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March 12, 1992

Mr. Don Ferrier
 Project Manager
 EG&G Rocky Flats, Inc.
 5932 McIntyre Street
 Golden, Colorado 80403



Subject: Hypalon Lining in Pond 207B-South
 [WBS 431 PONDSLUDGE PROCESS TRAIN - DESIGN CRITERIA
 - HALLIBURTON NUS ROCKY FLATS DENVER]
 RF-HED-92-0124

Dear Mr. Ferrier:

Last week Mr. Jim DePriest visited with Mr. Lou Peloquin of Burke Industries, one of the major manufacturers and installers of Hypalon linings in the Western United States. Following is a brief synopsis of that discussion.

"Buffaloes" are usually caused by methane and other gases generated during the decomposition of organic material under the lining. This organic material comes from three places. The most common source of organic material is vegetation buried underneath the pond during the original construction. This material will decompose over time to generate gases that have been known to seep up through the asphalt based sublinings and cause a bubble under the Hypalon. The second possibility is that there are one or more leaks in the lining and that organic pondsludge has leaked through to decompose between the Hypalon and the asphalt sublinings and create gas. Finally, the asphaltenes (basic organic components of asphalt) in the sublinings will slowly release some hydrocarbon gases and contribute to or cause a bubble. In any or all of these cases, Mr. Peloquin doesn't foresee us doing any further damage to the lining in our processing. However we may open a plugged or partially plugged hole and allow some more sludge under the Hypalon lining.

Mr. Peloquin is quite positive that these "Buffaloes" have not stressed or weakened the lining in any way. He is also quite sure that our proposed procedure of emptying the pond and exposing it to the elements for a short period of time followed by a refill with a heavier sludge will not have any negative effects on the liner. He stated that there should be no permanent deformation or weakening of the lining even though these "Buffaloes" may have been exposed to sunlight during the 15 years that the lining has been installed.

Mr. Peloquin predicts that the "Buffaloes" will flatten out but not disappear as we initially empty this pond and will reappear in the same places as we refill. In the end, they will remain in the emptied pond (in their low profile state) until the lining is destroyed or removed.

If you have further questions after reading this letter, you can reach Mr. Peloquin at 800-669-7010 or we will try to find answers to your questions if desired.

Sincerely,

HALLIBURTON NUS ENVIRONMENTAL CORPORATION

John Schmidt
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 Deputy Project Manager

A-0004-000367

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