

# Sacramento Municipal Utility District

## Comments on the Cosumnes Power Plant Preliminary Staff Assessment, Set 2

Listed below, for CEC staff's consideration, are Set 2 of SMUD'S comments on the Preliminary Staff Assessment (PSA) for the Cosumnes Power Plant (CPP) project (01-AFC-19). These comments deal solely with the proposed air quality construction conditions of certification (pages 4.1-30 to 4.1-35). SMUD proposes the following changes:

### CONSTRUCTION CONDITIONS OF CERTIFICATION

**AQ-C1** The project owner/operator shall submit the resume(s) of ~~each individual proposed to fill the~~their selected Construction Mitigation Manager(s) (CMM)~~position~~ to the CEC Compliance Project Manager (CPM) for approval. One or more individuals may ~~hold~~perform the duties associated with this position.~~The owner/operator shall be responsible for funding the costs of the CMM, however the CMM shall report directly to the CPM.~~ The CMM shall preferably have ~~a minimum of 8 years~~ experience as follows; however, the CPM shall consider all resumes submitted regardless of experience:

- ~~• 5 years construction experience as a subcontractor or general contractor.~~
- ~~• An engineering degree or an additional 5 years construction experience.~~
- ~~• 2 years of air quality assessment experience.~~
- Construction project management, safety compliance or environmental compliance experience.
- Current certification by the California Air Resources Board for Visible Emission Evaluation (VEE), or a commitment to obtain certification prior to the commencement of construction.

The project owner/operator shall make available ~~a dedicated~~an onsite office for the CMM. The CMM shall be responsible for implementing all mitigation measures related to construction equipment combustion emissions, construction monitoring and enforcing the effectiveness of construction mitigation measures as outlined in Conditions of Certification **AQ-C3**, and AQ-C4, ~~and AQ-C5~~. The CMM shall be onsite during all construction activities, until no longer deemed necessary by the CPM. The CMM shall be granted access to all areas of the main and linear facility construction sites. The CMM shall have the authority to appeal to the CPM to have the CPM stop specific construction activities on either the main or the linear facility construction sites as ~~specified in Condition AQ-C3 (3) below. The CMM warranted by specific mitigation measures.~~ The CMM activities may not be terminated prior to the cessation of construction activities unless approval is granted by the CPM.

**Verification:** The project owner/operator shall submit the CMM resume(s) to the CPM for approval at least sixty (60) days prior to site mobilization.

# Sacramento Municipal Utility District

## Comments on the Cosumnes Power Plant Preliminary Staff Assessment, Set 2

**AQ-C2** ~~The CMM shall submit to the CPM for approval, a Monthly Construction Compliance Report (MCCR). The MCCR will, at a minimum, summarize~~The project owner shall ensure that the CMM submits directly to the CPM for approval (and a copy to the project owner) a monthly report of all compliance actions taken germane to Conditions of Certification **AQ-C3, and AQ-C4 and AQ-C5**. The ~~MCCR-report~~ shall include, at a minimum, the following elements:

### **Fugitive Dust Mitigation Monthly Report (see Condition of Certification AQ-C3 and AQ-C5)**

- ~~• A summary of each of the operation(s) planned for the following two months which may result in the generation of fugitive dust. Each description shall include a schedule, on-site location details and a list of proposed fugitive dust mitigation measures.~~
- A summary ~~report~~ of all mitigation activities implemented for each fugitive dust generating operation ~~identified in a previous MCCR during the preceding month.~~ This report should provide a summary description of the operation, the mitigation measures implemented and the estimated effectiveness of each mitigation measure.
- ~~• Detailed reports of all operation(s) requiring fugitive dust mitigation that were not identified in the previous MCCR or the FDMP. This report should include (at a minimum) a description of the operation, the date, duration, mitigation measures implemented, and an explanation for not reporting the operation in a previous MCCR (or in the FDMP).~~
- Identification of any failures of mitigation measures and ~~a detailed report details~~ of the actions taken to reduce the identified impacts and prevent future failures of those mitigation measures.
- Identification of any observation by the CMM of dust plumes which exceed any of the following criteria:
  - Opacity of the dust plume exceeded 20% at any location;
  - A visible dust plume extended more than 100 yards from the dust generating activity;
  - For activities at the facility site, a visible dust plume extended beyond the fenced property boundary.

~~beyond the property boundary of the main construction site or beyond an acceptable distance from the linear construction site and what actions (if any) where~~For each identified plume, the report shall identify the actions (if any) taken to abate the plume.
- A list of all complaints received by either the Owner/Operator or the Air Pollution Control District related to construction activities during the

## Sacramento Municipal Utility District

### Comments on the Cosumnes Power Plant Preliminary Staff Assessment, Set 2

[preceding month, and a list of actions taken to address each complaint received.](#)

#### **Diesel Construction Equipment Mitigation Monthly Report (see Condition of Certification AQ-C4)**

- Identification of any changes, as approved by the CPM, to the Diesel Construction Equipment Mitigation Plan from the initial report or the last monthly report including any new contractors and their diesel construction equipment.
- A ~~C~~Copy of all receipts or other documentation indicating types and amounts of fuel purchased, from whom, where delivered and on what date for the main and related linear construction sites.
- Identification and verification of all diesel engines required to meet EPA or CARB 1996 off-road diesel equipment emission standards.
- The suitability of the use of a catalyzed diesel particulate filter for a specific piece of construction equipment is to be determined by a qualified mechanic or engineer who must submit a report through the CMM to the CPM for approval.
- The identification of any suitability report initiated or pursued, or the completed report, should be included in the monthly report (in the month that it was completed) as should the verification of any subsequent installation of a catalyzed diesel particulate filter.
- Identification of any observation by the CMM of [dark](#) exhaust plumes emanating from diesel-fired construction equipment beyond the property boundary of the main construction site or beyond an acceptable distance from the linear construction site and what actions (if any) were taken to abate the plume or future expected plumes.

**Verification:** The [CMM project owner](#) shall ~~submit to the CPM for approval the Monthly Construction Compliance Report (MCGR) for each month by the 15<sup>th</sup> (or the following Monday if the 15<sup>th</sup> is a Saturday or Sunday) of the following month while construction is occurring at the main or related linear construction sites.~~ [ensure that the CMM submits directly to the CPM for approval \(and a copy to the project owner\), a monthly report of all compliance actions taken germane to Conditions of Certification AQ-C3 and AQ-C4. The report is due within 10 working days after the end of each reporting month.](#)

# Sacramento Municipal Utility District

## Comments on the Cosumnes Power Plant Preliminary Staff Assessment, Set 2

**AQ-C3** The ~~CMM shall prepare and submit to the CPM for approval~~ project owner shall ensure that the CMM prepares and submits to the CPM for approval a Fugitive Dust Mitigation Plan (FDMP) that specifically identifies all fugitive dust mitigation measures that will be employed during the construction of the facility and related linears. The FDMP shall be administered on site by the ~~full-time~~CMM.

The FDMP shall be designed to achieve all of the following objectives:

1. The opacity of fugitive dust plumes shall not be in excess of 20% at any location;
2. There shall not be a visible dust plume that extends more than 100 yards from the activity that causes the dust plume to be generated; and
3. For construction at the facility site, there shall not be a visible dust plume that extends beyond the fenced property boundary.

The FDMP shall include provisions for notifying residents within one-half mile of the project site of the commencement of construction, and of a phone number for use by the public to report any undesirable dust conditions associated with project construction activities. These provisions, and the related notice and phone number, may be combined with the notice and phone number required by condition **NOISE-1**.

The construction mitigation measures that shall be addressed in the FDMP include, but are not limited to, the following:

- Identification of the employee parking area(s) and surface composition of those parking area(s)
- The frequency of watering of unpaved roads and all disturbed areas
- Application of chemical dust suppressants
- Gravel in high traffic areas
- Paved access aprons
- Sandbags to prevent run off
- Posted speed limit signs
- Wheel washing areas prior to large trucks leaving the project site
- Methods that will be used to clean tracked-out mud and dirt from the project site onto public roads
- For any transportation of solid bulk material
  1. Vehicle covers
  2. Wetting of the transported material
  3. Appropriate freeboard

## Sacramento Municipal Utility District

### Comments on the Cosumnes Power Plant Preliminary Staff Assessment, Set 2

- Methods for the stabilization of storage piles and disturbed areas
- Windbreaks at appropriate locations
- Additional mitigation measures to be implemented at the direction of the CMM in the event that the standard measures fail to ~~completely~~effectively control dust from any activity and/or source
- The suspension of all earth moving activities under windy conditions if standard and additional mitigation measures are ineffective

#### **In monitoring the effectiveness of all mitigation measures included in the FDMP, the CMM shall take into account the following, at a minimum:**

- Onsite spot checks of soil moisture content at locations where soil disturbance, movement and/or storage is occurring; and
- Visual observations of all construction activities; ~~and~~
- ~~The results of measurements by portable PM<sub>10</sub> instruments (as described in AQ-C5).~~

#### **The CMM shall implement the following procedures for additional mitigation measures if the CMM determines that the existing mitigation measures are not resulting in effective mitigation:**

- The CMM shall direct more aggressive application of the existing mitigation methods within fifteen (15) minutes of making such a determination.
- The CMM shall direct implementation of additional methods of dust suppression if step #1 specified above fails to result in adequate mitigation within thirty (30) minutes of the original determination.
- The CMM shall have the authority to appeal to the CPM to have the CPM direct a temporary shutdown of the source of the emissions if step #2 specified above fails to result in adequate mitigation within one (1) hour of the original determination. If the CPM grants the request for shutdown, The activity shall not restart until one (1) full hour after the shutdown. The owner/operator may appeal to the CPM any directive from the CMM to shutdown a source, provided that the shutdown shall go into effect within one (1) hour of the original determination unless overruled by the CPM before that time. the CPM authorizes restarting the activity.

**Verification:** ~~At least thirty (30)~~At least 30 days prior to site mobilization, the project owner/operator shall provide the CPM with a copy of the ~~Fugitive Dust Mitigation Plan (FDMP)~~FDMP for approval. Site mobilization shall not commence until the project owner/operator receives approval of the FDMP from the CPM.

**AQ-C4** ~~The CMM shall prepare and submit~~ project owner shall ensure that the CMM prepares and submits to the CPM for approval, a Diesel Construction

# Sacramento Municipal Utility District

## Comments on the Cosumnes Power Plant Preliminary Staff Assessment, Set 2

Equipment Mitigation Plan (DCEMP) that will specifically identify diesel engine mitigation measures that will be employed during the construction phase of the main and related linear construction sites. The [project owner shall ensure that the](#) CMM will be responsible for directing implementation of and compliance with all measures identified in the DCEMP. The DCEMP shall address, at a minimum, the following mitigation measures:

- Catalyzed diesel particulate filters (CDPF)
- CARB certified ultra low sulfur diesel fuel, containing 15 ppm sulfur or less (ULSD)
- Diesel engines certified to meet EPA and/or CARB 1996 or better off-road equipment emission standards
- Restricting diesel engine idle time, to the extent practical, to no more than 10 minutes

The ~~Diesel Construction Equipment Mitigation Plan~~ [DCEMP](#) shall include the following:

- 1.) A list of all diesel-fueled, off-road, stationary or portable construction-related equipment to be used either on the main or the related linear construction sites. This list will initially be estimated and then subsequently be updated as specific contractors become identified. Prior to a contractor gaining access to the main or related linear construction sites, the ~~CMM~~ [will project owner shall ensure that the CMM](#) submits to the CPM for approval, an update of this list including all of the new contractor's diesel construction equipment.
- 2.) Each piece of construction equipment listed under item #1 of this condition must demonstrate compliance according to the following mitigation requirements, except as noted in items #3, #4 and #5 of this condition:

| Engine Size (BHP) | 1996 CARB or EPA Certified Engine | Required Mitigation                                 |
|-------------------|-----------------------------------|---|
| < 100             | NA                                | ULSD  |
| > or = 100        | Yes                               | ULSD  |
| > or = 100        | No                                | ULSD and CDPF, if suitable as determined by the CMM |

- 3.) If the construction equipment is intended to be on-site for ten (10) days or less, then none of the mitigation measures identified in item #2 of this condition are required.

## Sacramento Municipal Utility District

### Comments on the Cosumnes Power Plant Preliminary Staff Assessment, Set 2

- 4.) The CPM may grant relief from the mitigation measures listed in item #2 of this condition for a specific piece of equipment if the CMM can demonstrate that they have made a good faith effort to comply with the mitigation measures and that compliance is not possible.
- 5.) Any implemented mitigation measure in item #2 of this condition may be terminated immediately if one of the following conditions exists, however the CPM must be informed within ten (10) working days of the termination:
  - 5.1) The measure is excessively reducing normal availability of the construction equipment due to increased downtime for maintenance, and/or reduced power output due to an excessive increase in back pressure.
  - 5.2) The measure is causing or is reasonably expected to cause significant engine damage.
  - 5.3) The measure is causing or is reasonably expected to cause a significant risk to workers or the public.
  - 5.4) Any other seriously detrimental cause which has approval by the CPM prior to the termination being implemented.
- 6.) All contractors must agree to limit diesel engine idle time on all diesel-powered equipment to no more than ten (10) minutes, to the extent practical.

**Verification:** ~~The CMM shall submit the initial Diesel Construction Equipment Mitigation Plan (DCEMP)~~ The project owner shall ensure that the CMM submits a DCEMP to the CPM for approval at least thirty (30) days prior to site mobilization. The CMM will update the initial DCEMP ~~as necessary,(if necessary),~~ no less than ten (10) days prior to a specific contractor gaining access to either the main or related linear construction sites. ~~The CMM will notify~~ project owner shall ensure that the CMM notifies the CPM of any emergency termination within ten (10) working days of the termination.