



California Energy Commission

DOCKETED
12-AFC-02

TN # 68847

DEC. 11 2012

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December 11, 2012

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VIA EMAIL

Ms. Felicia Miller, Siting Project Manager
California Energy Commission
1516 Ninth Street
Sacramento, CA 95814

Re: Huntington Beach Energy Project (12-AFC-02)
Applicant's Responses to Supplemental Data Response #36 (Cultural Resources)

Dear Ms. Miller:

On November 13, 2012, Applicant AES Southland Development, LLC received a request from California Energy Commission Staff, Gabriel Roark, for supplemental Cultural Resources information as such relates to the Application for Certification for the Huntington Beach Energy Project. Specifically, Mr. Roark requested additional data related to Data Request #36. Applicant's response to Supplemental Data Request #36 (or CUL-36) is enclosed herein for docketing. The method of service of this data to all parties is presented in the enclosed proof of service.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read "Melissa A. Foster".

Melissa A. Foster

MAF:jmw

Enclosure

cc: Proof of Service List

Supplemental Data Response to Cultural Resources #36

BACKGROUND

E-mail from Gabriel Roark, California Energy Commission, to Felicia Miller, California Energy Commission, dated, November 13, 2012 (2:27 PM).

SUPPLEMENTAL DATA REQUEST

1. Here are my remaining questions concerning HBEP. They all center around the issue of depth of excavation and fill on the project site.

The applicant's response to Data Request (DR) 36 does not include the following:

- a. Depth of excavation proposed for the relocated gas metering station.
- b. Depth of excavation for bare conductors and ground rods.
- c. Depth of excavation for the ammonia tank.
- d. Depth of excavation for the spill containment basin.
- e. Depth of excavation for the refilling station.

Response:

Attached Table DR36-3- provides the proposed excavation and fill depths for construction of HBEP. Excavations depths for various areas within the HBEP are proposed as follows:

- a. The relocated gas metering station, an 82- by 108-foot area will require excavations at a depth of 3.5 feet below existing grade.
- b. The grounding perimeter cable will be laid down adjacent to the new structure at a depth of approximately 2 to 3 feet below final grade. The ground rods will be driven to depths of approximately 20 feet.
- c. The ammonia tank will be located within the ammonia spill containment basin area and no separate excavations will be performed.
- d. Excavation depth of the ammonia tank spill containment basin, an area that measures 18 by 38 feet, is proposed at 5 feet below existing grade. The ammonia tank will be installed within the spill containment basin.
- e. The ammonia refilling station is located in conjunction with the ammonia tank and ammonia spill containment basin. As shown on the attached table, the excavation depth for the ammonia tank refilling station, an area that measures 12x56 feet, is proposed at 6 feet below existing grade.

TABLE DR36-3

Depth of Excavation and Fill at Project Site

| Project Feature | Area (ft by ft) | Maximum Excavation Required (ft) | Existing Grade (FASL) | Top of Final Foundation Elevation (FASL) | Excavation Depth below Existing Grade (ft) |
|--------------------------------------|----------------------------|---|----------------------------------|---|---|
| Relocated Gas Metering Station | 82 by 108 | 3 | 10 | 9.5 | -3.5 |
| Ammonia Tank Spill Containment Basin | 18 x 38 | 5 | 12 | 12 | -5 |
| Ammonia Tank Refilling Station | 12 x 56 | 6 | 12 | 12 | -6 |
| Perimeter Grounding Cable | See Table Notes | See Table Notes | See Table Notes | See Table Notes | See Table Notes |
| Grounding Rods | 0.75-inch diameter | See Table Notes | See Table Notes | See Table Notes | See Table Notes |

Notes :

It is foreseen that the grounding perimeter cable will be laid down adjacent to the new structures at a depth of approximately 2 to 3 feet from final grade. This cable will then be backfilled along with its associated surrounding structure. The perimeter cable will be connected to steel structures and foundation rebar.

It is foreseen that grounding rods will be driven to a depth of approximately 20 feet. These 0.75-inch-diameter rods will be driven such that they are in contact with the soil. The number and spacing of the rods depends on available fault current, soil resistivity, and other factors. The number and spacing of the rods will be determined at the detailed design stage of the project.

**Attachment CUL-36-1
E-mail from G. Roark, California Energy
Commission**

From: Roark, Gabriel@Energy
Sent: Tuesday, November 13, 2012 2:27 PM
To: Miller, Felicia@Energy
Subject: HBEP Cultural Resource Questions

Felicia,

Here are my remaining questions concerning HBEP. They all center around the issue of depth of excavation and fill on the project site.

1. The applicant's response to Data Request (DR) 36 does not include the following.
 - a. Depth of excavation proposed for the relocated gas metering station.
 - b. Depth of excavation for bare conductors and ground rods.
 - c. Depth of excavation for the ammonia tank.
 - d. Depth of excavation for the spill containment basin.
 - e. Depth of excavation for the refilling station.

Thanks,

Gabriel

Gabriel Roark, M.A.
Energy Planner II, Cultural Resources Unit
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California Energy Commission
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BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT
COMMISSION OF THE STATE OF CALIFORNIA
1516 NINTH STREET, SACRAMENTO, CA 95814
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**APPLICATION FOR CERTIFICATION FOR THE
HUNTINGTON BEACH ENERGY PROJECT**

Docket No. 12-AFC-02
(Revised 10/08/12)

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*indicates change

72538013.1 0043653-00005

DECLARATION OF SERVICE

I, Judith M. Warmuth, declare that on December 11, 2012, I served and filed a copy of the attached **Applicant's Responses to Supplemental Data Response #36 (Cultural Resources)** dated December 11, 2012. This document is accompanied by the most recent Proof of Service list, located on the web page for this project at: http://www.energy.ca.gov/sitingcases/huntington_beach_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 or Chief Counsel, as appropriate, in the following manner:

(Check all that Apply)

For service to all other parties:

- Served electronically to all e-mail addresses on the Proof of Service list;
- Served by delivering on this date, either personally, or for mailing with the U.S. Postal Service with first-class postage thereon fully prepaid, to the name and address of the person served, for mailing that same day in the ordinary course of business; that the envelope was sealed and placed for collection and mailing on that date to those addresses marked **"hard copy required"** or where no e-mail address is provided.

AND

For filing with the Docket Unit at the Energy Commission:

- by sending one electronic copy to the e-mail address below (preferred method) to the Docket Unit; **OR**
- by depositing an original and 12 paper copies in the mail with the U.S. Postal Service with first class postage thereon fully prepaid, as follows:

CALIFORNIA ENERGY COMMISSION – DOCKET UNIT


Attn: Docket No. 12-AFC-02
1516 Ninth Street, MS-4
Sacramento, CA 95814-5512
docket@energy.ca.gov

OR, if filing a Petition for Reconsideration of Decision or Order pursuant to Title 20, § 1720:

- Served by delivering on this date one electronic copy by e-mail, and an original paper copy to the Chief Counsel at the following address, either personally, or for mailing with the U.S. Postal Service with first class postage thereon fully prepaid:

California Energy Commission
Michael J. Levy, Chief Counsel
1516 Ninth Street MS-14
Sacramento, CA 95814
michael.levy@energy.ca.gov

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct, that I am employed in the county where this mailing occurred, and that I am over the age of 18 years and not a party to the proceeding.



JUDITH M. WARMUTH