

**CHANGING THE NOCBCD TABLE**  
**MANUAL TRANSLATION MODIFICATION PROCEDURE**  
**NO. 2/2B ELECTRONIC SWITCHING SYSTEM**

	CONTENTS	PAGE	PURPOSE AND OBJECTIVE
1.	<b>GENERAL</b> . . . . .	1	<p><b>1.03</b> The purpose of this section is to provide procedures to add NOCs to the NOCBCD table and to change existing information in the NOCBCD table without performing an office data administration (ODA) run.</p> <p><b>1.04</b> Upon successful completion of this procedure, Translation Guide TG-2H forms will define the program store memory locations that are to be modified manually and the contents of those locations. Changes in program store are accomplished by the procedures defined in Section 232-127-101.</p> <p><b>1.05</b> <i>The use of a manual translation change procedure is not intended to be a part of the day-to-day routine or course of action. Manual translation change procedures should be performed only when there is no practical alternative and normal scheduling of an ODA update is not feasible.</i></p> <p><b>1.06</b> The ODA update procedures can be performed with greater accuracy due to the inherent error check in the ODA routine. The manual translation modification procedure contains a much greater probability of error due to hand manipulation and recording of the address numbers and memory contents. <b><i>When performing any manual translation change procedure, the process must be executed error free. The parity of the bits on any word that is changed must be even. In the event the parity is not even, when the word is addressed by the ESS program, a system initialization will occur.</i></b></p> <p><b>1.07</b> The ability to add and subtract in octal and binary is essential in performing the procedures in this section. The addresses and data read from the program stores in response to a TTY input message are in octal. All address calculation and in-</p>
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1.	<b>GENERAL</b>		
1.01	<p>This section provides procedures to add additional normalized office codes (NOCs) to the NOCBCD table or to change existing NOCBCD table information in a No. 2/2B Electronic Switching System (ESS). The No. 2/2B ESS may be equipped with either the LO-1, EF-1, 2B-EF-1, EF-2, or the 2B-EF-2 generic program.</p>		
1.02	<p>This section is reissued to incorporate changes due to field evaluation and to upgrade the rating to AT&amp;T Co Standard. Since this is a general revision, no revision arrows are used to denote significant changes.</p>		

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dexing is done by octal addition and subtraction. Refer to Section 232-127-101, Manual Translation Modification Procedure—General Description for methods of addition and subtraction in octal, binary-to-octal conversions, and tables for decimal-to-octal conversion. Forms necessary to make changes in program store are found in Section 232-127-101.

**GENERAL DESCRIPTION OF PROCEDURE**

**1.08** The addition of a new NOC to an office is accomplished by inserting new data into the NOCBCD translator. The changing of an existing NOC is accomplished by modifying existing NOCBCD translator data.

**1.09** The NOC is a binary number (4 bits for the EF-1 and later generics or 3 bits for the LO-1 generic) which represents a 3-digit office code. The NOC is required to access the directory number translator and store packed directory or billing numbers.

**A. Procedures Required**

**1.10** Adding a NOC to an office or changing an existing NOC consists of completing the appropriate TG-2H forms and inputting the data from these forms into program store translations. Section 232-004-303 contains procedures for making changes in program store translations for No. 2 ESS, and Sections 232-304-303 and 232-304-304 contain procedures for making changes in program store for No. 2B ESS. Sections 232-127-303 and 232-327-303 contain procedures for transferring changes recorded on translator change forms to the change in program store (CHIPS) message guide for No. 2 and No. 2B ESS, respectively.

**B. Translation Tables Involved**

**1.11** The only translator involved when adding a NOC to an office or changing an existing NOC is the NOCBCD translator. The directory number translator (NOCD), the number group table, the hundreds group table, and hundreds group table expansions will not be changeable by manual translation modification methods.

**1.12** The NOCBCD translator occupies a dedicated area of program store which contains the NOC for each possible billing number or directory number in the office. This table is used to determine the 3-

digit office code (NXX) for billing or recent change and verify purposes. For EF-1 and later generics, the table is also used to provide special route indexes so that different intercept treatment may be given to office codes served by the same office and to provide the numbering plan area (NPA) if these office codes reside in different area codes.

**1.13** When the NOC in the NOCBCD table is used exclusively for billing purposes, it is the only translator that is required to contain data identifying the NOC. For such cases, the billing only NOC will not appear in the NOCD translator.

**1.14** The NOCBCD table consists of 32 words for the EF-1 and later generics, and 8 words for the LO-1 generic. For offices equipped with the LO-1 generic, all eight words of the NOCBCD table are used for NOCs. For offices equipped with the EF-1 and later generics, the first 16 words of the NOCBCD table are used for NOCs or pseudo-office codes (PNOCs). The second 16 words of this table contain route indexes and NPA codes that are associated with the 16 NOCs.

**1.15** When a terminating call is translated, a 3-bit (for the LO-1 generic) or a 4-bit (for the EF-1 and later generics) NOC is generated. When the NOC is in the range 0 through 7, it corresponds directly to route indexes 0 through 7. When the NOC is in the range 8 through 15, it is called a pseudo-NOC and has no association with a route index.

**1.16** Regular office codes use NOCs 0 through 5. The NOCs 6 and 7 are used for precutover testing only. Any unused NOC 0 through 5 may also be used for precutover testing. Pseudo-NOCs 8 through 15 are used for the same purposes that NOCs 0 through 7 are used with the exception that NOCs 8 through 13 may not be used for series completion calls in offices equipped with the EF-1 and later generics. Table A is a listing of NOCs, their usage, and the applicable generic program.

**2. METHOD**

**COMPLETE APPROPRIATE FORMS**

**2.01** The TG-2H ESS 2303 form is used to add a NOC to an office or to change existing data in an office for all generics.

**2.02** These forms are normally completed by the Network Administrator, but in the event of a

**TABLE A**  
**NOC USAGE TABLE**

NOC		REGULAR OFFICE CODE OR BILLING ONLY	PRECUTOVER TESTING
All	0-5	✓	✓
Generics	6,7		✓
EF-1 and Later	8-13 14,15	✓*	✓
Generics			✓

\* Except for series completion in offices equipped with the EF-1 and 2B-EF-1 generic.

manual translation modification, these forms are completed by the craftsperson performing the change. Reproducible copies and detailed instructions for completing these forms are contained in the TG-2H. Normally, only data in columns 20 through 37 will be provided. Upon completion of the manual translation modification procedure, copies of these forms should be sent to the Network Administrator so that ODA records may be updated.

**2.03** Before any manual change is performed, the TTY input messages should be formed using the NOC-1 form (Fig. 1). A reproducible copy of this form is provided in Fig. 2.

STEP	PROCEDURE
1	Obtain a copy of the NOC-1 form. Refer to ESS 2303-6 form to obtain the location of a vacant NOC.
2	If this is to be a test NOC, enter 1 in bit 20 of item 2 of the NOC-1 form. If this is not to be a test NOC, enter zeros in bits 16 through 20 of item 2 and proceed to Step 5.
3	Convert the selected postcutover NOC to octal and enter in item 3.
4	Convert item 3 to binary and enter in bits 16 through 19 of item 2.
5	Convert the previously selected NOC to octal and enter in item 4.
6	Convert item 4 to binary and enter in bits 12 through 15 of item 2.
7	Enter the NNX code to be assigned to this NOC in item 5.
8	Use Table B to convert item 5 to equivalent BCD code. Enter this value in item 6 of the NOC-1 form.
9	Convert item 6 to binary and enter in bits 0 through 11 of item 2 of the NOC-1 form.
10	Convert item 2 to octal and enter in NEW CONTENTS line which corresponds to the NOC that has been selected.
	<b>Note:</b> If office is equipped with LO-1 generic, procedure is finished.
11	Obtain address associated with the NOC in item 2 and enter in item 7.
12	Enter NPA code to be assigned to the NOC in item 8.

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STEP	PROCEDURE
13	Use Table B to convert item 8 to its BCD equivalent. Enter this number in item 9.
14	Convert item 9 to binary and enter in item 10 bits 0 through 11.
15	Enter the route index to be used for intercept treatment in item 11.
16	Convert item 11 to octal and enter in item 12.
17	Convert item 12 to binary and enter in item 10 bits 20 through 12.
18	Add octal 20 to item 7 and enter in item 13(a) (ADDRESS).
19	Convert item 10 to octal and enter in item 13(c) (NEW CONTENTS).
20	Enter all zeros in item 13(b) (OLD CONTENTS).
21	Perform changes in program store by following the procedures outlined in Section 232-127-303 or 232-327-303 for No. 2 ESS and No. 2B ESS, respectively.

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TABLE B

## BCD CONVERSIONS

200 = 1252	250 = 1132	300 = 1652	350 = 1532	400 = 2252	450 = 2132	500 = 2652	550 = 2532
201 = 1241	251 = 1121	301 = 1641	351 = 1521	401 = 2241	451 = 2121	501 = 2641	551 = 2521
202 = 1242	252 = 1122	302 = 1642	352 = 1522	402 = 2242	452 = 2122	502 = 2642	552 = 2522
203 = 1243	253 = 1123	303 = 1643	353 = 1523	403 = 2243	453 = 2123	503 = 2643	553 = 2523
204 = 1244	254 = 1124	304 = 1644	354 = 1524	404 = 2244	454 = 2124	504 = 2644	554 = 2524
205 = 1245	255 = 1125	305 = 1645	355 = 1525	405 = 2245	455 = 2125	505 = 2645	555 = 2525
206 = 1246	256 = 1126	306 = 1646	356 = 1526	406 = 2246	456 = 2126	506 = 2646	556 = 2526
207 = 1247	257 = 1127	307 = 1647	357 = 1527	407 = 2247	457 = 2127	507 = 2647	557 = 2527
208 = 1250	258 = 1130	308 = 1650	358 = 1530	408 = 2250	458 = 2130	508 = 2650	558 = 2530
209 = 1251	259 = 1131	309 = 1651	359 = 1531	409 = 2251	459 = 2131	509 = 2651	559 = 2531
210 = 1032	260 = 1152	310 = 1432	360 = 1552	410 = 2032	460 = 2152	510 = 2432	560 = 2552
211 = 1021	261 = 1141	311 = 1421	361 = 1541	411 = 2021	461 = 2141	511 = 2421	561 = 2541
212 = 1022	262 = 1142	312 = 1422	362 = 1542	412 = 2022	462 = 2142	512 = 2422	562 = 2542
213 = 1023	263 = 1143	313 = 1423	363 = 1543	413 = 2023	463 = 2143	513 = 2423	563 = 2543
214 = 1024	264 = 1144	314 = 1424	364 = 1544	414 = 2024	464 = 2144	514 = 2424	564 = 2544
215 = 1025	265 = 1145	315 = 1425	365 = 1545	415 = 2025	465 = 2145	515 = 2425	565 = 2545
216 = 1026	266 = 1146	316 = 1426	366 = 1546	416 = 2026	466 = 2146	516 = 2426	566 = 2546
217 = 1027	267 = 1147	317 = 1427	367 = 1547	417 = 2027	467 = 2147	517 = 2427	567 = 2547
218 = 1030	268 = 1150	318 = 1430	368 = 1550	418 = 2030	468 = 2150	518 = 2430	568 = 2550
219 = 1031	269 = 1151	319 = 1431	369 = 1551	419 = 2031	469 = 2151	519 = 2431	569 = 2551
220 = 1052	270 = 1172	320 = 1452	370 = 1572	420 = 2052	470 = 2172	520 = 2452	570 = 2572
221 = 1041	271 = 1161	321 = 1441	371 = 1561	421 = 2041	471 = 2161	521 = 2441	571 = 2561
222 = 1042	272 = 1162	322 = 1442	372 = 1562	422 = 2042	472 = 2162	522 = 2442	572 = 2562
223 = 1043	273 = 1163	323 = 1443	373 = 1563	423 = 2043	473 = 2163	523 = 2443	573 = 2563
224 = 1044	274 = 1164	324 = 1444	374 = 1564	424 = 2044	474 = 2164	524 = 2444	574 = 2564
225 = 1045	275 = 1165	325 = 1445	375 = 1565	425 = 2045	475 = 2165	525 = 2445	575 = 2565
226 = 1046	276 = 1166	326 = 1446	376 = 1566	426 = 2046	476 = 2166	526 = 2446	576 = 2566
227 = 1047	277 = 1167	327 = 1447	377 = 1567	427 = 2047	477 = 2167	527 = 2447	577 = 2567
228 = 1050	278 = 1170	328 = 1450	378 = 1570	428 = 2050	478 = 2170	528 = 2450	578 = 2570
229 = 1051	279 = 1171	329 = 1451	379 = 1571	429 = 2051	479 = 2171	529 = 2451	579 = 2571
230 = 1072	280 = 1212	330 = 1472	380 = 1612	430 = 2072	480 = 2212	530 = 2472	580 = 2612
231 = 1061	281 = 1201	331 = 1461	381 = 1601	431 = 2061	481 = 2201	531 = 2461	581 = 2601
232 = 1062	282 = 1202	332 = 1462	382 = 1602	432 = 2062	482 = 2202	532 = 2462	582 = 2602
233 = 1063	283 = 1203	333 = 1463	383 = 1603	433 = 2063	483 = 2203	533 = 2463	583 = 2603
234 = 1064	284 = 1204	334 = 1464	384 = 1604	434 = 2064	484 = 2204	534 = 2464	584 = 2604
235 = 1065	285 = 1205	335 = 1465	385 = 1605	435 = 2065	485 = 2205	535 = 2465	585 = 2605
236 = 1066	286 = 1206	336 = 1466	386 = 1606	436 = 2066	486 = 2206	536 = 2466	586 = 2606
237 = 1067	287 = 1207	337 = 1467	387 = 1607	437 = 2067	487 = 2207	537 = 2467	587 = 2607
238 = 1070	288 = 1210	338 = 1470	388 = 1610	438 = 2070	488 = 2210	538 = 2470	588 = 2610
239 = 1071	289 = 1211	339 = 1471	389 = 1611	439 = 2071	489 = 2211	539 = 2471	589 = 2611
240 = 1112	290 = 1232	340 = 1512	390 = 1632	440 = 2112	490 = 2232	540 = 2512	590 = 2632
241 = 1101	291 = 1221	341 = 1501	391 = 1621	441 = 2101	491 = 2221	541 = 2501	591 = 2621
242 = 1102	292 = 1222	342 = 1502	392 = 1622	442 = 2102	492 = 2222	542 = 2502	592 = 2622
243 = 1103	293 = 1223	343 = 1503	393 = 1623	443 = 2103	493 = 2223	543 = 2503	593 = 2623
244 = 1104	294 = 1224	344 = 1504	394 = 1624	444 = 2104	494 = 2224	544 = 2504	594 = 2624
245 = 1105	295 = 1225	345 = 1505	395 = 1625	445 = 2105	495 = 2225	545 = 2505	595 = 2625
246 = 1106	296 = 1226	346 = 1506	396 = 1626	446 = 2106	496 = 2226	546 = 2506	596 = 2626
247 = 1107	297 = 1227	347 = 1507	397 = 1627	447 = 2107	497 = 2227	547 = 2507	597 = 2627
248 = 1110	298 = 1230	348 = 1510	398 = 1630	448 = 2110	498 = 2230	548 = 2510	598 = 2630
249 = 1111	299 = 1231	349 = 1511	399 = 1631	449 = 2111	499 = 2231	549 = 2511	599 = 2631

TABLE B (CONTD)

## BCD CONVERSIONS

600 = 3252	650 = 3132	700 = 3652	750 = 3532	800 = 4252	850 = 4132	900 = 4652	950 = 4532
601 = 3241	651 = 3121	701 = 3641	751 = 3521	801 = 4241	851 = 4121	901 = 4641	951 = 4521
602 = 3242	652 = 3122	702 = 3642	752 = 3522	802 = 4242	852 = 4122	902 = 4642	952 = 4522
603 = 3243	653 = 3123	703 = 3643	753 = 3523	803 = 4243	853 = 4123	903 = 4643	953 = 4523
604 = 3244	654 = 3124	704 = 3644	754 = 3524	804 = 4244	854 = 4124	904 = 4644	954 = 4524
605 = 3245	655 = 3125	705 = 3645	755 = 3525	805 = 4245	855 = 4125	905 = 4645	955 = 4525
606 = 3246	656 = 3126	706 = 3646	756 = 3526	806 = 4246	856 = 4126	906 = 4646	956 = 4526
607 = 3247	657 = 3127	707 = 3647	757 = 3527	807 = 4247	857 = 4127	907 = 4647	957 = 4527
608 = 3250	658 = 3130	708 = 3650	758 = 3530	808 = 4250	858 = 4130	908 = 4650	958 = 4530
609 = 3251	659 = 3131	709 = 3651	759 = 3531	809 = 4251	859 = 4131	909 = 4651	959 = 4531
610 = 3032	660 = 3152	710 = 3432	760 = 3552	810 = 4032	860 = 4152	910 = 4432	960 = 4552
611 = 3021	661 = 3141	711 = 3421	761 = 3541	811 = 4021	861 = 4141	911 = 4421	961 = 4541
612 = 3022	662 = 3142	712 = 3422	762 = 3542	812 = 4022	862 = 4142	912 = 4422	962 = 4542
613 = 3023	663 = 3143	713 = 3423	763 = 3543	813 = 4023	863 = 4143	913 = 4423	963 = 4543
614 = 3024	664 = 3144	714 = 3424	764 = 3544	814 = 4024	864 = 4144	914 = 4424	964 = 4544
615 = 3025	665 = 3145	715 = 3425	765 = 3545	815 = 4025	865 = 4145	915 = 4425	965 = 4545
616 = 3026	666 = 3146	716 = 3426	766 = 3546	816 = 4026	866 = 4146	916 = 4426	966 = 4546
617 = 3027	667 = 3147	717 = 3427	767 = 3547	817 = 4027	867 = 4147	917 = 4427	967 = 4547
618 = 3030	668 = 3150	718 = 3430	768 = 3550	818 = 4030	868 = 4150	918 = 4430	968 = 4550
619 = 3031	669 = 3151	719 = 3431	769 = 3551	819 = 4031	869 = 4151	919 = 4431	969 = 4551
620 = 3052	670 = 3172	720 = 3452	770 = 3572	820 = 4052	870 = 4172	920 = 4452	970 = 4572
621 = 3041	671 = 3161	721 = 3441	771 = 3561	821 = 4041	871 = 4161	921 = 4441	971 = 4561
622 = 3042	672 = 3162	722 = 3442	772 = 3562	822 = 4042	872 = 4162	922 = 4442	972 = 4562
623 = 3043	673 = 3163	723 = 3443	773 = 3563	823 = 4043	873 = 4163	923 = 4443	973 = 4563
624 = 3044	674 = 3164	724 = 3444	774 = 3564	824 = 4044	874 = 4164	924 = 4444	974 = 4564
625 = 3045	675 = 3165	725 = 3445	775 = 3565	825 = 4045	875 = 4165	925 = 4445	975 = 4565
626 = 3046	676 = 3166	726 = 3446	776 = 3566	826 = 4046	876 = 4166	926 = 4446	976 = 4566
627 = 3047	677 = 3167	727 = 3447	777 = 3567	827 = 4047	877 = 4167	927 = 4447	977 = 4567
628 = 3050	678 = 3170	728 = 3450	778 = 3570	828 = 4050	878 = 4170	928 = 4450	978 = 4570
629 = 3051	679 = 3171	729 = 3451	779 = 3571	829 = 4051	879 = 4171	929 = 4451	979 = 4571
630 = 3072	680 = 3212	730 = 3472	780 = 3612	830 = 4072	880 = 4212	930 = 4472	980 = 4612
631 = 3061	681 = 3201	731 = 3461	781 = 3601	831 = 4061	881 = 4201	931 = 4461	981 = 4601
632 = 3062	682 = 3202	732 = 3462	782 = 3602	832 = 4062	882 = 4202	932 = 4462	982 = 4602
633 = 3063	683 = 3203	733 = 3463	783 = 3603	833 = 4063	883 = 4203	933 = 4463	983 = 4603
634 = 3064	684 = 3204	734 = 3464	784 = 3604	834 = 4064	884 = 4204	934 = 4464	984 = 4604
635 = 3065	685 = 3205	735 = 3465	785 = 3605	835 = 4065	885 = 4205	935 = 4465	985 = 4605
636 = 3066	686 = 3206	736 = 3466	786 = 3606	836 = 4066	886 = 4206	936 = 4466	986 = 4606
637 = 3067	687 = 3207	737 = 3467	787 = 3607	837 = 4067	887 = 4207	937 = 4467	987 = 4607
638 = 3070	688 = 3210	738 = 3470	788 = 3610	838 = 4070	888 = 4210	938 = 4470	988 = 4610
639 = 3071	689 = 3211	739 = 3471	789 = 3611	839 = 4071	889 = 4211	939 = 4471	989 = 4611
640 = 3112	690 = 3232	740 = 3512	790 = 3632	840 = 4112	890 = 4232	940 = 4512	990 = 4632
641 = 3101	691 = 3221	741 = 3501	791 = 3621	841 = 4101	891 = 4221	941 = 4501	991 = 4621
642 = 3102	692 = 3222	742 = 3502	792 = 3622	842 = 4102	892 = 4222	942 = 4502	992 = 4622
643 = 3103	693 = 3223	743 = 3503	793 = 3623	843 = 4103	893 = 4223	943 = 4503	993 = 4623
644 = 3104	694 = 3224	744 = 3504	794 = 3624	844 = 4104	894 = 4224	944 = 4504	994 = 4624
645 = 3105	695 = 3225	745 = 3505	795 = 3625	845 = 4105	895 = 4225	945 = 4505	995 = 4625
646 = 3106	696 = 3226	746 = 3506	796 = 3626	846 = 4106	896 = 4226	946 = 4506	996 = 4626
647 = 3107	697 = 3227	747 = 3507	797 = 3627	847 = 4107	897 = 4227	947 = 4507	997 = 4627
648 = 3110	698 = 3230	748 = 3510	798 = 3630	848 = 4110	898 = 4230	948 = 4510	998 = 4630
649 = 3111	699 = 3231	749 = 3511	799 = 3631	849 = 4111	899 = 4231	949 = 4511	999 = 4631

NOC-1 FORM

1. NOC INFORMATION

NOC	LO-1	EF-1	EF-2	2B-EF-1	2B-EF-2	OLD CONTENTS	NEW CONTENTS
0	241210	341740	441740	641740	741740	-----	-----
1	241211	341741	441741	641741	741741	-----	-----
2	241212	341742	441742	641742	741742	00000000	00021223
3	241213	341743	441743	641743	741743	-----	-----
4	241214	341744	441744	641744	741744	-----	-----
5	241215	341745	441745	641745	741745	-----	-----
6	241216	341746	441746	641746	741746	-----	-----
7	241217	341747	441747	641747	741747	-----	-----
8	241220	341750	441750	641750	741750	-----	-----
9	241221	341751	441751	641751	741751	-----	-----
10	241222	341752	441752	641752	741752	-----	-----
11	241223	341753	441753	641753	741753	-----	-----
12	241224	341754	441754	641754	741754	-----	-----
13	241225	341755	441755	641755	741755	-----	-----
14	241226	341756	441756	641756	741756	-----	-----
15	241227	341757	441757	641757	741757	-----	-----

2.  $\frac{1}{20} \frac{0}{19} \frac{0}{18} \frac{0}{17} \frac{0}{16} \frac{0}{15} \frac{0}{14} \frac{1}{13} \frac{0}{12} \frac{0}{11} \frac{0}{10} \frac{1}{9} \frac{0}{8} \frac{1}{7} \frac{0}{6} \frac{0}{5} \frac{1}{4} \frac{0}{3} \frac{0}{2} \frac{1}{1} \frac{1}{0}$

3. TNOC converted to octal=     

4. NOC converted to octal=   2  

5. NNX =  293 

6. BCD equivalent of NNX=  1223 

7. Address of NOC=  741742 

8. NPA=  614 

9. BCD equivalent of item 8=  3024 

10.  $\frac{1}{20} \frac{0}{19} \frac{0}{18} \frac{0}{17} \frac{0}{16} \frac{0}{15} \frac{0}{14} \frac{0}{13} \frac{0}{12} \frac{0}{11} \frac{1}{10} \frac{1}{9} \frac{0}{8} \frac{0}{7} \frac{0}{6} \frac{0}{5} \frac{1}{4} \frac{0}{3} \frac{1}{2} \frac{0}{1} \frac{0}{0}$

11. Route Index=  000 

12. Item 11 converted to octal=  000 

13.	ADDRESS	OLD CONTENTS	NEW CONTENTS
	<u> 741232 </u>	<u> 00000000 </u>	<u> 00003024 </u>
	(a)	(b)	(c)

Fig. 1—Example of Completed NOC-1 Form

SECTION 232-127-317

NOC-1 FORM

1. NOC INFORMATION

NOC	LO-1	EF-1	EF-2	2B-EF-1	2B-EF-2	OLD CONTENTS	NEW CONTENTS
0	241210	341740	441740	641740	741740	-----	-----
1	241211	341741	441741	641741	741741	-----	-----
2	241212	341742	441742	641742	741742	-----	-----
3	241213	341743	441743	641743	741743	-----	-----
4	241214	341744	441744	641744	741744	-----	-----
5	241215	341745	441745	641745	741745	-----	-----
6	241216	341746	441746	641746	741746	-----	-----
7	241217	341747	441747	641747	741747	-----	-----
8	241220	341750	441750	641750	741750	-----	-----
9	241221	341751	441751	641751	741751	-----	-----
10	241222	341752	441752	641752	741752	-----	-----
11	241223	341753	441753	641753	741753	-----	-----
12	241224	341754	441754	641754	741754	-----	-----
13	241225	341755	441755	641755	741755	-----	-----
14	241226	341756	441756	641756	741756	-----	-----
15	241227	341757	441757	641757	741757	-----	-----

2.  $\begin{array}{c} | \\ \hline 20 \ 19 \ 18 \ 17 \ 16 \ 15 \ 14 \ 13 \ 12 \ 11 \ 10 \ 9 \ 8 \ 7 \ 6 \ 5 \ 4 \ 3 \ 2 \ 1 \ 0 \\ \hline | \end{array}$

3. TNOC converted to octal=     

4. NOC converted to octal=     

5. NNX =     

6. BCD equivalent of NNX=     

7. Address of NOC=     

8. NPA=     

9. BCD equivalent of item 8=     

10.  $\begin{array}{c} | \\ \hline 20 \ 19 \ 18 \ 17 \ 16 \ 15 \ 14 \ 13 \ 12 \ 11 \ 10 \ 9 \ 8 \ 7 \ 6 \ 5 \ 4 \ 3 \ 2 \ 1 \ 0 \\ \hline | \end{array}$

11. Route Index=     

12. Item 11 converted to octal=     

13.	ADDRESS	OLD CONTENTS	NEW CONTENTS
	<u>    </u>	<u>    </u>	<u>    </u>
	(a)	(b)	(c)

Fig. 2—Reproducible NOC-1 Form