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DATE 3-27-63 INIT. *McNeil*

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MONSANTO RESEARCH CORPORATION

MOUND LABORATORY

MIAMISBURG, OHIO

U. S. GOVERNMENT CONTRACT NO. AT-33-1-GEN-53

MOUND LABORATORY MONSANTO

March 27, 1963

Central File No. 63-3-243

UNDERHILL 6-8811

ALMD63032430286

MOUND DECLASSIFICATION REVIEW	
1ST REVIEW DATE: <u>7/8/98</u>	DETERMINATION (CIRCLE NUMBER)
AUTHORITY: <input type="checkbox"/> AOC <input checked="" type="checkbox"/> EADC <input type="checkbox"/> DADD	1. CLASSIFICATION RETAINED
NAME: <u>John H. ...</u>	2. CLASSIFICATION CHANGED TO: _____
2ND REVIEW DATE: <u>9/10/98</u>	3. CONTAINS NO DOE CLASSIFIED INFO
AUTHORITY: <u>ADD</u>	4. COORDINATE WITH: _____
NAME: <u>D. A. ...</u>	5. CLASSIFICATION CANCELLED
	6. CLASSIFIED INFO BRACKETED
	7. OTHER (SPECIFY): _____

Mr. W. B. Creamer
Dayton Area Manager
U. S. Atomic Energy Commission
Post Office Box 66
Miamisburg, Ohio

Attention Mr. E. A. Walker

Dear Mr. Creamer:

Disposal of Low Concentrate Tritium Scrap

Mound Laboratory has on station inventory several containers of solid and gaseous low concentrate tritium scrap which have been held since 1958. Recovery of this material is not feasible due to the fact that recovery costs will exceed the value of the contained tritium. Since continued storage would serve no useful purpose, the scrap should be removed from station inventory. Authorized disposal of this material, currently carried at shipper's values, was stated to be contingent upon the accomplishment of receiver's measurements (ref. letter W. B. Creamer to D. L. Scott, MLM-CF 62-4-136, dated April 9, 1962).

The residues having less than economically recoverable amounts of tritium, based on shipper's values, are shown in the following list (ref. letter D. L. Scott to W. B. Creamer, MLM-CF-62-2-301, dated February 27, 1962, 101 transfers SFC-SBX-2T, 5T and LASL classified memo, ADP-SF-775, G. R. Champion to M. N. Wolfe, MLM-CF-58-1-33, dated January 13, 1958).

Container	Solid Scrap	Est. Shipper's Values
	Description	
Drum #7	Uranium Furnaces	T ₂ 4/1/63 0.097 g.
Box 2, 3	Misc. Scrap - Hardware	0.055
	Total	0.152 g.

~~RESTRICTED DATA~~

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Released through the
MOUND LSCR PROJECT
(funded through DOE's OPENNESS INITIATIVE)
Record Copy held at Mound Facility

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Mr. W. B. Creamer

-2-

March 27, 1963

<u>Container</u>	<u>Gaseous Scrap Description</u>	<u>Estimated Shipper's Values</u> 4/1/63
SRP-24	Recycle Feed	0.0259 g.
54	Misc. Residues	0.0039
91	Misc. Residues	0.0020
93	Misc. Residues	0.0039
110	Misc. Residues	0.0020
123	Misc. Residues	0.0039
152	Misc. Residues	0.0020
154	Misc. Residues	0.0020
156	Misc. Residues	0.0020
158	Misc. Residues	0.0020
197	DT Mixture, Gas	0.0060
210	DT Mixture, Gas	0.0080
215	Misc. Residues	0.0039
230	DT Mixture, Gas	0.0158
235	DT Mixture, Gas	0.0080
299	Misc. Residues	0.0039
300	Recycle Feed, 95% H ₂	0.0117
312	DT Mixture, Gas	0.0158
324	DT Mixture, Gas	0.0060
333	DT Mixture, Gas	0.0060
408	Contaminated Gas, 99% N ₂	<u>0.0080</u>
		0.1427 g.
	Total Est. shipper's value	0.2947 g.

The solid scrap was transferred to Mound Laboratory on shipper's values which must be regarded as estimates due to the difficulties inherent in the assaying of miscellaneous scrap materials. Although it might be possible to assay miscellaneous pieces of contaminated hardware by calorimetry, the cost of design and construction of such over-size special purpose instruments would be prohibitive. On the basis of shipper's values and the composition of the contained residues, it is not economical to reduce the residues to a measurable state to verify the shipper's values.

To obtain measurements on the gaseous scrap would require, by conservative estimate, 1-1/2 to 2 man days per run which would be in excess of \$200 per tank. The combined expense of measurement (without any recovery) would be 8 times the total estimated value of the 0.14 gram of tritium.

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Mr. W. B. Creamer

-3-

March 27, 1963

Authorization is therefore requested to dispose of all solid and gaseous residues listed herein by approved procedures and to remove from the Station SBX accountability records the SS contents of these residues, on the basis of the values furnished by the shipper.

Form AEC-458, Request for Scrap Evaluation, for the scrap described above is forwarded as document MIM-CF 63-3-242.

Very truly yours,

M. N. Wolfe

M. N. Wolfe
SS Representative

MNW:bc

DISTRIBUTION: 1. W. B. Creamer
2. W. B. Creamer
3. W. B. Creamer
4. D. L. Scott
5. L. V. Jones
6. T. B. Rhinehammer
7. N. E. Rogers
8. M. N. Wolfe
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