



a company of SMH Swiss Corporation for Microelectronics and Watch-making Industries Ltd

June 16, 1987

Mr. J. Bruce Carrico  
United States Nuclear  
Regulatory Commission  
Division of Fuel Cycle and  
Materials Safety  
Washington, DC 20555

RE: License No. 37-03572-08E

Dear Mr. Carrico:

I am enclosing our total 1986 shipments and accumulative Ci level of those shipments by watch brand name and model numbers.

For the 1987 shipments, which we will forward to you, I'd like to confirm if just sending a copy of our E.D.P. reports with a development of the Ci levels would be sufficient for you. Mr. Jensen has accepted them during his recent inspection of our facilities.

It is in a file which would be easier for me and also your division to verify quantities and Ci levels. Would you please let me know if that would be in compliance instead of this typewritten documentation?

If further questions need attention and additional clarification, please call me.

Again, thank-you for all the assistance your division and the NRC has given to SMH, Incorporated and myself, in particular, to be in full compliance with our license.

Best regards,

*Thomas E. Deitzler*  
Thomas E. Deitzler  
Director of Operations

TED:jch

cc: Mr. John F. Gelson, President  
Mr. Thomas J. Middleton, V.P., Operations & Logistics  
Mr. John T. Jensen, NRC Division 1

37-03572-06

DOB  
PDR

8710140839 XA  
A/85

<u>Tritium</u>		<u>Promethium</u>	
<u>Model #</u>	<u>Units</u>	<u>Model #</u>	<u>Units</u>
357916	25	860516	104
820636	274	860526	782
864024	661	860531	55
864036	844	860574	36
910436	20	870916	131
935016	115	870921	3
984116	17	904516	4,241
985654	83	904526	3,479
801017	3,879	904531	1,110
801027	3	904576	720
801037	29	921916	4,697
804227	47	921936	1,795
804327	8	939916	1,455
804417	194	939931	340
804617	290	916517	43
805417	226	916527	10
807017	102	939717	378
807027	3	939917	2,319
851217	5		
815227	33		
815417	1		
815427	44		
820637	67		
825617	4,094		
833817	429		
845617	96		
859617	25		
859817	27		
862837	50		
864017	222		
864025	100		
864027	3,422		
864037	1,616		
864052	990		
868417	669		
908052	6		
910017	72		
910217	40		
910437	248		
911017	425		
911217	140		
922617	1,539		
936017	72		
936217	121		
937017	25		
937217	44		
939117	150		

<u>Tritium</u>		<u>Promethium</u>	
<u>Model #</u>	<u>Units</u>	<u>Model #</u>	<u>Units</u>
939217	627		
939317	57		
939417	126		
9399.	70		
93993/	60		
941617	115		
149817	292		
9832	9		
98381	9		
985617	119		
98565	119		
999218	766		
<hr/>		<hr/>	
TOTAL	23,951 Units	TOTAL	21,698 Units

23,951 Units x 2.0M Ci/Unit = 47,902M Ci

21,698 Units x 2.0M Ci/Unit = 43,396M Ci

$$\frac{47,902M \text{ Ci}}{1,000} = 47.9 \text{ Ci}$$

Tritium

$$\frac{43,396M \text{ Ci}}{1,000} = 43.4 \text{ Ci}$$

Promethium

<u>Tritium</u>		<u>Promethium</u>	
<u>Model #</u>	<u>Units</u>	<u>Model #</u>	<u>Units</u>
GB110	138,665		
GB404	21,212		
GB704	63		
GB706	81,499		
GG703	32,822		
GG703S	853		
GJ100	19,308		
GM701	55,766		
GS102	92,719		
GS400	136,335		
LB109	32,912		
LO001	65		
LR106	144,094		
TOTAL	756,313		

GM701/GB704  $55829 \times 3.0 = 167487 + 1000 = 167.5 \text{ Ci}$

Gents  $523413 \times 1.5 = 785119 + 1000 = 785.1 \text{ Ci}$

Ladies  $177071 \times .5 = 88536 + 1000 = \underline{88.5 \text{ Ci}}$

1041.1 Ci Tritium

Tritium

<u>Model #</u>	<u>Units</u>
CT501S	145
UB131Y	179
UB132Y	131
BS101G	63
BS104G	91
BS106G	72
BS140T	3
CD242T	1
FA431T	359
FA432Y	303
HA331T	82
HA413T	51
HA432T	46
JM101G	1
KA413T	72
M1101G	327
M1140T	311
M1141T	124
MV241T	43
PH141V	6
RG504G	92
RG505G	62
RG506G	36
RR181W	95
SG501G	98
SG502G	8
SG505T	86
VL141T	15
VL142T	258
VL180W	31
WA331X	77
XA411X	11
TOTAL	3,279

3,279 Units x 2.0M Ci/Unit = 6,558 Ci

$$\frac{6,558 \text{ M Ci}}{1,000} = 6.6 \text{ Ci Tritium}$$

Tritium

<u>Model #</u>	<u>Units</u>
5188W1	89
5188W12	1
5189Y2	7
5214Y3	4
5239Y1	95
5239Y2	9
5239YT1	117
5271Y2	217
5297Y2	47
5297YT1	176
5301Y2	174
5301Y3	35
5301YY2	91
6121RW	12
6433W1	110
6437Y2	6
6466Y1	1
5487Y2	57
6487Y3	10
6490W1	576
6494Y3	8
6496Y1	3,078
6496Y2	1,354
6496YT1	192
6497Y1	269
6497Y2	695
6505Y2	3
6505Y3	1
6505Y5	2
6506Y2	1
6506YW3	10
6507Y2	97
6507Y3	2
6508Y2	120
6508Y2Z	1
6509Y3	4
6510Y2	35
6510Y2Z	1
6516W1	17
6516W5	3
6524Y2	31
6526Y3	2
6527W1	295
6527WB1	87
6536Y2	51
6536YD2	1
6546W1	4
6546W5	4
6583Y2	109

<u>Model #</u>	<u>Units</u>
6583Y3	110
6583TY2	147
6585Y2	250
6585Y3	42
6589Y1	1,677
6589Y2	1,169
6591Y2	304
7334W3	1
9362Y2	623
9363Y2	99
9364Y2	129
9374Y2	336
5162W2	14
5185W3	2
5186W2	6
5187Y2	9
5187Y5	1
5188WB1	111
5189YB2	1
5192Y2	1
5193W1	2
5195W5	8
5198W2	97
5209W5	12
5214YB3	2
5215W1	1
5215W2	5
5220Y2	1
5222Y2	12
5223Y2	2
5239YB1	15
5261W2	10
5261W5	3
5262W5	1
5265W1	2
5266WD5	1
5267W2	103
5267W3	95
5267WD2	12
5267TW2	183
5268W2	859
5268W3	133
5268WD2	92
5268VW2	241
5269W2	1
5270W2	73
5271YB2	178
5284W2	416
5297YB2	107

Tritium

<u>Model #</u>	<u>Units</u>
5297YBT1	250
5300W1	259
5302W1	52
5305WN2	501
5306WN2	58
6126W	275
6296W2	3
6296W3	1
6297W5	3
6418Y2	5
6419W2	3
6419W5	1
6420W5	2
6431WN2	1
6432W5	1
6433WB1	14
6437YB2	2
6437YBD2	1
6437YB4	1
6438W1	3
6438W5	4
6439W2	9
6440Y2	8
6440Y5	1
6445WG2	29
6448W2	5
6452W2	6
6453W5	14
6454W5	2
6455W2	1
6455W3	2
6459Y2	2
6459Y5	2
6460W2	6
6461Y2	6
6461Y3	1
6466YB1	2
6466YB2	4
6467Y2	1
6467Y3	3
6483W5	4
6488W5	2
6491W5	24
6494YB3	1
6496YB1	586
6496YB2	671
6496YBT1	344
6497YS1	119
6497YS2	151



Tritium

<u>Model #</u>	<u>Units</u>
6498W5	21
6498MW2	18
6498MW5	10
6498MWD2	4
6499W1	317
6499W5	1
6500Y2	315
6500Y3	9
6500Y4	4
6508YB2	183
6509YS3	3
6510YS2	56
6516WS1	19
6516WS5	1
6519Y2	13
6519Y3	31
6521Y2	164
6524YS2	41
6526YS2	2
6526YS3	1
6530WS2	9
6535W5	1
6536YB2	8
6536YBD2	10
6549W2	227
6549WD2	30
6549TW2	196
6549TW3	105
6549TWD2	21
6550W2	678
6550W3	398
6551W1	2
6552WD5	2
6553W2	1,770
6553W3	160
6553WD2	23
6554W2	99
6564W2	582
6584W1	631
6584NW1	506
6586W1	5
6588WN2	380
6589YB1	143
6589YB2	745
6591YB2	159
9372Y2	19
9373Y2	9
TOTAL	27,546

27,454 Units x 2.0M Ci/Unit = 55,092M Ci

$$\frac{55,092M \text{ Ci}}{1,000} = 55.1 \text{ Ci Tritium}$$

Composite Levels of Total Shipments - 1986 YDD

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Promethium Paint

<u>Brand</u>	<u>Units</u>	<u>Ci</u>
Hamilton Watch Co., Inc.	21,698	43.4

NOTE: No other brand under license uses the Promethium paint on dials and/or hands

Tritium Paint

<u>Brand</u>	<u>Units</u>	<u>Ci</u>
Hamilton Watch Co., Inc.	23,951	47.9
Swatch Watch USA, Inc.	756,313	1041.1
Certina USA	3,279	
Omega Watch Corp.	<u>27,546</u>	<u>55.1</u>
TOTAL	811,089	1150.7 Ci