

REPORT OF ASSISTANCE

TO: W-L. Schultz
~~Mr. A. P. Sturtevant~~ - 751-2

March 9, 1962

BRANCH OFFICE: 252 Minneapolis, Minn.
 135 Detroit (North), Mich.

MACH. TYPE/SERIAL (S): 1401-25075; 1405-10185; 1407-
 10238 (Minn.)
 1401-25117 (Det.)

DATE: From December 12, 1961 to December 21, 1961

PURPOSE OF TRIP: To field ~~merge~~^{MERGE} 1405 and 1407 and to activate
 process overlap. Minneapolis
 Activate process overlap. Detroit

PERSONNEL CONTACTED:

POSITION AND OFFICE:

Mr. John Maske
 Mr. I. B. Knutson
 Mr. N. Goodwin
 Mr. V. H. Carlson
 Mr. R. T. Firtko

CE Mgr.-District 12 Minn.
 CE Mgr. -BO 252 "
 Field Mgr.-BO 252 "
 Mgr.-Dist. Ed. Center "
 Sup. Eng. and Test
 Center Coordinator "
 Regional Spec. - Midwest Region
 DPCE Inst. - Rochester, Minn.
 Tech. Spec. - BO 252 Minn.
 CE - BO 252
 CE Mgr. -BO 135 Detroit
 Field Mgr. -BO 135 Detroit

SUMMARY:

I was sent to Minneapolis to install a 1405 and 1407 and to assist John Pokoski in activating process overlap. We were then to proceed to Detroit and activate process overlap on a system there.

Minneapolis: We installed the conversion bills and found the following discrepancies.

Cable 722362 - the Winchester connectors for the Romar attachment were missing.

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The following cards were missing in the B/M:

02A8-C06-371275)	1407
02A8-C05-371229)	
02A8-F02-371079)	1405
02A8-D11-371274)	

Power on the 1407: We were unable to set A reg. zone bits-bad card 02A8 C13-371071.

Also, a transposition in the I. F. C. F13 was in F03B on 02A9.

Inhibit "C" bit up solid caused by a bad card in 02A8 - D09.

Tie down on 01B2-F05A to +6 volts. Tied -T set AI latch from Inquiry off. There wasn't mention of this tie down on any part of the conversion bill or on the tie-down list.

We made mechanical adjustments on the 1407.

Transposition on C2 of the 1405 cable - pins 62 and 65 transposed.

Bad card 1405 - 01A1-C26 didn't test for access busy.

Cable 722980 from 02A8 D24 to Ramac connector was laced off upside down-transposed in connector.

Tie down 01B6 - C01A - C05K was not on tie down list. Must be removed with installation of Ramac.

1405 - C09 01A2 - bad. The read oscillator kept changing frequency.

Bad card 01A1 in the 1401 - D24 sense amp for "2" bit went bad.

Unload valve in compressor plugged with chips unable to close.

1405 safety valve out of adjustment released without sufficient air pressure.

The 1405 and 1407 installation is complete.

The DVL's for bringing process overlap up to the correct E. C. level were added.

Trouble with Edit during process overlap caused by DVL 5023. The reverse scan trigger was slow turning off. We removed DVL as it was only necessary when overlapping the 1419.

01B4-Punch scan C13 latch not being reset caused only 1 punch scan.

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Wire from B24H-E13B was on E23D. We think the wire was a secondary wire put back on the wrong pos.

Failing to overlap Col. Bin. and P. F. R. - trouble caused by two missing cable wires. Overlap cycle was not being sent over to gates Q1B7 and Q2B8. Missing wire from Q3B1-E02H to Q2A9 A03C and missing wire from Q2A9-A19F to Q2B8-E03K.

Having trouble with overlapping the complement add with recomplement tests. Caused by missing F/B which changed +U Delta Overlap cycle or overlap cycle to T line. We corrected the problem with the following:

- Q1B4 D04G-01FF - Remove
- D04G-E18E - Add
- A12C-E16D - Add
- E16G-E18A - Add
- E16A-D14F - Add

The logics were drawn with the above change but the machine was not wired as per logics. (Both systems has the above problem)

We turned the system over to the CE's on Monday, December 18, and left for Detroit.

Detroit:

The DVL's for process overlap were installed by E. Misulich and R. Dunham, Dept. 858.

Q2B1 - Wiring error F05G - E17G was on D17G. This brought process up before we finished with a punch scan. The system failed during combined ops.

Q1B6 - Extra wire B09A to B17E a previous F/B said to add this wire when it should have been removed.

Complement add with recomplement also failed on this system. The error listed on the Minneapolis job was also on this system.

Indexing during overlap failed with storage address errors. The system lead 8K storage. During a indexing operation the AB latch in indexing was set by the read and punch scan control which threw a validity error and caused the storage address errors. We tied process into the set of the latch so that it could not be set during an overlap cycle. This eliminated the "AB" bits in the read and punch scans from setting the latch.

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System was turned over to the CE's on Wednesday, December 20, 1961; and we returned to Endicott.

COMMENTS:

The Diagnostic Test Write-ups for the 1405 decks were not sent with the 1405.

When replacing the read oscillator #1A2 - C98 in the 1405 we found two different settings for it in the 1405 Reference Manual.

IBM 1405 Reference Manual (227-5541-0) page 6[#]26 states the gap should be 900 ± 100 ~~microsecond~~ page 34 under file clock oscillators state the gap should be 650 ± 100 ~~microsecond~~.

We set the osc. for a 5 ~~microsecond~~ pulse and the file performed correctly. Something should be done to correct this situation however.

Bruce Maney (wcl)

B. Maney
GP Tech.

BM/mam

- cc: Mr. L. H. Ellis - 751
- Mr. W. T. Hardin - 400
- Mr. S. T. Jenkins - 751
- Mr. E. J. Richards - 859
- ~~Mr. A. Santare - 793~~
- Mr. O. Smith - 391
- ~~Mr. W. L. Schultz - 791~~
- Mr. H. Yerrick - 854 ✓
- Mr. J. Pokoski - 230 ✓

Mr. Gaynon

Mr. Herling - 751-2