

# DOCKET

09-AFC-6

DATE JUL 12 2010

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July 12, 2010

Alan Solomon  
Project Manager  
California Energy Commission  
1516 Ninth Street  
Sacramento, CA 95814

RE: **Blythe Solar Power Project, Docket No. 09-AFC-6**  
Re: **Response to Staff's Rebuttal Testimony Blythe Solar Power Project**  
**June 16, 2010 Hazardous Materials Management**  
Technical Areas: Worker Safety/Hazardous Materials (Revised HazMat Table 5.6-3R)

Dear Mr. Solomon:

Attached please find the following response to the Staff request that the applicant revise Table 5.6-3R to reflect the total amounts of each hazardous material that will be used and stored on-site when the project is built to completion and all power blocks are operating.

If you have any questions on this submittal, please feel free to contact me directly.

Sincerely,



Alice Harron  
Senior Director, Development

**BLYTHE SOLAR POWER PROJECT (09-AFC-6)**  
**JUNE 16, 2010 CEC STAFF REBUTTAL**

**Date: July 12, 2010**

**Staff's Rebuttal Testimony Blythe Solar Power Project June 16, 2010**  
**Hazardous Materials Management, Alvin Greenberg, Ph.D.**

**Background:**

Staff has no objection to the clarification or to accepting a revised list of hazardous materials. Staff does, however, object to Table 5.6-3R listing the amounts of hazardous materials by power block instead of the entire site. Staff would very much prefer that the maximum amount of each hazardous material that the applicant wishes to use and store on the entire site be listed. Staff feels that it is misleading to list the amount per power block as the entire site is contiguous, shares the same security perimeter, shares the same command and control systems, share the same fire suppression water loop, and are owned by the same company. As an example of how other regulatory agencies will treat this site, one Risk Management Plan will be required for the entire site (not each power block), one Hazardous Materials Business Plan will be required, and if it were under the jurisdiction of the U.S Department of Homeland Security Chemical Facility Anti-Terrorism Standards (6 CFR Part 27), the storage at the entire site would be considered as being present, not the amount at one power block.

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**Technical Areas: Worker Safety and Hazardous Materials**

**WORKSHOP REQUEST-4**

**Information Required:**

Staff requests that the applicant revise Table 5.6-3R to reflect the total amounts of each hazardous material that will be used and stored on-site when the project is built to completion and all power blocks are operating.

**Response:**

Please see attached TABLE 5.6-3 revised for an updated list of the hazardous materials likely to be used at the Blythe Solar Power Project based on the current understanding of the project design and process requirements. The total quantities identified now reflect the cumulative total to be stored on site considering all four power blocks as Staff has requested.

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**Table 5.6-3R Summary of Special Handling Precautions for Large Quantity Hazardous Materials (Rev.2)**

Hazardous Material and CAS No. <sup>1</sup>	Relative Toxicity <sup>2</sup> and Hazard Class <sup>3</sup>	RQ <sup>4</sup> pounds (kg)	Permissible Exposure Limit (PEL)	Storage Description; Capacity	Storage Practices and Special Handling Precautions
Sulfuric Acid, 29.5% solution CAS No. 7664-93-9	High toxicity; Hazard class – Corrosive, water reactive	1,000 lbs	PEL: 1 milligram per cubic meter (mg/m <sup>3</sup> )	Contained in batteries; 8,000 gal total inventory	Isolated from incompatible chemicals and secondary containment
Carbon Dioxide CAS No. 124-38-9	Low toxicity; Hazard class – Nonflammable gas	Not Applicable	TLV: 5,000 ppm (9,000 mg/m <sup>3</sup> ) TWA	Carbon steel tank; 60 tons maximum onsite inventory	Carbon steel tank with crash posts
Therminol VP-1 Biphenyl (26.5%) CAS No. 92-52-4  Diphenyl ether (73.5%) CAS No. 101-84-8	Moderate toxicity, Hazard class – Irritant; Combustible Liquid (Class III-B)	Biphenyl = 100 lbs (45.4 kg)  Diphenyl ether = Not applicable	Biphenyl = PEL: 0.2 milliliters per cubic meter (ml/m <sup>3</sup> ) (8-hr TWA) TLV: 0.2 ml/m <sup>3</sup> (1 mg/m <sup>3</sup> ) (8-hr TWA)  Diphenyl ether = TLV: 1 ml/m <sup>3</sup> (8-hr TWA) TLV: 2 ml/m <sup>3</sup> (15-min TWA) PEL: 1 ml/m <sup>3</sup> (7 mg/m <sup>3</sup> ) (15-min TWA)	8.8 million gal in system, no additional onsite storage.	Continuous monitoring of pressure in piping network; routine inspections (sight, sound, smell) by operations staff; isolation valves throughout piping network to minimize fluid loss in the event of a leak; prompt clean up and repair

**Table 5.6-3R Summary of Special Handling Precautions for Large Quantity Hazardous Materials (Rev.2)**

<b>Hazardous Material and CAS No.<sup>1</sup></b>	<b>Relative Toxicity<sup>2</sup> and Hazard Class<sup>3</sup></b>	<b>RQ<sup>4</sup> pounds (kg)</b>	<b>Permissible Exposure Limit (PEL)</b>	<b>Storage Description; Capacity</b>	<b>Storage Practices and Special Handling Precautions</b>
Lube Oil CAS No. 64742-65-0	Low toxicity Hazard class – NA	Not applicable	None established	Carbon steel tanks, 40,000 gallons in equipment and piping, additional maintenance inventory of up to 2,200 gallons in 55-gallon steel drums	Secondary containment area for each tank and for maintenance inventory
Mineral Insulating Oil CAS No. 8042-47-5	Low toxicity Hazard class – NA	Not applicable	None established	Carbon steel transformers; total onsite inventory of 144,000 gallons	Used only in transformers, secondary containment for each transformer
Diesel Fuel CAS No. 68476-34-6	Low toxicity; Hazard class – Combustible Liquid	Not applicable	PEL: none established TLV: 100 mg/m <sup>3</sup> (ACGIH)	Carbon steel tank (4,600 gallon [generator & fire water pump engine])	Stored only in fuel tank of emergency engine, secondary containment
Hydrogen	Low toxicity; Hazard class – Flammable gas	Not applicable	None Established	In generator cooling loop and “tube trailer”; piping system inventory 1,400 pounds; plus 2,600 lbs in storage trailer	Pressure safety tank, crash posts, pressure relief valves
Nitrogen CAS No. 7727-37-9	Low toxicity; Hazard class – Non-Flammable Gas	Not applicable	None established	Carbon steel tank; 30,000 lbs total inventory	Carbon steel tank with crash posts
Hydraulic fluid CAS No. 64741-89-5	Low to moderate toxicity; Hazard class – Class IIIB Combustible Liquid	Not applicable	TWA (oil mist): 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	Carbon steel tanks and sumps; 2000 gallons in equipment, maintenance inventory of 440 gallons in 55-gallon steel drums	Found only in equipment with a small maintenance inventory; maintenance inventory stored within secondary containment

**Table 5.6-3R Summary of Special Handling Precautions for Large Quantity Hazardous Materials (Rev.2)**

Hazardous Material and CAS No. <sup>1</sup>	Relative Toxicity <sup>2</sup> and Hazard Class <sup>3</sup>	RQ <sup>4</sup> pounds (kg)	Permissible Exposure Limit (PEL)	Storage Description; Capacity	Storage Practices and Special Handling Precautions
Welding gas Acetylene  CAS No. 74-86-2	Moderate toxicity; Hazard class – Toxic	10,000 lbs	PEL: none established	Steel cylinders; 200 cubic feet each, 3200 cubic feet total on site	Inventory management, isolated from incompatible chemicals
Welding gas Oxygen  CAS No. 7782-44-7	Low toxicity; Hazard class – Oxidizer	Not applicable	PEL: none established	Steel cylinders; 200 cubic feet each, 3200 cubic feet total on site	Inventory management, isolated from incompatible chemicals
Welding gas Argon  CAS No. 7440-37-1	Low toxicity; Hazard class – Non-flammable Gas	Not applicable	PEL: none established	Steel cylinders; 200 cubic feet each, 3200 cubic feet total on site	Inventory management
Activated Carbon  CAS No. 7440-44-0	Non-toxic (when unsaturated), low to moderate toxicity when saturated, depending on the adsorbed material; Hazard class – combustible solid	Not Applicable	TWA (total particulate): 15 mg/m <sup>3</sup> TWA (respirable fraction): 5 mg/m <sup>3</sup> TLV (graphite, all forms except graphite fibers): 2 mg/m <sup>3</sup> TWA	Used in eight x 2,000-lb canisters, 16,000 lbs total inventory, no additional storage	No excess inventory stored on site, prompt disposal when spent
Calcium Hypochlorite 100%  CAS No. 7778-54-3	Moderate toxicity; Hazard Class – Corrosive, Irritant	10 lbs	PEL: none established Acute oral toxicity (LD50): 850 mg/kg [Rat].	Minimal onsite storage for water treatment, not expected to exceed 200 lbs	Inventory management, isolated from incompatible chemicals

**Table 5.6-3R Summary of Special Handling Precautions for Large Quantity Hazardous Materials (Rev.2)**

<b>Hazardous Material and CAS No.<sup>1</sup></b>	<b>Relative Toxicity<sup>2</sup> and Hazard Class<sup>3</sup></b>	<b>RQ<sup>4</sup> pounds (kg)</b>	<b>Permissible Exposure Limit (PEL)</b>	<b>Storage Description; Capacity</b>	<b>Storage Practices and Special Handling Precautions</b>
Water treatment chemical Sodium Carbonate (soda ash)	Low toxicity; Hazard class – Irritant	Not Applicable	TBD	40 tons	Stored in steel silos. Inventory management, isolated from incompatible chemicals
Water treatment chemical Lime (calcium oxide)	Moderate toxicity; Hazard class - Irritant	Not Applicable	TBD	40 tons	Stored in steel silos. Inventory management, isolated from incompatible chemicals
Water treatment chemical Magnesium Chloride	Non-toxic; Hazard class – NA	Not Applicable	TBD	2000 gallons	Inventory management
Water treatment chemical Sodium Bisulfate (aka sodium hydrogen sulfate)	Low toxicity; Hazard class – Irritant	Not Applicable	Sodium bisulfite = PEL: none established; TLV: 5 mg/m <sup>3</sup> TWA	2000 gallons	Inventory management, isolated from incompatible chemicals
Boiler water treatment chemical Ferric Sulfate (35% solution) CAS Number 10028-22-5	Moderate toxicity; Hazard class - Irritant	1,000 lbs	TBD	40,000 gallons	Inventory management, isolated from incompatible chemicals and secondary containment

Table 5.6-3R Summary of Special Handling Precautions for Large Quantity Hazardous Materials (Rev.2)

Hazardous Material and CAS No. <sup>1</sup>	Relative Toxicity <sup>2</sup> and Hazard Class <sup>3</sup>	RQ <sup>4</sup> pounds (kg)	Permissible Exposure Limit (PEL)	Storage Description; Capacity	Storage Practices and Special Handling Precautions
Water treatment chemical NALCO Tri-Act 1800 <i>or equivalent</i> Cyclohexylamine (5 – 10%) Monoethanolamine (10 – 30%) Methoxypropylamine (10 – 30%)	High toxicity; Hazard class – Corrosive, Class II Combustible liquid	Not Applicable	Cyclohexylamine = TLV: 10 ppm (41 mg/m <sup>3</sup> ) Monoethanolamine = TLV: 3 ppm (7.5 mg/m <sup>3</sup> ) TWA: 3 ppm (7.5 mg/m <sup>3</sup> ) STEL: 6 ppm (15 mg/m <sup>3</sup> ) Methoxypropylamine = TLV: 5 ppm TWA STEL: 15 ppm	Plastic totes, 8 x 400 gallons	Inventory management, isolated from incompatible chemicals and secondary containment
Water treatment chemical NALCO Eliminox Carbohydazide (5 - 10%) <i>or equivalent</i>	Moderate toxicity; Hazard class – Sensitizer	Not Applicable	Carbohydazide = PEL: none established	Plastic totes, 8 x 400 gallons	Inventory management, isolated from incompatible chemicals and secondary containment
Water treatment chemical NALCO 3D Trasar 3DT185 Phosphoric Acid (60 -100%) <i>or equivalent</i>	High toxicity; Hazard class – Corrosive	Not Applicable	Phosphoric acid = PEL: 1 mg/m <sup>3</sup> (TWA) TLV: 1 mg/m <sup>3</sup> (TWA), STEL: 3 mg/m <sup>3</sup>	Plastic totes, 8 x 400 gallons	Inventory management, isolated from incompatible chemicals and secondary containment

**Table 5.6-3R Summary of Special Handling Precautions for Large Quantity Hazardous Materials (Rev.2)**

<b>Hazardous Material and CAS No.<sup>1</sup></b>	<b>Relative Toxicity<sup>2</sup> and Hazard Class<sup>3</sup></b>	<b>RQ<sup>4</sup> pounds (kg)</b>	<b>Permissible Exposure Limit (PEL)</b>	<b>Storage Description; Capacity</b>	<b>Storage Practices and Special Handling Precautions</b>
Water treatment chemical NALCO 3D Trasar 3DT177 <i>or equivalent</i> Phosphoric acid (30%)	Moderate toxicity; Hazard class – Irritant	Not Applicable	Phosphoric acid = PEL: 1 mg/m <sup>3</sup> (TWA) TLV: 1 mg/m <sup>3</sup> (TWA), STEL: 3 mg/m <sup>3</sup>	Plastic totes, 8 x 400 gallons	Inventory management, isolated from incompatible chemicals and secondary containment
Water treatment chemical NALCO 3D Trasar 3DT190 <i>or equivalent</i>	Low toxicity; Hazard class – Irritant	Not Applicable	None established for mixture	Plastic totes, 8 x 400 gallons	Inventory management, isolated from incompatible chemicals and secondary containment
Water treatment chemical NALCO Acti-Brom (R) 7342 <i>or equivalent</i> Sodium bromide	Low toxicity; Hazard class – Irritant	Not Applicable	Sodium bromide = PEL: none established	Plastic totes, 8 x 400 gallons	Inventory management, isolated from incompatible chemicals and secondary containment
Water treatment chemical NALCO pHFreedom® 5200M <i>or equivalent</i> Sodium salt of phosphonomethylated diamine	Low to moderate toxicity; Hazard class – Irritant	Not Applicable	Sodium salt of phosphonomethylated diamine = PEL: none established	Plastic totes, 8 x 400 gallons	Inventory management, isolated from incompatible chemicals and secondary containment
Water treatment chemical NALCO PCL-1346	Low toxicity; Hazard class – Irritant	Not Applicable	None established for mixture	Plastic totes, 8 x 400 gallons	Inventory management, isolated from incompatible chemicals and secondary containment



Table 5.6-3R Summary of Special Handling Precautions for Large Quantity Hazardous Materials (Rev.2)

Hazardous Material and CAS No. <sup>1</sup>	Relative Toxicity <sup>2</sup> and Hazard Class <sup>3</sup>	RQ <sup>4</sup> pounds (kg)	Permissible Exposure Limit (PEL)	Storage Description; Capacity	Storage Practices and Special Handling Precautions
Water treatment chemical NALCO Permacare (R) PC-7408 Sodium bisulfite	Low toxicity; Hazard class – Irritant	Not Applicable	Sodium bisulfite = PEL: none established; TLV: 5 mg/m <sup>3</sup> TWA	Plastic totes, 8 x 400 gallons	Inventory management, isolated from incompatible chemicals and secondary containment
Water treatment chemical NALCO BT-3000 or equivalent Sodium hydroxide Sodium tripolyphosphate	High toxicity; Hazard class – Corrosive	Not Applicable	Sodium hydroxide = PEL: 2 mg/m <sup>3</sup> Sodium tripolyphosphate = PEL: none established	Plastic totes, 8 x 400 gallons	Inventory management, isolated from incompatible chemicals and secondary containment
Boiler water treatment chemical, pH adjustment Sodium Hydroxide (50%) CAS Number 1310-73-2	High toxicity; Hazard class – Corrosive	1,000 lbs	Sodium hydroxide = PEL: 2 mg/m <sup>3</sup>	40,000 gallons	Inventory management, isolated from incompatible chemicals and secondary containment
Water treatment chemical NALCO 8338 or equivalent Sodium nitrite Sodium tolytriazole Sodium hydroxide	Moderate toxicity; Hazard class – Toxic	Not Applicable	Sodium nitrite = PEL: none established Sodium tolytriazole = PEL: none established Sodium hydroxide = PEL: 2 mg/m <sup>3</sup>	Plastic totes, 8 x 400 gallons	Inventory management, isolated from incompatible chemicals and secondary containment

**Table 5.6-3R Summary of Special Handling Precautions for Large Quantity Hazardous Materials (Rev.2)**

Hazardous Material and CAS No. <sup>1</sup>	Relative Toxicity <sup>2</sup> and Hazard Class <sup>3</sup>	RQ <sup>4</sup> pounds (kg)	Permissible Exposure Limit (PEL)	Storage Description; Capacity	Storage Practices and Special Handling Precautions
Water treatment chemical 93%-98% sulfuric acid CAS No. 7664-93-9	High toxicity; Hazard class – Corrosive, water reactive	1,000 lbs	PEL: 1 mg/m <sup>3</sup>	4,000 gallons	Inventory management, isolated from incompatible chemicals and secondary containment
Water treatment chemical Sodium Hypochlorite (13% solution) CAS No. 7689-52-9	High toxicity; Hazard class – Poison-B, Corrosive	100 lbs	Workplace Environmental Exposure Limit (WEEL) - STEL: 2 mg/m <sup>3</sup> PEL: 0.5 ppm (TWA), STEL: 1 ppm as Chlorine TLV: 1 ppm (TWA), STEL: 3 ppm as Chlorine	4,000 gallons	Inventory management, isolated from incompatible chemicals
Oxygen Scavenger Reagent Acetic Acid 60% CAS No. 64-19-7 Iodine 20% CAS No. 7553-56-2 De-ionized water 20% CAS No. 7732-18-5	Moderate toxicity; Hazard Class – Corrosive, Irritant	5,000 lbs	PEL: 10 ppm TWA PEL: 0.1 ppm N/A	Minimal onsite storage for water treatment, not expected to exceed 200 lbs	Inventory management, isolated from incompatible chemicals

**Table 5.6-3R Summary of Special Handling Precautions for Large Quantity Hazardous Materials (Rev.2)**

Hazardous Material and CAS No. <sup>1</sup>	Relative Toxicity <sup>2</sup> and Hazard Class <sup>3</sup>	RQ <sup>4</sup> pounds (kg)	Permissible Exposure Limit (PEL)	Storage Description; Capacity	Storage Practices and Special Handling Precautions
Boiler water treatment oxygen scavenger Carbohydrazide CAS No. 497-18-7	High toxicity; Hazard class – Irritant	Not applicable	Carbohydrazide = PEL: none established	2,400 gallons	Inventory management, isolated from incompatible chemicals
Herbicide Roundup® or equivalent CAS No. 38641-94-0	Low toxicity; Hazard class – Irritant	Not applicable	Isopropylamine salt of glyphosphate = no specific occupational exposure has been established	No onsite storage, brought on site by licensed contractor, used immediately	No excess inventory stored on site
Soil stabilizer Active ingredient: acrylic or vinyl acetate polymer or equivalent CAS No. Active ingredient is 'Not Hazardous'	Non-toxic; Hazard class – NA	Not applicable	None established	No onsite storage, supplied in 55-gallon drums or 400-gallon totes, used immediately	No excess inventory stored on site

<sup>1</sup> CAS No. – Chemical Abstracts Service registry number. This number is unique for each chemical.

<sup>2</sup> Low toxicity is used to describe materials with an NFPA Health rating of 0 or 1. Moderate toxicity is used describe materials with an NFPA rating of 2. High toxicity is used to describe materials with an NFPA rating of 3. Extreme toxicity is used to describe materials with an NFPA rating of 4.

<sup>3</sup> NA denotes materials that do not meet the criteria for any hazard class defined in the 1997 Uniform Fire Code.

<sup>4</sup> RQ - Reportable Quantity for hazardous substance as designated under section 102(a) defined under CERCLA. (To note: As previously discussed in the text, Table 5.6-3 includes those chemicals stored or used in excess of 55 gallons for liquids, 500 pounds for solids, and 200 cubic feet for compressed gases. These quantities coincide with the thresholds for reporting under California's HMBP requirements).

**STATE OF CALIFORNIA  
ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION**

***In the Matter of:***  
**APPLICATION FOR CERTIFICATION**  
**for the *BLYTHE SOLAR POWER PROJECT***

**Docket No. 09-AFC-6**  
**PROOF OF SERVICE**  
*(Revised 3/03/2010)*

**APPLICANT**

Alice Harron  
Senior Director of Project  
Development  
1625 Shattuck Avenue, Suite 270  
Berkeley, CA 94709-1161  
[harron@solar Millennium.com](mailto:harron@solar Millennium.com)

Elizabeth Ingram  
Developer, Solar Millennium LLC  
1625 Shattuck Avenue, Suite 270  
Berkeley, CA 94709  
[ingram@solar Millennium.com](mailto:ingram@solar Millennium.com)

**APPLICANT'S CONSULTANT**

Carl Lindner  
AECOM Project Manager  
1220 Avenida Acaso  
Camarillo, CA 93012  
[carl.lindner@aecom.com](mailto:carl.lindner@aecom.com)

Ram Ambatipudi  
Chevron Energy Solutions  
150 E. Colorado Blvd., Ste 360  
Pasadena, CA 91105  
[rambatipudi@chevron.com](mailto:rambatipudi@chevron.com)

**CO-COUNSEL FOR APPLICANT**

Scott Galati, Esq.  
Galati/Blek, LLP  
455 Capitol Mall, Suite 350  
Sacramento, CA 95814  
[sgalati@qb-llp.com](mailto:sgalati@qb-llp.com)

Peter Weiner  
Matthew Sanders  
Paul, Hastings, Janofsky & Walker LLP  
55 2nd Street, Suite 2400-3441  
San Francisco, CA 94105  
[peterweiner@paulhastings.com](mailto:peterweiner@paulhastings.com)  
[matthewsanders@paulhastings.com](mailto:matthewsanders@paulhastings.com)

**INTERESTED AGENCIES**

Holly L. Roberts, Project Manager  
Bureau of Land Management  
Palm Springs-South Coast Field Office  
1201 Bird Center Drive Palm Springs,  
CA 92262  
[CAPSSolarPalen@blm.gov](mailto:CAPSSolarPalen@blm.gov)

California ISO  
[e-recipient@caiso.com](mailto:e-recipient@caiso.com)

**INTERVENORS**

California Unions for Reliable Energy  
(CURE)  
Tanya A. Gulesserian,  
Marc D. Joseph  
Adams Broadwell Joseph & Cardozo  
601 Gateway Boulevard, Suite 1000  
South San Francisco, CA 94080  
[tgulesserian@adamsbroadwell.com](mailto:tgulesserian@adamsbroadwell.com)

**ENERGY COMMISSION**

Karen Douglas  
Chair and Presiding Member  
[kldougla@energy.state.ca.us](mailto:kldougla@energy.state.ca.us)

Robert Weisenmiller  
Commissioner and Associate  
Member  
[rweisenm@energy.state.ca.us](mailto:rweisenm@energy.state.ca.us)

Raoul Renaud  
Hearing Officer  
[rrenaud@energy.state.ca.us](mailto:rrenaud@energy.state.ca.us)

Alan Solomon  
Project Manager  
[asolomon@energy.state.ca.us](mailto:asolomon@energy.state.ca.us)

Lisa DeCarlo  
Staff Counsel  
[ldecarlo@energy.state.ca.us](mailto:ldecarlo@energy.state.ca.us)

Jennifer Jennings  
Public Adviser's Office  
[publicadviser@energy.state.ca.us](mailto:publicadviser@energy.state.ca.us)

**DECLARATION OF SERVICE**

I, Carl Lindner, declare that on, July 12, 2010, I served and filed copies of the attached Blythe Solar Power Project Materials:

Response to Staff's Rebuttal Testimony Blythe Solar Power Project  
June 16, 2010 Hazardous Materials Management  
Technical Areas: Worker Safety/Hazardous Materials (Revised HazMat Table 5.6-3R)

The original document, filed with the Docket Unit, is accompanied by a copy of the most recent Proof of Service list, located on the web page for this project at:

[\[http://www.energy.ca.gov/sitingcases/solar\\_millennium\\_blythe\]](http://www.energy.ca.gov/sitingcases/solar_millennium_blythe).

The document has been sent to the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission's Docket Unit, in the following manner:

**(Check all that Apply)**

**For service to all other parties:**

sent electronically to all email addresses on the Proof of Service list;

by personal delivery or by overnight delivery service or depositing in the United States mail at Camarillo, California with postage or fees thereon fully prepaid and addressed as provided on the Proof of Service list above to those addresses **NOT** marked "email preferred."

**AND**

**For filing with the Energy Commission:**

sending an original paper copy and one electronic copy, mailed and emailed respectively, to the address below (preferred method);

**OR**

depositing in the mail an original and 12 paper copies, along with 13 CDs, as follows:

**CALIFORNIA ENERGY COMMISSION**

Attn: Docket No. 09-AFC-6  
1516 Ninth Street, MS-4  
Sacramento, CA 95814-5512

[docket@energy.state.ca.us](mailto:docket@energy.state.ca.us)

I declare under penalty of perjury that the foregoing is true and correct.

  

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