SEALED SOURCE FILES AUG 2 0 1963 LAR: IE: JMB F & M Scientific Corporation Starr Road and Route 41 Avondale, Pennsylvania Attention: Mr. J. Peters Centlemen: Reference is made to your letter dated July 30, 1963, requesting that certain F & M Corporation drawings be withheld from inspection by the public. A finding has been made that inspection of the drawings by the public would adversely affect the interests of the F & M Comporation by granting competitors access to construction details of the equipment distributed therein. Further, it has been deterwined that inspection of the drawings by the public is not required in the public interest. Accordingly, you are hereby advised that the drawings referenced in your letter of July 30, 1963, signed by Mr. J. Peters, will be withheld from inspection by the public pursuant to Paragraph 2.810(b) of the Commission's "Rules of Practice," 10 CFR 2. Withholding from inspection by the public shall not, however, affect the right, if any, of persons properly and directly concerned to inspect the documents. Very truly yours, Eber R. Price Assistant Director Division of Licensing and Regulation bcc: Compliance, Region I 9504200200 950410 PDR RC SSD LER: IB L&R: IB LER:ML OGC LER JMBell:bjb RECurringham erPrice LJohnson 9504200200

Bealed Source Files OFFICE VISIT F & M SCIENTIFIC CORP. AUGUST 15, 1963 Messrs. James Peters and John Smithcalled to discuss F & M's gas chromatography devices and furnish additional information necessary to licensing of their customers for use of up to 200 millicuries of Hydrogen 3. A curve of tritium loss versus temperature was presented to supplement a similar curve submitted with their original proposal describing their detector cells. However, the other item of additional information which we had requested by telephone was not furnished. Mr. Peters stated that they would send us this information in the form of a verbal description of the outer cabinetry used to protect and secure the detector cells. It was stated by Messrs. Peters and Smith that their latest curve was based on the use of both "old" foils and new foils that they had obtained from a foil that had been in use several months, that all foils were of the newment I curie per square inchi and that the gases used were directly from the container. Although the gases were not dry prior to their use, it was not known what amount of moisture was contained in the gases. Messrs. Peters and Smit also demonstrated their two cells and heat sink. Jack M. Bell Repled Source Files

FYM SCIENTIFIC CORP. TRITICALOSS PER 24 HRS TEM FOR ZOOME H3 STANLESS STEEL FOILS ; SEALED SOURCE FILES Date received 8-15-63 Cottone Voit Revised by 1600 \* ARGON / 5 % METHANE uske filepys Superseded by .. Reviewed by .. 1500 1400 1300 1200 1100 1000 900 PERLAS 800 & HYDROGEN 700 600 500 400 300 200 120 75 50 125 150 175 200 225 250 100 26 TEMPERATURE OC->

TRITION

2055

U/C

Micro Curies/24 Hrs. Loss for 200 M. C. Tritium Foil

	ARGON/METHANE			MYDROGEN		
TEMP.	Run 1	Run 2	Run 3*	Run 1	Run 2	Run 3*
25	15	13	10	12	14	10
50	25	27	14	20	22	14
75	31	33	25	25	26	26
100	43	45	35	31	32	37
125	52	57	45	38	41	37
150	65	65	60	50	52	48
175	110	100	95	85	88	75
200	520	510	485	260	265	215
225	1550	1570	1570	760	750	740

<sup>\*</sup> New foil used.

	SEALED SOURCE	The street		
Date received Revised by	8-15-2	3 6	140e	visit)
Superseded by	WANT OF THE PARTY		8-15-	L 3