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October 4, 2002

Ms. Kristy Chew
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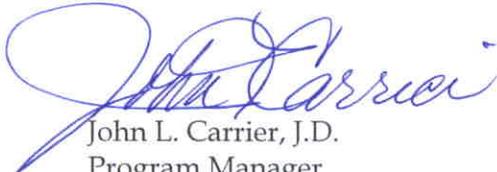
RE: Data Responses, Set 10
Cosumnes Power Plant (01-AFC-19)

On behalf of the Sacramento Municipal Utility District, please find attached 12 copies and one original of Data Responses, Set 10, in response to Staff's Data Requests dated December 10, 2001. Attachment CR-39E referenced herein is being filed under a request for confidentiality. Therefore, only 5 copies of that attachment are provided.

Please call me if you have any questions.

Sincerely,

CH2M HILL



John L. Carrier, J.D.
Program Manager

c: Colin Taylor/SMUD
Kevin Hudson/SMUD
Steve Cohn/SMUD

**COSUMNES POWER PLANT
(01-AFC-19)**

DATA RESPONSE, SET 10
(Responses to Data Requests: 22, and 39 Supplemental)

Submitted by
**SACRAMENTO MUNICIPAL
UTILITY DISTRICT (SMUD)**

October 4, 2002



2485 Natomas Park Drive, Suite 600
Sacramento, California 95833-2937

COSUMNES POWER PLANT (01-AFC-19)
DATA RESPONSES, SET 10

Technical Area: Biological Resources

CEC Authors: Melinda Dorin and Rick York

CPP Author: EJ Koford and Debra Crowe

BACKGROUND

Table 8.2-4 summarizes the permanent and temporary project impacts to biological resources at the site. On AFC page 8.2-14 it states that the proposed 20-acre construction laydown area on the south side of Clay Station East Road has not been evaluated for the potential presence of vernal pools and special-status species. In the AFC the proposed construction laydown area is considered to have a temporary impact.

DATA REQUESTS

22. Provide a draft of the laydown area restoration and revegetation plan.

Response: A draft restoration and revegetation plan is provided as Attachment BR-22.

COSUMNES POWER PLANT (01-AFC-19)
DATA RESPONSES, SET 10

Technical Area: Cultural Resources

CEC Author: Judy McKeehan

CPP Authors: Jim Bard and Jim Sharpe

BACKGROUND

Confidential Appendix 8.3 C-2 discusses a record search summary for the Cosumnes Power Plant Project that was conducted through the California Historical Resources Information System (CHRIS). It does not specify which regional Archaeological Information Center(s) were consulted.

The confidential Appendix 8.3C does not include a complete list of technical reports for the resources identified for the Proposed Gas Line Alignment in Appendix 8.3 C-2.

DATA REQUEST

39. Please provide a plan to avoid (the plan should include, but not be limited to CA-SAC-93) all identified archaeological sites (both prehistoric and historic) within 200 feet and historic sites (built environment) within 100 feet of the plant site, linear routes, laydown, parking areas, and access roads. If it appears that a cultural resource cannot be avoided, provide a test plan for each archaeological resource and complete and provide the evaluation forms DPR 523, as appropriate, for historic resources, pursuant to CEQA Section 15064.5, (a), (3), (A)(B)(C) & (D).

Response: A comprehensive summary of the archaeological survey and presence/absence testing for the Cosumnes Power Plant through September 2002 is provided as Confidential Attachment CR-39D.

Attachment BR-22
Draft

**Restoration and Revegetation Plan for
the Cosumnes Power Plant Gas
Pipeline Construction Corridor
Sacramento County, California**

Prepared for
**SACRAMENTO MUNICIPAL
UTILITY DISTRICT (SMUD)**

October 4, 2002

Prepared by



2485 Natomas Park Drive, Suite 600
Sacramento, California 95833-2937

SECTION 1.0

Background

The linear restoration and revegetation plan will be implemented following construction of a 24-inch diameter, 26-mile natural gas pipeline associated with the proposed Cosumnes Power Plant (CPP). The temporary construction corridor varies from 25 to 65 feet. The construction corridor includes the 3- to 7-foot-wide/ 7-foot-deep-trench, excavated spoil piles, and vehicle access to the trench. Horizontal directional drilling (HDD) entry and exit pads will be approximately 150 feet long and 100 feet wide.

The expected duration of construction is 20 months. Preparation of the pipeline alignment will include vegetation clearing, salvage and segregation of topsoil, trench excavation, and HDD. These activities will be completed in a manner that will reduce the potential impact to wetlands and other sensitive habit. Ground disturbance is not anticipated to require the removal of trees or riparian vegetation. Erosion control measures will be in place throughout construction, clean up, and restoration activities. Following construction, salvaged topsoil will be replaced; original topographic characters will be restored; and disturbed areas will be revegetated or otherwise stabilized per individual landowner requirements.

This plan focuses on restoring and enhancing areas of temporary construction disturbance relative to the original site conditions and includes restoration of topographical contours and hydrological features such as wetlands, drainages, vernal pools, and other ponding areas. Revegetation efforts will include seeding for erosion control and encouraging the establishment of native vegetation where appropriate.

Specific restoration measures will be finalized during post-construction planning and modified as needed following completion of the pipeline to ensure the best level of protection in sensitive areas. In addition, details of the plan will be modified (prior to the initiation of construction) by contractors involved in project construction. It is anticipated that final plans and specifications for restoration will be prepared following approval by the regulatory agencies.

1.1 Site Conditions

The topography along the pipeline alignment is relatively flat, with gently sloping hills on the eastern end of the alignment. The elevation ranges from approximately 15 to 150 feet above sea level. The proposed pipeline alignment is primarily contained within transportation corridors (railroad, highway, and county roads), utility easements, and agricultural lands. The alignment crosses or is adjacent to a variety of drainages or other hydrological features, active agricultural crops and modified areas. It also crosses through the Cosumnes River Preserve and other biologically sensitive areas.

The pipeline alignment crosses 38 hydrological features. Most of these features are agricultural irrigation ditches with seasonal flow. The alignment also crosses natural drainages, modified drainages, marshes, backwater ponds, wetlands, and vernal pools. The

ephemeral drainages will be crossed using the open-cut trench construction method followed by appropriate restoration. Crossing of Laguna Creek, Cosumnes River, and Badger Creek will be completed with the use of HDD to avoid direct impacts to riparian and aquatic habitats. In addition, there is an option for the pipeline constructor to HDD the Badger Creek backwater if the constructor determines it would not be feasible to trench within the narrowed construction corridor.

The Sacramento Valley area typically receives its most significant precipitation between November and April. The total annual average rainfall is 18 inches. Summers are dry. Most pipeline construction is scheduled for the summer months when seasonal swales and agricultural irrigation ditches are likely to be dry and surface runoff will be minimal. Such conditions are expected to permit open cut trenching and HDD with minimal impacts. A list of the drainage features and proposed construction methods are included in Table 1. The expected duration of construction is approximately 20 months. Erosion control measures will be used throughout construction, clean up, and restoration activities.

Following construction, salvaged topsoil will be replaced; original topographic features will be restored and disturbed areas will be revegetated or otherwise stabilized per individual landowner requirements.

1.2 Goals

The project restoration goals include:

- No significant adverse change to the existing habitat.
- No significant disturbance of special-status or native species.
- No permanent loss of wetland, vernal pool, riparian, or other sensitive habitat.
- Effective erosion control.
- Establishment of an appropriate monitoring plan.

The following section describes how the construction corridor will be restored to pre-construction conditions and revegetated for erosion control.

Restoration and Revegetation Plan

The project alignment is primarily located on relatively flat topography within disturbed transportation rights-of-way and agricultural fields. Perennial waterbodies (Cosumnes River, Laguna Creek, and Badger Creek) and the associated surrounding habitat will be avoided with HDD technology. The construction-related impacts to native habitat is expected to be minimal. Restoration will predominately focus on erosion control and seasonal avoidance of ephemeral waterbody features.

The restoration effort includes measures employed during and after construction.

2.1 Construction Measures

Construction measures to be employed to aid restoration include:

- Salvage and stockpiling of the first 6 inches of topsoil in “natural” areas.
- Implementation of erosion control measures such as silt fencing, hay bales, or straw wattles to protect salvaged topsoil and to minimize the runoff and discharge of materials into local waterbodies and other sensitive habitat.
- The period of time that any one section of trench will be open will be minimized.

2.2 Post-Construction Measures

Restoration measures to be employed following construction include:

- Replace stockpiled topsoil where appropriate
- Re-contour pre-existing topographical and hydrological features.
- Preparation of seedbed and seeding where appropriate.
- Use straw or wattles for local erosion control
- Maintenance of existing erosion control measures near slopes and waterbodies.
- Employing additional erosion control measures where needed.
- Restricting traffic on disturbed alignment. Use of signs or other barriers to discourage trespassing on the completed work areas that may hinder restoration efforts.

2.2.1 Seeding

Seeding will only occur in areas that were previously vegetated or in areas where it would be necessary for effective erosion control. Previously unvegetated areas will remain bare.

Restoration seeding will involve the following:

- Agricultural or otherwise previously disturbed areas will be vegetated with a winter crop to stabilize the soil. Natural re-seeding will likely occur in the spring from adjacent seed stock.
- Sensitive areas with native species will be re-seeded as appropriate.
- Seeding will occur in the fall at the onset of the rainy season. The seeded locations will receive supplemental irrigation if precipitation is not sufficient.
- Seed will be either hydroseeded or hand broadcast over a prepared surface.

2.3 Sensitive Habitats

The proposed activities include disturbance of sensitive habitat such as vernal pools and wetland features.

The following measures will be employed in areas of sensitive habitat:

- In vernal pool and ponding depression areas, the top 6 inches of topsoil will be salvaged and stockpiled separately from the remaining 6 inches of topsoil. The first 6 inches will be segregated and placed on top of a tarp or suitable ground cover.
- After construction the vernal pool topsoil will be spread evenly over the disturbed site.
- Wetland vegetation to be disturbed by open-cut trenching is dominated by cattails and other fast growing wetland plant species. The wetland vegetation is expected to be established quickly from adjacent plants. Re-contouring and bank stabilization should be sufficient in restoring these channelized drainages. Active planting will be used if natural re-growth has not occurred following the first year of construction.

Monitoring Plan

3.1 Monitoring Effectiveness of Revegetation

Revegetation will be monitored following restoration of the pipeline work area. Vegetation monitoring will be conducted as part of routine overall project maintenance activities, and after major rain events.

The monitoring plan includes the following measures:

- Re-seeded areas will be monitored annually for at least 2 years following seeding.
- When needed, additional remedial measures will be implemented as part of the overall project maintenance program.
- Inspections will identify areas where revegetation has been unsuccessful and where revegetation activities should be initiated. Appropriate remedial actions will then be implemented. Potential actions will include additional seeding, irrigating seeded areas, or installation of engineered structures to control surface-runoff. Corrective actions will be implemented as soon as feasible, but no later than the start of the next rainy season.
- Following 2 years of monitoring, revegetation will be considered successful when the restored area is equal to 70 percent of the original site prior to construction.

Attachment CR-39D

CONFIDENTIAL

Summary of the Archaeological Survey and Presence/Absence Testing for the Cosumnes Power Plant, Sacramento County, California

Prepared for

**SACRAMENTO MUNICIPAL
UTILITY DISTRICT (SMUD)**

October 4, 2002

Prepared by



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SMUD

SACRAMENTO MUNICIPAL UTILITY DISTRICT
The Power To Do More.SM

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Privileged and Confidential

LEG 2002-0722

October 4, 2002

Mr. Steve Larson
Executive Director
California Energy Commission
1516 Ninth Street
Sacramento, CA 95814-5512

Re: Repeated Application for Confidential Designation Pursuant to Section 2505(a)(4) of Title 20: SMUD's Cosumnes Power Plant (01-AFC-019): Cultural Resources

Dear Mr. Larson:

Pursuant to Title 20 of the California Code of Regulations and direction received from CEC staff, the Sacramento Municipal Utility District (SMUD) hereby submits this, "Repeated Application for Confidential Designation Pursuant to Section 2505(a)(4) of Title 20: Cosumnes Power Plant (01-AFC-019): Cultural Resources."

Section 2505(a)(4) provides that if an applicant's prior application for confidential designation of substantially similar information has been granted pursuant to Section 2505, a subsequent application need only contain certification pursuant to Section 2505(a)(1)(G) that the information submitted is substantially similar to the initial application and that all facts and circumstances relevant to the granting or approval of the initial application are unchanged.

The Commission's Executive Director has previously approved SMUD's request for confidential designation regarding cultural resources and other subject matters related to the Cosumnes Power Plant AFC. Pursuant to direction received from CEC staff, SMUD now wishes to submit this repeated application for confidential designation. The information submitted with this application is substantially similar to the information submitted in SMUD's initial application, and all facts and circumstances relevant to the granting of SMUD's initial application are unchanged.

I certify under penalty of perjury that the information contained in this Application for Confidential Designation is true, correct, and complete to the best of my knowledge and belief.

Sincerely,

A handwritten signature in black ink, appearing to read "Steve Cohn". The signature is fluid and cursive, with a long horizontal stroke at the end.

Steve Cohn
Senior Attorney

/dm

Enclosure

cc: (w/o enclosures)
CEC Dockets Office