TITLE: Letter Printing

TYPE: Closed with one program parameter

NUMBER OF WORDS: 32

TEMPORARY STORAGE: 0, 1

PURPOSE: This is a closed subroutine to simplify the printing of groups of letters and to conserve memory space when a large number of letters are to be printed. There are three ways to enter it.

DESCRIPTION: When entered by means of the orders

$$p \left|\begin{array}{l} 40 \text{ aF} \\ \underline{50 \text{ p}} \\ 26 \end{array}\right.$$

the routine will read 5 hole characters from the tape and store them in compacted form, 8 characters to a register, starting at location a. The reading and storing will continue until a terminating symbol, consisting of only a fifth hole, is read and stored.

When entered by means of the orders

$$p \left|\begin{array}{l} \text{JO aF} \\ \underline{50 \text{ p}} \\ 26 \end{array}\right.$$

the routine will print characters which have previously been read and stored by the routine at locations starting with a. All the letters previously stored at these locations will be printed with the exception of the terminating symbol.

In this way groups of letters may be read and stored in the memory and at some later time certain of these groups may be printed depending on the results of calculations.

When entered by means of the orders

$$p \left|\begin{array}{l} 50 \text{ F} \\ \underline{50 \text{ p}} \\ 26 \end{array}\right.$$

the routine will read 5 hole characters from the tape and print them immediately without storing them. This process will continue until the terminating symbol is encountered. The terminating symbol will not be printed. After all reading of letters from the tape has taken place the last 19 words (starting with word 13) of the routine may be overwritten.

ns

LOCATION	ORDER		NOTES	PAGE 1	P 7
	00K(P7)				
0	K5 F				
	42 4L				
1	36 24L				
	46 2L				
2	L5 F				
	40 F				
3	19 7F				
	40 1F				
4	L3 F				
	32 F				
5	L5 F				
	10 5F				
6	40 F				
	01 1F				
7	42 9L				
	01 10F				
8	F4 9L				
	42 9L				
9	00 1F				
	93 F				
10	50 1F				
	01 40F				
11	32 3L				
	19 18F				
12	L4 2L				
	22 1L				
13	91 4F				
	32 14L				
14	L0 15L				
	L4 15L				
15	10 5F				
	S1 16F				
16	32 4L				
	01 F				

LOCATION	ORDER		NOTES	PAGE 2	P 7
17	L4 F				
	40 F				
18	40 F				
	L5 16L				
19	L4 5L				
	42 16L				
20	F0 10L				
	00 23F				
21	36 13L				
	19 18F				
22	L4 18L				
	46 18L				
23	43 16L				
	22 17L				
24	46 18L				
	00 42F				
25	36 23L				
	26 28L				
26	F4 3L				
	42 27L				
27	22 27L				
	93 F				
28	50 31L				
	91 4F				
29	10 4F				
	74 31L				
30	36 26L				
	23 4L				
31	00 F				
	00 1024F				