

From: Jacobson, Erik B (RegRel)
Sent: 7/24/2014 10:07:13 AM
To: Lok, Ronald E. (ronald.lok@cpuc.ca.gov)
Cc: Tse, Rick (rick.tse@cpuc.ca.gov)
Bcc:
Subject: RE: Kern Power Plant - Demolition Charge Location Diagrams

Ron,

This email provides the clarifications and supporting documentation you requested. Some of the photos will be sent to you by Exponent via the FTP site.

Thanks,

Erik

1. **(7/15/2014) The Exponent diagram shows "kicker" charges, but the Demtech diagram does not show any "kicker charges. Additionally, Demtech's "Explosive Demolition Plan" in Item 1.A (Explosive Materials to be Used), does not list a kicker explosive charge to be used.**

(7/19/2014) Exponent's charge locations as shown in our protocol are based on photographs of the charge placements prior to blasting, discussion with PG&E personnel who witnessed placement of the charges, and review of the video coverage of the explosions. We believe that for reasons unknown the blasting subcontractor modified their explosive demolition design subsequent to the preparation of their plan. Based on the totality of the information we have received to date, we believe the charge locations as shown in our protocol are accurate.

(7/21/2014) CPUC Response to Exponent's Comment: The attached photograph does not show "kicker" charges but Exponent states that they have photographs that show the "kicker" charges.

Exponent is requested to submit photographs showing the existence of the "kicker" charges on the first and second row columns.

(7/23/2014) Please find below two annotated example photos illustrating kicker charges placed on columns at the Kern site: (i) Photo 1 is an overall photo with red arrows pointing to the yellow, cylindrical "kicker" charges that were placed on columns. Please note that we did not see any photos with kicker charges on Column Rows 5 and 6; and (ii) Photo 2 is also provided below showing a close-up of one of the "kicker" configurations. This photo shows both linear shape charges and "kicker" charges. We did not see the "kicker" charges installed near the shape charges at the top of the columns.

Exponent has also made photos received from William Hicks available via secure FTP download.

PHOTO 1: *Overall view of columns including shape charges and "kicker" charges (photo taken looking East)*

PHOTO 2: *Close up view of kicker charge configuration on columns. Column is located on Row 7-1/8. Photo is taken looking East.*

2. (7/15/2014) An LSC (Linear Shape Charge) is shown on column's 5 & 6 (third row) of Demtech's diagram, but missing from Exponent's Diagram..

(7/19/2014) Exponent's charge locations as shown in our protocol are based on photographs of the charge placements prior to blasting, discussion with PG&E personnel who witnessed placement of the charges, and review of the video coverage of the explosions. We believe that for reasons unknown the blasting subcontractor modified their explosive demolition design subsequent to the preparation of their plan. Columns on lines 5 and 6 are currently exposed in the post-demolition condition. There is no evidence of linear shape charges on these columns. Based on the totality of the information we have received to date, we believe the charge locations as shown in our protocol are accurate.

(7/21/2014) CPUC Response to Exponent's Comment: The attached photograph does not show "kicker" charges but Exponent states that they have photographs that show the "kicker" charges.

Exponent is requested to submit photographs showing the existence of the "kicker" charges on the first and second row columns.

(7/23/2014) The previously attached photo did not appear to be from the subject implosion site in Kern County. Exponent believes that this photo was likely taken from an implosion of a similar boiler.

Exponent has also made photos received from William Hicks available via secure FTP download.

3. (7/15/2014) The LSC charges are shown at the top elevation of columns 7-1/8 and 3-7/8 (second row) on Exponents Diagram, but shown on the middle (lower) elevation on Demtech's Demo Diagram. Demtech diagram shows these charges to be plus/minus 10 feet from the base for these two columns (second row), and plus/minus 18 feet for columns 2 3/4 & 8 1/4 (first row).

(7/19/2014) Exponent's charge locations as shown in our protocol are based on

photographs of the charge placements prior to blasting, discussion with PG&E personnel who witnessed placement of the charges, and review of the video coverage of the explosions. We believe that for reasons unknown the blasting subcontractor modified their explosive demolition design subsequent to the preparation of their plan. Based on the totality of the information we have received to date, we believe the charge locations as shown in our protocol are accurate.

(7/21/2014)CPUC Response to Exponent's Comment: The attached photograph shows that the second row charges are located at the same elevation as the first row columns. This agrees with your response.

Exponent is requested to submit additional photographs showing the charge locations for the first and second row columns.

(7/23/2014) Exponent has also made photos received from William Hicks available via secure FTP download.