



CH2MHILL

March 4, 2003
172769

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Mr. Bob Eller
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RE: Data Response, Set 1C
Walnut Energy Center (02-AFC-4)

On behalf of the Turlock Irrigation District, please find attached 12 copies and one original of the Data Responses, Set 1C, in response to Staff's Data Requests dated January 23, 2003. We are also filing copies of this Data Response electronically.

This filing contains responses to the following first round data requests:

- Cultural Resources: 40, 41, and 43, 47-51
- Water and Soils: 84 (ECP) and 85 (SWPPP)

Please call me if you have any questions.

Sincerely,

CH2M HILL

for

John L. Carrier, J.D.
Principal Project Manager

c: Project File
Proof of Service List

**WALNUT ENERGY CENTER
(02-AFC-4)**

DATA RESPONSE, SET 1C

**(Responses to Data Requests: 40, 41,
43, 47-51, 84 (ECP), and 85 (SWPPP))**

Submitted by
TURLOCK IRRIGATION DISTRICT (TID)

MARCH 4, 2003



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

**WALNUT ENERGY CENTER
(02-AFC-4)
DATA RESPONSES, SET 1C**

Technical Area: Cultural Resources

CEC Author: Gary Reinoehl

WEC Authors: James C. Bard, Ph. D., Elizabeth Calvit

BACKGROUND

The Cultural Resources Management Report contained DPR 523 forms for 34 resources. Some of the forms depict and describe the same building/structure but have different addresses: 1230 Commons Road and 5500 Commons Road; 207 Holland Drive and 331 Holland Drive; 3650 Commons Road and 3700 Commons Road; and 5600 Clayton Road and 5600 Commons Road at Clayton Road. If any of the parcels and associated buildings have more than one address, both addresses should appear on a single form that records the resource.

DATA REQUEST

40. Please review the DPR 523 forms for 1230 Commons Road, 5500 Commons Road, 207 Holland Drive, 331 Holland Drive; 3650 Commons Road, 3700 Commons Road, 5600 Clayton Road, and 5600 Commons Road at Clayton Road and provide DPR 523 forms for each of the resources.

Response: Obsolete DPR 523 forms were incorrectly submitted in the Cultural Resources Management Report. The DPR 523 forms have been corrected. See Data Response #47.

BACKGROUND

Table 4 includes the Tidewater Southern Railroad and Canal Lateral No. 5 in the list of resources within the project area. The report includes a discussion of the two resources. The confidential appendix includes a copy of the site record for the Tidewater Southern Railroad outside of the project area. The discussion indicates that the resources have been evaluated by other specialists as not meeting the criteria for eligibility to the NRHP.

DATA REQUESTS

41. Please provide an update for the Tidewater Southern Railroad record that includes the portion of the resource that is within the project area.

Response: A DPR 523 form has been prepared for the Tidewater Southern Railroad and is included with the DPR forms being submitted in Data Response #47.

43. If there has not been a concurrence by the California Office of Historic Preservation (CA SHPO) under federal regulations or a decision by an agency under CEQA, then please provide a full discussion of the eligibility of the resource, including a discussion of the character defining attributes of this resource type and the aspects of integrity.

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Response: A DPR 523 form has been prepared and included with the other DPR forms in response to Data Request #47. The following is an excerpt from the DPR 523 form of the character-defining attributes of this resource.

Criteria A: This segment of the Tidewater Southern Railroad branch evaluated for this project does not appear to meet the criteria for listing in the National Register nor does it appear to be a historical resource for the purposes of CEQA, primarily because of its loss of historic integrity with the replacement of the track in 1945 and the updating of the Washington Road crossing. Therefore the section under evaluation in this form does not appear to have the potential to be a contributor to any larger historic property, nor does the segment appear to meet the criteria individually.

Criteria B: This property does not appear to be associated with any individuals who made significant contributions to national, state, or local history as required under Criterion B. This property does not convey any association with W.A. Irwin (Turlock townsite promoter) or any of the well-known historical figures associated with California's major railroads (e.g., Stanford, Crocker, etc).

Criteria C: This property does not appear to be an important example of a type, period, or method of construction. No special engineering or construction techniques were known to be used in the construction of this segment of the railroad. Improvements and upgrades to this segment of the railroad have compromised the integrity.

Criteria D: The railline is documented and does not appear to be a principal source of important information in this regard.

This property has been evaluated in accordance with Section 15064.5(1)(2)-(3) of the CEQA Guidelines using the criteria outlined in Section 5024.1 of the California Public Resources Code. The property does not appear to meet the criteria for listing in California Register of Historical Places.

Evaluated by Ms. Elizabeth D. Calvit, CH2M HILL. Secretary of the Interior-qualified Architectural Historian.

44. Please provide a DPR 523 record for Canal Lateral No. 5 that includes the portion of the resource within the project area.

Response: A DPR 523 record for Canal Lateral No. 5 will be prepared and submitted no later than March 10, 2003.

BACKGROUND

The Cultural Resources Management Report states that breaches of Lateral No.5 would not produce any permanent damage. It goes on to state that such a breach would not affect the resources eligibility for the NRHP or the CRHR because those types of operations do not diminish the historic values associated with historical canals. A breach of the canal would cause a loss of historic materials if the materials removed were from the period of significance. The breach and repair of the canal would also constitute a change in workmanship from the period of significance. Whether a breach and repair of the canal would effect the canal would depend on the character defining elements, the

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manner in which the repair is completed, and how the character defining elements might be changed.

DATA REQUESTS

45. Please provide, as part of the DPR 523 requested in data request 44, the period of significance for Lateral No. 5, a discussion of the character defining attributes for the lateral as they were within the period of significance, the criteria under which the resource may be eligible, and a context within which the eligibility of the resource can be considered.

Response: A DPR 523 form will be prepared for Lateral No. 5 and will discuss the character defining attributes and period of significance within a context statement. The DPR 523 form for Lateral No. 5 will be submitted no later than March 10, 2003.

BACKGROUND

A cultural resources survey report has been provided that provides the methodology of the surveys, the names of the staff performing the surveys, and the results of the surveys. The California Office of Historic Preservation provides instructions for completing the records (Department of Parks and Recreation Form 523) and the required fields that have to be completed. The DPR 523 forms included an evaluation of the resources. For many of the resources, only architecture is considered, not all of the criteria for eligibility. A historic context was not included on the form or in the report text to weigh the eligibility of the resources. In most cases there is a brief discussion of the integrity of the resource and a consideration is only given to one or two aspects of integrity, not all seven aspects of integrity.

DATA REQUESTS

47. Please provide a DPR 523A form for each of the resources that indicates the name of the individual who completed the form, and the company name.

Response: The DPR 523 forms that are being submitted to the CEC indicate the name of the preparer and company name. In addition, the DPR forms have been corrected to address the changes requested in these remaining Cultural Resources Data Requests. Since the DPR forms were originally presented as Appendix B of the Cultural Resource Management Report (CRMR), submitted January 10, 2003, they are attached here as Appendix B (revised). The body of the CRMR will be revised to reflect these changes and resubmitted by March 10th, without Appendix B, since it is attached to this Data Response, Set 1C. Due to the size of these documents, five copies of each are being furnished to staff. Electronic copies will be provided to others upon request.

48. Please provide a DPR 523B form that lists only the name of the individual who meets the Secretary of the Interior's Professional Standards for completing the

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evaluation per the requirements of the CA OHP. (Please ensure that the proper form designation is used in the footer.)

Response: The DPR forms show the name of the Secretary of the Interior qualified Architectural Historian. See Data Response #47.

49. Please include a discussion of the seven aspects of integrity on the DPR 523 form for the resources that the evaluator believes has lost so much integrity that it would not be eligible for either the NRHP or the CRHR.

Response: The DPR forms discuss the seven aspects of integrity. See Data Response #47.

50. Please provide a context within which the eligibility of the resources are being considered per the California Office of Historic Preservation 1995 publication entitled *Instructions for Recording Historical Resources*.

Response: Each DPR form includes a context statement that has been developed for the project area. See Data Response #47.

51. Please provide a discussion of the eligibility under each of the criteria for the NRHP and the CRHR.

Response: Each DPR form discusses eligibility under the NRHP and CRHR criteria. See Data Response #47.

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ATTACHMENT CUL-47

Appendix B (revised) DPR 523 Forms

Five copies of Attachment CUL-47, Appendix B (revised) DPR 523 Forms were submitted to the California Energy Commission.

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DATA RESPONSES, SET 1C**

Technical Area: Soil and Water Resources

CEC Author: M. Lorraine White

WEC Authors: EJ Koford

BACKGROUND

Construction and operation of the Turlock Irrigation District's Walnut Energy Center (WEC) may induce water and wind erosion at the power plant site and along its linear facilities. The applicant proposes to locate the power plant on 18 acres within a 69-acre parcel. The remaining 51 acres of the site will be used for construction laydown and site access. The site is surrounded by agricultural, residential and utility uses. An Erosion and Sediment Control Plan is needed addressing construction activities at the power plant site, the laydown area and any associated linear or other facilities, such as transmission lines, pipelines, and staging/storage areas. The purpose of the plan is to minimize the area disturbed, to protect disturbed and sensitive areas, to retain sediment on-site and to minimize off-site effects of water and wind erosion.

Storm water runoff may come in contact with contaminants during construction and operation of the project. A Storm Water Pollution Prevention Plan (SWPPP) will be necessary, addressing how drainage into the onsite stormwater pond(s) (AFC, p. 8.14-16) will be monitored for contaminants before allowing water to percolate into the ground. Currently, storm water that falls at the site naturally percolates into the soils. According to Section 8.14.5 of the AFC, the site's storm water will drain into an onsite stormwater percolation pond via a system of pipes, drains and swales in accordance with the City of Turlock's Specifications and Design Standards. According to the AFC the pond(s) will be designed to contain approximately 2 acre-feet of stormwater runoff (p. 8.14-17).

DATA REQUESTS

84. Please provide a draft Erosion and Sedimentation Control Plan that identifies all measures that will be implemented at various locations of the project during construction and operation of the proposed WEC. The plan must address the plant site, construction laydown area and all ancillary facilities.
 - a. The draft Erosion and Sedimentation Control Plan must identify all permanent and temporary BMPs in written form and depicted on a construction drawing(s) of appropriate scale to be employed to control water and wind related erosion and offsite sedimentation during construction and operation.
 - b. Any measures necessary to address federal or regional permits (i.e., Nationwide Permits, Streambed Alteration Agreements, or 401 Certification) as required, should be identified.

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- c. The plan must also identify maintenance and monitoring efforts for all erosion control measures.
- d. This plan must be consistent with the Erosion Control and Revegetation Plan as specified in the Biological Resource Mitigation Implementation and Monitoring Plan and the proposed Grading Plan.
- e. Please provide representative profiles and cross sections of areas that will be cut and filled, in relation to the proposed conceptual location of BMP's for erosion control during construction.
- f. Please provide a discussion of all assumptions, calculations, measures, and any other data or information that demonstrates the proposed plan will conform with the City of Turlock's Specifications and Design Standards.

Response:

a.-d. The ECP is included in Section 3.0 of the Administrative Draft Construction SWPPP for the WEC project. The Administrative Draft SWPPP is provided as Attachment SW-85a-1.

- 85. Please provide a draft Storm Water Pollution Prevention Plan (SWPPP) consistent with the requirements for a General Storm Water Construction Activity Permit for the proposed WEC.
 - a. The draft SWPPP shall identify all permanent and temporary BMPs in written form and depict conceptual locations in order to prevent or avoid contamination of stormwater.
 - b. The draft plan should also address the RWQCB's comments as applicable.
 - c. Various contaminant sources will be present at the site. Various chemicals used during operation, chemical cleaning and washwater wastes (containing high concentrations of metals) and other contaminants will be stored onsite, some in potable tanks or sumps (AFC, p. 2-14). Please show possible storage locations at the site and specify appropriate BMPs that will be used to prevent spills or leaks of contaminants and measures to be employed in the event of such an occurrence. Specifically address how stormwater that has come into contact with any contaminated materials will be collected, treated, and discharged.
 - d. Please discuss the design storm that will be used to calculate additional capacity required in the contained areas surrounding outside chemical storage areas (see Appendix 10F, pg. APP 10F-3).
 - e. During construction, it is possible that groundwater will be encountered (APP 10G-5). Please discuss dewatering activities/techniques that may be needed, including disposal of associated water.
 - f. Please address how any contaminated soil or groundwater that may be excavated or encountered during construction will be collected, treated, and discharged.

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- g. Please discuss the anticipated water quality of wastewater discharged during hydrostatic testing, anticipated disposal of this waste stream and any appropriate BMPs to ensure no discharge of contaminants to surface or groundwater will result from hydrostatic testing (p. 25 of Data Adequacy Response WR-5). Please confirm that there will be no offsite disposal of construction wastewater including hydrostatic testing wastewater.

Response:

a. The Administrative Draft SWPPP is provided as Attachment SW-85a-1. Due to the size of this document, five copies of the SWPPP are being furnished to staff. Electronic copies will be provided to others upon request.

f. Contaminated soil or groundwater that may be encountered is addressed in sections 3.3.3 and 3.3.4 of the Administrative Draft SWPPP (provided as Attachment SW-85-a-1).

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ATTACHMENT SW-85A-1

***Administrative Draft Construction Storm Water
Pollution Prevention Plan***

Five copies of Attachment SW-85A-1 Administrative Draft Construction Storm Water Pollution Prevention Plan were submitted to the California Energy Commission.