

PREPARATION OF NONGENERIC PARAMETER DATA (NPD) FORMS
CHANNEL PARAMETERS—NO. 1A AMARC
BILLING SYSTEMS
SUPPLEMENTAL INFORMATION—CENTRAL OFFICES

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9. FORM ENTRIES—NO. 1A AMARC FORM 0303	8	1.01 This section is issued to give specific instructions for preparing Automatic Message Accounting Recording Center (AMARC) Nongeneric Parameter Data (NPD) forms required to input Channel Parameters to the No. 1A AMARC. These forms are valid through generic 2.
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NOTICE

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SECTION 201-900-078

1.04 Channel parameters provide information unique to the individual channels of an AMARC.

1.05 For each equipped channel these parameters specify:

- (a) The number of the entity assigned to the channel.
- (b) The local channel number by which the channel can be identified to the remote office served by Electronic Translator System (ETS), Voice Storage System (VSS), Call Data Accumulator (CDA), and Billing Data Transmitter (BDT) channels.
- (c) The dial sequence required to reach the appropriate 202S Data Set at the remote office and establish a dialup data link when an ETS, VSS, CDA, or BDT channel is out of service.
- (d) Whether or not the entity assigned to the channel has ISR customers.

1.06 For each channel assigned to a CDA entity, these parameters specify:

- (a) The last assigned scan port address of each CDA multiplexer which is associated with the channel. This information is needed for a maintenance report provided by the AMARC.
- (b) The telephone number which will be transmitted to the AMARC on the test calls made by the channel monitor equipment of the CDA entity assigned to the channel.

1.07 For each channel assigned to a BDT entity, these parameters specify the highest equipped trunk number of each BDT recorder port which is associated with the channel. This information is needed for a maintenance report provided by the AMARC.

1.08 For each channel assigned to a No. 3 ESS entity, these parameters specify whether the channel is a primary or a dedicated backup channel. If the channel is primary, these parameters also specify:

- (a) The highest equipped junctor in the No. 3 ESS office. This information is needed to

assign Call Record Registers (CRRs) by the AMARC system.

- (b) The terminal identification of the No. 3 ESS entity for data link handshaking purposes between the entity and the AMARC.

2. AMARC CHANNELS EQUIPPED—NO. 1A AMARC FORM 0300

2.01 The information entered on this form is entered into the Channel Table for the AMARC. For each equipped channel, this table specifies the following: entity number assigned, local channel number designation, dial sequence required to reach the dialup data set and whether or not the entity offers ISR class of service. Information is also entered into the Channel Table from Form 0105 via the **RC DLP EQP** input message. Form 0105 is described in Section 201-900-076.

2.02 Entries to the Channel Table can be verified by input message **DUMP MEM NPD CHL**.

2.03 One Form 0300 is prepared for an AMARC.

3. FORM ENTRIES—NO. 1A AMARC FORM 0300

3.01 Figure 1 is a sample Form 0300. The following paragraphs describe the entries to be made on the form.

3.02 Channels must be equipped in ascending order and unequipped in descending order within an even-odd multiplexer pair. Multiplexers 00 and 01 form an even-odd multiplexer pair as do 02 and 03, 04 and 05, etc. All channels may be accessed via the **RC CHL EQP** input message; but only 0, 20, 40, 60, 100, and 120 may be accessed via the **RC DLP EQP** input message and equipped as dial backup channels. When these channels have been equipped as dialups from Form AMARC 0105, an appropriate entry should be made on Form AMARC 0300 for the dialup channels to avoid attempting to re-equip them.

3.03 The appropriate multiplexer must first be equipped via the **RC MPX EQP** input message before equipping a channel via the **RC CHL EQP** input message.

3.04 *Entity Name*—Enter the name or CLLI code of the entity assigned to the channel.

- 3.05** The assignment of entities to channels requires some planning. Channels must be equipped in ascending order of channel number within an even-odd multiplexer pair and removed from the AMARC in descending order of channel number within an even-odd multiplexer pair.
- 3.06** The order in which channels are assigned must reflect the order in which they are to be removed from the AMARC (due to conversion to No. 1 ESS, for example). When a channel is removed from a multiplexer (channels 000 through 017 are multiplexer pair 00 and 01, channels 020 through 037 are multiplexer pair 02 and 03), it must be the highest-numbered equipped channel on the multiplexer pair. To prevent excessive rearranging, therefore, entities that are to be removed in the future should be assigned to the higher-numbered channels on a multiplexer pair. If a channel was removed in the middle of a multiplexer pair, all higher-numbered channels on that pair would have to be reassigned. This involves reentering channel-related nongeneric parameters of all channels involved in the rearrangement. This consideration of assigning channels applies to each multiplexer pair separately. Channels may be removed from any multiplexer pair without regard to any other multiplexer pair except for BDT and 3ESS channel pairs equipped across two multiplexer pairs (see paragraph 3.14).
- 3.07** For example, the sample Form 0300 in Fig. 1 shows entity 04 assigned to channels 021 and 022. Entity 04 was equipped next after entity 03 and it would appear that channels 007 and 010 should have been assigned to it. Entity 04 will be converted to No. 1 ESS in the future. There are no plans to convert entities 05, 06, or 07. Entity 04 was assigned to channels 021 and 022 to facilitate their removal when converted.
- 3.08** Channels may be assigned in any even-odd multiplexer pair before all channels of other multiplexer pairs have been assigned. For example, channels may be assigned on multiplexer pair 02-03 before all the channels of multiplexer pair 00 and 01 are assigned.
- 3.09** If it is necessary to remove an entity which is assigned to channels in the middle of a multiplexer set, the reassignment of channels and reentering NPD can be avoided in one specific situation. This situation is when the channels of the entity to be removed can be reassigned immediately to a new entity. The new entity must require the same number of channels.
- 3.10** The procedure for the reassignment of channels is discussed in Section 201-900-083. This procedure should not be used routinely as it can result in inefficient use of memory. This procedure cannot be used if the entity to be removed is a No. 3 ESS entity.
- 3.11** Channels assigned to one CDA entity do not have to be sequentially numbered. For example, the sample Form 0300 shows entity 00 assigned to channels 001, 002, and 014. When entity 00 was first equipped, only two channels were required. Later, a third channel was needed. The next available channel at that time was 014. Channels assigned to ETS and VSS entities conform to the same assignment system as CDA entities.
- 3.12** A BDT must be assigned two sequentially-numbered channels.
- 3.13** A No. 3 ESS entity also must be assigned two sequentially-numbered channels when filling out Form AMARC 0300. However, the AMARC generic program automatically equips the second channel when the first is equipped via the **RC CHL EQP** input message. The first of these channels is the primary data channel and the second is the dedicated backup for the primary. Similarly, the second channel is automatically unequipped when the first channel is unequipped.
- 3.14** Both BDT and No. 3 ESS sequentially-numbered channels may be assigned around a dial backup channel. For example, if channel 020 is equipped as a dial backup, channel 017 may be equipped as a No. 3 ESS primary channel via the **RC CHL EQP** message. Channel 021 would then be automatically equipped by the AMARC generic program as the dedicated backup for channel 017 assuming channel 021 was not previously equipped. A similar situation exists if channel 017 was equipped as the first of two BDT channels except that the second channel would not be automatically equipped.
- 3.15** **Entity Number**—Enter the entity number. Valid entries are 000 through 137 (octal).
- 3.16** **Local Channel**—Enter the number which is used by the local (remote) office to identify the channel. For example, AMARC channel 007 may be the first channel for an ETS entity and

identified as channel 01 by personnel at the ETS. Valid entries are 00 through 05. The following paragraphs define local channel numbers for each type of terminal, except for 3ESS for which the local channel number is neither defined nor entered by the **RC CHL EQP** input message.

(a) CDA: A local channel number has no meaning for a CDA. The **RC CHL EQP** input message must be entered in order to equip the channel and a local channel number must be included in the message. Enter 00 as the local channel number for all CDA channels.

(b) ETS and VSS: Whenever the AMARC establishes a dialup data channel for an ETS or VSS entity, the AMARC will send a message to the entity which includes the identification of the channel being removed from service. The channel is identified by its local channel number. Valid local channel numbers for ETS and VSS entities are 01 through 05.

(c) BDT: The local channel number for a BDT entity identifies the BDT and encoder assigned to the channel. The identification of the BDT assigned to a channel is required by the AMARC in order to translate the Central Office Index (COI) and line number received on a call to a calling number. The AMARC must use the BDT number as a pointer when consulting the BDT Block Table for the entity in order to determine which COI Translation Table to use to translate the COI. Local channel numbers for a BDT entity are correlated to the BDT number and the encoder number assigned to the channel as illustrated below:

BDT	ENCODER	LOCAL CHANNEL
0	0	00
0	1	01
1	0	10
1	1	11
2	0	20
2	1	21

3.17 Dialup Data Set Type—Enter the type of data set to be used in establishing a dial backup data link in the event of a failure on this channel. The current issue of Generic Program 2 requires that the asynchronous, half-duplex 202S data set be specified. This field is not used for No. 3 ESS channels which have their own dedicated backup channel.

3.18 Dial Sequence Required to Reach Dialup Data Set—Enter the dial sequence (up to 13 digits) which the AMARC must use to reach the appropriate remote office dialup data set (202S) to establish a dialup channel when the specified ETS, VSS, CDA, or BDT channel fails. This sequence must follow local dialing rules for a call placed from the AMARC location to the remote office.

3.19 When a dedicated channel from an ETS, VSS, CDA, or BDT entity to the AMARC fails, a backup channel is automatically established by the AMARC by dialing the dial sequence required to reach the appropriate data set of the entity. Once the dialup connection is established, data transmission continues as if a dedicated channel was being used.

3.20 The AMARC may be equipped with up to six dial backup data sets. Each data set at the AMARC is capable of dialing any telephone number through the DDD network. Dial backup data channels are equipped by the **RC DLP EQP** input message.

3.21 The responsibility for the assignment of the telephone number for the dial sequence belongs to Network. A local procedure for making this assignment must be devised by each telephone company. The following paragraphs discuss the telephone number and line equipment assignment requirements for each type of terminal:

(a) CDA—One 202S Data Set must be equipped for each channel of the CDA. A unique telephone number and line equipment must be assigned for the 202S Data Set. Enter the appropriate dial sequence for each channel.

(b) BDT—The BDT is not capable of switching one dialup data set between channels. A 202S Data Set must be equipped for each channel of the BDT. A unique telephone number and TOUCH-TONE® line equipment must be assigned

for each 202S Data Set. Enter the appropriate dial sequence for each channel.

(c) ETS and VSS—ETS and VSS are capable of switching one dialup data set between channels. One 202S Data Set must be equipped for each of these type terminals. A unique telephone number and TOUCH-TONE line equipment must be assigned for the data set. Enter the same dial sequence for all channels of a ETS or VSS entity.

3.22 ISR—This entry indicates whether or not the entity assigned to the channel offers ISR class of service. Enter 0 if it is not offered, enter 1 if it is offered. If no entry is made for an entity for the ISR parameter via the **RC CHL EQP** input message, a zero entry will be assumed.

4. LAST EQUIPPED SCAN PORT—CDA MULTIPLEXER

4.01 The information contained on this form is entered into the Equipped Scan Port Table for the AMARC. For channels assigned to CDA entities, this table specifies the number of the last equipped scan port for each CDA multiplexer. The Equipped Scan Port Table for the AMARC also contains entries for channels assigned to BDT and No. 3 ESS entities. Form 0301 is only used for CDA entities; Form 0302 is used for BDT entities and Form 0304 is used for No. 3 ESS entities.

4.02 Entries to the Equipped Scan Port Table can be verified by input message **DUMP MEM NPD ESP**.

4.03 One Form 0301 is prepared for a AMARC. No entries should be made on this form for channels which are not assigned to CDA entities.

4.04 Based on the input value of the last equipped scan port or highest equipped trunk number, the AMARC assigns one Call Record Register (CRR) on a dedicated basis per scan port or trunk. The CRR is used for assembly of multiple entry call data into the desired single entry output format. The CRR size is generally 5 words per CDA scan port, 7.5 words per BDT trunk, and 11 words for No. 3 ESS junctor. As such, care should be taken to avoid wasting memory in determining the highest scan port, trunk number, or junctor.

5. FORM ENTRIES—NO. 1A AMARC FORM 0301

5.01 Figure 2 is a sample Form 0301. The following paragraphs describe the entries to be made on the form.

5.02 Octal Address of Last Equipped Input Scan Port CDA Multiplexer 0—Enter the octal address of the highest numbered scan port which is equipped on CDA multiplexer 0. Valid entries are 000 through 377 (octal).

5.03 A multiplexer is an equipment component of the CDA and is located at the remote office. Every line finder in the step-by-step office must be connected to a multiplexer. The multiplexer scans tip, ring, and sleeve leads at the input of the line finder to its associated first selector. From these leads, call data are collected. The point of connection of a line finder to a multiplexer is identified by a scan port address.

5.04 Each CDA message (answer and disconnect) transmitted to the AMARC includes the scan port address of the line finder used on the call. All call data are stored by the AMARC in the call record register for the scan port address.

5.05 Every midnight the AMARC scans the call record registers to determine those addresses which were not used in the previous 24-hour period. At 30 minutes past midnight every day, these unused scan port addresses are printed at the AMARC with the message **REPT CHL UNUSED SCAN PORTS**. A maximum of eight scan port addresses per CDA multiplexer will be reported.

5.06 The reporting of a scan port address via this message may indicate trouble at the remote office because each address equates to a line finder which was not used in the previous 24-hour period. AMARC personnel must report this information to the remote office for investigation. A drawing issued for the CDA, T-402, Assignment Chart for Line Finders and First Selectors To Call Data Accumulator Equipment, associates each line finder with a scan port address. CDA personnel must use this drawing to ascertain the line finder which corresponds to the reported address.

5.07 A multiplexer serves a maximum of 248 line finders. If the entity has less than 248 line finders, there will be unassigned scan port addresses. Addresses which are not assigned must be identified

in NPD to prevent the reporting of unassigned addresses with the **REPT CHL UNUSED SCAN PORTS** message. The purpose of Form 0301 is to specify the last assigned scan port address on each multiplexer. This information is entered into the Equipped Scan Port Table. The AMARC identifies from this table those addresses that are not to be checked for use.

5.08 The octal address of the last equipped scan port is obtained from the CDA drawing T-402, for the entity. Figure 3 is a portion of a sample T-402 drawing. A drawing is issued for each multiplexer of each channel assigned to the entity. The encircled number 1 on Fig. 3 points out the entry on the drawing which indicates the number of the multiplexer. The entry 1L = multiplexer 0 of the first channel assigned to the entity; 1H = multiplexer 1 of the first channel. The encircled number 2 on Fig. 3 points out the octal address of the last equipped scan port on multiplexer 0.

5.09 A CDA multiplexer serves 248 line finders. One channel receives input from two of these multiplexers. If more than two multiplexers (496 line finder capacity) are required, additional CDAs must be equipped for the entity. Entries must be made on Form 0301 for all CDAs assigned.

5.10 If Form 0301 is incorrect and a higher equipped scan port address exists when the AMARC receives a call from this address, a **REPT CHL TBL SPE** message will be printed at the AMARC.

5.11 If no entry is made for a CDA channel for the octal address of last equipped input scan port CDA multiplexer 1 parameter via the **RC CHL ESP** input message, a zero entry is assumed.

6. HIGHEST EQUIPPED TRUNK NUMBER—BDT RECORDER PORTS

6.01 The information contained on this form is entered into the Equipped Scan Port Table for the AMARC. For channels assigned to BDT entities, this table specifies the Call Identity Index (CII) of the highest equipped trunk number for each BDT recorder port. The Equipped Scan Port Table also contains entries for channels assigned to CDA and No. 3 ESS entities. Form 0302 is only used for BDT entities; Form 0301 is used for CDA entities, and Form 0304 is used for No. 3 ESS entities.

6.02 Entries to the Equipped Scan Port Table can be verified by input message **DUMP MEM NPD ESP**.

6.03 An AMARC serving many BDTs may require more than one copy of Form 0302 to list all BDT recorder ports. No entries should be made on this form for channels which are not assigned to BDT entities.

6.04 Based on the input value of the last equipped scan port or highest equipped trunk number, the AMARC assigns one CRR on a dedicated basis per scan port or trunk. The CRR is used for assembly of multiple entry call data into the desired single entry format. The CRR size is generally 5 words per CDA scan port, 7.5 words per BDT trunk, and 11 words per No. 3 ESS junctor. As such, care should be taken to avoid wasting memory in determining the highest scan port, trunk number, or junctor.

7. FORM ENTRIES—NO. 1A AMARC FORM 0302

7.01 Figure 4 is a sample Form 0302. The following paragraphs describe the entries to be made on the form.

7.02 A BDT entity may be served by three BDTs (one BDT per ten regular recorders). Each BDT has ten recorder ports, each of which interfaces to a recorder at the remote office. A BDT has two encoders, each of which is capable of receiving data from ten recorders. All recorders served by a BDT are connected to both encoders. For each recorder, one encoder is designated as the primary encoder and the other as the secondary encoder.

7.03 During normal operation, each encoder serves as the primary encoder for approximately half of the recorders served by the BDT. The AMARC assumes that recorder ports 1 through 5 transmit data through encoder 0 which is assigned to the first channel of the BDT and that recorder ports 6 through 9 and 0 transmit data through encoder 1 over the second channel.

7.04 For each channel assigned to a BDT, Form 0302 specifies the highest equipped trunk number on each of five recorder ports.

7.05 **AMARC Channel**—Enter the number of the channel for which the information applies. Valid entries are 000 through 137 (octal).

7.06 BDT—Enter the BDT number assigned to the channel. Valid entries are 0 through 2.

7.07 Recorder Port—Enter 1 through 5 for the first channel of the BDT; enter 6 through 9, 0 for the second channel.

7.08 Highest Equipped Trunk Number—Enter the units digit only of the highest equipped trunk number for each recorder port. Valid entries are 0 through 9. The reason for entering only

the units digit of the highest equipped trunk number is explained in the following paragraphs.

7.09 A recorder in the remote office serves up to 100 trunks. Each trunk is connected to a terminal point on the recorder. The number of this point corresponds to a CII 00 through 99, by which the trunk is identified.

7.10 Because of the way trunks are assigned to terminals on a recorder, the highest equipped trunk number can be deceiving. This can readily be seen from the following illustration:

UNITS	DIGITS	TENS DIGITS	0	1	2	3	4	5	6	7	8	9
		0										
		1										X
		2										
		3										
		4										
		5										
		6										
		7										
		8										
		9										

7.11 Recorder terminals are numbered as shown. The X in the illustration marks terminal number (CII) 91. Trunks are assigned across the tens digits, ie, the first ten trunks would be assigned to terminals 00, 10, 20, 30, 40 ...90. The second ten trunks would be assigned to terminals 01, 11, 21, 31, 41, ...91. In most entities then, the highest terminal number (CII) assigned will be from 90 through 99, though less than 90 trunks may be equipped.

7.12 Each message (initial entry, answer, and disconnect) transmitted to the AMARC by a BDT, includes the number of the BDT recorder port which transmitted the message and the CII of the trunk used on the call. All call data are stored in the CRR associated with the recorder port and the CII.

7.13 Every midnight the AMARC scans the call record registers to determine those CIIs

which were not used in the previous 24-hour period. At 30 minutes past midnight every day, these unused CIIs are printed at the AMARC with the message **REPT UNUSED TRUNKS**. A maximum of eight trunks per BDT encoder will be reported.

7.14 The reporting of a CII via this message may indicate trouble at the remote office because each CII thus reported equates to a trunk which was not used in the previous 24-hour period. AMARC personnel must report this information to the remote office for investigation. The remote office must keep an office record form which associates each regular recorder in the entity to a BDT recorder port. This office record, AMARC 0501, is discussed in Section 201-900-062. An existing central office record designates the trunk assigned to each terminal point (CII) of each regular recorder. The remote office must use these office records to determine the actual trunks which were not used in the previous 24-hour period.

7.15 The highest equipped trunk number (CII) for each recorder port must be determined from these two office records.

7.16 Generally, all CIIs (00 through 99) on a regular recorder will not be assigned. All unassigned CIIs will appear to the AMARC as unused during each 24-hour period. CIIs which are not assigned must be identified in NPD to prevent the reporting of those CIIs with the **REPT UNUSED TRUNKS** message. The purpose of Form 0302 is to specify the highest equipped trunk number (CII) for each BDT recorder port. This information is entered into the Equipped Scan Port Table, from which the AMARC identifies the CIIs which are not to be checked for use.

8. CHANNEL MONITOR LINE NUMBERS—NO. 1A AMARC FORM 0303

8.01 The information contained on this form is entered into the Channel Monitor Table for the AMARC. For each channel assigned to a CDA entity, this table specifies the telephone number which will be used by the channel monitor equipment of the CDA as a calling telephone number for the test calls it makes to the AMARC.

8.02 Entries to the Channel Monitor Table can be verified by input message **DUMP MEM NPD MON.**

8.03 One Form 0303 is prepared for an AMARC. No entries should be made on this form for channels which are not assigned to a CDA entity.

9. FORM ENTRIES—NO. 1A AMARC FORM 0303

9.01 Figure 5 is a sample Form 0303. The following paragraphs describe the entries to be made on the form.

9.02 **Channel Monitor Line Number**—For each CDA channel, enter the 4-digit line number of the telephone number which will be used to identify the test calls placed by the channel monitor of the CDA entity assigned to the channel. Valid entries are 0000 through 9999.

9.03 Once every 20 minutes, the CDA generates a test call on each CDA multiplexer of each channel. An answer and disconnect message is sent to the AMARC in the same format used for message rate calls sent by the entity, ie, if the

entity is Single Message Unit (SMU), a called number is not transmitted. This test call verifies to the AMARC that the CDA is functioning. If the CDA fails to make the test call, an alarm is sent to the remote office. The channel monitor is the piece of CDA equipment which generates the test call. A telephone number must be assigned to the monitor and entered in the NPD to enable the AMARC to recognize the call as a test.

9.04 One telephone number is used by the channel monitor for all channels of a CDA entity. No line equipment is needed. The responsibility for the telephone number assignment for each CDA entity belongs to Network.

9.05 If the incorrect telephone number is entered, a **REPT CHL TBL MON** message will be printed at the AMARC when a channel monitor test call is received from a different number.

10. HIGHEST EQUIPPED JUNCTOR—NO. 3 ESS

10.01 The information contained on this form is entered into the Equipped Scan Port Table for the AMARC. For channels assigned to No. 3 ESS entities, this table specifies the highest equipped junctor number for each No. 3 ESS primary channel. The Equipped Scan Port Table also contains entries for channels assigned to CDA and BDT entities. Form 0304 is used only for No. 3 ESS entities.

10.02 Entries to the Equipped Scan Port Table can be verified by input message **DUMP MEM NPD ESP.**

10.03 An AMARC serving many No. 3 ESS entities may require more than one copy of Form 0304 to list all junctors. No entries should be made on this form for channels which are not assigned to No. 3 ESS entities.

10.04 Based on the input value of the highest numbered junctor, the AMARC assigns one CRR on a dedicated basis per junctor. The CRR is used for assembly of multiple entry call data into the desired single entry format. The CRR size is generally 11 words per 3ESS junctor. Care should be taken to avoid wasting memory in determining the highest junctor number.

11. FORM ENTRIES—NO. 1A AMARC FORM 0304

11.01 Figure 6 is a sample Form 0304. The following paragraphs describe the entries to be made on the form.

11.02 Junctors are equipped in a No. 3 ESS entity based on the number of customer lines served. For every 300 customer lines, 32 junctors are required. The AMARC uses the number of junctors provided in the No. 3 ESS entity as the basis for memory to be allotted for CRRs for the channel.

11.03 For each No. 3 ESS primary channel, Form 0304 specifies the highest equipped junctor in the associated entity.

11.04 *AMARC Channel*—Enter the number of the channel for which the information applies. Only primary channel numbers are entered. Valid entries are 0 through 137 (octal).

11.05 *Highest Equipped Junctor*—Enter the highest equipped junctor number for the entity associated with the No. 3 ESS channel. Valid entries are 1 through 480 (decimal).

11.06 In the course of an outgoing call from a No. 3 ESS office, a particular junctor is uniquely associated with an originating customer line. Each message (initial entry, answer, and disconnect) transmitted to the AMARC by the No. 3 ESS includes the number of the junctor used on the call. All call data are stored in the CRR associated with that junctor.

12. TERMINAL IDENTIFICATION—NO. 3 ESS

12.01 The information contained on this form is entered into the Channel Table for the AMARC. For channels assigned to No. 3 ESS, the terminal identification serves as a means for the No. 3 ESS to identify itself to the connecting AMARC for data link security purposes.

12.02 Entries to the Channel Table can be verified by input message **DUMP MEM NPD CHL**.

12.03 One Form 0305 is prepared for an AMARC. No entries should be made on this form for channels which are not assigned to a No. 3 ESS entity.

13. FORM ENTRIES—NO. 1A AMARC FORM 0305

13.01 Figure 7 is a sample Form 0305. The following paragraphs describe the entries to be made on the form.

13.02 Each No. 3 ESS entity is served by two dedicated data channels from the AMARC—a primary and a backup. During normal operation, the primary is used exclusively for all data communication. In the event of a failure on the primary, a switch is made to the dedicated backup channel by both the No. 3 ESS entity and the AMARC.

13.03 The terminal identification is used in the handshaking that is part of the initialization of communications on the primary data channel and part of the switching to backup procedure upon failure of the primary.

13.04 For each No. 3 ESS primary channel, Form 0305 specifies the terminal identification of the associated entity. The 6-digit identification number is the Western Electric base and control number given to the associated No. 3 ESS entity.

13.05 *AMARC Channel*—Enter the number of the channel for which the information applies. Only primary channel numbers are entered. Valid entries are 0 through 137 (octal).

13.06 *Terminal ID*—Enter the 6-digit Western Electric base and control number given to the No. 3 ESS entity associated with the No. 3 ESS primary channel.

NO. 1A AMARC 0300
 NO. 1A AMARC 216551

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NO. 1A AMARC CHANNELS EQUIPPED

(aab) AMARC CHANNEL NO.	ENTITY NAME	(ccc) ENTITY NUMBER	(dd) LOCAL CHANNEL	(tttt) DIALUP DATA SET TYPE	(eee...e) DIAL SEQUENCE REQUIRED TO REACH DIALUP DATA SET	(f) 1SR
001	SALM 0H33 33S	000	00	202S	1 216 335 9502	0
002	SALM 0H33 33S	000	00	202S	1 216 335 3251	0
003	GRRD 0H54 54S	001	00	202S	1 216 545 5532	0
004	STAO 0H62 62b	002	00	202S	1 216 626 5219	0
005	NILS 0H65 65S	003	00	202S	1 216 655 7235	0
006	NILS 0H65 65S	003	00	202S	1 216 655 6243	0
007	L RTP 0H75 75F	005	01	202S	1 216 757 7652	0
010	L RTP 0H75 75F	005	02	202S	1 216 757 7652	0
011	BRTD 0H83 834	006	00	202S	1 216 834 4042	0
012	YNTW 0H89 897	007	00	202S	1 216 897 9363	1
013	YNTW 0H89 897	007	00	202S	1 216 897 7335	1
014	SALM 0H33 33S	000	00	202S	1 216 335 4598	0
015						
016						
017						
020	DIAL-UP	000	00	202S	00000000000000	0
021	KENT 0H67 67F	004	00	202S	1 216 673 5241	0
022	KENT 0H67 67F	004	01	202S	1 216 673 3302	0
023						
024						
025						
026						
027						
030						
031						
032						
033						
034						
035						
036						
037						

INPUT MESSAGE: RC CHL aab EQP ccc dd tttt e...e f!
 DUMP MESSAGE: DUMP MEM MPD CHL

PREPARED BY S. Jones
 TELEPHONE 555-3701

Fig. 1—Sample Form No. 1A AMARC 0300—AMARC Channels Equipped (3.01) (3.07)

NO. 1A AMARC 0301
 NO. 1A AMARC 216551

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LAST EQUIPPED SCAN PORT - CDA MULTIPLEXERS

(aab) AMARC CHANNEL	OCTAL ADDRESS OF LAST EQUIPPED INPUT SCAN PORT	
	(ccc) CDA MPX 0	(ddd) CDA MPX 1
000		
001	377	377
002	377	097
003	377	246
004	377	080
005	377	377
006	253	000
007		
010		
011	257	000
012	377	377
013	377	352
014	313	000
015		
016		
017		
020		
021		
022		
023		
024		
025		
026		
027		
030		
031		
032		
033		
034		
035		
036		
037		

INPUT MESSAGE: RC CHL aab ESP ccc ddd!
 DUMP MESSAGE: DUMP MEM NPD ESP

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 TELEPHONE 555-3701

Fig. 2—Sample Form No. 1A AMARC 0301—Last Equipped Scan Port—CDA Multiplexers (5.01)

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ASSIGNMENT OF LF TO 1ST SEL TO CDA EQPT														
LINE	LINE FINDER EQPT			1ST SELECTOR EQPT			ID REL SEL EQPT			IN NET. MX EQPT			SCAN CONT EQPT	REMARKS
	FR	GR	POS	BAY	SH	NO.	CP	CKT RL	UNIT NO.	CP	INPUT PORT	UNIT NO.	UNIT NO.	
1							1	000	1	1	000	1L	1	TEST POSITION
	1	1	1	101	A	1		001			001			
	1	2	17	101	A	2		002			002			
								003			003			
5	2	3	7	101	A	3		004			004			
								005			005			
								006			006			
	2	4	16	101	A	4		007			007			
								010			010			
10	3	6	6	101	A	5		011			011			
	1	1	14	101	A	6		012			012			
								013			013			
	1	2	4	101	A	7		014			014			
								015			015			
15								016			016			
	2	3	13	101	A	8		017			017			
	2	4	3	101	A	9		020	2		020			
	3	6	12	101	A	10		021			021			
	1	1	11	101	B	11		022			022			
20	1	2	1	101	B	12		023			023			
	2	3	17	101	B	13		024			024			
	2	4	7	101	B	14		025			025			
	3	6	16	101	B	15		026			026			
	1	1	5	101	B	16		027			027			
25	1	2	14	101	B	17		030			030			
	2	3	4	101	B	18		031			031			
	2	4	13	101	B	19		032			032			
	3	6	3	101	B	20		033			033			
	1	1	2	101	C	21		034			034			
30	1	2	11	101	C	22		035			035			
	2	3	1	101	C	23		036			036			
32	2	4	17	101	C	24		037			037			

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ISSUE 1

Fig. 3—Sample T-402 Drawing (5.08)

NO. 1A AMARC 0302
 NO. 1A AMARC 216551
 ENTITY _____

EFFECTIVE DATE 1-3-77
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HIGHEST EQUIPPED TRUNK NUMBER - BDT RECORDER PORT

(aab) AMARC CHANNEL	BDT	(ccc) RECORDER PORT	(ddd) HIGHEST EQUIPPED TRUNK NUMBER
101	0	1	6
101	0	2	7
101	0	3	8
101	0	4	8
101	0	5	8
102	0	6	9
102	0	7	5
102	0	8	6
102	0	9	7
102	0	0	6

INPUT MESSAGE: RC CHL aab ESP ccc ddd!
 DUMP MESSAGE: DUMP MEM MPD ESP

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 TELEPHONE 555-3701

Fig. 4—Sample Form No. 1A AMARC 0302—Highest Equipped Trunk Number—BDT Recorder Ports (7.01)

SECTION 201-900-078

NO. 1A AMARC 0303
 NO. 1A AMARC 216551

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CHANNEL MONITOR LINE NUMBERS

(aab) AMARC CHANNEL	(cccc) CHANNEL MONITOR LINE NUMBER
000	
001	9621
002	9621
003	4210
004	3589
005	8885
006	8885
007	
010	
011	3965
012	5880
013	5880
014	7239
015	
016	
017	
020	
021	
022	
023	
024	
025	
026	
027	
030	
031	
032	
033	
034	
035	
036	
037	

INPUT MESSAGE: RC CHL aab MON cccc!
 DUMP MESSAGE: DUMP MEM NPD MON

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Fig. 5—Sample Form No. 1A AMARC 0303—Channel Monitor Line Numbers (9.01)

NO. 1A AMARC 0305
NO. 1A AMARC 216551

EFFECTIVE DATE 1-3-77
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TERMINAL IDENTIFICATION - NO. 3 ESS

(aab) AMARC CHANNEL NUMBER	(cccccc) TERMINAL ID NUMBER
15	287321

INPUT MESSAGE: RC CHL aab TID ccccccl
DUMP MESSAGE: DUMP MEM NPD CHL

PREPARED BY S. Jones
TELEPHONE 555-3901

Fig. 7—Sample Form No. 1A AMARC 0305—Terminal Identification—No. 3 ESS (13.01)