

## Exponent Photo Log: December 5, 2013

Exhibit	Exponent Photos**	Description	Approximate Thickness (in)
5	486-496	Large steel piece	1.346
7	475-478	Segment of reinforcing steel	N/M
8	479-480, 483-485	Small steel piece	0.71
8a	479-480, 483-485	Rivet fragment	N/M
9	453-462	Large steel piece	0.844
10	443-452	Large steel piece	1.41
11	430-438	Wide flange section with rivets <b>(not collected)</b>	N/M
13	130-146	Large steel piece and bolt fragment	0.831
14	108,119-129	Large steel piece	N/M
15	108-119	Large steel piece	0.857
16	095-107	Large steel piece	1.324
17	072, 074-084, 088-091	Large steel piece	0.892
17a	083, 085-087, 089, 092-094	Small steel piece next to 17	N/M
18	057-071	Large steel piece	0.898
18a	147-148, 159-162	Bolt fragment	0.701
19	282-285	Plywood	N/M
20a	193-202, 206, 213-218	Large steel piece	0.842
20b	193-197, 201-209, 219-221	Large steel piece	1.279
20c	193-197, 206-209, 222-225	Large steel piece	1.304
20d	193-197, 210-212, 226-228	Small steel piece	1.039
20e	229-232	Small copper piece	N/M
21	182-187, 189-190	Small steel piece	0.46
21a	182, 188, 191-192	Plywood	N/M
22	168-181	Large steel piece	1.348
23	309-313, 317-319	Large steel piece	1.278
23a	314-316, 320-321	Small steel piece	0.619
24	304-308	Plywood	N/M
25	402-407	Small copper piece	0.066
26	370-376	Small steel piece	0.767
27	377-379	Plywood	N/M
28	361-368	Small steel piece	0.851
29	353-360	Large steel piece	0.888
30	346-352	Small steel piece	1.278
A	414-429	Very large steel piece	1.05
B	463-469	Large steel piece	0.253
C	409-413	Rivet fragment	1.049
D	163-167	Bolt fragment	0.727
F	149-151, 155-156	Bolt fragment	0.721
G	152-158	Bolt fragment	0.72
H	408	Spoon and glove <b>(not collected)</b>	N/A

\*\*All Exponent photos taken on Dec. 5th, 2013 use the format "1305871\_A0T0\_20131205\_KH\_XXX.JPG" where XXX is a sequential number. All photos taken by Kaveh Hosseini.

Exhibit	Exponent Photos **	Description	Approximate Thickness (in)
I	401	Spoon <b>(not collected)</b>	N/A
J	400	Spoon <b>(not collected)</b>	N/A
K	399	Spoon <b>(not collected)</b>	N/A
L	335-336	Spoon <b>(not collected)</b>	N/A
M	337-339	Plywood	N/M
N	340-345	Small steel piece	0.478
O	328-334	Small steel piece	0.798
P		Marks on Lowes parking lot	N/A
Q		Marks on Lowes parking lot	N/A
R		Marks on Lowes parking lot	N/A
T		Marks on Lowes parking lot	N/A
U		Marks on Lowes parking lot	N/A
V	470-472	Hole in the ground.	N/A
W	473-474	Lid with concrete infill.	N/A
Y	286-289, 291-295	Large steel piece	1.29
Ya	287, 290-291	Plywood	N/M
Z	322-327	Small steel piece	0.836
AA	296-303	Small steel piece	0.563
AB	244-249	Small steel piece	0.965
AC	250-255	Small steel piece	1.508
AD	263-274, 276, 278-279, 281	Small steel piece	0.348
AE	270-273, 275, 277-278, 280-281	Small steel piece	0.938
AF	233-243	Bolt fragment	

*It is Exponent's understanding that CalOSHA'S chief investigator, Sr. Safety Engineer Steve Honjio, intended to weigh and measure the pieces of evidence as they were collected in the field and that CalOSHA would provide a scale for that purpose on the day of collection. Exponent was to observe and document those measurements. The evidence was neither weighed nor measured in the field during collection as had been originally discussed. In part, this was due to large and unwieldy pieces of irregular shape, making field measurement and weighing difficult and very time-consuming. It was suggested by Mr. Honjio of CalOSHA that the weighing and measuring process would be more efficiently completed after the evidence was collected and performed off-site. It is our understanding that PG&E intends to access the evidence to measure and weigh the pieces in the near future, after giving notice of its intention and proposed processes to all interested parties. CalOSHA has endorsed the proposed measurement process described below.*

*PG&E and Exponent propose to arrange each piece upon a grid of a known scale, and to photograph the piece from above. Exponent proposes that the pieces will be weighted using an appropriate scale and record the weights. It is important to note that all of the evidence was exposed to the elements for several months after the implosion event, and certain pieces (especially wood) may have gained or lost weight due to moisture and other elements since the event and their weights might have been affected. Virtually all of the pieces collected in the field have some amount of rust, sand, and soil due to exposure to rain and the surrounding environment prior to collection. Exponent will not attempt to dislodge all of this rust, soil, and sand while taking measurements, although merely handling the samples will cause some of this material to become dislodged.*

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