2003, May). Amine Based CO2 Capture from Gas Turbines. Paper presented at the Second Annual Conference on Carbon Sequestration, Alexandria, VA	2003
V.21	U.S. Department of Energy. (2011). DOE/NETL Advanced Carbon Dioxide Capture R&D Program: Technology Update. Retrieved from DOE website at <a href="http://www.netl.doe.gov/technologies/coalpower/ewr/pubs/CO2Handbook/">http://www.netl.doe.gov/technologies/coalpower/ewr/pubs/CO2Handbook/</a> . (available electronically only)	2011
V.22	Wartsila Corporation. (2011). Power Plants Product Catalogue, 2nd Edition. Retrieved from <a href="http://www.wartsila.com/en/power-plants/smart-power-generation/gas-power-plants">http://www.wartsila.com/en/power-plants/smart-power-generation/gas-power-plants</a> (available electronically only)	2011
V.23	Wang, M., Lawal, A., Stephenson, P., Sidders, J., & Ramshaw, C. (2011). Post-combustion CO2 capture with chemical absorption: A state-of-the-art review. Chemical Engineering Research and Design, 89, 1609-1624. (available electronically only)	2011

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V.25	Email from S. Rivera to C. Holladay for NO2/NOx In-Stack Ratios selection	06/18/2012
V.26	Attachment to Email (06/18/2012) from S. Rivera to C. Holladay - Public Information Request from EPA to SDAPCD	04/04/2012
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V.28	Correctional Health in the United States: Key Issues (The Center for Prisoner Health and Human Rights, Brown University) (printed on 11/5/12)	undated
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V.30	EmeraChem - EMx Performance	undated
V.31	Letters from Shasta County AQMD (R. Bell) to Redding Electric Utility dated March 15, 2005 requesting NOx test results (using SCONox) of Unit 5 and June 23, 2005 summarizing findings of submitted test results.	03/15/2005 06/23/2005
V.32	EMx cost analysis for JEA Greenland facility	undated
V.33	SDAPCD Final Determination of Compliance	05/04/2012
V.34	CEC PPEC Final Commission Decision, Cultural Resources (excerpt)	Sep-12
V.35	CEC Commission Adoption Order	09/12/2012
V.36	PM emissions from water injection (excerpt from CEC transcript)	02/24/2011
V.37	GE LMS100 Brochure (available on internet only, as of 11/13/12, at: <a href="http://www.scribd.com/doc/61153709/Lms100-Brochure">http://www.scribd.com/doc/61153709/Lms100-Brochure</a> )	undated
V.38	CD with Panoche PM Source Test Data	01/05/2012
<b>VI. Public Comments and Related Documents</b>		
VI.1	Public notice distribution mailing lists for Proposed Permit	June 2012 and August 2012
VI.2	Public notice of proposed permit transmitted by emails to Part 124 mailing list and applicant	06/20/2012
VI.3	Public notice of proposed permit transmitted by email to San Diego-Tijuana Air Quality Task Force	06/20/2012

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VI.4	Second public notice of proposed permit transmitted by emails to Part 124 mailing list and applicant	08/03/2012
VI.5	Second public notice of proposed permit transmitted by email to San Diego-Tijuana Air Quality Task Force	08/03/2012
VI.6	Second public notice of proposed permit transmitted by email to Bill Powers	08/03/2012
VI.7	Public Hearing Sign-in Sheet Attendance (scanned and typed versions)	07/24/2012
VI.8	Transcript of Public Hearing - July 24, 2012	07/24/2012
VI.9	Email from Steve Hill to EPA submitting comments on proposed permit from Sierra Research on behalf of PPLLC	07/24/2012
VI.10	Attachment to 7-24-12 email from Steve Hill: comments from Sierra Research on behalf of PPLLC	07/24/2012
VI.11	Email from Steve Moore to EPA submitting comments from SDAPCD	07/24/2012
VI.12	Comments from SDAPCD	07/24/2012
VI.13	Comments from Rincon Band of Luiseño Indians	06/27/2012
VI.14	Email from Rob Simpson to EPA submitting comments on proposed permit	07/18/2012
VI.15	Email from Rob Simpson to EPA submitting attachment (Standardized Planning Assumptions for System Resource Plans)	07/18/2012
VI.16	Attachment to 7-18-12 email from Rob Simpson: Standardized Planning Assumptions for System Resource Plans	02/10/2011
VI.17	Email from Rob Simpson to EPA submitting two attachments (Jacobson articles)	07/18/2012
VI.18	Attachment to 7-18-12 email from Rob Simpson: On the causal link between carbon dioxide and air pollution mortality (Jacobson)	02/12/2008
VI.19	Attachment to 7-18-12 email from Rob Simpson: Enhancement of Local Air Pollution by Urban CO2 Domes	03/02/2010
VI.20	Email from Rob Simpson to EPA submitting attachment (Approved ARB-CEC Joint Policy Statement of Compliance with Air Quality Laws by New Power Plants)	07/18/2012

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VI.21	Attachment to 7-18-12 email from Rob Simpson: Approved ARB-CEC Joint Policy Statement of Compliance with Air Quality Laws by New Power Plants	undated (submitted 7/18/2012)
VI.22	Email from Rob Simpson to EPA submitting two attachments (comments on PDOC submitted to SDAPCD; San Diego Smart Energy 2020 presentation)	07/18/2012
VI.23	Attachment to 7-18-12 email from Rob Simpson: comments on PDOC submitted to SDAPCD (in PDF and Word formats)	01/18/2012
VI.24	Attachment to 7-18-12 email from Rob Simpson: San Diego Smart Energy 2020 (available electronically only)	Oct-07
VI.25	Email from Rob Simpson to EPA submitting attachment (additional comments on PDOC submitted to SDAPCD)	07/18/2012
VI.26	Attachment to 7-18-12 email from Rob Simpson: additional comments on PDOC submitted to SDAPCD	01/18/2012
VI.27	Email from Rob Simpson to EPA submitting attachment (Energy Storage for Flexible Peaking Capacity)	07/18/2012
VI.28	Attachment to 7-18-12 email from Rob Simpson: Energy Storage for Flexible Peaking Capacity	Jun-12
VI.29	Email from Rob Simpson to EPA submitting attachment (Rebuttal Testimony of Bill Powers)	07/18/2012
VI.30	Attachment to 7-18-12 email from Rob Simpson: Rebuttal Testimony of Bill Powers (available electronically only)	07/06/2012
VI.31	Email from Gretel Smith to EPA submitting comments on proposed permit on behalf of Rob Simpson and Helping Hand Tools	07/24/2012
VI.32	Email from David Bender to EPA submitting comments on proposed permit from the Sierra Club	07/24/2012
VI.33	Attachment to 7-24-12 email from David Bender: comments from the Sierra Club	07/24/2012
VI.34	Attachment to 7-24-12 email from David Bender: Operational Flexibility Enhancements of Combined Cycle Power Plants	Oct-08
VI.35	Email from Bob Sarvey to EPA submitting comments on proposed permit	07/24/2012
VI.36	Attachment to 7-24-12 email from Bob Sarvey: comments on proposed permit	undated (submitted 7/24/2012)

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VI.37	Email from EPA (R. Kohn) to Rob Simpson and Gretel Smith regarding request for comment period extension	07/26/2012
VI.38	Email from Rob Simpson to EPA (R. Kohn) regarding request for comment period extension	07/26/2012
VI.39	Email from EPA (R. Kohn) to Bob Sarvey regarding request for comment period extension	07/26/2012
VI.40	Email from Julian Torres Ruiz to EPA submitting comments on proposed permit from City of Tijuana, Mexico	08/07/2012
VI.41	Attachment to email from Julian Torres Ruiz: comments on proposed permit from City of Tijuana, Mexico	06/26/2012
VI.42	Email from Tonnie Cummings to EPA submitting comments on proposed permit from the National Park Service	08/10/2012
VI.43	Attachment to Email from Tonnie Cummings: Grays Harbor Energy Center BACT analysis (available electronically only)	04/06/2012
VI.44	Attachment to Email from Tonnie Cummings: Warren County Power Station PSD permit (available electronically only)	12/21/2010
VI.45	Email from Rob Simpson to EPA (R. Kohn) regarding mailing list question	08/13/2012
VI.46	Email from EPA (R. Kohn) to Rob Simpson regarding mailing list question	08/15/2012
VI.47	Email from Steve Hill to EPA submitting proposed GHG BACT condition from Sierra Research on behalf of PPLLC	08/22/2012
VI.48	Attachment to 8-22-12 email from Steve Hill: letter re proposed GHG BACT condition	08/22/2012
VI.49	Email from Steve Hill to EPA submitting additional comments on proposed permit from Sierra Research on behalf of PPLLC	08/24/2012
VI.50	Attachment to 8-24-12 email from Steve Hill: letter re additional comments from Sierra Research on behalf of PPLLC	08/24/2012
VI.51	Memo to PPEC file re teleconference with applicant	08/02/2012
VI.52	Memo to PPEC file re teleconference with City of Tijuana	08/23/2012
VI.53	Email from Johannes Epke submitting comments on proposed permit on behalf of Helping Hand Tools (Rob Simpson)	07/24/2012

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VI.54	Attachment to 7-24-12 email from Johannes Epkes: comments on proposed permit	07/24/2012
VI.55	Email from Bob Sarvey to EPA requesting EJ analysis	09/06/2012
VI.56	Email from EPA (R. Kohn) to Bob Sarvey providing EJ analysis	09/06/2012
VI.57	Email from Bob Sarvey to EPA submitting additional EJ comments (1 of 3)	09/20/2012
VI.58	Attachment to 9-20-12 emails from Bob Sarvey: additional EJ comments	09/20/2012
VI.59	Email from Bob Sarvey to EPA submitting additional EJ comments (2 of 3)	09/20/2012
VI.60	Email from Bob Sarvey to EPA submitting additional EJ comments (3 of 3)	09/20/2012
VI.61	Email from EPA (R. Kohn) to Bob Sarvey with comment submittal instructions	09/13/2012



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<b>VII. Final PSD Permit and Related Documents</b>		
VII.1	Cover Letter (11/19/12) from EPA to PPLLC	11/19/2012
VII.2	Final PSD Permit	11/19/2012
VII.3	Response to Public Comments	Nov-12
VII.4	Notice of Final PSD Permit Decision	11/19/2012
VII.5	Emails (11/19/12 and 11/20/12) from EPA to email distribution list providing Notice of Final PSD Permit Decision	11/19/2012 and 11/20/12
VII.6	Unofficial Redline/Strikeout Version of the Final PSD Permit	Nov-12