



Monzeglio, Hope, NMENV

From: Chavez, Carl J, EMNRD
Sent: Wednesday, September 20, 2006 1:36 PM
To: Jim Lieb
Cc: Price, Wayne, EMNRD; Powell, Brandon, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV; Steve Morris; Ed Rios; eriege@giant.com; rschmaltz@giant.com; Rector, Joshua M, DGF
Subject: RE: Ciniza Refinery Water Flow Meter Final Engineering Design
Attachments: Chavez, Carl J, EMNRD.vcf

Jim:

Good afternoon. I spoke to Mr. Rector on September 11, 2006, and he said that he had spoken to you about the proposed sonic foul deterrent device you had proposed to the Oil Conservation Division stemming from the OCD's netting requirement. Mr. Rector provided a local NM Game & Fish contact in the Gallup area and his name is Mr. Mark Bundren at (505) 476-7777. Mr. Bundren may be able to offer some tips or advice for deterring foul from landing in ponds at the refinery. He also mentioned that the Federal US Fish & Wildlife Service may have some tips or advice on deterring foul.

The OCD is amenable to any Giant proposal to deter foul from landing in its refinery ponds, especially ponds located closest to the treatment system, but if the installed system does not work, Giant will need to report it to the OCD. This will provide the demonstration needed for the OCD to conclude whether the system is working. In addition, the OCD advises Giant to report any occurrences where foul land in ponds or refinery facilities and expire to the Federal US Fish and Wildlife Service after becoming aware of the situation in order for a proper investigation to be conducted. Giant should also consider contacting the US Fish & Wildlife Service to learn about any penalties that could be imposed if foul expire from contact with hazardous chemicals.

Please contact me if you have questions. Thank you.

Carl J. Chavez, CHMM
 New Mexico Energy, Minerals & Natural Resources Dept.
 Oil Conservation Division, Environmental Bureau
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 (Pollution Prevention Guidance is under "Publications")

From: Jim Lieb [mailto:jlieb@giant.com]
Sent: Thursday, August 31, 2006 1:44 PM
To: Chavez, Carl J, EMNRD
Cc: Monzeglio, Hope, NMENV; Powell, Brandon, EMNRD; Cote Edward L.; Ed Riege; Steve Morris
Subject: RE: Ciniza Refinery Water Flow Meter Final Engineering Design

Carl:

Ciniza's responses to your comments:

1) The pipe from aeration lagoon #1 to evaporation pond #1 is an emergency overflow only and not a "bypass". As OCD suggested, we had a skimmer device built and installed on that overflow in lagoon #1. There are two transfer pipes that carry water from lagoon #1 to lagoon #2. The second pipe was installed about ten years ago to help insure there would be no overflow across the berm separation from lagoon #1 to evaporation pond #1.

2) Ciniza agrees to change FM-4 location to "Boiler Plant to EP2"

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3) Ciniza is working with our engineering consultant HRC to ensure the flume and meters are sized adequately to handle maximum anticipated flows.

Ciniza Refinery appreciates your comments and assistance with suggestions for improvements with the BOD/Phenol study including the flow meters installation.

For your information, I will be out of the office all next week.

By the way, I re-contacted Josh Rector at the NM Game & Fish Department regarding the sonic bird repeller device for our evaporation ponds but he has not replied yet.

Sincerely,

Jim Lieb

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]

Sent: Thursday, August 31, 2006 9:33 AM

To: Jim Lieb; Ed Riege

Cc: Price, Wayne, EMNRD; Powell, Brandon, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV

Subject: Ciniza Refinery Water Flow Meter Final Engineering Design

Jim:

The OCD has completed its preliminary review of the water flow meter design. The supporting information provided was very helpful. OCD comments are provided below:

- 1) From past meetings and discussions with Giant, the OCD learned that aeration lagoon 1 (AL1) will flow directly into evaporation pond 1 (EP1) effectively bypassing aeration lagoon 2. Shouldn't the bypass from AL1 to EP1 be removed as this will change the results of the treatment system study? If Giant would like to keep the bypass, then another flow meter may be needed to monitor the flow rate between AL1 and EP1.
- 2) In the flow meter schedule table of Figure 4 of 5, Designation FM-4 Location should be changed to "Boiler Plant to EP2."
- 3) Be sure that the appropriate size flume is installed where the flow rate requires it and in consideration of maximum flow rate conditions for maximum production capacity at the plant. For example, extra large 60 degree V at appropriate locations should continue to be useful even at maximum flow rate conditions.

Please respond to the above comments and any comments that the NMED may have regarding the flow meters. Please contact me if you have questions. Thank you.

Carl J. Chavez, CHMM
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