

TA 03

Dhawan, Neelam, NMENV

From: Dhawan, Neelam, NMENV
Sent: Wednesday, October 31, 2007 11:28 AM
To: 'Linda Nonno'
Subject: RE: Re: neutralization tank

Linda
 Thx for the information.
 I concur this site is appropriate for NFA.
 Call me if you have any questions.
 neelam



Neelam Dhawan
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From: Linda Nonno [mailto:lnonno@lanl.gov]
Sent: Tuesday, October 02, 2007 10:05 AM
To: Dhawan, Neelam, NMENV
Cc: sherrard@lanl.gov
Subject: Fwd: Re: neutralization tank

Hi Neelam!

Below please find the additional information you requested to address your concerns about the SWMU 03-046 Environmental Tank. I will check back with you in a few days to see if this meets your needs or if you have additional concerns. If this information is all that you need, we'll need to discuss how you want to proceed.

Hope all is going well with you.

Linda

Date: Mon, 01 Oct 2007 14:54:05 -0600
 To: "Linda M. Nonno" <lnonno@lanl.gov>
 From: Ann Sherrard <sherrard@lanl.gov>
 Subject: Fwd: Re: neutralization tank
 Cc: kmv@lanl.gov
 X-CTN-5-MailScanner-Information: Please see <http://network.lanl.gov/email/virus-scan.php>
 X-CTN-5-MailScanner: Found to be clean
 X-CTN-5-MailScanner-From: sherrard@lanl.gov
 X-Spam-Status: No

30094



Linda

Below are the responses to the questions that Neelem asked about the TA-3 neutralization (environmental tank).

Let me know if you need additional information.

Thanks

Ann

NPDES-Permit Status: According to the August, 1990, Investigation Report of the Accidental Release of Sulfuric Acid at TA-3-22, May 19 - 21, 1990, the neutralization tank was installed in 1979 with an associated acid feed tank. This system was designed to comply with the 6-9 pH requirements in the first (September 13, 1978) LANL National Pollutant Discharge Elimination System (NPDES) permit. The neutralization tank began operation in 1980 (1990 SWMU Report). The tank has been covered by the NPDES permit since its installation.

Uncontrolled Release: The "uncontrolled releases" discussed in documentation previously submitted for this SWMU refers to the May 20-May 21, 1990, release of approximately 1000-1400 gallons of sulfuric acid from the effluent treatment system's acid tank into the neutralization tank. When the neutralization tank was full of the acidified water, it discharged, as designed, to the outfall (SWMU 03-012(b)-00). The acid leaking into the neutralization tank caused the discharged wastewater to violate the NPDES pH limit of 6-9 at the outfall. However, there was no release at the neutralization tank location (SWMU 03-046).

Chromium: The best documentation of the chemicals used for water treatment at the TA-3 steam plant prior to and after the neutralization tank installation are the NPDES permit applications. None of the treatment chemicals specified in the NPDES permit application contains chromium. The 1976 NPDES permit application for the TA-3 boilers states: "No chromate treatment. Chromate treatment used until about 1972." Based on this information, there has been no use of chromium-containing water treatment chemicals during the lifetime of the neutralization tank.

Neutralization Tank Site Releases: There are no documented environmental releases at the neutralization tank location. The tank is surrounded by a 14.6 foot x 14.6 foot x 12 foot (17,600 gallon)

concrete secondary containment area to ensure that releases to the environment at the tank location will not occur.

Inspections: Monthly and quarterly inspections were instituted as part Stormwater Pollution Prevention Plans (SWPPPs) required for the facility starting in 1993. The inspections were initially monthly but were later changed to quarterly after the monthly inspections showed that problems did not occur on that time scale. These inspections record the condition of the tank and secondary containment and repairs, if any, that are needed. Daily inspections of the neutralization tank began after the 1990 outfall release to check the pH in the neutralization tank before each discharge. Any malfunction of the tank would be noted during these checks.

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