UNIVERSAL ENGINEERING INCORPORATED

December 10, 1987

Pacific Gas & Electric Company
San Francisco, CA

Subject: Tank Closure - Spec #709

Attn: Marty Hunt

UNDERGROUND TANK CLOSURE PLAN

Please consider this document a Proposed Closure Plan for the removal of 6 underground storage tanks, with associated piping. The tanks are located at Pacific Gas and Electric Company's Colisium Way and Peralta St., Gas and Fleet Services Garage; the tanks were used to store oil and diesel gasoline.

Tank Owner: Pacific Gas and Electric Company
~~Treat~~ Avenue ~~Service Center~~ 2121 Peralta & 4930 Colisium Way
~~536 Treat~~ Avenue
San ~~Francisco~~, ~~CA~~ ~~94107~~ Oakland, CA

A) Projected Closure Date: 12-31-87 (Dates are conditional upon Closure Plan approval from your department and weather conditions)

B) Number of Tanks: Six (6)
Size of Tanks: 4 - 500 Gallon; 1 - 1000 Gallon; 1 - 1200 Gallon
4930 Colisium Way / 2121 Peralta

C) Material Stored: Diesel, gasoline and oil

D) Tank Type (material): Assumed steel

E) Present Contents: Diesel and gasoline

All material will be removed prior to tank removal by Universal Engineering, Benicia, California, EPA #CAT080013469. Material, if any, will be manifested on-site and transported by a registered hazardous waste hauler to an appropriate licensed hazardous waste disposal facility. Disposal facility is Gibson Oil Refining, Bakersfield, California, EPA #CAD980883177.

F) All vapors will be purged from tanks 1-hour prior to removal and when transported by using 15 pounds carbon dioxide (dry ice) per 1000 gallon tank capacity.

G) Tanks and associated piping will be removed by Universal Engineering. Piping will be stockpiled on-site prior to disposal.

H) Tanks and associated piping will be transported and/or decontaminated by Universal Engineering. It is then transported to Commercial Tank - Fresno, CA for scrapping.

I) Clean excavated material will be stockpiled on-site for use in backfilling the excavation.

J) Upon the removal of each tank and its associated piping, soil samples will be taken by IT Corporation - Martinez, CA or Multi-Tech - Santa Rosa, CA.

The following procedures will be used in the removal of the subject tank and associated piping.

1) Visual inspection of the tank and associated piping upon removal. All external tank surfaces, fittings and associated piping shall be inspected for evidence of holes or leakage. The results of such inspection shall be documented in writing, with photographs where appropriate.

2) Visual inspection of excavation. Surfaces shall be inspected for evidence product, etc. The results of such inspection shall be documented in writing, with photographs where appropriate.

3) Two soil samples shall be analyzed from beneath the tank, one from directly beneath the fill pipe, the other from a similar position at the opposite end of the tank. In addition, a separate sample shall be taken for every 20 lineal feet of trench for piping. If obviously stained or contaminated areas exist in locations other than the above locations, we may elect to remove the material and dispose of as a hazardous waste.

4) Soil samples shall be collected from the native soil at or just below the interface of the backfill with the native soil. Samples shall be taken using a driven-tube type sampler, capped and sealed with inert materials, and extruded in the lab in order to reduce the loss of volatile materials. Formal, signed chain-of-custody records shall be maintained for each sample and submitted with the results to Pacific Gas and Electric Company.

- Immediately upon removal of the tank, a backhoe bucket of native soil/backfill interface. This soil shall be rapidly brought to the surface.

- Approximately three inches be rapidly scraped away from the surface of this soil, then a clean brass tube (at least three inches long) shall be driven in the soil with a suitable instrument (wooden mallet, etc.).

- Samples shall be taken in the piping trench by hand driving a clean brass liner (at least three inches long) into the soil, with a suitable instrument (wooden mallet, etc.), every 20 lineal feet of trench.

- The samples shall be immediately placed on ice or dry ice and transported to a laboratory. Again, formal chain-of-custody records shall be maintained for each sample.

SAMPLING METHOD TO BE USED.

5) If the bottom of the tank or associated piping is below the ground table then soil samples are not required. In this case, a water sample shall be collected as soon as possible form the surface of the groundwater in the excavation. A check shall initially be made for any free floating product. If no floating product is detected, then a water sample shall be taken with a suitable sampling device. The water sample shall be immediately poured into a volatile organic analysis (VOA) vial with as little agitation as possible. A Teflon septum shall be used to seal the vial.

6) Soil and water samples shall be analyzed for total hydrocarbons by the methods outlined in California Water Quality Control Board's "Guidelines for Addressing Fuel Leaks", Attachment 2, Analytical Methods, printed April, 1985 and Guidelines for Removal of Underground Waste Oil Tanks dated 02-26-87.

7) Samples will immediately be transported in an ice pack to IT Corporation Lab or to Multi-Tech Laboratory.

If additional information is required, please contact:

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