

URANIUM REDUCTION COMPANY

September 21, 1959

Mr. Dean Doerr
Syracuse, Waldron and Co., Inc.
600 Sixteenth Street
Oakland 12, California

Dear Mr. Doerr:

Referring to your inquiry 1313-549X I believe you are right in recommending an attrition mill rather than a knife cutter.

A copy of your Laboratory Request form is enclosed, however a trial run on the proposed feed would be by far the best means of arriving at a recommendation. We will send you a small quantity of our Shriver press paper. This paper should be thoroughly wetted before feeding to your equipment.

Let me give you a brief rundown of our problem. We are filtering an ammonium nitrate solution, pH7 containing ammonium chloride as a finely divided solid in 36", 25 plates, Shriver plate and frame presses. Filtration in the press is through high wet strength filter paper with canvas backing cloth. After every filtration cycle the paper is replaced. The used paper, because of adhering particles of the valuable uranium component, is air dried and fed to a multiple hearth product roaster. The air drying and hand feeding of the paper to the roaster are messy operations and very undesirable from a radiation hazard standpoint. It is our hope that we can take our wet press paper and disintegrate it to a point where it can be fed through a Moyno pump into the product roaster.

The chief consideration as to size of attrition mill is that an operator should be able to feed the papers from one press (25 - 36" x 76" papers) through the attrition mill in a reasonable period of time -- say approximately 5 - 10 minutes.

Sincerely,

URANIUM REDUCTION COMPANY

9612230017 590921
PDR ADOCK 04003453
C PDR

L. A. Painter

LAF:lab
Enclosure
cc: B. B. Wims
Radiation File