

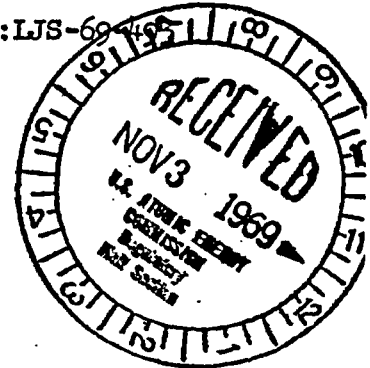
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**UNITED NUCLEAR**  
C O R P O R A T I O N

October 31, 1969

WOOD RIVER JUNCTION, R. I. 02894  
364-7701

NIS:LJS-69-465



Mr. Donald A. Nussbaumer, Chief  
Source and Special Nuclear Materials Branch  
Division of Material Licensing  
4915 St. Elmo Place  
Bethesda, Maryland 20014

Subject: Special Nuclear Materials License SNM-777, dated November 25, 1964, as Amended, Docket 70-820  
Regulatory File Cy.

References: 1. Application for Renewal of SNM-777, dated October 31, 1968, NIS:LJS-22.  
2. Response to AEC Questions on Renewal Application, NIS:LJS-69-427, dated July 29, 1968

Gentlemen:

United Nuclear Corporation respectfully requests amendment of Special Nuclear Materials License, SNM-777, dated November 25, 1964, to include the following listed equipment. The subpart referenced is that contained in Reference 1, as modified by Reference 2.

<u>Subpart</u>	<u>Title</u>
922.16	Wet Cut Off Saw
922.17	Milling Machine
923.7.2.8	Tray Filter 3-F-5
923.7.2.9	Hold Tank 3-D-10
923.9	Permanent Assay Tank
926.13	ADU Drying and Unloading (Hoods 1-L-16A, 1-L-16B, 1-L-16C, and ovens 1-H-1, 1-H-2, and 1-H-8)
814.2	U-Al Plate and Element Storage Rack

PDR-R&Q- 11/17/69

D-26

3441

NIS:LJS-69-493  
Nussbaumer/Swallow

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Please add to the Nuclear Safety Evaluation subpart 814.2 the following:

"Parallel racks are spaced at least 30 inches surface to surface separation. At this spacing and for racks 50 feet long, the solid angle subtended by the central rack is 3.70 steradians. (Calculated by the inverse sin formula for planes on page 35, TID 7016, Rev. 1.) The Keff for the unreflected array is .504 (based on calculation for reflected array except using an unreflected extrapolation length  $\delta = 2.5$  cm.) The allowable solid angle is 3.96 steradians."

Respectfully yours,



L. J. Swallow, Manager  
Nuclear & Industrial Safety

ttw

cc: AEC 7 copies  
D. Darr  
R. Kropp  
E. Barton