

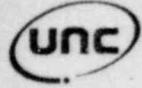
# UNC RECOVERY SYSTEMS

→ Lenticker

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221131

Surcharge for return = 7/8/80

AK



Division of United Nuclear Corporation  
A **UNC RESOURCES** Company  
CEB: 80-106

One Narragansett Trail  
Wood River Junction, Rhode Island 02894  
Telephone 401/364-7701



June 26, 1980

U. S. Nuclear Regulatory Commission  
Mr. George McCorkle, Chief  
Physical Security Licensing Branch  
7915 Eastern Avenue  
Silver Spring, MD 20910

Dear Mr. McCorkle:

UNC Resources has decided to terminate recovery of highly enriched uranium at this facility. The scheduled date for achieving an inventory of less than five kilograms of Uranium 235 enriched twenty percent or more is not later than November 30, 1980. The less-than-five-kilogram amount will not include the waste lagoon solids (see Attachment I for a description) and trace quantities remaining within the process area after the processing equipment has been cleaned.

The projected date for achieving an inventory of less than five kilograms of SNM occurs shortly after the date that recent rule changes to 10CFR 73 require the submission of a performance-oriented safeguards protection plan. For this reason, any advantages from expending the resources required to comply with 10CFR 73.20, 73.45 and 73.46 do not appear commensurate with the expense. Waiver of the requirements would not, in our opinion, jeopardize the common defense and security.

Accordingly, under the provisions of 10CFR 73.5, we respectfully request that UNC Recovery Systems (License SNM-777) be exempted from the requirements contained in 10CFR 73.20, 73.45 and 73.46. My staff or I will be pleased to discuss this request for exemption in detail should the need arise.

Sincerely,  
UNC RECOVERY SYSTEMS

*C. E. Bowers*  
C. E. Bowers  
President

CEB:DMS:ddm

Enclosure (Attachment I)

Applicant.....
Check No... 118046
Amount/Fee Category... 3500-1A
Type of Fee... minor fee
Date Check Rec'd... 7/22/80
Received By... <i>[Signature]</i>

*C*

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## ATTACHMENT I

### DESCRIPTION OF LAGOON SOLIDS

The lagoon solids are a result of neutralizing the Extraction Raffinate Stream with calcium carbonate. The raffinate stream is primarily composed of nitric acid, hydrofluoric acid, aluminum hydroxide, and dissolved salts of zirconium, thorium, niobium, tungsten, silicon, and uranium in varied amounts. The uranium content is reduced to less than one hundred parts per million prior to neutralization. The neutralization results in precipitation of solids which consist primarily of calcium nitrate, calcium fluoride and aluminum oxide. Any liquid effluent is separated and evaporated. The estimated uranium content of the precipitate is a uniformly distributed 0.02 grams per pound of dry solids, which is less than five grams of uranium in any cubic foot of contents (LSA material). The Uranium 235 enrichment of the lagoon solids is estimated to be approximately eighty five percent.