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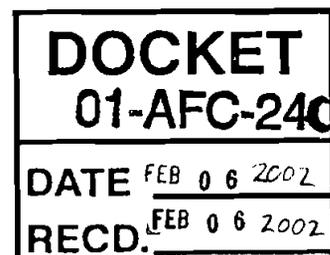
BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION  
OF THE STATE OF CALIFORNIA

APPLICATION FOR CERTIFICATION  
OF THE  
**PALOMAR ENERGY PROJECT**  
BY **PALOMAR ENERGY LLC**

DOCKET NO. **01-AFC-24**  
DATA ADEQUATE  
FEBRUARY 6, 2002

**EXHIBIT LIST**

- EXHIBIT 1            Application for Certification for the Palomar Energy Project Volume I, and Volume II (Appendices), docketed November 28, 2001, and Volume III (Supplement to AFC), docketed February 5, 2002. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT **2A**        Palomar Energy's responses to CEC Staff data requests #1-117, docketed April 8, 2002. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT **2B**        Palomar Energy's responses to CEC Staff data requests #29-35 (Historical Architectural Survey), docketed April 9, 2002. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 2C        Palomar Energy's responses to CEC Staff data requests #65-69, docketed April 17, 2002. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 2D        Palomar Energy's responses to CEC Staff data requests #14, 49-51, 53 -55, 81-85, 102, 107, docketed May 8, 2002. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 2E        Palomar Energy's supplemental responses to CEC Staff data request #25, docketed June 19, 2002. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 2F        Palomar Energy's supplemental responses to CEC Staff data request #110, docketed July 23, 2002. Sponsored by Applicant and received into evidence on April 29, 2003.



- EXHIBIT 2G Palomar Energy's supplemental responses to CEC Staff data request #16, docketed September 4, 2002. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 3A Palomar Energy's responses to CEC Staff data requests #118 to 135, docketed June 3, 2002. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 3B Palomar Energy's supplemental responses to CEC Staff data requests #120-122, docketed June 19, 2002. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 4A Palomar Energy's responses to CEC Staff data requests #136a-146, docketed June 24, 2002. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 4B Palomar Energy's supplemental responses to CEC Staff data request #145, docketed June 26, 2002. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 5A Palomar Energy's objections to data requests filed by Bill Powers (Set Nos. One, Two and Three), docketed September 20, 2002. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 5B Palomar Energy's responses to Bill Powers' data requests Set Nos. One and Two, docketed October 9, 2002. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 5C Palomar Energy's responses to Bill Powers' data requests Set No. Three, docketed October 17, 2002. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 6 Palomar Energy's Confidential Designation, Cultural Resources Report, Appendix B, docketed November 28, 2001. Sponsored by Applicant and received into evidence on April 8, 2003.
- EXHIBIT 7 Detailed Facilities Study and Appendices A.I through J, docketed February 14, 2002. Sponsored by Applicant and received into evidence on April 8, 2003.
- EXHIBIT 8 Historical Architectural Survey for the ERTC, docketed April 9, 2002. Sponsored by Applicant and received into evidence on April 8, 2003.

- EXHIBIT 9** Detailed Facilities Study, Appendix I, docketed April 17, 2002. Sponsored by Applicant and received into evidence on April 8, 2003.
- EXHIBIT 10** Palomar Energy submittal of U.S. Geological Survey report, docketed April 29, 2002. Sponsored by Applicant and received into evidence on April 8, 2003.
- EXHIBIT 11** Palomar Energy's Technical Work Plan, docketed May 15, 2002. Sponsored by Applicant and received into evidence on April 8, 2003.
- EXHIBIT 12** Letter from Palomar Energy to California Energy Commission, re SDG&E's gas delivery capacity docketed May 21, 2002. Sponsored by Applicant and received into evidence on April 8, 2003.
- EXHIBIT 13** Letter from California ISO to Sempra Energy Resources, docketed June 14, 2002. Sponsored by Applicant and received into evidence on April 8, 2003.
- EXHIBIT 14** Palomar Energy's Preliminary Assessment Shallow Subsurface 6-Acre Portion, docketed June 28, 2002. Sponsored by Applicant and received into evidence on April 8, 2003.
- EXHIBIT 15** Memorandum of Understanding between the CEC, City of Escondido and Palomar Energy, docketed August 5, 2002. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 16** Palomar Energy's Response to Petition from Bill Powers for Committee Workshop on the Subject of Alternative Cooling Options, docketed October 2, 2002. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 17** Palomar Energy's PM<sub>10</sub> CEQA Mitigation Plan, docketed October 15, 2002. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 18** Palomar Energy's Emissions Reductions Calculations, docketed November 6, 2002. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 19** San Diego Gas & Electric Analysis, docketed November 8, 2002. Sponsored by Applicant and received into evidence on April 8, 2003.

- EXHIBIT 20 Palomar Energy's submittal concerning Advantages and Disadvantages of Wet and Drying Cooling Systems, docketed November 13, 2002. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 21 Resolutions of the City Council of the City of Escondido Approving the ERTC Specific Plan, and Certifying the ERTC Final EIR/Approving the ERTC Mitigation Monitoring Program, docketed December 2, 2002. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 22 City of Escondido's Final Environmental Impact Report for ERTC Specific Plan, docketed December 6, 2002. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 23 Palomar Energy's response to Bill Powers' December 2, 2002 submittal regarding Plant Cooling Systems, docketed December 23, 2002. Sponsored by Applicant. ***Removed from the record by stipulation of the parties since it is the same as EXHIBIT 88.***
- EXHIBIT 24 City of Escondido ERTC Specific Plan Mitigation Monitoring and Reporting Program, docketed January 6, 2003. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 25 Palomar Energy's Letter Concerning Native American Monitors, docketed January 8, 2003. Sponsored by Applicant and received into evidence on April 8, 2003.
- EXHIBIT 26 Letter from San Diego County Water Authority supporting Palomar Energy's use of recycled water, docketed January 8, 2003. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 27 Cal-ISO Report regarding Transmission System Reliability Palomar Energy Project (PEP), docketed January 24, 2003. Sponsored by Applicant and received into evidence on April 8, 2003.
- EXHIBIT 28 U.S. Fish and Wildlife Service, ERTC Biological Opinion; California Department of Fish and Game, ERTC Streambed Alteration Agreement; collateral approvals by U.S. Army Corps of Engineers and Regional Water Quality Control Board, docketed March 7, 2003. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 29 Regional Water Quality Control Board, Receipt of Notice of Intent regarding Stormwater Discharge, docketed March 7, 2003.

- Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 30 Letter from the San Diego Air Pollution Control District, dated March 5, 2003, to Susan Geffer, California Energy Commission, regarding the Palomar Energy Project; District Application No. 976846, docketed March 10, 2003. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 31 Applicant's Prehearing Conference Statement, docketed March 6, 2003. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 32 Cultural Resources Survey for the ERTC Specific Plan Area, revised March 2002, docketed June 19, 2002. Sponsored by Applicant and received into evidence on April 8, 2003.
- EXHIBIT 33 Escondido Research and Technology Center Specific Plan, docketed December 9, 2002. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 34 Letter from Alberto Abreu, Sempra Energy Resources, dated March 26, 2003, to Mike Lake, San Diego Air Pollution Control District regarding additional ERC's for Palomar Energy Project, docketed March 26, 2003. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 35 Applicant's pre-filed testimony, docketed March 26, 2003. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 36 Palomar Energy's Comments on CEC Preliminary Staff Assessment on Palomar Energy Project, docketed September 27, 2002. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 37 Palomar Energy's CDs containing computer files relating to analyses presented in Palomar Energy's prefiled testimony, docketed April 2, 2003. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 38 Palomar Energy's Rebuttal Testimony, docketed April 4, 2003. Sponsored by Applicant and received into evidence on April 29, 2003.

- EXHIBIT 39** Palomar Energy's Modifications to Proposed Condition of Certification VIS-9, docketed February 5, 2003. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBIT 40** Palomar Energy's line drawing of plant elevation looking west with screening terrain, docketed May 15, 2003. Sponsored by Applicant and received into evidence on April 29, 2003.
- EXHIBITS 41-49** Intentionally *left* blank.
- EXHIBIT 50** Final Staff Assessment, dated January 25, 2003, which includes, by reference, the documents referred to therein, docketed January 28, 2003. Sponsored by Staff and received into evidence on April 29, 2003.
- EXHIBIT 51** Addendum to Staff Assessment, dated March 7, 2003, docketed March 7, 2003. Sponsored by Staff and received into evidence on April 29, 2003.
- EXHIBIT 51A** Modifications to EXHIBIT 51 Conditions of Certification TRANS-6 and TRANS-8, docketed April 10, 2003. Sponsored by Staff and received into evidence on April 8, 2003.
- EXHIBIT 52** Final Determination of Compliance, dated December 6, 2002, for the Palomar Energy Project, docketed December 9, 2002. Sponsored by Staff and received into evidence on April 29, 2003.
- EXHIBIT 53** Supplement to Final Determination of Compliance Concerning Prevention of Significant Deterioration (PSD) Requirements, dated February 27, 2003, docketed March 3, 2003. Sponsored by Staff and received into evidence on April 29, 2003.
- EXHIBIT 54** February 27, 2003 letter from Gerardo C. Rios, Chief, Permits Office, Air Division, United States Environmental Protection Agency Region IX to Mike Lake, Sand Diego County Air Pollution Control District, docketed March 5, 2003. Sponsored by Staff and received into evidence on April 29, 2003.
- EXHIBIT 55** February 27, 2003 letter from Haissam Y. Salloum, P.E, Department of Toxic Substances Control to Bob Eller, docketed March 4, 2003. Sponsored by Staff and received into evidence on April 8, 2003.
- EXHIBIT 56** Addendum #2 to Staff Assessment, dated March 24, 2003, docketed March 24, 2003. Sponsored by Staff and received into evidence on April 29, 2003.

- EXHIBIT 57 Staff's Rebuttal Testimony (Air Quality), dated April 4, 2003, and docketed April 4, 2003. Sponsored by Staff and received into evidence on April 29, 2003.
- EXHIBIT 58 Addendum #3 to Staff Assessment showing revisions to proposed Conditions of Certification re Air Quality, dated May 2, 2003, docketed May 2, 2003. Sponsored by Staff and received into evidence on April 29, 2003.
- EXHIBIT 59 Addendum #4 to Staff Assessment regarding status of leaking underground storage tank re Waste Management, dated June 10, 2003, and docketed June 10, 2003. Sponsored by Staff and received into evidence on June 10, 2003.
- EXHIBITS 60-69 *Intentionally left blank.*
- EXHIBIT 70 Six-minute documentary of Crockett Cogen ultra-low noise fans in operation, docketed April 8, 2003. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 71 Slides of height-optimized air-cooled condensers (ACC) and plume from plume abatement cooling tower, docketed April 8, 2003. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 72 San Pasqual Valley Water Resources Management Plan, City of San Diego Water Department, 1997, docketed April 8, 2003. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 73 Reclaimed Water Avocado Grove Demonstration Program, County Agricultural Extension, 1997, docketed April 8, 2003. Sponsored by Intervenor. ***Removed from the record by stipulation of the parties.***
- EXHIBIT 74 Comments on February 2002 CEC/EPRI Cooling Alternatives Report, Powers Engineering, March 2003, docketed April 8, 2003. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 75 Cease and Desist Order No. 96-31 for City of San Diego, docketed April 8, 2003. Sponsored by Intervenor. ***Removed from the record by stipulation of the parties.***

- EXHIBIT 76 Order No. 98-10 NPDES No. CA0108944, docketed April 8, 2003. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 77 Feb. 19, 2003 SWRCB review of SWRCB reclaimed water loans to City of Escondido, docketed April 8, 2003. Sponsored by Intervenor. ***Removed from the record by stipulation of the parties.***
- EXHIBIT 78 SWRCB Loan No. C-06-4156-110,-111,-112, docketed April 8, 2003. Sponsored by Intervenor. ***Removed from the record by stipulation of the parties.***
- EXHIBIT 79 SWRCB Loan No. C-06-4156-310, -311, docketed April 8, 2003. Sponsored by Intervenor. ***Removed from the record by stipulation of the parties.***
- EXHIBIT 80 Bureau of Reclamation webpage, Southern California Comprehensive Water Reclamation and Reuse Study, [www.lc.usbr.gov/scao/sccwrrs2.htm](http://www.lc.usbr.gov/scao/sccwrrs2.htm), docketed April 8, 2003. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 81 Bureau of Reclamation webpage, Escondido Regional Water Reclamation Program, [www.lc.usbr.gov/scao/escondi2.htm](http://www.lc.usbr.gov/scao/escondi2.htm). Docketed April 8, 2003. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 82 California Energy Commission, Water Supply Issues Workshop Summary, June 5, 2001, docketed April 8, 2003. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 83 Bureau of Reclamation, Federal Grant No. 1425-5-FG-30-00370 for Escondido Water Reclamation Project, May 1999, docketed April 8, 2003. Sponsored by Intervenor. ***Removed from the record by stipulation of the parties.***
- EXHIBIT 84 City of Escondido Wastewater, HARRF Improvements/Water Reclamation and Reuse Program, [www.ci.escondido.ca.us/publicworks/util/wstwtr/improv.html](http://www.ci.escondido.ca.us/publicworks/util/wstwtr/improv.html). Docketed April 8, 2003. Sponsored by Intervenor and received into evidence on April 29, 2003.

- EXHIBIT 85** California Energy Commission Decision on Sutter Power Plant Project, Docket No. 97-AFC-2, April 1999, pages 268-269, docketed April 8, 2003. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 86** Telephone call record, Paul Gagliardo, Manager, Water Research and Development, San Diego Water Department, February 2002. Docketed April 8, 2003. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 87** CEC Presiding Member's Proposed Decision – East Altamont Energy Center, Docket No. 01-AFC-4, January 2003, docketed April 8, 2003. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 88** Palomar Energy Project Response to Bill Powers dated December 2, 2002. Originally docketed by Applicant on December 23, 2002, docketed by Intervenor on April 8, 2003. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 89** Border Power Plant Working Group Response to Sempra Energy dated November 12, 2002, and submitted December 2, 2002, docketed January 9, 2003. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 90** Palomar Energy Project Information Concerning Cooling Systems, dated November 12, 2002, docketed November 13, 2002. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 91** Bill Powers, Presentation on Alternative Cooling Options, dated October 22, 2002 (PowerPoint), docketed October 24, 2002. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 92** Applicant's Data Responses to Bill Powers, dated October 9, 2002, docketed October 12, 2002. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 93** Border Power Plant Working Group Request for Committee Workshop on Alternative Cooling Options Prior to Completion of the FSA, dated September 25, 2002, docketed September 26, 2002. Sponsored by Intervenor and received into evidence on April 29, 2003.

- EXHIBIT 94 Bill Powers Petition for Committee Workshop on the Subject of Alternative Cooling Options, dated August 28, 2002, docketed September 26, 2002. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 95 Powers Engineering Comments on July 17, 2002 Sempra Energy Evaluation of Dry Cooling as an Alternative to Evaporative Cooling for the Proposed Palomar Energy Project, dated August 7, 2002 [*includes text of Sempra Energy evaluation of dry cooling submitted to San Diego Air Pollution Control District on July 17, 2002 (via e-mail)*], docketed August 13, 2002. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 96 Powers Engineering Request that the CEC Prepare Alternative Cooling Systems Evaluation for the Proposed Palomar Energy Project, dated August 7, 2002, docketed August 13, 2002. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 97 Powers Engineering Description of Alternative Uses for Reclaimed Water Currently Proposed as Cooling Water for Proposed Palomar Energy Project, dated August 6, 2002. Docketed August 12, 2002. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 98 Powers Engineering, Review of April 16, 2002 Palomar Energy Letter to District Regarding April 5, 2002 District Request for Additional Information on Palomar Energy Project No. 976846, dated May 27, 2002, docketed May 31, 2002. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 99 Water Infrastructure Network, "Clean and Safe Water for the 21<sup>st</sup> Century.", docketed April 8, 2003. Sponsored by Intervenor. ***Removed from the record by stipulation of the parties.***
- EXHIBIT 100 Cooling Technology Institute, Guideline Best Practices for Control of Legionella, February 2000, docketed April 8, 2003. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 101 William R. Stockwell, et al, "The Ammonium Nitrate Particle Equivalent of NO<sub>x</sub> Emissions for Wintertime Conditions in Central California's San Joaquin Valley," Atmospheric Environment, February 2000, docketed April 8, 2003. Sponsored by Intervenor and received into evidence on April 29, 2003.

- EXHIBIT 102 Border Power Plant Working Group Comments for February 7, 2003, Workshop on Air Quality and Visual Resources Issues Raised in FSA, February 5, 2003, docketed February 5, 2003. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 103 Use of Degraded Water Sources as Cooling Water in Power Plants, Final Report, March 2001, docketed April 8, 2003. Sponsored by Intervenor. ***Removed from the record by stipulation of the parties.***
- EXHIBIT 104 W. Micheletti, R. Post, R. Brundage, Untangling the Complexities of Cooling Water Chemistry, Power Magazine, Vol. 146, No. 6, September 2002, pp. 43-52, docketed April 11, 2003. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 105 M. West, Cooling Towers are Surprisingly Thirsty, presented at Florida Federal Water *Conservation* Workshop, August 2002, Orlando, Florida, docketed April 11, 2003. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 106 Ondeo Nalco, Cooling Water Chlorination, Technifax, 1998, docketed April 11, 2003. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 107 W. McCoy, Hypohalous Acid and Haloamine *Flashoff* in *Industrial* Evaporative Cooling Systems, Cooling Tower Institute (CTI) Journal, Vol. 12, No. 1, 1990, pp. 19-27, docketed April 11, 2003. sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 108 Bill Powers Expert Testimony, dated March 14, 2003, docketed March 14, 2003. Sponsored by Intervenor and received into evidence on April 28, 2003.
- EXHIBIT 109 Rebuttal Testimony of Bill Powers, dated April 4, 2003, docketed April 4, 2003. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 110 Ammonia Strip Rate Nomograph Description by Prof. N. Khandan, NMSU, dated March 2003, docketed March 17, 2003. Sponsored by Intervenor and received into evidence on April 29, 2003.
- EXHIBIT 111 Recycled Water Service Agreement among the City of Escondido, Rincon Del Diablo Municipal Water District, and Palomar Energy,

**LLC, dated March 26, 2003, docketed May 12, 2003. Sponsored by Intervenor and received into evidence on April 29, 2003.**

**EXHIBIT 112**

**Mr. Powers' Proposed Site Arrangement, Figures 2.4-1 and 2.4-2, dated April 28, 2003, docketed May 12, 2003. Sponsored by Intervenor. Received into evidence on April 29, 2003.**