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Donald A. Nussbaumer, Chief
Source & Special Nuclear Materials Branch
Division of Licensing and Regulation
Charles D. Luke, Chief

February 26, 1964

Criticality Evaluation Branch
Division of Licensing and Regulation
UNITED NUCLEAR CORPORATION, WOOD RIVER JUNCTION, RHODE
ISLAND - APPLICATION FOR SCRAP RECOVERY PLANT - DOCKET
NO. 70-820, DATED NOVEMBER 27, 1963 AND JANUARY 31, 1964.

SYMBOL: DLR:RHO

In order to continue our review of the nuclear safety of the applicant's subject letters, we will require the following additional information (at this time, we have not completed review of the applicant's solid angle calculations):

- "1. What are the dimensions of the flash tank shown at position A-5 drawing A-903.
- "2. With two valves in the lines leading from Filtrate Recirculation Pump (1-P-17), Dwg. A-905, it appears credible that concentrated liquor may be pumped inadvertently to the Waste Treatment Tanks, or that concentrated solution may drain through two valves from the OK Liquor Hold Tanks to the Waste Treatment Tanks. Unless you can demonstrate that this hazard does not exist, we request appropriate modification of this piping arrangement.
- "3. If there is a failure of either steam or air pressure, please describe equipment features and other controls which will prevent uranium solution backing up in the lines and entering the boiler, Air Receivers or other unsafe geometry.
- "4. We request the sizes of the various line filters labeled F1 on your drawings.
- "5. On Drawing A-904, should not line 1" AN6 entering Scrub Solution Tank (1-D-3) be labeled "from pump 1-P-20" instead of pump 1-P-2? Also, should not line 1" MH2 be labeled "continued on Dwg. A-903" instead of Dwg. A-904 and should not line 1/2" LA-4 be labeled "from pumps (1-P-2A & B)" instead of (1-2A & B)? The first question relates directly to nuclear safety.

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"6. In addition to water and acid lines entering the Strip Acid Tanks (1-D-6A & B) what other material may enter these tanks from the hose lines. Dwg. A-904 is not clear on this point.

"7. When a written certificate is obtained from a carrier to assure that the shipment will not be commingled with other special nuclear material it must specify that the special nuclear material will be transported in the same vehicle with no intermediate unloading or transshipment until final delivery to the consignee and that no cargo containing other special nuclear material will be transported in the same vehicle. The certificate shall specify also the name of the carrier, the consignee, the location of the consignee's facility at the destination, the mode of transport and the general route to be followed. Your request for a license should be amended accordingly. If your proposed shipment involves intermediate unloading and loading or transshipment at a terminal we require as a part of the application, and for our approval in advance of each shipment, a further delineation of certified arrangements with all carriers involved and with terminal authorities, in order to assure against commingling of your shipment with other special nuclear material at all points of transfer."

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SURNAME ▶	RH Oddegarden	LK Rogers	CD Luke			
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