



Eastern Kern

Air Pollution Control District

Gary Ray, Jr.
Air Pollution Control Officer

The Eastern Kern Air Pollution Control District (District) has determined Commercial Solar Power Generation Facilities (Commercial Solar) produce anthropogenic fugitive dust emissions (PM₁₀) caused by land clearing, scrapping, grading, and on-site travel of high-wind regions of the District.

Fugitive Dust Emission Control Plan

All Solar Facilities ten (10) acres and larger must submit an approvable Fugitive Dust Emission Control Plan pursuant to District Rule 402 (Fugitive Dust), Section V.D.

District Permit to Operate

Commencing March 12, 2015, **all** Commercial Solar Facilities ten (10) acres and larger must apply for, and obtain a District issued Authority to Construct (ATC)/Permit to Operate (PTO).

Fugitive Dust Emission Monitoring Plan

Due to frequent high-wind/dust events, **all** Commercial Solar Facilities must submit an air monitoring plan to the District. The District recommends each Facility install and operate at least two (2) on-site PM₁₀ air monitors. Facility benefits associated with use of PM₁₀ air monitors are as follows:

1. PM₁₀ monitoring data scientifically shows effectiveness of dust mitigation measures.
2. PM₁₀ monitoring data can be used to show compliance even during high wind events. As long as PM₁₀ concentration difference between upwind and downwind monitors is 50- $\mu\text{g}/\text{m}^3$ (micrograms per cubic meter) or less, the District will not issue a Notice of Violation (NOV).
3. Fugitive dust air monitors are required. Please complete and submit a copy of the District's Fugitive Dust Emission Monitoring Plan (Form REP-12) included in this package.

CHECKLIST FOR COMPLETE APPLICATION PACKAGE

A complete Commercial Solar Power Generation Facility Application Package Includes:

- Fugitive Dust Emission Control Plan
- ATC/PTO Application for Solar Plant (including acreage and wattage)
- Fugitive Dust Emission Monitoring Plan
- CEQA Environmental Evaluation or EIR reference number



EASTERN KERN AIR POLLUTION CONTROL DISTRICT

2700 "M" STREET SUITE 302, BAKERSFIELD, CA 93301-2370

PHONE: (661) 862-5250 • FAX: (661) 862-5251 • www.kernair.org

FUGITIVE DUST EMISSION CONTROL PLAN

Qualifying Criteria (Complete All That Apply)

An owner/operator of a Large Operation is required to submit a Fugitive Dust Emission Control Plan to the APCO prior to the start of any Large Operation as defined in Rule 402 (Fugitive Dust), or if a plan is required by a CEQA document, eg Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report.

Project commencement shall not begin until APCO has approved or conditionally approved the Plan.

\$130 Filing/Review fee is required upon submission of all Fugitive Dust Control Plans.

A Plan is Required for: Any construction activity on any site involving 10 or more contiguous acres of disturbed surface area, or any earthmoving activity exceeding a daily volume of 10,000 cubic yards, or relocating more than 2,500 cubic yards per day of bulk materials at least three days per year.

Project Type

Solar Plant Cement Plant Mining Operation Construction Other _____

Project Name and Location

Project Name: _____

Project Address: _____

City: _____

Section: _____ Township: _____ Range: _____

Expected Start Date: _____ End Date: _____

Project Description

DATE

Validation (for EKAPCD)

Filing Fee: \$ _____

Receipt No: _____

Date: _____

**EASTERN KERN AIR POLLUTION CONTROL DISTRICT
FUGITIVE DUST CONTROL PLAN (Rule 402)**

Contacts

List all persons responsible for the preparation, submission, and implementation of plan. Complete all applicable

Who will have the primary responsibility for implementing this Dust Control Plan?

Primary Contact Name: _____

Title: _____

Company Name: _____

Address: _____

City: _____

State: _____

Zip: _____

Phone: _____

Email Address: _____

Secondary Contact Name: _____

Title: _____

Company Name: _____

Address: _____

City: _____

State: _____

Zip: _____

Phone: _____

Email Address: _____

This Fugitive Dust Control Plan was prepared by:

Name: _____

Title: _____

Company Name: _____

Address: _____

City: _____

State: _____

Zip: _____

Phone: _____

Email Address: _____

**EASTERN KERN AIR POLLUTION CONTROL DISTRICT
FUGITIVE DUST CONTROL PLAN (Rule 402)**

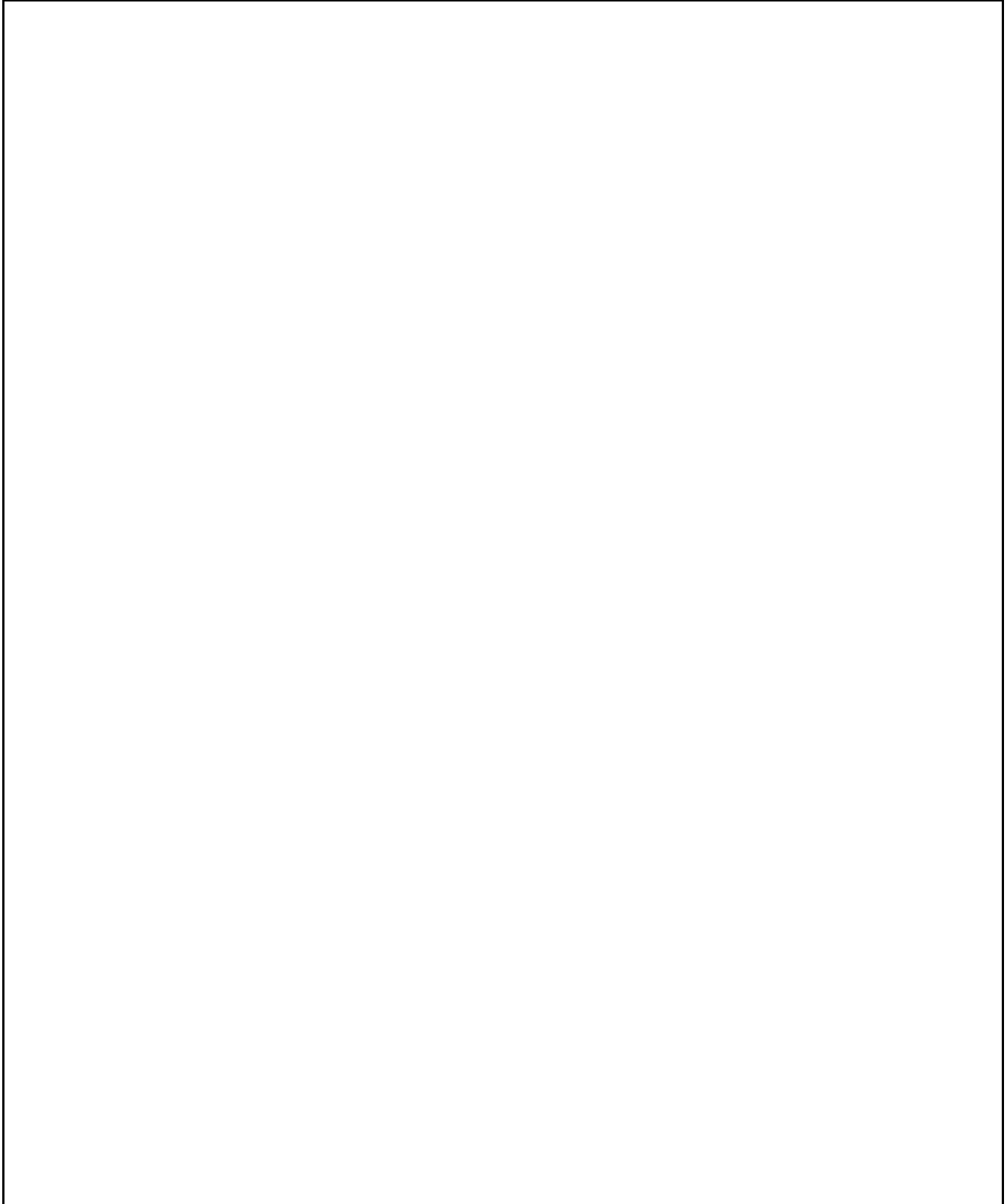
Sources of Fugitive Dust and Reasonably Available Control Measures (RACM). You may attach your plan as a separate document.		
ATC No. (if applicable)	Description and Location of Fugitive Dust Source	List RACM for each Source

Please include additional pages, as needed, and example of "If You See Blowing Dust" sign.

**EASTERN KERN AIR POLLUTION CONTROL DISTRICT
FUGITIVE DUST CONTROL PLAN (Rule 402)**

Draw or Attach Plot Plan

Plot plan is attached separately.



**GCUVGTP 'KERN AIR POLLUTION CONTROL DISTRICT
I ARY RAY, JR. APCO**



**APPLICATION FOR AUTHORITY TO CONSTRUCT
AND PERMIT TO OPERATE**

INSTRUCTIONS

1. Checks or money orders shall be made payable to Gcuvgtp'Kern Air Pollution Control District. Filing fees apply toward initial Permit to Operate fee. Payment of initial permit fee, and application processing fee is required for issuance of an Authority to Construct (Rules 301 and 303).
 - a. A filing fee of \$130 paid by check or money order is required for each application. If the project is installation of gasoline storage tanks, a filing fee is required for each tank.
 - b. In the case of a Transfer of Ownership of a PTO where no alteration, addition or change of location is to occur, the filing fee is \$70 per permit. Documentation showing the transfer of ownership should also be provided; for example, escrow papers or a letter from the previous owner outlining the sale.
 - c. The ownership of an ATC is not transferable.
 - d. A transfer of location requires an ATC unless the original ATC or the current PTO has multiple locations.
2. A separate application is required for each distinct process consisting of the aggregation of equipment items operating together to perform a given function and having the potential to cause the emission of an air contaminant. Such a process may consist of one individual piece of equipment or several equipment items, including air pollution control devices, if any. Any given facility may require more than one Authority to Construct and Permit to Operate.
3. With each application for Authority to Construct and Permit to Operate, the following data, specifications, plans and drawings must be submitted:
 - a. **Equipment Location Drawing or Plot Plan** — Drawing or sketch submitted should show:
 1. Property involved and outlines of all buildings and structures on it. Property lines. Quarter Section, Township and Range.

2. Location and identification of proposed equipment on property.
 3. Whether property involved is within 1,000 feet of a school property boundary. If so, identify nearest school by name and address.
 4. Location of property with respect to streets and all adjacent properties. Identification of adjacent properties. If in a business district or residential area, show all buildings outside property, but within ¼ mile of property line. Identify all such buildings (residence, apartment building, warehouse, retail store, etc.). Indicate direction north on the drawing.
- b. **Equipment Description** — State: make, model, size, type, and serial number of entire unit or its major parts. List all electric motors (and electric horsepower rating) associated with all equipment.
 - c. **Process Description** — Each application must include a written description of each operation to be carried out in each process. Descriptions must be complete and in detail for all operations. Particular attention must be given to parts of process which may result in the emission of air contaminants. Similarly, operation of air pollution control equipment must be described in sufficient detail to allow the District to determine if it can be expected to consistently operate at required control efficiencies.
 - d. **Expected Emission of Air Contaminants** — Submit with each application calculated estimates of the emission of all air contaminants (criteria and toxic) from proposed equipment, including reference to source(s) of emission factors. Include test data (reference source) to support calculations. Well-documented, well-organized emissions calculations can expedite processing of applications. Failure to submit emissions calculations and supporting test data can significantly increase processing time.
 - e. **Operating Schedule** — Specify hours per day, days per week and months per year equipment is to be operated.
 - f. **Process Weight** — Detail type and total weight of each material charged to each operation on basis of pounds per hour or per other specified unit of time. Your Authority to Construct and Permit to Operate will be conditioned to limit process weight to specified amount.
 - g. **Fuels and Burners Used** — Indicate for gaseous fuel: source, type, heating value, sulfur content (total and as H₂S), and maximum consumption (cubic feet per hour); for fuel oil: source, type, heating value, API gravity (degrees), sulfur content, nitrogen content, preheat temperature, temperature at which SSU viscosity is 150, type of atomization (steam, air or mechanical), amount (%) of excess combustion air to be utilized, and maximum consumption (gallons per hour); for solid fuels: type, heating value, sulfur content, ash content, and maximum consumption (pounds per hour). For all burners, indicate make, model, size, type, number of burners and maximum capacity of each burner.

- h. **Process and Instrumentation Diagram** — For continuous processes, show flow of materials and location and type of all instrumentation, including any stack gas monitors. Show all pertinent temperatures, pressures, volume flow rates and mass flow rates.
 - i. **Equipment Drawings** — Supply drawings, dimensioned and to scale, in plan, elevations and as many sections as are needed to show clearly design and operation of air pollution control devices. Drawings of basic equipment must be included if they are necessary for sizing and understanding operation of air pollution control equipment or if such equipment has potential air contaminant emission points. The following must be shown:
 - 1. **SCRUBBERS** — Interior dimensions of all parts; location and number of spray nozzles, if any; flow characteristics of nozzles (gpm @ psi); pump performance curves; mist eliminator performance data; scrubber liquid chemical analysis; and “blow-down” rate.
 - 2. **FABRIC COLLECTORS** — Dimensions of housing and compartments; number and size of filter tubes; filter media specifications (permeability, weave type, thread count, weight, etc.); cleaning mechanism specifications (air volume and pressure, reverse air flow valve arrangements, etc.); and fan performance curves.
 - 3. **INCINERATORS** — Dimensions of all components; refractory specifications; number, size, and model number for each burner; burner fuel specifications, including type, heating value, sulfur content, and maximum consumption; waste material specifications, including type, heating value, sulfur content, ash content, and maximum consumption; engineering design calculations showing expected gas residence time and combustion temperature.
 - 4. **ALL AIR POLLUTANT CONTROL EQUIPMENT** — Locations, size and shape details of all features that may affect collection or control of air contaminants of any kind.
 - j. All data and calculations used in selecting or designing any equipment that may cause emission of an air contaminant.
4. A completed environmental information form and initial study evaluation. The California Environmental Quality Act (CEQA) requires this form.



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APPLICATION FOR AUTHORITY TO CONSTRUCT, PERMIT TO OPERATE, EXEMPTION, AND BANKING CERTIFICATE

Company/Billing Information

Business Name to Appear on Permit:		Owner's Name:	Phone No:
Mailing Address:		Business E-mail Address:	
City:	State:	Zip:	Fax No:

Equipment Location

Street Address:	City:	Zip:
General Nature of Business:		S.I.C. CODE(S) <i>If Known</i> :
Assessors' Parcel No: _____ OR _____ /4 SECTION _____ TOWNSHIP _____ RANGE _____		

Application Type

See ATC/PTO Instructions for appropriate filing fee

<input type="checkbox"/> Authority To Construct (ATC)	<input type="checkbox"/> Permit To Operate (PTO)	<input type="checkbox"/> Change of Business Name
<input type="checkbox"/> ATC – Modification	<input type="checkbox"/> PTO – Modification	<input type="checkbox"/> Exemption
<input type="checkbox"/> ATC – Renewal	<input type="checkbox"/> PTO – Transfer of Ownership	<input type="checkbox"/> Exemption Renewal
<input type="checkbox"/> Transfer of Location	<input type="checkbox"/> Title V Initial/Renewal/Modification	<input type="checkbox"/> Banking Certificate

Description of Equipment or Modification for which application is made (include Permit #'s if known)

<p>_____</p> <p>_____</p> <p>_____</p>	<p>Use Additional Sheets if Necessary</p>
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Check all that apply

Is this Facility within 1,000 feet of the outer boundary of a school? <input type="checkbox"/> YES <input type="checkbox"/> NO
Have all necessary land-use authorizations been obtained? <input type="checkbox"/> YES <input type="checkbox"/> NO (If "NO" attach explanation)
Is there any other equipment in the EKAPCD jurisdiction operated by the same operator? <input type="checkbox"/> YES <input type="checkbox"/> NO
Is this application being submitted as the result of a Notice of Violation or Notice to Comply? <input type="checkbox"/> YES <input type="checkbox"/> NO
If YES, NOV/NTC #: _____
Is this equipment portable AND will it be operated at different locations within EKAPCD jurisdiction? <input type="checkbox"/> YES <input type="checkbox"/> NO

Print Contact Name: _____ Consultant? YES NO If YES, please attach Assignment of Agent

Title: _____ Phone: _____ E-Mail Address: _____

Print Signing Authority Name If Different: _____ Title: _____

Signature: _____ Date: _____

DATE RECEIVED	Validation (for EKAPCD use)
	ATC No: _____ Filing Fee: \$ _____
	Equip Dscrpt: _____ Receipt No: _____
	Equip Code: _____ Date: _____



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**ENVIRONMENTAL INFORMATION FORM AND
INITIAL STUDY EVALUATION**

Applicant: _____

Contact: _____

Title: _____ **Phone:** _____

Project Description: _____

Environmental Information

Yes No Maybe

Will the proposed project with regard to the proposed location:

- | | | | |
|--|--------------------------|--------------------------|--------------------------|
| 1. Conflict with the adopted environmental plans and goals of the community? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Have a substantial, demonstrable negative aesthetic effect? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Substantially affect a rare or endangered species of animal or plant or the habitat of the species? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Interfere substantially with the movement of any resident or migratory fish or wildlife species? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Substantially diminish habitat for fish, wildlife or plants? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Breach published national, state, or local standards relating to solid waste or litter control? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Substantially degrade water quality or contaminate a public water supply? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Substantially degrade or deplete ground water resources or interfere substantially with ground water recharge? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Disrupt or adversely affect a prehistoric or historic archeological site or a property of historic or cultural significance to a community or ethnic or social group; or a paleontological site except as part of scientific study? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Induce substantial growth or concentration of population? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Cause an increase in traffic which is substantial in relation to the existing traffic load and capacity of the street system? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. Displace a substantial number of people? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Environmental Information

Yes **No** **Maybe**

- | | | | |
|--|--------------------------|--------------------------|--------------------------|
| 13. Encourage activities which result in the use of large amounts of fuel, water or energy? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14. Use fuel, water or energy inefficiently? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 15. Increase substantially the ambient noise level for adjoining areas? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 16. Cause substantial flooding, erosion or siltation? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 17. Expose people or structures to major geologic hazards? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 18. Extend a sewer trunk line with capacity to serve new development? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 19. Disrupt or divide the physical arrangement of an established community? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 20. Create a potential public health hazard or involve the use, production, or disposal of materials which pose a hazard to people or animal or plant populations in the area affected? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 21. Conflict with established recreational, educational, religious or scientific uses? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 22. Convert prime agricultural land to non-agricultural use or impair the agricultural productivity of prime agricultural land? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 23. Interfere with emergency response or evacuation plans? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 24. Violate any ambient air quality standard, contribute substantially to an existing or projected air quality violation, or expose sensitive receptors to substantial pollutant concentrations? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 25. Emits Greenhouse Gas (GHG) emissions greater than 25,000 tons? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

NOTE: Please attach any pertinent explanatory information.

CERTIFICATION:

I hereby certify the statement furnished above and in attached exhibits present the data and information required for this initial evaluation to the best of my ability, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief.

Print Signing Authority Name If Different: _____

Signature: _____ **Date:** _____



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**APPLICATION FOR
 COMMERCIAL SOLAR POWER GENERATION FACILITY
 AUTHORITY TO CONSTRUCT AND PERMIT TO OPERATE**

A \$130 filing fee paid by check or money order is required for each application.

Facility Information

Business Name to Appear on Permit:		Site Operator:	Site Phone No:
Site Location/Address:		District Permit No:	FAX:
City:	Zip:	Business E-mail Address:	
Assessors' Parcel No: _____ OR _____ /4 SECTION _____ TOWNSHIP _____ RANGE _____			
Air Monitoring Plan Included: Yes No		Total Acreage: _____	Total Megawatts: _____

Billing Information (Notify District as soon as possible if billing information changes)

Business Site:		Billing Contact:	Billing Phone No:
Billing Address:			FAX:
City:	State:	Zip:	

Complete this Section if application is being submitted by Contractor/Consultant

Contractor/Consulting Company:		Contact:	Contact Phone No:
Contractor/Consulting Address:		Contractor/Consulting E-mail Address:	
City:	State:	Zip:	FAX:

Reason for Application (Check all that apply)

New Facility
 Modifying Existing Facility
 Other
 Violation (List Number): _____
 Briefly describe project: _____

Where should Authority to Construct be mailed?
 Facility Address
 Billing Address
 Contractor/Consultant Address

Print Contact Name: _____ Consultant? YES NO If YES, please attach Assignment of Agent
 Title: _____ Phone: _____ E-Mail Address: _____
 Print Signing Authority Name If Different: _____ Title: _____
 Signature: _____ Date: _____

DATE RECEIVED	Validation (for EKAPCD use)
	Filing Fee: \$ _____
	Receipt No: _____
	Date: _____



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FUGITIVE DUST EMISSION MONITORING PLAN

Complete this form for fugitive dust emission monitoring strategy. Each plan that utilizes PM₁₀ air monitoring equipment, shall include at least two (2) PM₁₀ air monitors, one placed upwind and one place downwind, on adjacent corners of the project site, as close to property line as feasible, and in such a way that other sources of fugitive dust between the air monitors and property line is minimized.

Facility Information

Project/Facility Name: _____

Project Address: _____

City: _____ Section: _____ Township: _____ Range: _____

Contact Name: _____ Phone #: _____

Contact Email: _____

Type of Monitoring Strategy: PM₁₀ Air Monitors Alternative Air Monitoring Strategy

PM₁₀ Air Monitor Information

Number of On-Site PM₁₀ Air Monitors: _____

At least one air monitor must be equipped with meteorological instrumentation (including: wind speed, wind direction and wind temperature).

Make: _____ Model: _____

Monitor Type: _____

Attach or sketch plot plan with PM₁₀ monitor locations. Include additional sheet(s) if needed.

Alternative Air Monitoring Strategy

Alternative air monitoring plan may include daily-hourly visible opacity readings from a US EPA Reference Method 9 certified visible emission evaluator (VEE). Records of VEE readings must be kept and maintained on-site and made available to APCO upon request.

Please describe alternative air monitoring plan: _____

Include additional sheet(s) if needed.

**EASTERN KERN AIR POLLUTION CONTROL DISTRICT
FUGITIVE DUST AIR MONITORING PLOT PLAN**

Draw or Attach Plot Plan that includes PM₁₀ air monitor locations

