The program is executed in the following manner:

The divisor (A Field - columns 1-4), the dividend (B Field - columns 21-25), and the Result Should Be (columns 41-50) are loaded into the print area for printing purposes. A test for overflow instruction is then executed to insure that the overflow indicator is OFF. The B Field is then divided by the A Field to produce a 5-position quotient and a 5-position remainder. If an overflow occurs as a result of this division, the program branches to a set of instructions to test for a blank in column 6. If blank the condition is correct and programming proceeds for the next record. If not blank an error is indicated.

If an overflow does not occur as a result of this division, a test is made for the letter "N" in column 6. If the "N" is present the condition is correct, and programming proceeds for the next record. If not "N" an error is indicated.

For error indications the program branches to the Error Print Routine. The position of Sense Switch E then determines whether the machine stops to permit console checking or prints the results with an "ERROR" indication.

Checking Procedure

SENSE SWITCH E ON - Machine stops for errors.

1. Remove the last card in the stacker.
2. Visually check Field A (columns 1-4) and Field B (columns 21-25; also check column 6 for N or blank. Then check with Locations 201-204, 221-225 and 206 respectively.
3. Check Overflow light. Should be ON if blank in Location 206; should be OUT if "N".

SENSE SWITCH E OFF - Machine prints error results. Examples of Error Print-Out:

A Field	B Field	Result Should Be	Result Is	
0001 NO OVERFLOW	0246H	0246H0000&	0246H0000&	ERROR (overflow)
0000 OVERFLOW	1357I	000001357I	000001357I	ERROR (no overflow)

SENSE SWITCH C ON - Machine prints correct results. Examples:

A Field	B Field	Result Should Be	Result Is	
0001 NO OVERFLOW	0246H	0246H0000&	0246H0000&	(no overflow)
0000 OVERFLOW	1357I	000001357I	000001357I	(overflow)

Column 6 - Print Position 206

Procedure for Running Branch Divide Overflow Test from Tape

1. Manually enter "1" in Location S58.
2. Set Sense Switch "F" to the OFF position.
   NOTE: This will allow the Branch Divide Overflow Test to be executed with all other tests that may be chained.

Procedure for Running ONLY Branch Divide Overflow Test from Tape

1. Manually enter Block No. 3220 in Locations S73-S76 and "1" in S58.
2. Set Sense Switch "F" to the ON position.
   NOTE: This will allow only the Branch Divide Overflow Test to be executed, by-passing all the others.