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70-33

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NOTE TO: Jim Partlow  
FROM: Harry Bartz  
THRU: Ron Brightsen  
SUBJECT: TEXAS INSTRUMENTS - OPEN ITEMS

There are two open items which we have been trying to resolve. These are:

1. All TI scrap is returned to DOE for recovery. DOE does not begin recovery of uranium for periods of time up to two years from date of receipt. This is to allow DOE to process an economic job lot. In addition, DOE may commingle similar scrap from several sources. In this case they pro-rate recovered uranium to each generating source.

As a result recovery data is not timely, and pro-rated share is not exact. This is still an open item.

2. TI has discussed the possibility of using gamma scan procedures to validate (or confirm) the quantity of uranium oxide powder at time of physical inventory. Since this plant operates using a single enrichment, the technique is feasible for clean material. It was recommended to TI that they buy a deep well counter tube to use with existing electronics. They would also have to buy precision plastic or glass vials to hold SNM. It would be best to use NBS materials to fabricate into two or three standards. Similar vials would be used for unknowns. TI would then have to perform tests and collect data to establish precision and accuracy.

I believe the technique is both feasible and desirable.

All records and correspondence with TI is current and has been transferred to Darrell Huff on June 13, 1979.

*HB*  
Harry Bartz

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