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April 15, 2011

Mr. Craig Hoffman, CPM
(09-AFC-3C)
California Energy Commission
1516 Ninth Street
Sacramento, CA 95814

SUBJECT: Mariposa Energy Project (09-AFC-3C)
VIS-1 Surface Treatment Plan

Dear Mr. Hoffman:

The attached surface treatment plans for the Mariposa Energy Project (MEP) site and the Byron Bethany Irrigation District Canal 45 pump house, have been submitted for Staff review, in accordance with Condition of Certification VIS-1. Color samples have been included as attachments to this document. A copy of each plan has also been submitted to the Chief Building Officer (CBO) for review.

Mariposa Energy, LLC (Mariposa Energy) acknowledges that MEP has not yet been certified by the California Energy Commission (CEC). Submittal of this compliance information is at Mariposa Energy's risk and in no way implies or predisposes project certification by the CEC.

If you have any questions regarding this submittal, please do not hesitate to contact me at (213) 346-2134 or Keith McGregor at (916) 286-0221.

Sincerely,

Chris Curry
Mariposa Energy, LLC
Senior Manager - Development

Attachment: Surface Treatment Plans
Color Samples (Three Metal Plates and PPG's Amercoat Color Guide)

cc: Bo Buchynsky, Mariposa Energy, LLC
James Spicer, Mariposa Energy, LLC
Gary Normoyle, Mariposa Energy, LLC
Kevin Wedman, Bureau Veritas
Kristy Santucci, Bureau Veritas
Keith McGregor, CH2M HILL

Surface Treatment Plan for the Mariposa Energy Project

Condition of Certification VIS-1 requires Mariposa Energy, LLC (Mariposa Energy) to submit a surface treatment plan for the Mariposa Energy Project (MEP). The purpose of the plan is to demonstrate that the surfaces of all project structures and buildings visible to the public are treated to minimize visual intrusion and contrast by blending with the landscape, minimizing glare, and complying with local design policies and ordinances. Specifically, VIS-1 requires Mariposa Energy to submit the following information:

A. A description of the overall rationale for the proposed surface treatment, including the selection of the proposed color(s) and finishes

B. A list of each major project structure and building (e.g., building, tank, pipe, and wall; transmission line towers and/or poles; and fencing), specifying the color(s) and finish proposed for each. Colors must be identified by vendor, name, and number; or according to a universal designation system.

C. One set of color brochures or color chips showing each proposed color and finish

D. A specific schedule for completing the treatment

E. A procedure to ensure proper treatment maintenance for the life of the project

Mariposa Energy's responses to these requirements for the surface treatment plan follow.

A. A description of the overall rationale for the proposed surface treatment, including the selection of the proposed color(s) and finishes

As indicated in Table 1, ANSI 70, or Munsell Number 5BG 7.0/0.4 ("gray") is the color specified for most major elements of the power plant. Tanks and buildings will be Desert Tan, or Munsell Number 2.6Y 8.4/1.4 ("tan"). These colors were selected because:

- The earthtone gray and tan colors will not appear visually intrusive or substantially reflective of ambient light in views toward the project site.
- The colors are not dissimilar to and are visually compatible with the colors of the existing facilities at the site.
- The shades of gray and tan specified will generally minimize visual contrast with the surrounding landscape which is grazing land that is typically green in appearance during the spring season and various shades of brown during summer, fall and winter.
- The colors will generally minimize visual contrast with the wider surrounding landscape in more expansive views. In views to the west, in which Brushy Peak and other portions of the Altamont hills area appear as backdrop, the earthtones will minimize the visibility of the project, which will appear in front of the base of the hills.

TABLE 1
Material, Finish, and Color for Major Structures and Equipment

General Arrangement Legend#	Major Equipment	Material	Finish	Color
8	Gas Turbine Enclosures	Metal	Flat / Untextured	ANSI 70 - Gray
14	Gas Turbine Inlet Air Filters	Metal	Flat / Untextured	ANSI 70 - Gray
18	Generator Step Up Transformer	Metal	Flat / Untextured	ANSI 70 - Gray
1	Emissions Control Modules	Metal	Flat / Untextured	Ameron PSX 892HS – Haze Gray
4	Ammonia Skid	Metal	Flat / Untextured	ANSI 70 – Gray
21	Inlet Air Chillers	Metal	Flat / Untextured	Desert Tan
24	Gas Compressor Skid	Metal	Flat / Untextured	ANSI 70 – Gray
25	Fuel Gas Compressor Enclosure	Metal	Galvanized	Unpainted
27	Fuel Gas Coalescing Filters	Metal	Flat / Untextured	ANSI 70 – Gray
28	Air Compressor Skid	Metal	Flat / Untextured	ANSI 70 – Gray
39	Demin Water Tank	Metal	Flat / Untextured	Desert Tan
31	Service Water Tank	Metal	Flat / Untextured	Desert Tan
35	Wastewater Tank	Metal	Flat / Untextured	Desert Tan
38	Ammonia Storage Tank	Metal	Flat / Untextured	Desert Tan
32	Fire Pump Building	Metal	Flat / Untextured	Desert Tan
22	Power Distribution Center Building	Metal	Flat / Untextured	Desert Tan
23	4160V Transformers	Metal	Flat / Untextured	ANSI 70 – Gray
23	480V Transformers	Metal	Flat / Untextured	ANSI 70 – Gray
23	230kV Breaker	Metal	Flat / Untextured	ANSI 70 – Gray
43	Administration Building	Metal	Flat / Untextured	Desert Tan
40	Warehouse	Metal	Flat / Untextured	Desert Tan
44	Combustion Turbine Power Control Module (PCM)	Metal	Flat / Untextured	ANSI 70 – Gray
2	Continuous Emissions Monitoring System (CEMS) Enclosure	Metal	Flat / Untextured	ANSI 70 - Gray

B. A list of each major project structure and building (e.g., building, tank, pipe, and wall; transmission line towers and/or poles; and fencing), specifying the color(s) and finish proposed for each. Colors must be identified by vendor, name, and number; or according to a universal designation system.

The materials for the project features and the color treatment of their surfaces are identified in Table 1. Most of the project features have been assigned numbers that are keyed to the numbered features indicated on the General Arrangement figure (Figure 2.3-1 from the AFC).

All structures will be metal with a flat, untextured finish or a galvanized finish. Tanks and buildings will be painted Desert Tan (Munsell Number 2.6Y 8.4/1.4), the emissions control modules will be painted Ameron PSX 892HS Haze Gray (Munsell Number 5BG 7.0/0.4), and all other structures associated with the project will be ANSI 70 gray (Munsell Number 5BG 7.0/0.4) in color. Transmission line towers will be unpainted with a rough mat, galvanized gray finish. Switchyard structures will also be unpainted with a galvanized gray finish.

C. One set of color brochures or color chips showing each proposed color and finish

A physical sample of the ANSI 70 gray and color brochure for Desert Tan are provided as an attachment to this report.

D. A specific schedule for completing the treatment

The major structures and equipment will receive a surface finish at the factory or will be painted at the project site.

The following major structures and equipment will have factory-treated surfaces:

- Gas Turbine Enclosures
- Gas Turbine Inlet Air Filters
- Generator Step Up Transformer
- Emissions Control Modules
- Ammonia Skid
- Inlet Air Chillers
- Gas Compressor Skid
- Air Compressor Skid
- Ammonia Storage Tank
- Fire Pump Building
- Power Distribution Center Building
- Transformers
- Breaker
- Administration Building
- Warehouse
- BBID pump station

The following major structures and equipment will be painted at the project site:

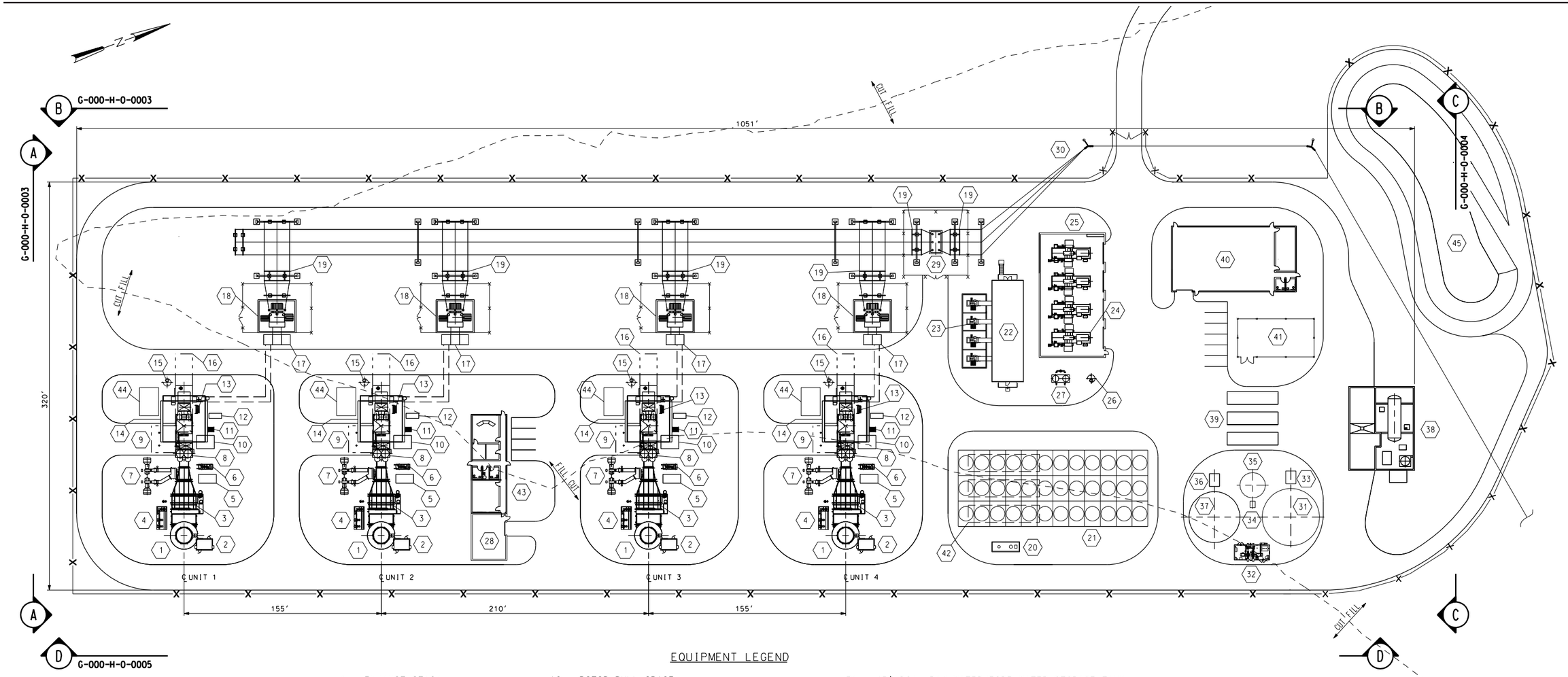
- Demin Water Tank
- Service Water Tank
- Wastewater Tank

Painting is scheduled to occur during the plant commissioning period. Painting at this time is necessary because damage to the paint could occur if it were applied while construction activities are

taking place. A more detailed painting schedule will be developed once the painting contractor has been selected.

E. A procedure to ensure proper treatment maintenance for the life of the project

As a part of its standard maintenance practices, Mariposa Energy will repaint or touch up the surfaces of the structures and equipment as necessary. Larger structures requiring a painting contractor will be inspected at least annually to determine whether any areas require repainting. A status report will be included in the Annual Compliance Report that specifies the condition of the surfaces of all structures and buildings at the end of the reporting year, major maintenance activities that occurred during the reporting year, and the schedule of major maintenance activities for the next year.



EQUIPMENT LEGEND

1. EXHAUST STACK
2. CEMS STATION
3. SCR/CO CATALYST
4. AMMONIA INJECTION SKID
5. LUBE OIL FIN FAN COOLER
6. WATER INJECTION SKID
7. TEMPERING AIR FANS
8. GAS TURBINE GENERATOR (CTG)
9. TURBINE REMOVAL AREA
10. AUXILIARY SKID
11. SPRINT SKID
12. FINAL GAS FUEL FILTER
13. CO2 BOTTLE STORAGE
14. CTG INLET AIR FILTER
15. WATER WASH DRAINS TANK
16. ROTOR PULL SPACE
17. SWGR. GENERATOR BREAKER (TYP OF 2 UNITS)
18. GENERATOR STEP-UP TRANSFORMER (GSU)
19. DISCONNECT
20. OIL/WATER SEPARATOR
21. CHILLER/AIR COOLED RADIATOR SYSTEM
22. POWER DISTRIBUTION CENTER (PDC)
23. AUX TRANSFORMERS
24. FUEL GAS COMPRESSORS
25. FUEL GAS COMPRESSOR ENCLOSURE
26. FUEL GAS WASTE SUMP
27. FUEL GAS COALESCING FILTERS
28. AIR COMPR/DRYER/RECEIVER ENCLOSURE
29. CIRCUIT BREAKER
30. OVERHEAD POWER LINES
31. 45' DIA. RAW WATER/FIRE WATER STORAGE TANK
32. FIRE PROTECTION WATER PUMPS
33. RAW WATER TRANSFER PUMPS
34. WASTE WATER TRANSFER PUMPS
35. 25' DIA. WASTE WATER STORAGE TANK
36. DEMIN WATER TRANSFER PUMPS
37. 40' DIA. DEMIN WATER STORAGE TANK
38. AQUEOUS AMMONIA UNLOADING/STORAGE AREA
39. DEMIN WATER TRAILERS
40. WAREHOUSE & MAINT. BUILDING
41. GAS METERING STATION
42. CHILLER SKIDS (3)
43. CONTROL/ADMIN. BUILDING
44. CTG ELECT. MODULE
45. RETENTION POND

NOTE:
FINISHED GRADE EL. 125'-6"
T.O. CONC. EL. 126'-0"

40 0 40 80
Scale: 1 INCH = 40 FEET

FIGURE 2.3-1
GENERAL ARRANGEMENT
Mariposa Energy Project
Alameda County, California

CH2MHILL

Surface Treatment Plan for the BBID Water Line Associated with the Mariposa Energy Project

PREPARED FOR: Craig Hoffman, CPM, California Energy Commission
Kevin Wedman, CBO, Bureau Veritas

PREPARED BY: Jerimy Borchardt, CH2M HILL

COPIES: Chris Curry, Mariposa Energy, LLC
James Spicer, Mariposa Energy, LLC
Gary Normoyle, Mariposa Energy, LLC
Bo Buchynsky, Mariposa Energy, LLC
Rick Gilmore, Byron Bethany Irrigation District
Keith McGregor, CH2M HILL

DATE: April 11, 2011

Mariposa Energy, LLC (Mariposa Energy) has submitted an Application for Certification to the California Energy Commission (CEC) for the Mariposa Energy Project (MEP). If approved by the CEC, MEP would be a nominal 200-megawatt, simple cycle generating facility consisting of four natural gas fired turbines located in northeastern Alameda County.

As outlined in the proposed CEC Conditions of Certification VIS-1, Mariposa Energy is required to provide documentation to the CEC Compliance Project Manager (CPM) prior to applying vendor color(s) and finishes for structures or buildings to be surface treated during manufacture. Therefore, this surface treatment plan has been prepared for the Byron Bethany Irrigation District (BBID) pump station building which will be constructed as part of MEP. The following surface treatment plan is submitted for CPM and Chief Building Officer (CBO) review in accordance with VIS-1.

BBID Pump Station Surface Treatment Plan

A pump station building will be installed by BBID to connect the 1.8-mile water pipeline to Canal 45, which is approximately 1.75 miles north of the project site along Bruns Road. The BBID pump station building will be a 15'x22' (330 square feet) structure located next to a similar existing pump station building, approximately 15-20 feet from the nearest property line. The new pump station will have the same tan metal exterior as the existing building. A sample of the two shades of tan, as well as the metallic finish, proposed for the exterior walls and the roof are included as an attachment to this document. The metal finish will be applied in the factory, and is warranted for 25 years. A photo of the existing building is also included as Figure 1 to show the representation of the two colors.

All other features associated with the 1.8 mile water pipeline will be at or below grade. Therefore, no other buildings or structures will be installed as part of the BBID water pipeline.

FIGURE 1
EXISTING BBID PUMP HOUSE
Mariposa Energy Project
Alameda County, California