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H. G. Yapp - Wm. G. Krumrich Plant

October 3, 1977

MINUTES MEETING TO DISCUSS
DISPOSAL ALKALI INSOLUBLES
- DEPT. 227

R. N. Bannon
G. R. Davis
P. E. Heisler
D. J. Metherd
W. E. Scruggs
W. L. Snell

Those Present:

E. J. Basile J. Wolfsberger
G. R. Davis H. Yapp
J. A. Labanosky



A meeting was held September 13, 1977 at 2:00 p.m. TR #3 Bldg. BK to discuss plans for disposing of the alkali insolubles, which have been accumulating in the cone bottom separator (Item 401, Dept. 227). Based on experience, the cone bottom part of the settler fills up in about six months. This amounts to 187 ft³ of solids or about 1400 gals. (i.e. approx. a drum per week of solids, dry basis).

It has been the practice to dispose of these solids by opening a 3" gate valve on the bottom of the cone, probing down through the solids with a steam sparger until an opening is made through to the bottom outlet, and using a water hose (sometimes a high pressure hose) the solids are washed out the bottom outlet and on to the sewer.

It has been determined that these solids contain dioxins. An analysis of this mud gave the following results:

Octachlorodioxin 12%, heptachlorodioxin 1.8%, hexachlorodioxin <352 ppb, pentachlorodioxin <177 ppm, tetrachlorodioxin <13 ppm. These lower chlorinated dioxins, if actually present are quite toxic. The higher chlorinated ones are non-biodegradable. For these reasons the above described method of disposal is no longer acceptable.

PROPOSED DISPOSAL METHOD

As a result of the discussions and subsequent investigations, the following method is recommended for the removal of the solids that are present accumulated in the settler. The procedure for drumming the solids preparatory to landfilling is outlined below in a stepwise manner.

1. Install a 3" air cylinder operated sliding gate valve on the bottom of the present 3" gate valve that is on the bottom of the settler. Connect instrument air to the cylinder actuator so that the valve can be opened and closed from the approx. 4 ft. high platform located on the west side of the settler.

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Protective Order