

INTERCOMPANY SERVICES COORDINATION PLAN ENGINEERING REPORTS

CONTENTS	PAGE
1. GENERAL	1
2. ENGINEERING INFORMATION REPORT	1
3. ADVANCE CIRCUIT ORDER AND LAYOUT INFORMATION	2
4. ENGINEERING SERVICE ORDER	3

1. GENERAL

1.01 This section describes the engineering reports that may be required under the Intercompany Services Coordination (ISC) Plan. These reports may also be applicable to the procedures for non-ISC intercompany services. The reports covered by this section are as follows:

- (a) Engineering Information Report (EIR),
- (b) Advance Circuit Order and Layout Information (ACOLI), and
- (c) Engineering Service Order (ESO).

1.02 This section has been revised and replaces Issue 3. Since this is a general revision, arrows ordinarily used to indicate changes have been omitted.

2. ENGINEERING INFORMATION REPORT

2.01 Engineering Information Reports are used by ISC Team Design members, their designated representatives, and by circuit designers to convey circuit design data between engineering areas responsible for circuit design. Included in these areas are work groups such as the Engineering Control Office (ECO), Local Engineering Control Office (LECO) and Station Engineering Control Office (SECO). The purpose of the EIR is

coordination of design effort to successfully fulfill the service order Assignment Date (AD) requirements. These coordination efforts should be completed by the Confirming Engineering Information Report (CEIR) date indicated on the service order. The EIR may also be used for these occasions when ECO provides design information to LECO so that local design efforts will produce required local work documents to meet DVA in a timely manner.

2.02 The EIR prepared by the LECO should include the following minimum data as applicable to the circuit design:

- (a) Local channel assignments and the corresponding make-up and length,
- (b) Interoffice facility assignments and the corresponding make-up and mileage,
- (c) Central office equipment assignments and configurations,
- (d) Station termination equipment and configuration, and
- (e) Requisition numbers as required.

2.03 The EIR prepared by ECO will be in the same format as the one prepared by LECO; but will be a request for the addition, deletion or change to the circuit design received from LECO. Further, the EIR may contain as much circuit layout description (including station layout) as necessary to convey the designer's intent. When the LECO circuit design meets ECO's requirements, then a confirming EIR (CEIR) is sent to LECO. The EIR format is specified in 2.04 and may be communicated verbally.

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2.04 EIR format—the following entries in the sequence shown will be used for Engineering Information Reports:

- (a) TO—Enter the ADNet number of office addressed as shown in the ISC Directory, followed by the city or the office code and the initials and telephone number, or the particular individual to whom the report is being directed (if known).
- (b) ORG—Enter the ADNet number of the office preparing the report as shown in the ISC Directory, followed by the office code and the preparer's initials and telephone number.
- (c) ISC—Enter the Universal Service Order (USO) number for which the report is being made. Include any suffixes followed by the letters EIR.
- (d) ORD—Enter any local service order numbers related to the USO.
- (e) CKT—Enter the circuit identification as stated on the USO.
- (f) CCN—Enter the customer's name as stated on the USO.
- (g) CTL—Enter the EIRD as stated on the USO if prepared by LECO or SECO, or enter the AD if prepared by ECO.
- (h) RMK—Enter the letters EIR (and supplemental numeric suffixes) followed by the facilities and equipment to be provided in transmission sequence beginning with the station end and continuing up to the point of connection. In the case of an EIR which requests information, indicate the information required. The Private Line Service Termination-Station Engineering Section 812-002-xxx may be referenced to clarify the arrangement being used. Include any local drawing numbers which should be entered on the Circuit Layout Record (CLR), or Work Order Record and Detail (WORD).

Entries should be in Bell System Standard Common Language, eg, Common Language Location Identification (CLLI) Codes in the BSP 795-XXX-XXX series for identification of locations, otherwise spell out completely.

2.05 The confirming EIR (CEIR) may also specify additions, deletions, or changes to the circuit layout received from or agreed to with LECO or SECO. In either case, the confirming EIR is a positive report to LECO which will allow LECO to fulfill its AD requirements as specified in Section 010-520-136 **Engineering Responsibilities**. The ECO should also provide timely design information which will allow LECO to meet such record issue responsibilities as they may have, particularly with respect to mechanized systems such as TIRKS, etc. This information may be in either EIR or CLR format, but would always be provided on or after AD. Further, the intent of the EIR format is to allow for flexibility; but within a framework of consistency of a standard approach to the problem of circuit design coordination.

2.06 Figures 1 and 2 depict typical EIRs.

3. ADVANCE CIRCUIT ORDER AND LAYOUT INFORMATION

3.01 The Advance Circuit Order and Layout Information (ACOLI) is required when CLR's cannot be distributed to the Plant locations in sufficient time so as to allow Plant to meet its Designed, Verified and Assigned (DVA) obligations. The ACOLI is an expedient and should not normally be used in lieu of the CLR for circuit installation. Further, the ACOLI should contain information which will allow Plant to perform its DVA functions; but when deemed necessary (short interval orders) the ACOLI may include all or part of the circuit design data necessary to test and turn up the circuit. The ACOLI may be transmitted in written or verbal format; but always in an expeditious manner.

3.02 The ACOLI is prepared upon completion of the circuit design and must include the following minimum information:

- (a) Local channel assignments,
- (b) Interoffice facility assignments,
- (c) Central Office equipment assignments (including plug-in equipment components as applicable),
- (d) Station termination equipment (including plug-in equipment components as applicable), and

- (e) Necessary drawing numbers or other information, eg, data set options, sufficient to allow Plant to correctly install and test the circuit.
- (f) Administrative information pertinent for service order coordination, eg, related order numbers, control offices, etc.

The above data is formatted in a similar manner to the EIR, and the circuit layout information is entered in transmission sequence beginning with the station termination. Figure 3 depicts a typical ACOLI.

3.03 ACOLI entries should be in Bell System Standard Common Language, eg, CLLIs and Equipment Identification Codes, otherwise spell out completely.

4. ENGINEERING SERVICE ORDER

4.01 Engineering Service Orders (ESOs) are issued by ECO or LECO to change or modify circuits under their control. Plant activities such as; station equipment changes, local channel or cable transfers, central office equipment rearrangements, interchange facility transfers, service improvement, overall customer termination to termination circuit order testing required by above changes involving an ISC service. The ESO is the work authorization for the Design and Plant activities. An ESO will only be issued to implement changes not affecting customer billing. The responsible sales group shall be advised if the ESO causes a change in customer operation.

4.02 An ESO can also be issued to establish, change or disconnect Long Lines or Operating Company official circuits which provide for testing and maintenance of facilities, eg, order wire and alarm systems. The ESO is the work authority for Design and Plant activities.

Note: Every effort should be made to include provision for these circuit types in the initial overall facility project to which the circuits are associated in order to minimize ESO use.

4.03 ESOs shall be numbered by the originating Engineering Control office using the letters "ESO" followed by two blocks of 4-digit numbers. The first block identifies the ISC Area issuing the

ESO. Since Long Lines engineering offices serve several Areas, the last two digits of the initial 4-digit block shall be "00". The second 4-digit block should be assigned sequentially by each engineering office, beginning with 0001. When 9999 is reached, recycling should begin. Examples of the number scheme are:

(a) ES01110-0091: Indicates the 91st ESO issued by the Northeastern Area Engineering office of the Ohio Bell Telephone Company.

(b) ESO3500-1776: Indicates the 1776th ESO issued by the Midwestern Area Engineering office of Long Lines. Note that the code will be 3500 whether the service to be changed was implemented by Dallas (3501), Houston (3502), etc.

4.04 The format to be used when issuing ESOs is as follows:

(a) TO—Enter the ADNet or DATA-PHONE® address of all locations (including PCO) at which activity will be required.

(b) ORG—Enter the ADNet or DATA-PHONE code, office code, and the preparer's initials and telephone number.

(c) ORD—Enter the letters "ESO" followed by the complete ESO number as described in 4.03.

(d) CKT—Enter the complete circuit identification of the service being changed.

(e) CCN—Enter the customer name.

(f) CKL—Enter circuit location addresses affected by the ESO.

(g) CTL—Enter critical dates, PCO, and other administrative information as applicable.

(h) RMK—Enter ESO followed by the complete description of the required change, the date required, the reason for the change, and any other information relative to implementing the changes. Both the on and the off facilities or equipment must be stated in the remarks section.

4.04 Figures 4 and 5 depict typical ESOs.

SECTION 010-520-114

TO ATT20
 ORG SWB460/NF/816-474-8278
 ISC N3519-0029-00 EIR
 ORD GAS 9148
 CKT FDDT 123456 LL
 CCN ISSITT HANDI-CRAFTS
 CTL EIRD 3-11-79
 RMK EIR-1 AT KSCYMO9094T

1. STN. EQPT. — 8D28AAA —
 E/W 1 — VRELB
 2 — VRA01
 1 — 6D01B
 1 — 568AA HANDSET
2. L/C
 4W TPKAKSJA02T TO — CSRSS 32 X 430
 X 431

 7.5 Kft. 26NL
 0.4 Kft. 24NL
 BT .9Kft. 24NL
3. IXC
 123-T2-15 KSCYMO9094T TO TPKAKSJA02T
 MI 98.1
4. COE
 AT TPKAKS PROVIDE XN4WB-A, D1CB, SF60

Fig. 1—Typical EIR from LECO

TO SWB261
 ORG LSS60/GWJ/404-232-2799
 ISC C3309-1492-00 EIR
 ORD C3309-1491-00
 CKT FDDT 987654 LL
 CCN BUHL CONSTRUCTION CO.
 CTL AD 5-29-76
 RMK EIR- AT DLLSTX CSR.LEN.PROVIDE:

- 1 — 8D28AAA — E/W
 2 — VRA01
 1 — VRELB
 1 — 568AA HANDSET
- 1 — 2D08AAB —
 OPTIONS REQD:
 S1C DOWN
 S3A UP
 S3B UP
 S3C UP
 S4A DOWN
 S4B DOWN
 S4C DOWN
- 2 — All other information received from LECO
 will be used in the final circuit layout and
 no further confirmations will be sent unless
 the above items cannot be provided as
 specified.

Fig. 2—Typical EIR from ECO

S1591 06/18 1417 EDT
 LEN235 GIF290 GIF261 SB1748
 ORG LSS62 , 3300E , ENGR JRL , /TN 404-529-6601
 1SC 330032S10
 CKT PLNT321640 LL /A TFTNGAMA /Z VARSPTS
 CCN NOAKES AUTO PARTS
 PTD 06263 DD 06233 ID
 PCO TAMPFLXATO 1 SEG NO. 43 ACTION-ADD
 RMK ACOLICO.G2495101 ISSUE 01 ITEM 01
 ASSUMESCO.G2495101 G2495101
 HF OFFICE FAC & EQUPT UZ - AA - ZO Z - A MISC A - Z MISC

03A	REF		7.0	-8.0
04A				
05A	V4C	G18.5G 11.5 C 4W	7.0	3.5
06A	V4C	G15.0 C TB	-11.5	0.0
07A	4NB	3.5 5.8 C 4W	-8.0	-6.2
08Z	PL4LC		-4.1	-9.7
09CUSTMR	PLSTN		-0.6	-18.0
10CUSTMR	PLREF		8.0	-18.0

NOTES

11A03 TERM IN BDG ASSGD SEG 50
 12A07 STRAP 600:600
 13A TNISSD TO ADD STN AT TFTNGAMA PER USO
 14A TNINDEX AND OVERALL TO BE ISSD UNDER
 15A TNGSONIM. DVA 6-26-73. CFRMSACOLI
 16A TNENGRJRL/BAN 404-529-6601
 17A TN/DA1/DOO/DT1 1 ITEM /N-H/
 02A1 4LC to TFTNGAMA
 03A1 M1 GA DB 1 HALL'S AUTO PARTS
 04A10 -026NEH2.6 -0.6 -9.7 HIWAY 41
 05A10.4 1 TFTNGAMA
 06A11.3 24NEH 0.9 SD69254-01 STRAP FOR 5 STN LOSS
 07A1 TOTAL 3.5 FIG 2, G, Z, 12
 08A1 219 A KTU
 09A1 1
 10A1 SD69254-01.....
 11A1 FIG 1/Z/.7
 12A1 218A KTU
 13A1 8.0 -180
 14A1 TERM IN 6 BUTTON
 15A1 KEY SET E/WP/T TO 106 B
 16A1 MUTE L/S LOUD SPKR

E R HODGETTS SM
 06-18-75 1:42 AHE LSS62

Fig. 3—Typical ACOI

SECTION 010-520-114

TO 910-221-1244/CFM/
ORG 910-771-3055 3400 /JES/ 312-885-9999
ISC ESO 3500-0017
CKT FDDT 10427 LL
CCN VETERANS' ADMINISTRATION
CKL CKL1-123 FRONT STREET
CTL AD-6-20-74, PCO MYWDILMO
RMK ESO: PLS CHANGE AT CUSTOMER, MYWDILMO
TO 4T90 E/W BNEDH AND
DLSE TO IMPROVE RET LOSS
CUSTR COMPLAINS OF ERROR RATE
WITH 2D02C.
REQUIRED DATE: 9/1/74

Fig. 4—Typical ESO

TO 910-221-1244 /CFM/
ORG 910-771-3005 3500 /JES/ 312-885-9999
ISC ESO 3400-0017
CKT FDDT 432196 LL
CCN VETERANS' ADMINISTRATION
CKL CKL1-7254 ARLINGTON ROAD
CKL AD-7-3-74, PCO-ARLNVAMO
RMK ESO: "Due to cable re-arrangements as
covered under Estimate F-6047.
DD 7-15-74, the following changes
will be required to the above
circuit:

Change Local Exchange Pairs serving
CKL 5, 7254 Arlington Road: From:
From: Cable 25, PR 501(T), 502(R)
6250' -26NL 4.6db
4320' -24NL 753 OHMS.
3000' -BT

To: Cable 26, PR 325 (T), 326 (R)
6000' -26H88
8100' -24H88
4500' -22H88
500' -BT, 3 COILS
5.1db .1101 OHMS.

In the Arlington C.O. add the
following:

- 1- VRM4B E/W
- 2- VRA01
- 3- VRELA

See CLR FDDT 125470 for trans-
mission details

Fig. 5—Typical ESO