

METER TIMING EXERCISE

SMETAB

10/18/63

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Purpose

To provide an accurate time interval for CE verification of the usage meters operation.

Operating Procedures

1. Normal card or tape loading procedure for your system.
2. The program will halt at location 2000 to record the usage meters' present readings and allow conditioning of the meters the CE desires to verify.
 - a. Consult the program listing (page 2) for console set up procedures.
 - b. Enable or disable various usage meters with appropriate switches and moving tape reading a card, etc., from the CE panel switch channel consoles, etc.
3. When the desired set up has been accomplished, press start. The program will cycle for 72 seconds (0.02 hours) then halt; all meters enabled should have advanced two divisions in the low order position. Press start four (4) additional times to obtain one revolution of the low order position.
4. To loop the program continuously, consult the program listing, page 2.
5. The total elapsed time (in hundredths of hours) is maintained in location 2010 (high order position in BCD machines).

8METAB 7080 METER PROGRAM
DECEMBER-20-1963
WHEN HALT 2000 OCCURS
HIT START.
PROGRAM WILL TIME 72 SECONDS
& THEN HALT.
PRESS START FOR EACH REPEAT.
TOTAL TIME KEPT AT LOCATION
2010 IN HUNDREDTH OF AN HOUR
912 ON- BYPASS HALT 2000
912 OFF- HALT AFTER
EVERY 72 SECONDS
FOR OIL COOLED MEMORY
PUT 915 ON BEFORE LODING PGM.

```

000004 EEM 3 14 0000 08-0
000009 SPC , 0000
000014 RAD H 02 27244 P2M4
000019 UNL 7 02 27252 P2N2
000024 RAD H 03 27257 P2E7
000029 UNL 7 03 2013 20A3
000034 SET B 0001
000039 RCV U 20004 -004
000044 RAD H 01 27262 P2W2
000049 SND / 27269 P269
I 000054 SUB P 01 27271 P2X1
I 000059 TRZ N 01 1959 19V9
- 000064 TR 1 0049
C1959 TRA I 05 1984 1ZY4
01964 SET B 01 0001 00 1
01969 LOD 8 01 27271 P2X1
01974 UNL 7 01 20025 -OS5
01979 TR 1 1999
01984 SET B 0005
01989 LOD 8 27289 P289
01994 UNL 7 26594 0594
01999 RAD H 02 27279 P2P9
02004 HLT J 2000
02009 TR 1 20029 -029

```

ZERO LOOP TIME COUNT
ZERO TOTAL TIME COUNT
FIRST TZB GENERATED AT 20000
GENERATE 1437 TZB,S
OUT IF LAST TZB GENERATED
915 ON FOR OIL COOLED
NOP THE SIXTH TZB
MAKE TZB AT 26594 A TR
TO ADM AT END OF LOOP
1 IN ASU 2
TO TIMING LOOP
TIMING LOOP IS A SERIES OF
TZB INSTRUCTIONS FROM 20029
TO 27184

2 004 02013
2 001 02014

TOTAL COUNT

```

27189 ADM 6 02 27252 P2N2
27194 SET B 0004
27199 LOD 8 27252 P252
27204 TRZ N 27214 P214
27209 TR 1 20029 -029
27214 ADD G 03 27281 P2H1
27219 UNL 7 03 2013 20A3
27224 TRA I 02 20029 -OK9
27229 TR 1 2004
27234 TR 1 2004

```

ADD 1 TO LOOP COUNT
LOD 4 LOW DIGITS OF LOOP COUNT
END 72 SEC LOOP IF ZERO
REPEAT TIMING LOOP
ADD 2 TO TOTAL COUNT
912 ON -BYPASS HALT

CONSTANTS

2 010 27244
2 008 27252
2 005 27257
2 005 27262
2 002 27264
2 005 27269
2 002 27271
2 008 27279
2 002 27281
2 005 27289 00

0000000&
00000000
A000&
A143G

•20-4 TZB 2004 ON 2 BIT
AA
0000000A
AB
1P189