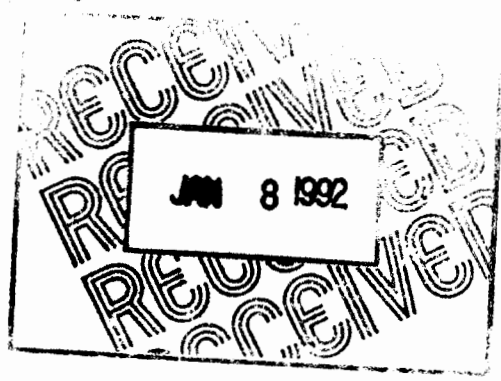


Marc S.



High Energy Laser Systems Test Facility
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91-0593
31 December 1991



Deputy Commander
U.S. Army Strategic Defense Command
ATTN: CSSD-HD-P (Mr. Wright, COR)
White Sands Missile Range, NM 88002-5148

SUBJECT: Contract No. DAAD07-87-C-0013, WAO OS-75, HTTS
Closure Activities Progress Report #3

Dear Mr. Wright:

As per NMED Requirements for the Closure of the HELSTF Tank Treatment System (HTTS), the attached is a report on the closure activities. The HTTS Closure Plan requires a progress report every 30 days from the start of the closure which began on 1 October 1991. This progress report includes major activities from 28 November to the current date. Additional reports and information resulting from these activities will be forwarded as they become available.

Unless otherwise directed, this and future progress reports will be sent to your attention and an informal copy mailed to NMED. Copies will also be furnished to all HTTS parties to ensure compliance and communicate on the closure.

If you have any questions or require additional information, please contact D. Shearer at (505) 679-5971 or J. Giblin at (505) 679-5928.


R. S. Sadler
HELSTF Program Manager

Attachment: a/s

- cc: D. Sutton (STEWS-PR-MA)
- Col. R. Knox (CSSD-HD)
- L. Brown (CSSD-HD-C)
- H. Orr (STEWS-EL-N) Fax 678-4028
- D. Bell (STEWS-EL-P) Fax 678-7665
- M. Sides (NMED) Fax 827-4361
- D. Shearer (LESC)
- J. Giblin (LESC)

CLOSURE PROGRESS REPORT #3

FOR THE

HELSTF TANK TREATMENT SYSTEM

HIGH ENERGY LASER SYSTEM TEST FACILITY
US ARMY WHITE SANDS MISSILE RANGE

December 27, 1991

Submitted by Lockheed Environmental, HELSTF
for US Army, White Sand Missile Range

December 3

Lockheed Environmental completed the final inspection of the HTTS tanks and verbally notified Mr. Sides, NMED. Lockheed indicated expected schedule dates for cleaning and sampling the tanks and drain line and asked whether NMED would be present.

December 4

Lockheed Environmental provided written notification to NMED, WSMR and SDC of completion of tank inspection and of 10 days advance of intent to sample rinse from the steam cleaning the tanks.

December 5

Lockheed worked to perform cleaning (triple steam/rinse) of the interior surfaces of the HTTS tanks.

December 6

Lockheed Environmental spoke with Mr. Sides, NMED, and determined that NMED would not be present for sampling of rinse from the steam cleaning of tanks. In discussion of sample requirements it was determined that in view of the previous analytical findings, the analysis of tank rinse need only look for volatiles and metals.

Steam cleaning continued on the interior surfaces of the HTTS tanks. WSMR photography was on site to document work. Lockheed Environmental wrote a Service Request to cut concrete cores (samples) from walls and floor of each tanks.

December 9

Lockheed Environmental took samples of the rinse water from the steam cleaning of the walls and floors of east and west tanks. A purchase order was placed to obtain the bits for coring (sampling) of the concrete.

December 10

Lockheed Environmental notified NMED of sampling of the rinse. Mr. Sides indicated that NMED would not be present for the drain line cleaning or sampling.

December 9 to 13

During this period, Lockheed welded and plumbed in a heat exchanger

and clean water tank at the Cleaning Facility, made 5000 gallons of de-ionized water, and heated the water to clean the drain line.

December 13 through 23

During this period Lockheed worked to clean the drainline and sample the concrete, but both operations were delayed by heavy rains. Manpower and coring equipment was available, but Lockheed was unable to core the concrete because of the electrical hazard of the water (several inches) in the HTTS tanks. Lockheed set up and operated a generator and water pump to remove the water from the east tank.

During the drain line cleaning operations, Lockheed Environmental took periodic samples of the rinse water for screening analysis. These were analyzed by the HELSTF laboratory (inorganics only) and by the ARMTE Laboratory (for inorganics and volatiles).

December 13

Lockheed began cleaning the hazardous waste drain line from the Cleaning Facility to the HTTS Tanks and took a screening sample for analysis. WSMR photography documented the activity. Inorganic analysis of the rinse found less than 0.01 ppm of Chrome.

December 16

Lockheed continued cleaning and took sample.

December 17

Screen analysis of a second rinse sample for organics found approximately 10 ppm of Trichloroethane (TCA) and 10-15 ppm of 1,1,2-Dichloroethene (DCE).

December 18

Lockheed continued cleaning. Sample analysis showed less than 5 ppm of TCA and less than 5 ppm of DCE in the rinse water. Also low concentrations (less than 0.1 ppm each) of methyl chloride, toluene, and ethyl benzene were noted in the intake and effluent rinse water.

December 19 and 20

Cleaning continued. Screen analyses showed 0.3 to 0.44 ppm TCA and 0.12 to 0.8 ppm DCE in the rinse effluent. Analysis also indicated up to 0.3 ppm of toluene and up to 0.05 ppm of ethyl benzene in the intake and effluent water. Set up nitrogen purge to dry pipeline over weekend.

December 20-22

Heavy rains over weekend added to water in HTTS tanks and made area difficult to drive and work in.

December 23

Lockheed performed final rinsing and took sample. Screening analyses of the rinse showed only 50 ppb of DCE and less than 10 ppb of total Chrome. Only 10 ppb of ethyl benzene was found in the intake and effluent waters. Lockheed took and shipped samples of

the rinse water from the drain line cleaning for the Appendix IX analysis.

December 24

Lockheed Environmental informed analytical laboratory of shipment and requested rush status for volatiles and inorganics analysis. Lockheed continued to pump water from east tank, but little progress in removing water.

December 26-27

Lockheed Environmental took samples of standing water in west tank for analysis by ARMTE. Lockheed continued to pump water from east tank, pumping stopped midday due to equipment break down.

UPCOMING HTTS ACTIVITIES

December 30 - January 2 - core sampling of concrete walls and floors of HTTS tanks.