



INTERNATIONAL TELECOMMUNICATION UNION

**CCITT**

THE INTERNATIONAL  
TELEGRAPH AND TELEPHONE  
CONSULTATIVE COMMITTEE

**Q.624**

(11/1988)

SERIES Q: SWITCHING AND SIGNALLING  
Interworking of signalling systems

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**LOGIC PROCEDURES FOR OUTGOING  
SIGNALLING SYSTEM No. 7 (TUP)**

Reedition of CCITT Recommendation Q.624 published in  
the Blue Book, Fascicle VI.6 (1988)

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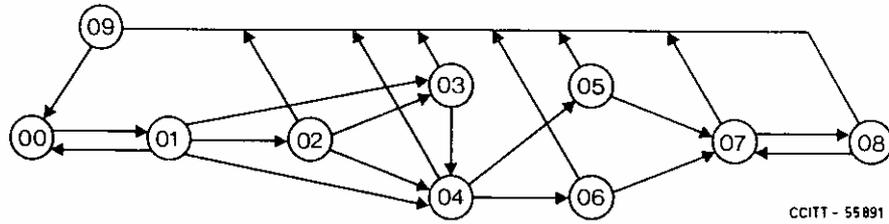
## NOTES

1 CCITT Recommendation Q.624 was published in Fascicle VI.6 of the *Blue Book*. This file is an extract from the *Blue Book*. While the presentation and layout of the text might be slightly different from the *Blue Book* version, the contents of the file are identical to the *Blue Book* version and copyright conditions remain unchanged (see below).

2 In this Recommendation, the expression “Administration” is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

**Recommendation Q.624**

**LOGIC PROCEDURES FOR OUTGOING SIGNALLING SYSTEM No. 7 (TUP)**



State number	State description	Sheet reference	Timers running
00	Idle	1, 10	
01	Wait for FITES of IAM/IAI	1	
02	Wait for continuity check	3	t <sub>1</sub> , t <sub>2</sub>
03	Wait for continuity indicator	3	t <sub>2</sub>
04	Wait for address complete	7	t <sub>2</sub>
05	Wait for answer	7	
06	Wait for answer (subscriber free)	9	
07	Answered	9	
08	Clear-back	9	
09	Wait for release-guard	10	t <sub>3</sub> , t <sub>4</sub>

FIGURE 1/Q.624

**State overview diagram for outgoing Signalling System No. 7 (TUP)**

*Supervisory timers for outgoing Signalling System No. 7*

- t<sub>1</sub> = 2 s      Recommendation Q.724, § 7.4.1
- t<sub>2</sub> = 20-30 s      Recommendation Q.724, § 6.4.1
- t<sub>3</sub> = 4-15 s      Recommendation Q.724, § 6.2.3
- t<sub>4</sub> = 1 min      Recommendation Q.724, § 6.2.3

*Procedures not shown*

The following procedures, not directly relevant to interworking, are not shown in the logic procedures:

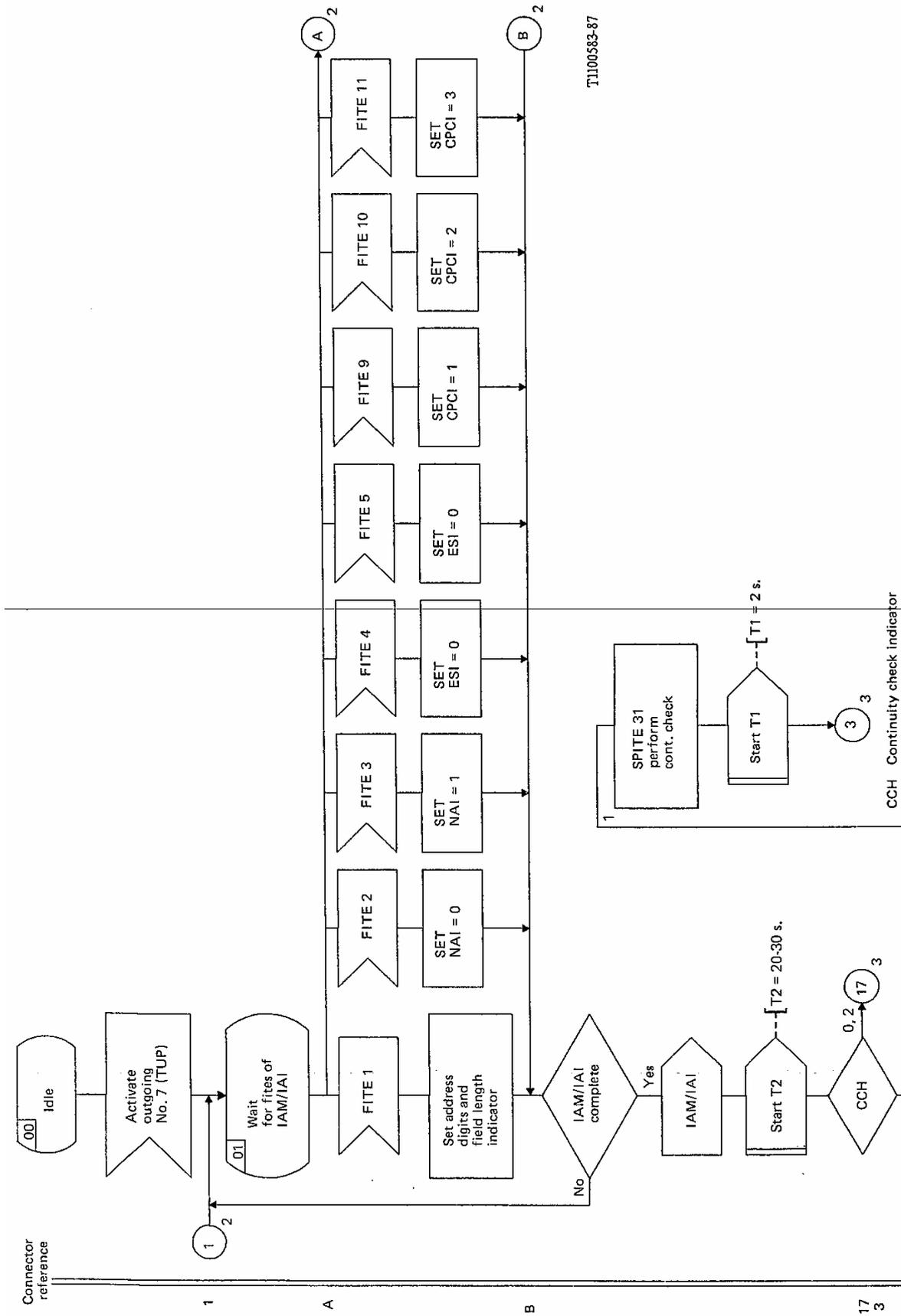
- Dual seizure.
- Blocking and unblocking sequences.
- Reset signals.
- Test call procedures.
- Out of service.

*Signal abbreviations used*

The signal abbreviations used correspond to those of the Signalling System No. 7 Specifications and are listed in Figure 2/Q.614.

FIGURE 2/Q.624

**Notes to outgoing Signalling System No. 7 (TUP)**



CCH Continuity check indicator  
 CPCI Calling party category indicator  
 ESI Echo suppressor indicator  
 NAI Nature of address indicator

FIGURE 3/Q.624 (Sheet 1 of 10)

Outgoing Signalling System No. 7 (TUP)

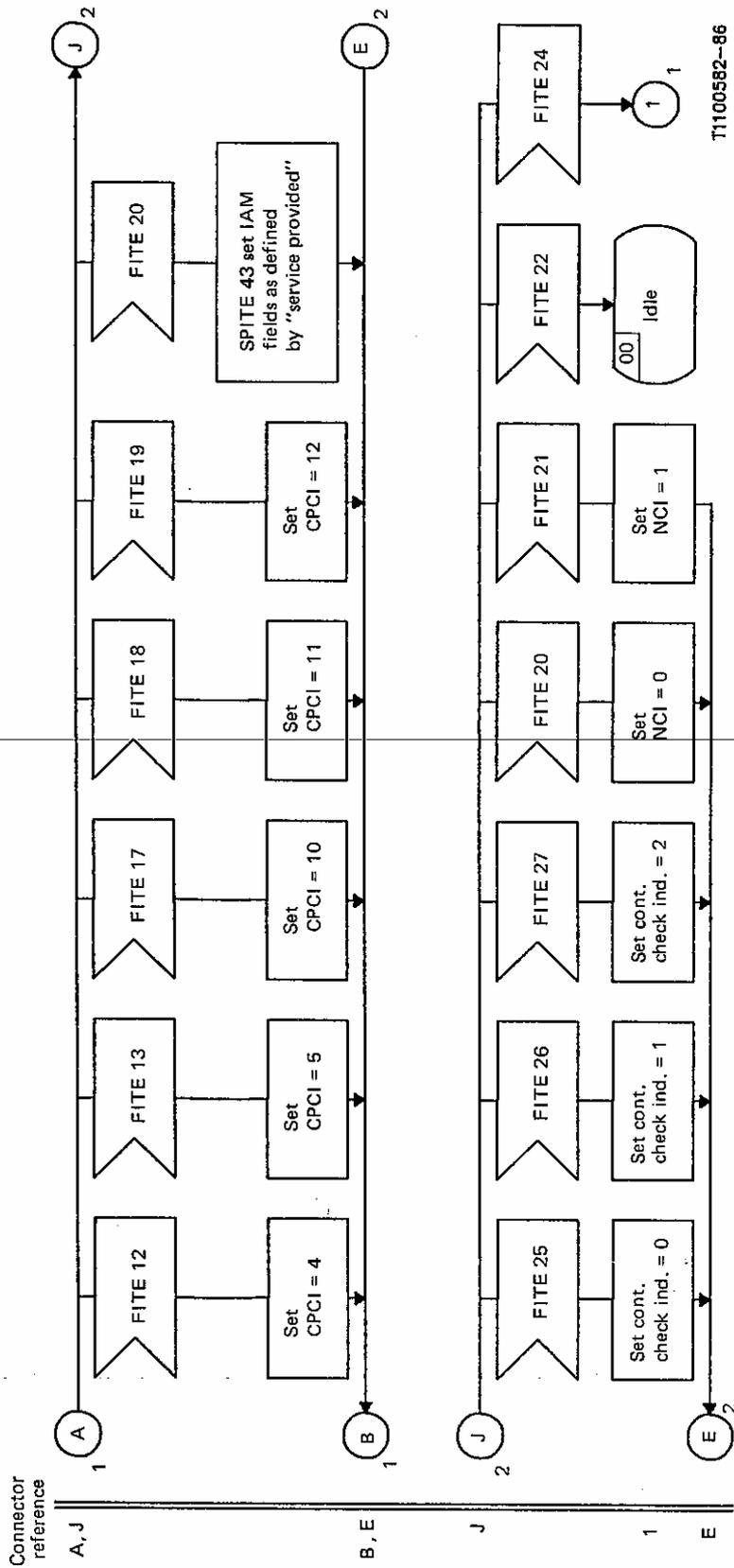


FIGURE 3/Q.624 (Sheet 2 of 10)  
 Outgoing Signalling System No. 7 (TUP)

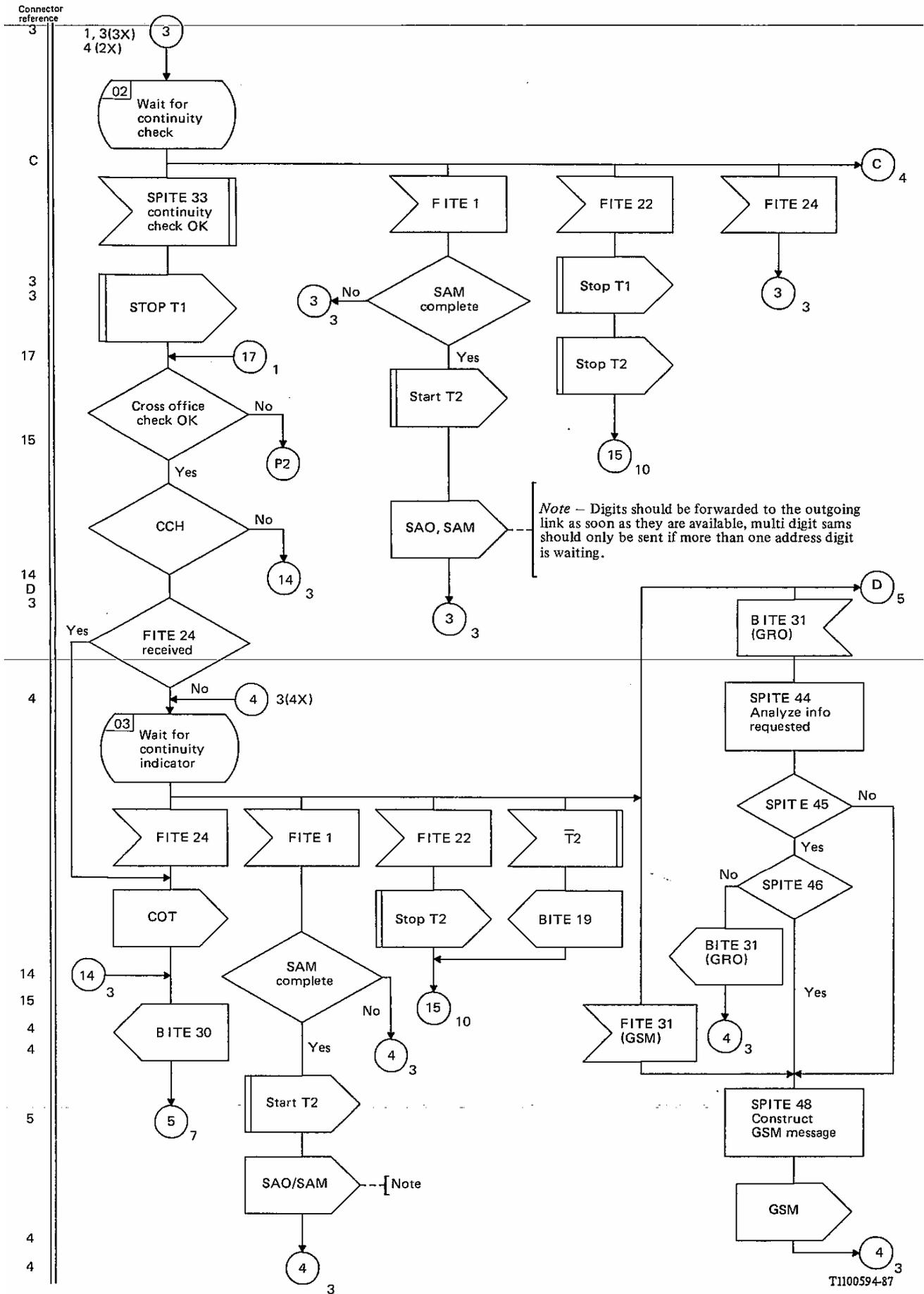


FIGURE 3/Q.624 (sheet 3 of 10)

Outgoing Signalling System No. 7 (TUP)



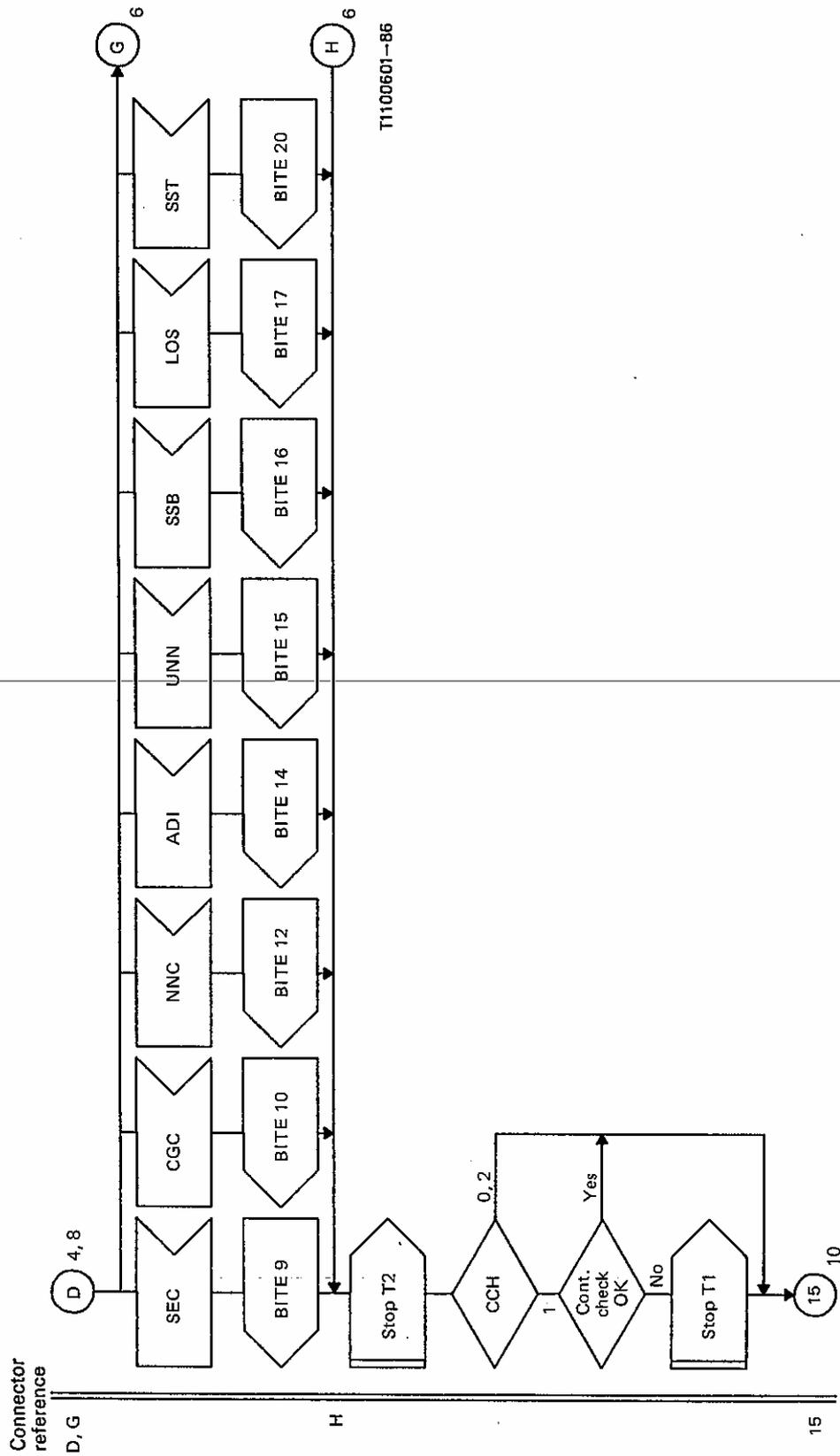


FIGURE 3/Q.624 (Sheet 5 of 10)  
Outgoing Signalling System No. 7 (TUP)

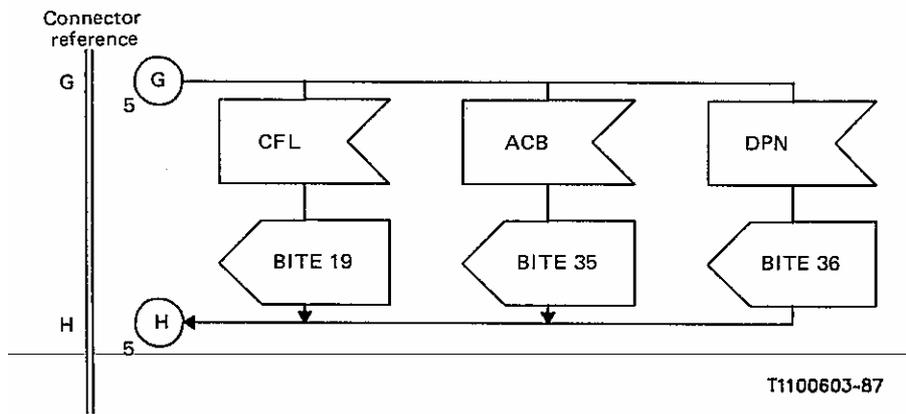
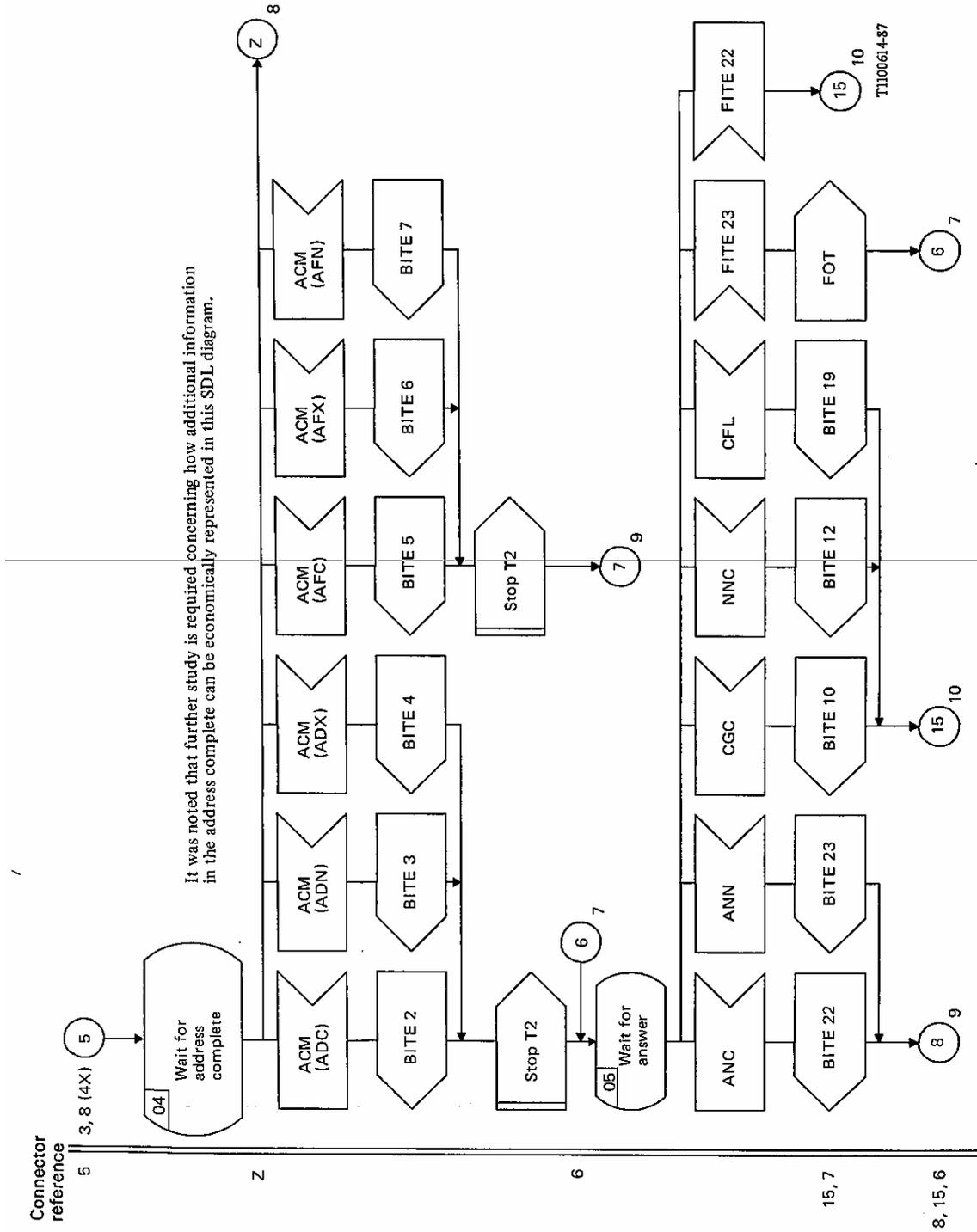
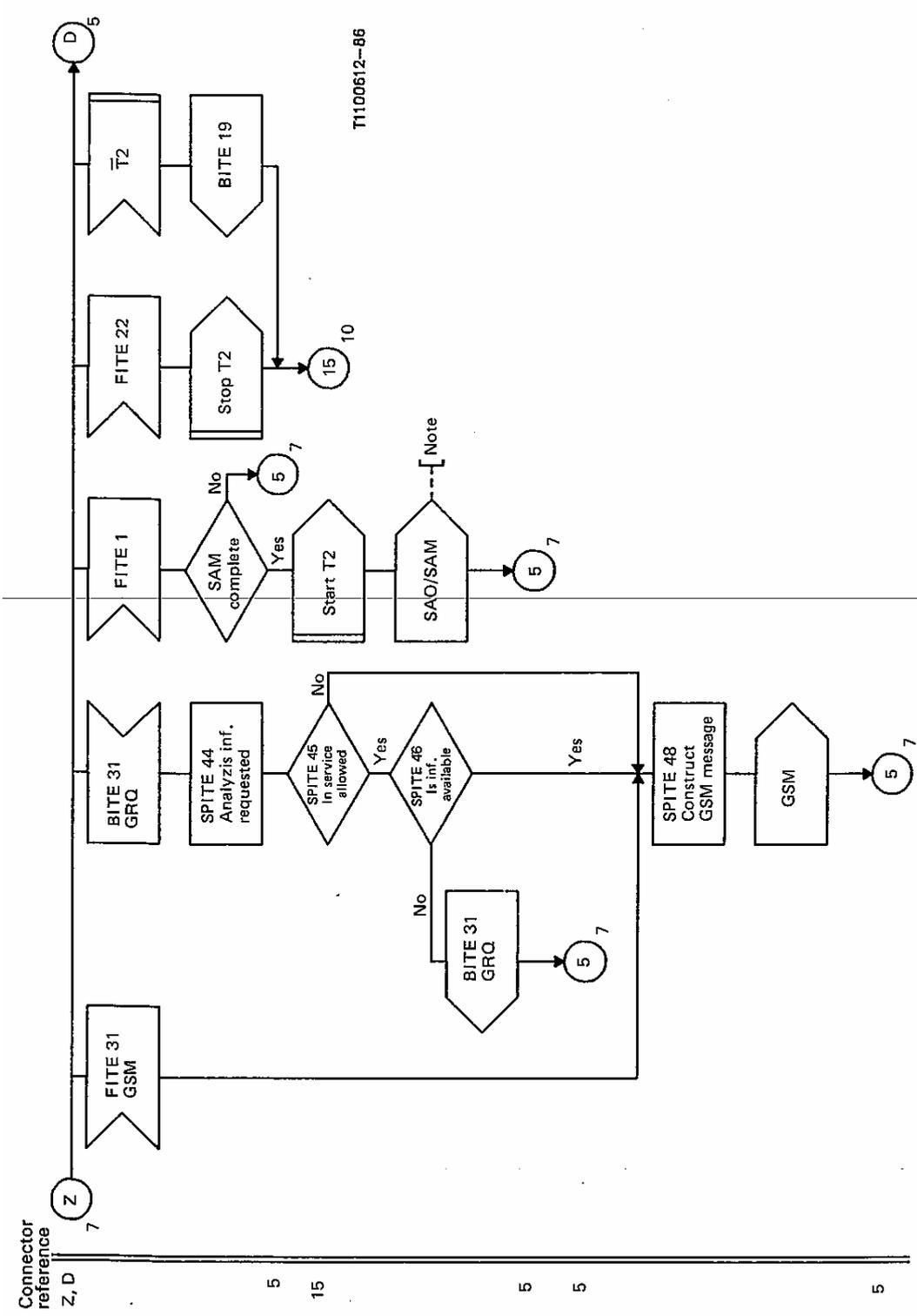


FIGURE 3/Q.624 (sheet 6 of 10)  
**Outgoing Signalling System No. 7 (TUP)**



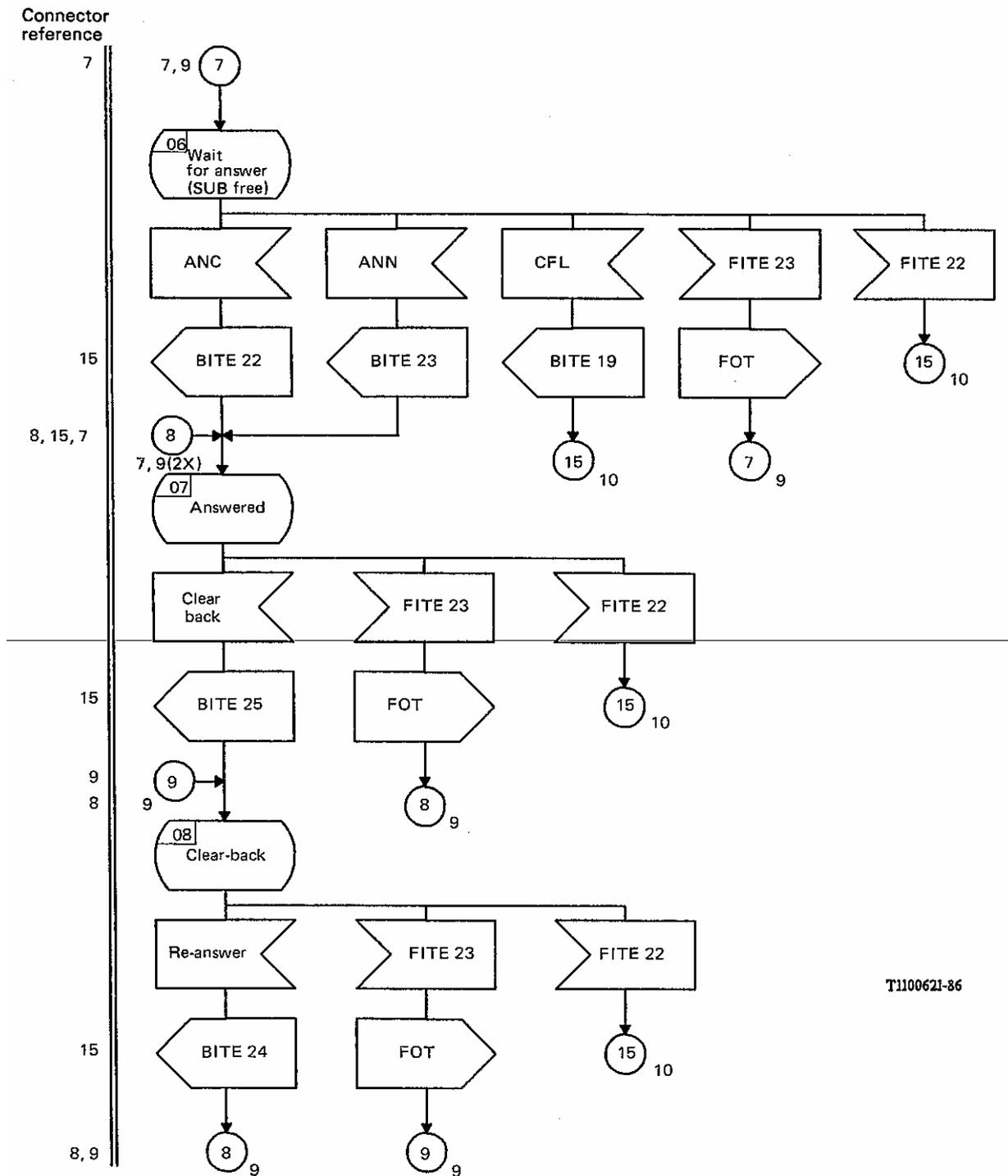
It was noted that further study is required concerning how additional information in the address complete can be economically represented in this SDL diagram.

FIGURE 3/Q.624 (Sheet 7 of 10)  
 Outgoing Signalling System No. 7 (TUP)



Note — Digits should be forwarded to the outgoing link as soon as they are available. Multi digits SAMs should only be sent if more than one address digit is waiting.

FIGURE 3/Q.624 (Sheet 8 of 10)  
Outgoing Signalling System No. 7 (TUP)



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FIGURE 3/Q.624 (sheet 9 of 10)  
 Outgoing Signalling System No. 7 (TUP)

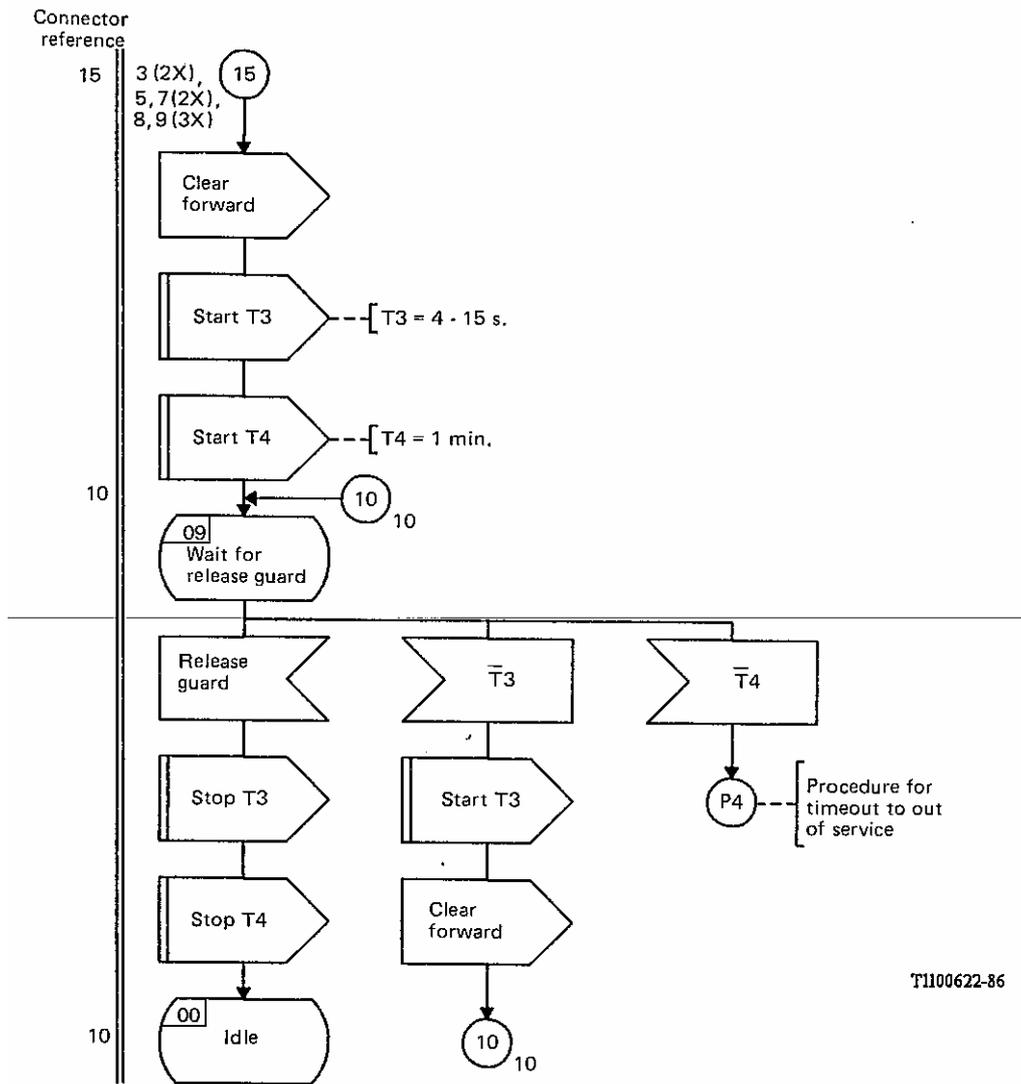


FIGURE 3/Q.624 (sheet 10 of 10)  
**Outgoing Signalling System No. 7 (TUP)**





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