

Umetco Minerals Corporation

40-8681



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RETURN ORIGINAL TO PDR, HQ.



November 16, 1989

Mr. Ramon E. Hall, Director
U. S. Nuclear Regulatory Commission
Region IV
Uranium Recovery Field Office
Box 25325
Denver, CO 80225

Re: Umetco Minerals Corporation
SUA-1358: Docket No. 40-8681
White Mesa Mill, Utah
Tailings System Freeboard Limits

Dear Mr. Hall:

Attached is a request for a license amendment to the above referenced license. Enclosed is a check for \$150.

If I can answer any questions that you may have, please feel free to contact me.

Sincerely yours,

J. S. Hamrick
Environmental Engineer

D. K. Sparling
Site Superintendent

DESIGNATED ORIGINAL

Certified By Mary C. Hood

Log	Dec - 89 - 1
Remitter	
Check No.	3320
Amount	4150
Fee Category	2A
Type of Fee	Amend
Date Check Paid	12/14/89
Date Completed	12/14/89
By	Wissner

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The following are the calculations to determine freeboard requirements for Cells 1-I and 3. The wind-wave runup calculations are contained in the submittal dated November 8, 1989 and titled "Drainage Report for Submittal to NRC". The following assumptions are used:

1. Cell 2 will hold no liquids; all liquids will report to Cell 3.
2. No credit is taken for soil retention rates nor any storage basin.
3. Cell 3 is 50% full of sand.
4. Since the probability of the 6-hour thunderstorm is very low in the months of November through March, one-half the PMP value or 5 inches will be used.

This calculation will be valid only through March of 1990. By March 1, 1990, Umetco expects pending approval for the use of Cell 4A to be granted. Cell 4A approval will supersede this amendment request as freeboard limits are specified in the "Drainage Report for Submittal to NRC". If Cell 4A has not been approved for use by March 1, 1990, Umetco will submit a revised request covering freeboard limits in the tailings area in the form of a license amendment.

Cell 1-I

Basin	Area, acres	Volume, acre-feet
Cell 1-I	52.9	22.0
Basin A2	31.1	13.0
Basin B3	<u>64.0</u>	<u>26.7</u>
	148.0	61.7

$$61.7 / 52.9 = 1.2 \text{ feet}$$

Freeboard Required: $5618.2 - 0.9 - 1.2 = 5616.1 \text{ feet}$

Cell 3

Basin	Area, acres	Volume, acre-feet
Cell 2	80.7	33.6
Cell 3	<u>78.3</u>	<u>32.7</u>
	159.0	66.3

$$66.3 / 37.4 = 1.8 \text{ feet}$$

Freeboard Required: $5608.0 - 0.8 - 1.8 = 5605.4 \text{ feet}$