

Response to CEC Data Requests Set Two – No. A147

Amended Application for Certification
for
HYDROGEN ENERGY CALIFORNIA
(08-AFC-8A)
Kern County, California

Prepared for:
Hydrogen Energy California LLC



Submitted to:



**California Energy
Commission**



**U.S Department
of Energy**

California Energy Commission

**DOCKETED
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Prepared by:

URS

January 2013



**RESPONSE TO DATA REQUEST A147
FROM CALIFORNIA ENERGY COMMISSION (CEC)**

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LIST OF ACRONYMS AND ABBREVIATIONS USED IN RESPONSES

AFC	Application for Certification
ARSA	Archaeological Resources Study Area
BVWSD	Buena Vista Water Storage District
CEC	California Energy Commission

BACKGROUND

The proposed process water pipeline would extend through the vicinity of recorded sites P-15-89 (CA-KER-89/H), P-15-171 (CA-KER-171), P-15-179 (CA-KER-179), P-15-2485 (CA-KER-2485), P-15-6725, P-15-7176, P-15-13717,, HECA-2008-1 (JM-BVWD-1), HECA-2009-09, HECA-2009-10, BS-BVWD-1, BS-IF-001, BS-IF-002, BS-IF-003, BS-IF-005, JM-IF-001, JM-IF-004, KRM-IF-002, KRM-IF-003, KRM-IF-004, KRM-IF-005, KRM-IF-006, and KRM-IF-007. The Amended AFC states that the process water pipeline would be placed in fill sediments and that impacts on cultural resources would be negligible (Amended AFC Section 5.3, pp. 27–29). The Amended AFC, however, does not state its source of information regarding the depth of fill in the vicinity of these resources.

DATA REQUEST

A147. Provide more detailed engineering drawings, showing where exactly the process water pipes will be placed in cross-section of levee. Provide proof, such as historic documents or test results, demonstrating the depth of fill used to build the levee, thereby proving that the sites along the pipeline will be successfully avoided.

RESPONSE

The depth of levee fill in the vicinity of the archaeological resources identified within the Archaeological Resources Study Area (ARSA) as described in the Amended AFC as well as in the Archaeological Technical Report (Hale et al. 2012) submitted under confidential cover (Appendix G-3) to the CEC is summarized below in Table A147-1. The depth is estimated based on the surveyed elevation of the levee road and an estimated existing ground surface elevation.

Table A147-1
Depth of Levee Fill in Vicinity of Sites

Recorded Archaeological Sites in ARSA	Approximate Depth of Fill in Vicinity of Resources (feet)
HECA-2009-10	1.4 to 2.2
P-15-171 (CA-KER-171), HECA-2009-09	1.4 to 4.1
HECA-2008-1 (JM-BVWD-1)	1.9 to 2.5
P-15-179 (CA-KER-179)	2.2 to 2.8
BS-BVWD-1	1.2 to 2.6

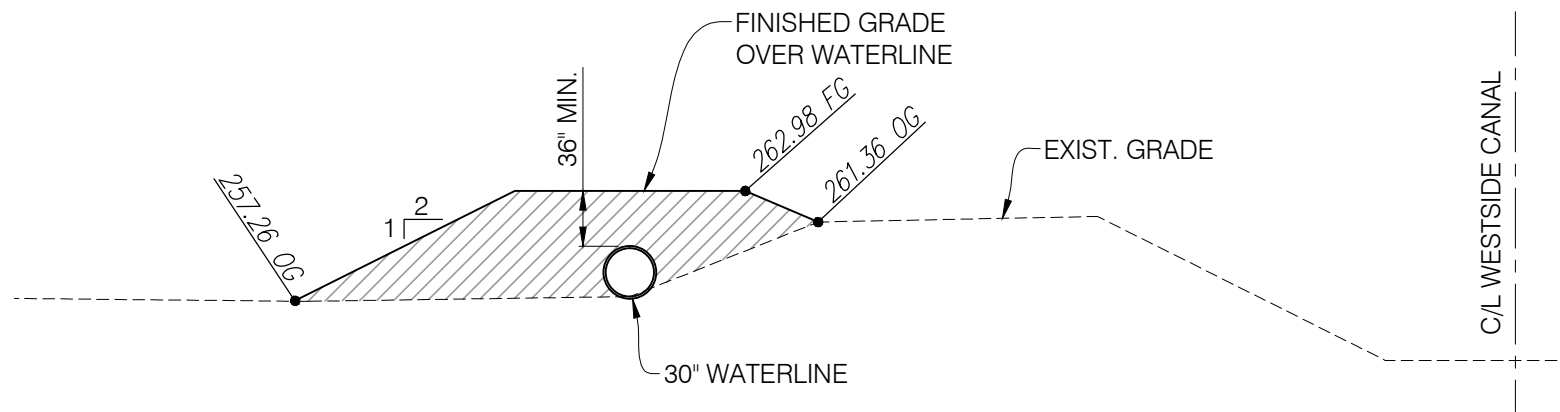
In the vicinity of these identified resources, the depth of the levee fill is insufficient to accommodate the pipe without excavating into the native soils. Therefore, the avoidance approach in these areas is to place the pipe adjacent to the levee above the existing ground surface and then place fill over the pipe. A typical section showing the pipeline installation proposed for these areas is provided on Figure A147-1.

Archaeological resources listed in the Data Request and not included in the table above are either not located in the ARSA (i.e., P-15-89/H, -2485, and -6725) or are isolated finds (i.e., P-15-7176, BS-IF-001, -002, -003, -005, JM-IF-001, -004, KRM-IF-002, -003, -004, -005, -006,


and -007) that do not require further treatment. A remaining resource, P-15-13717 is a section of the West Side canal and is not an archaeological resource.

For the remainder of the pipeline installation, BVWSD will install the pipeline within the existing levee road fill.

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Source:
Meyer Civil Engineering, Inc., 2013.

 Fill over waterline

Notes:
1. Based on preliminary design, not for construction.
2. Conceptual plan for pipeline installation to avoid potentially sensitive areas.

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FEET

BVWSD PROCESS WATER PIPELINE TYPICAL SECTION

January 2013
28068052

Hydrogen Energy California (HECA)
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FIGURE A147-1



**BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT
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**AMENDED APPLICATION FOR CERTIFICATION
FOR THE HYDROGEN ENERGY
CALIFORNIA PROJECT**

**Docket No. 08-AFC-08A
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(Revised 12/24/12)**

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DECLARATION OF SERVICE

I, Dale Shileikis, declare that on January 31, 2013, I served and filed copies of the attached Response to CEC Data Requests Set Two – No. A147, dated January, 2013. This document is accompanied by the most recent Proof of Service list, which I copied from the web page for this project at:
http://www.energy.ca.gov/sitingcases/hydrogen_energy/index.html.

The document has been sent to the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission's Docket Unit, as appropriate, in the following manner:

(Check one)

For service to all other parties and filing with the Docket Unit at the Energy Commission:

- X I e-mailed the document to all e-mail addresses on the Service List above and personally delivered it or deposited it in the US mail with first class postage to those parties noted above as "hard copy required"; **OR**
- Instead of e-mailing the document, I personally delivered it or deposited it in the US mail with first class postage to all of the persons on the Service List for whom a mailing address is given.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct, and that I am over the age of 18 years.

Dated: 1/31/13