Contract No:

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SR-24-A118
(REV. 7-66)

DU PONT
ESTABLISHED 1802

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February 3, 1970

J. A. MONIER, JR., PLANT MANAGER
SAVANNAH RIVER PLANT

ATTENTION: E. B. SHELDON

SILVER NITRATE COATING OF UNGLAZED CERAMIC BERL SADDLES FOR USE IN IODINE REACTORS--RTA 512-S

SUMMARY

More than 100 cubic feet of unglazed Berl saddles have been successfully coated with silver nitrate for use in spare cartridges for the iodine reactors as requested in RTA 512-S. We understand that the request to improve the coating process to make the coating more resistant to attack has been cancelled.

DETAILS

The coating process is being done at TNX on a fill-in basis. Approximately 175 pounds per batch of unglazed ceramic saddles are dipped in $AgNO_3$ solution in a heated, 55-gallon drum and then dried in electrically heated ovens. An average of two batch runs per week are made.

To date 6,072 pounds (107 cubic feet) of ceramic saddles have been coated with silver nitrate in 36 batch runs. The amount of silver nitrate deposited on the ceramic saddles averages 5.0 weight percent, which is considered acceptable.

The remaining saddles will be processed at the average rate of two batches per week, and it is estimated it will take four to five months to complete the work.

A. N. Parkes
Separations Engineering Division

ANP:mpb