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APPROVED FOR **PUBLIC RELEASE** 

PRODUCTION THAT 221-T-1

USE OF ARMONOUM STLEED FLUCRIDE CONTAINING INCOME. ATERIAL DI EXCESS OF THAT ALLOWADDE

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# Objective:

To determine if a lot of ermonium silico Muoride containing insoluble material in excess of that allowable under 161 specifications can be used in routine process operations.

# Pasis:

The specifications on the memorium silico fluoride used in the first and second decontamination cycles are as follows:

> 98.0% rdn. !H/S1F Landuble Caterial • 0.3% max.

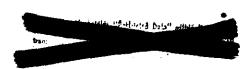
Analysas ande on : "vidual camples taken from a 14,400 lbs. lot of this material, received during a shortage paried from Pavidson Chemical under order No. HN 27614, were as follows:

Sample No. 98.2 Snr Sif6 98.6 98.0 % Insol.

Five additional samples were taken and analyzed at the request of Davidson Those results were as follows:

Sample No. 3 Av. 98.6 99.7 97.7 98.5 Sinhasira 99.0 97.4 % Insol. 0.62 0.38 0.69

It has been proposed that this material be tested in production runs to determine if the material is to be returned to the Under or accepted under a waiver of specifications.



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Five hundred pounds of the ammonium silico fluoride will be selected and analyzed to determine that the insoluble material is in excess of that specified. Sufficient 14% ammonium silico fluoride solution will be prepared in a clean tank to process one run through the first and second decontamination cycles. This solution will be clarified by settling over a period of 15 hours and the supernature will be used for one run. The effect of this solution upon the clarity of the first and second cycle product solutions and the by-product losses will be observed. A second test of ten runs may be necessary to obtain conclusive results leading to acceptance or rejection of this material. If this material is accepted clarification by settlingswill be necessary during its use in routine products:

Routine analytical data will be collected by the "S% Division and analysed by the Process Section of the 200 Area Technical Division.

### Equipment:

A tank suitable for settling the propered associum silico fluoride is available at T Plant.

# Responsibility:

The responsibility for preparation of operating procedures will be assumed by k. J. Szulinski. Operations will be under the supervision of the "S" Division. The decision to accept or reject the silico fluoride will be made jointly by the "S" and Technical Divisions.

#### Estimated Completion:

Test4 no	shor1/	he	completed	hv	Lowenber	30	1948.

Approvade	c "S" Division	11/4/48	0	Dato
guloch ?	Technical Division	11/1/4	8	Date
Colon	Wanager, Manufactur	ring Division_	11-2-4	// Date

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