

# MIXING EQUIPMENT Co., Inc.

185 Mt. Read Bldg. • P.O. Box 1370 • Rochester 3, N.Y. • Phone 1 Dlewood 6-6660

Mr. B. S. Winn  
Uranium Reduction Division  
P.O. Box 486  
Moody, Utah

Dear Mr. Winn:

The factory attempted to run the 3" sheets of filter paper. Evidently they had a miserable time because they have come to the conclusion that it is absolutely impossible to reduce this material in a liquid with a rotating impeller. They tried standard scrapers, sawtooth propellers, weedless propellers and disc impellers and any kind of projection on the impeller shaft caused a wind-up to take place and I needn't tell you the rest of the story. This paper is the most resistant to wetting and pulping that we have ever encountered. We could not obtain any results even at speeds considerably higher than we would normally use for this application and definitely out of the range of a standard portable mixer. Liquid will not wet the paper sufficiently so that the impeller will cut it and it appears you would need a shredding device similar to a rotor-stator with knife blades which is outside of our line of equipment.

Sincerely yours,

MIXING EQUIPMENT CO., INC.

J. William Nibler  
Representative

JWN/yn  
cc: Mr. L. Painter

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PDR ADOCK 04003453  
C PDR

# MIXING EQUIPMENT Co., Inc.

125 Mt. Read Bldg. • P.O. Box 1870 • Rochester 3, N.Y. • Phone 4-5550

September 19, 1959

Mr. B. S. Winn  
Uranium Reduction Company  
P.O. Box 486  
Knox, Utah

Dear Mr. Winn:

The factory attempted to repulp the 3' x 3' sheets of filter paper. Evidently they had a mischance this because they have come to the conclusion that it is absolutely impossible to repulp this material in a liquid with a rotating impeller. They tried standard propellers, agitator propellers, seedless propellers and disc impellers and any kind of projection on the impeller shaft caused a wind-up to take place and I needn't tell you the rest of the story. This paper is the most resistant to wetting and pulping that we have ever encountered. We could not obtain any results even at speeds considerably higher than we would normally use for this application and definitely out of the range of a standard portable mixer. Liquid will not hold the paper stationary so that the impeller will cut it and it appears you would need a shredding device similar to a rotor-stator with knife blades which is outside of our line of equipment.

Sincerely yours,

MIXING EQUIPMENT CO., INC.

J. William Mabley  
Representative

JWM/ya

cc: Mr. L. Painter

*Forward to the office*  
*F-118*



# WATER ANALYSES \*

Coloada River at Wash Bridge	Date	pH	$\text{CaCO}_3/\text{l}$	Ca dgm/l	Turbidity dgm/l
	11-15-56	5.4		27.7	
	1-24-59	5.0	nil	5.3	
	1-24-59	5.0	nil	9.2	
	1-10-49	7.7	0.0034	13.2	
	2-20-59	7.2		5.9	
Sand Filtered Water (URC)	1-59			3.0	
Water after settling (URC)	1-59			not detectable	
Tailings (URC)	1958	3.3		11,800	
	1958	1.5		15,700	
Colorado River 1 mile above mill (URC)	2-20-59	7.4		13.5	2900
Tailings Pond Overflow (URC)	1-10-59	1.8		11,750	129,000
Tailings pond effluent goes to 0.2 (URC)	2-20-59	7.3		6,497	270
Colorado River 5 miles below mill (URC)	2-20-59	7.4		14.8	2,400
Colorado River 10 miles be- low mill (URC)	2-20-59	7.3		16.6	200

\* These samples analyzed by the Winchester Laboratory of the National Lead Company.