

AMERICAN NUCLEAR CORPORATION

550 NORTH POP
P.O. BOX
CASPER, WYO

STEPHEN A. CARPENTER, PRESIDENT
TELEPHONE (307) 265-7912
FAX (307) 265-3777

April 24, 1992

RETURN ORIGINAL TO PDR, HQ

U. S. Nuclear Regulatory Commission
Region IV
Uranium Recovery Field Office
730 Simms Street
Golden, Colorado 80401

Re: SUA-667
Docket No. 40-4492

DOCKETED
APR 28 1992
USNRC
MAIL SECTION
DOCKET CLERK

92 APR 27 P3:12

RECEIVED

Attention: Mr. Ramon Hall, Director

Dear Mr. Hall:

American is in the process of reviewing the specific conditions of its source materials license relative to proposing an amendment to bring the license current. We are unable to locate correspondence with the NRC dealing with the settlement monitoring program on pond no. 2 and limited correspondence on pond no. 1 settlement monitoring (License Condition 14C). Therefore, in order to clarify our settlement monitoring program for ponds nos. 1 and 2 we are submitting, for the NRC's approval, a revised and restated settlement monument monitoring program for incorporation into License No. SUA-667.

There are 16 settlement monuments on tailings pond no. 1 and 13 settlement monuments on tailings pond no. 2. The monuments were placed on pond no. 2 in 1984 and on pond no. 1 in 1988. The monuments on the ponds have been measured monthly since 1988. Less frequent monitoring occurred on pond 2 between 1984 and 1988. The monuments are located across the deepest areas of the ponds at the following locations (see attached maps):

Pond No. 1			Pond No. 2		
1	N781,371.16	E798,910.42	1	N779,415.74	E799,741.40
2	N781,362.37	E798,710.67	2	N779,289.27	E799,893.88
3	N781,347.75	E798,510.67	3	N779,652.22	E799,967.85
4	N781,097.18	E798,604.15	4	N779,544.84	E800,048.80
5	N780,952.82	E798,611.74	5	N779,444.55	E800,123.79
6	N780,753.85	E798,624.43	6	N779,651.28	E800,157.89
7	N780,452.06	E798,645.86	7	N779,783.20	E800,260.30
8	N780,719.18	E798,879.65	8	N779,623.33	E800,327.19
9	N780,967.51	E798,860.39	9	N779,496.93	E800,380.14
10	N781,110.15	E797,801.83	10	N779,850.89	E800,564.18
11	N781,118.53	E798,999.78	11	N779,704.97	E800,607.59

9206030341 920424
PDR ADOCK 04004492
C PDR

26NRC017.WCS

DESIGNATED ORIGINAL

Certified By *Mary C. Wood*

92-0434

Pond No. 1

12 N781,334.85 E798,263.63
13 N781,083.66 E798,353.76
14 N781,068.03 E798,102.17
15 N780,937.43 E798,363.70
16 N780,687.84 E798,379.32

Pond No. 2

12 N779,833.50 E800,787.20
13 N779,664.62 E800,819.30

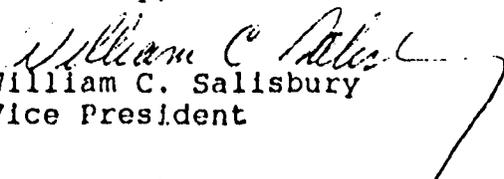
The monuments on pond no. 1 consist of 1 inch thick metal plates, 24 inches by 24 inches in plan dimensions, with a 5 foot segment of 2 inch diameter pipe welded to the plate. The top of the pipe is threaded to allow the addition of pipe segments during reclamation activities. The 2 inch diameter pipe is encased in a 3 inch diameter PVC pipe to ensure that down drag forces from the settlement of the cover material does not effect settlement measurements for the tailings. The monuments are placed on top of the tailings material.

The monuments on pond no. 2 consist of a 12 inch diameter steel casing in plan dimensions, filled with concrete extending 15 to 24 inches into the surface of pond no. 2, with a 5 foot segment of 7/8 inch diameter pipe welded to 5/8 inch rebar extending from the concrete. The top of the pipe is threaded to allow the addition of pipe segments during reclamation activities. The 7/8 inch diameter pipe is encased in a 2 inch diameter PVC pipe to ensure that down drag forces from the settlement of the cover material does not effect settlement measurements for the tailings. The monuments are placed on top of the tailings material. Ninety percent consolidation of the tailings in pond no. 2 was achieved in 1990.

American proposes to measure the settlement monuments quarterly before placement of the radon barrier soils. During placement of the radon barrier and for a period of six months thereafter measurements will be performed monthly. Thereafter, quarterly measurements would continue until final reclamation is achieved. Prior to placement of radon barrier soils, ANC will submit for NRC review and approval, a report including all settlement monitoring data and a consolidation curve that demonstrates that ninety percent consolidation of the tailings pile has been achieved. Final recontouring and revegetation will not be performed until the NRC has approved such action.

Please advise if you have any questions regarding this proposed license amendment dealing with settlement monitoring.

Sincerely,


William C. Salisbury
Vice President

WCS:flm
Enclosures