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12 January, 1998

Our Ref: 3605.doc

Attention: Sue Laver Telstra By facsimile: 9632 0965. Total pages (including this page) : 48.

Dear Ms Laver,

Re: C.o.T. Submission to the Chair of the Working Party.

Enclosed is a copy of C.o.T. submission sent to the Chairman of the Working Party.

C.o.T. Cases Austra

Yours sincerely, Graham Schorer C.o.T. representative to the Working Party.

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Benjamin

Armstrong

Kearney

Holding Redlich - David Andrews

Freehills - Peter Butler (C. Thom pson

Levy L . Chishol m Mounsher Fitness Delottes / Dr. H. piros File SENATE ESTIMATES CORRESPONDENCE



12 January, 1998

Our Ref: 3598.doc

Attention: Mr John Wynack Chair, Working Party Senate ERCA Legislation Committee By facsimile: (06) 249 7829. Total pages (Including the page) : 47.

Dear Mr Wynack,

Re: Outcome of 16 December 1997 Working Party meeting.

Teletra's refusal to comply with the Working Party requests.

Both Ann Garms and myself have received, read and discussed the contents of the Transcript of the 16 December 1997 Working Party meeting. Our discussions have included Telatra's failure to positively apply themselves to the Working Party's Amended Terms of Reference (AToR) during the ten weeks the Working Party has been meeting.

We are both in agreement Telstra has, during the life of the Working Party, deliberately applied tactics to limit, delay or prevent discovery of information and documentation.

The information and documentation Telstra has refused to discover is the same information and documentation Telstra must discover to comply with the Senate Committee's AToR.

Mr Armstrong's failure to disclose his known non-availability to the Working Party was outrageous.

Telstra has engaged in conduct that has demonstrated its contempt for the existence and objectives of the Working Party. There are many individual people relying upon the Working Party meeting its obligations to the Senate Committee. The next instance of like Telstra conduct will require the Working Party to consider the need to request for the Senate Committee's intervention.

To avoid future misunderstanding or confusion, the C.o.T. Working Party representatives are clarifying with the Chairman the C.o.T. requirement for Telstra to immediately comply with Part 2, Point 3 of the AToR still exists.

With reason, the C.o.T. representatives assert it is essential that Telstra immediately comply with Part 2, Point 3 of the AToR, as it is the only starting point that will enable the Working Party to make progress.

The Chairman of the Working Party is formally requested by both C.o.T. representatives to again request Telstra immediately comply with Part 2, Point 3 of the AToR.

The Chairman's attention is drawn to the fact Telstra need to include in its written advice, to comply with the Committee's requirement under Part 2, Point 3 of the AToR, the following:-

 All of the changes made to the network or networks serving each Party that incurred during the total period of each Party's dispute, plus identify dates of all changes.

- Within each Party's customer catchment area i.e. the geographical location in which the majority
 of each Party's customers reside, list all those exchanges which had circuits directly linked to the
 exchanges nominated by each Party responding to the AToR.
- From within each Party's catchment area, list all:
 - a) IDN entry and exit routes used by the PSTN network to transmit incoming calls to each Party's business telephone service.
 - b) IEN entry and exit routes used by the PSTN network to transmit incoming calls to each Party's business telephone service.
 - c) exit routes from the PSTN network into the ISDN network serving each Party's ISDN business telephone service.
 - d) types of exchanges involved in transmitting incoming calls to each Party's business.
 - e) major upgrades of those exchanges involved in transmitting incoming calls to each Party's business telephone service.

C.o.T. believe it is imperative for Telstra to be required to distribute this written advice to the Working Party representatives before the next Working Party meeting to enable C.o.T. representatives sufficient time to;-

- become fully conversant with the information contained within Telstra's written advice;
- converse with those people they represent about Telstra's written advice;
- prepare a list of subject matters to be included in the next Working Party meeting;
- prepare a list of questions to be answered by Telstra in the next meeting;
- prepare a list of matters and questions to be discussed with and put to the Working Party's independent Technical Telecommunications Consultant;
- determine if there are matters that require the Senate Committee's clarification or intervention.

The attached Appendix, by use of one example, sets out the reasons the C.o.T. representatives, reject Telstra's assertions the network diagrams partly comply with Part 2, Point 3 of the AToR. C.o.T. state the diagrams supplied to the Working Party do not, even in part, comply with the AToR.

included in the attached Appendix are specific questions that need to be put to Telstra's Technical representative and the independent Technical Consultant to the Working Party.

Yours sincerely. p. 90 ANN GARMS & GRAHAM SCHORER The C.o.T. Working Party Representatives.



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Telstra and CoT/CoT Related Cases Working Party's Amended Terms of Reference (AToR) states, APPENDIX. under Part 2, Point 3, "Telstra must provide written advice, in respect of each Party, identifying the network or networks which were used by Telstra to service the business telephone service of that Party."

During the Working Party meetings, Telstra provided the Working Party with network diagrams relating to each Party, which they assert complies with Part 2, Point 3 of the AToR.

The C.o.T. representatives to the Working Party have rejected Telstra's assertion on the basis it

The example chosen to prove Telstra's network diagrams are defective and only partly identify the does not comply. network or networks servicing each Party is the network information and diagrams related to Golden Messenger-G Schorer.

There are a number of facts that the reader needs to take into consideration about Golden's client base and the known changes within the Telstra network before addressing the C.o.T. comments about Telstra's network diagram and the reasons for C.o.T. rejection of Telstra's diagrams.

In early 1985, prior to the commencement of Golden's telephone service difficulties, problems and faults:-

a. Golden's clients, who regularly used the company's services, were geographically located in the Greater Melbourne Metropolitan area.

The geographical boundaries of the Golden client catchment area are defined by the suburbs of Altona, Sunshine, Deer Park, St Albans, Tullamarine, Campbelifield, Thomastown, Greensborough, Lilydate, Kilsyth, Ferntree Gully, Rowville, Doveton and Frankston.

All of Golden's regular clients were located within Telstra's Melbourne (03) Metropolitan network.

b. All of Golden's client job booking telephone lines were connected to Telstra's North Melbourne ARF analogue exchange.

Point 2.

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Telstra documents state:-

In 1984, Teistra converted its Fortitude Valley ARF exchange into an ARE-11 exchange.

In May 1985, Telstra converted its North Melbourne ARF exchange into an ARE-11 exchange.

In mid-1985, Golden's customers started to experience serious telephone service difficulties, problems and faults in making telephone contact with Golden.



Point 3.

Teistra documents state:-

In the early 1980's, Telstra began introducing the Integrated Digital Network (IDN).

In 1987, the IDN network comprised of approximately 15% of Telstra's network.

In 1987, Telstra introduced new routing rules to change the way traffic travelled through the network.

Pursuant to the new rules:

- a. traffic destined for the IDN was to be routed as early as possible into the IDN to keep the traffic in the digital network for as long as possible; and
- b. traffic originating in the IDN remained in the IDN as long as possible.

The reasons for the new routing rules were that Telstra considered keeping traffic in the IDN longer would:

- a. improve the quality of speech transmission;
- b. relieve the load on the analogue network (which was going to be phased out); and
- c. facilitate the eventual removal of the analogue network.

In order for the analogue network to meet these new rules, different 'IDN Entry' and/or 'IDN Exit' routes were established. Only one IDN Exit route was provided for any analogue exchange.

The IDN Exit route from Footscray AXE exchange ("FSRX") to North Melbourne analogue exchange ("NMEL") was established in 1988. Prior to this route being commissioned, digital traffic travelled to NMEL via the Exhibition and Windsor digital tandems.

When IDN routes were commissioned, there was congestion within these routes, most of which was in the IDN exit routes. The IDN entry routes, as far as congestion was concerned, were generally not as big a problem as the exit routes.

A lot of network congestion during this period of time was primary caused by a lack of junctions in the IDN exit routes coupled with what was a rapid modernisation and conversion to digitisation of the network.

The reason IDN exit route congestion was not remedied when first noticed was because Telstra, in those days, purchased this equipment in annual orders, which has to be finalised within six months of delivery of equipment. The equipment would then be installed and commissioned in the following twelve months. Consequently there was up to an eighteen months delay between ordering of equipment and its final commissioning.

Because of Telstra's equipment ordering installation and commissioning procedures, it was not possible for Telstra to remedy congestion in a short time frame.

In late 1992, Teletra applied these "new" rules relating to IDN entry and exit routes to the Fortitude. Valley analogue exchanges.



Point 4.

Telstra documents state;-

In 1983, Teistra began replacing analogue exchanges with digital AXE exchanges.

Digital AXE exchanges have a CL software blocks placed in front of their central processors. If these software blocks are underdimensioned, congestion will occur within the network and the exchange. This is evident by the network presenting symptoms to the caller and called party which can cause various types of customer complaints.

When CL software blocks are underdimensioned, symptom, if a CL record is not available, a telephone call through an AXE telephone exchange to an analogue destination affects other than congestion may also be evident.

In late 1988, the Melbourne division of National Network Investigations, in response to Golden's continuous complaints, discovered Telstra personnel responsible for network and exchange performance, were not aware of:-

- existence of CL software blocks placed in front of digital AXE exchange central processors.
- what the functions of CL software blocks did.
- . the need to measure if CL software blocks were underdimensioned.
- how to measure if CL software blocks were underdimensioned.
- . their need to monitor performance of the CL software to maintain network performance.
- . how to measure network performance to detect underdimensioning within CL software.

Point 5.

Telstra documents state:-

There was a systemic problem within Telstra's network that prevented Parties connected to analogue exchanges from receiving incoming calls when:-

- the A Party, call originator, was using a certain types of Commander telephones (key telephone systems), and was connected to AXE exchange, and was ringing B Party, intended call receiver, who was connected to an analogue exchange.
- the A Party, call originator, was using a certain types of Commander (key telephone systems), and the call used a route that encompassed an AXE exchange, and was ringing B Party, intended call receiver, who was connected to an analogue exchange.

Point 6.

Telstra had not provided documents to Bova, Honner and Plowman identifying the information contained in Points 2 to 5 of this Appendix.

Point 7.

Telstra personnel have stated to Ann Garms and/or Graham Schorer the following:-

The C.o.T. saga taught Telstra many things about how its management of the network was causing telephone service difficulty, problems and faults to the Parties intended to receive a telephone call.

The most important thing Telstra learnt was:-

Its management of the network was causing unnecessary congestion as a result of lack of consultation between the parties responsible for changing how traffic flows through the network.

Telstra had many cells of people responsible for monitoring performance of network routes. When each cell introduced changes as a result of performance measurements, where changes included reconfiguration of routes, redimensioning of routes, these cells of people were not communicating with one another about intending changes to be made to the network, or recent changes made to the network.

As a result of C.o.T. escalating complaints, Telstra Initiated a major investigation. This investigation uncovered the work practices that was introducing congestion into the network.

Before the Telstra Investigation, originally in Melbourne, there was over 30 cells of people performing such tasks. As a result of the Telstra investigation, Telstra reduced the number of cells to 5, plus introduced procedures that no changes could be made to the network until all 5 cells were consulted and agreement was reached on the proposed changes.

This work practice problem was nationwide, it did not just apply to Melbourne.

Point 8.

Reasons Telstra's network diagrams related to Golden Messenger-G Schorer are rejected by the C.o.T. representatives on the Working Party is that they do not identify:-

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- All of the network or networks that were used by Telstra to service the business telephone service of Golden during the total period of Golden's dispute with Telstra (which is from 1985 to 31 December 1996).
- All changes within the network or networks that were used by Telstra to service the business telephone service of Golden during the total period of Golden's dispute with Telstra (which is from 1986 to 31 December 1996).
- 3. All of the exchanges within Golden's customer catchment area which had circuits linking directly into the North Melbourne (03) 329 ARF and ARE-11 analogue exchanges.
- 4. The number of circuits between all of the exchanges within Golden's customer catchment area which had circuits linking directly into the North Melbourne (03) 329 ARF and ARE-11 analogue exchanges.
- All of the major upgrades to existing exchanges within Golden's customer catchment area which were used by Telstra to service Golden's business telephone, including the period of the upgrades.
- All of the replacement of analogue exchanges to AXE and/or digital exchanges within Golden's customer catchment area which were used by Telstra to service Golden's business telephone, including the period of the upgrades.
- All the IEN networks within Golden's customer catchment area which were used by Telstra to service Golden's business telephone.
- 8. All of the IEN network entry and exit routes within Golden's customer catchment area which were used by Telstra to service Golden's business telephone.
- 9. All of the changes made to the IEN network within Golden's customer catchment area which were used by Telstra to service Golden's business telephone.
- 10. All of the IDN networks within Golden's customer catchment area which were used by Telstra to service Golden's business telephone.
- 11. All of the IDN network entry and exit routes within Golden's customer catchment area which were used by Telstra to service Golden's business telephone.
- 12. All of the changes made to the IDN network within Golden's customer catchment area which were used by Telstra to service Golden's business telephone.
- 13. All of the exit routes from Telstra PSTN network within Golden's customer catchment area which were used by Telstra to service Golden's ISDN business telephone.

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SPECIFIC COMMENTS ABOUT EACH NETWORK DIAGRAM. (Copies enclosed.)

Point 9.

Re: Network Configuration at 1985 - (Telstra's Appendix 1, Figure 1).

This diagram does not identify:-

- a) at what period in 1985 this network diagram relates to.
- b) the number and type of changes that took place between 1985 and 1992, that occurred within Golden's customer catchment area, within the network or networks that were used by Telstra to service Golden's business in North Melbourne.
- c) the network or networks configuration within Golden's customer catchment area which was used by Telstra to service Golden's business in North Melbourne when the North Melbourne exchange was an ARF analogue exchange.
- d) the type of exchanges within the type of network or networks configuration within Golden's customer catchment area which was used by Telstra to service Golden's business in North Melbourne when the North Melbourne exchange was an ARF analogue exchange.
- e) the network information identified in Points 3, 4, 7 & 8 of this Appendix.
- f) the network configuration when the North Melbourne (03) 329 exchange was an ARF analogue exchange in early 1985.
- g) the number of direct circuits from Blackburn ARE to North Melbourne ARE-11.
- h) the number of circuits in the second and third choice routes from Blackburn to North Melbourne.

Point 10.

Re: Network Configuration at 1992 - (Telstra's Appendix 1, Figure 2).

This diagram does not identify:-

- a) at what period in 1992 this network diagram relates to.
- b) the number and type of changes that took place between 1985 and 1992, that occurred within Golden's customer catchment area, within the network or networks that were used by Telstra to service Golden's business in North Melbourne.
- c) the network or networks configuration within Golden's customer catchment area which was used by Telstra to service Golden's business in North Melbourne.
- d) the type of exchanges within the type of network or networks configuration within Golden's customer catchment area which was used by Telstra to service Golden's business in North Melbourne.
- e) the network information identified In Points 3, 4, 7 & 8 of this Appendix.
- f) the number of direct circuits from Blackburn ARE to North Melbourne ARE-11.

- g) the number of circuits in the second and third choice routes from Blackburn to North Melbourne.
- h) the IEN and/or IDN networks, including the location of their entry and exit routes used by Teletra to service Golden's business in North Melbourne.

Point 11.

Re: Network Configuration at 1993 - (Telstra's Appendix 1, Figure 3).

This diagram does not identify:-

- a) at what period in 1993 this network diagram relates to.
- b) the number and type of changes that took place between 1992 and 1993, that occurred within Golden's customer catchment area, within the network or networks that were used by Telstra to service Golden's business in North Melbourne.
- c) the network or networks configuration within Golden's customer catchment area which was used by Telstra to service Golden's business in North Melbourne when the North Melbourne exchange was an ARE analogue exchange.
- d) the type of exchanges within the type of network or networks configuration within Golden's customer catchment area which was used by Telstra to service Golden's business in North Melbourne when the North Melbourne exchange was an ARE analogue exchange.
- e) the network information identified in Points 3, 4, 7 & 8 of this Appendix.
- f) the network configuration from Blackburn to North Melbourne when the North Melbourne (03) 329 exchange was an ARE analogue exchange.
- g) the number of direct circuits from Blackburn ARE to North Melbourne ARE-11.
- h) the number of circuits in the second and third choice routes from Blackburn to North Melbourne.
- i) the IEN or IDN networks used by Telstra to service Golden's business in North Melbourne.

Point 12.

Re: Network Configuration at 1996 - (Telstra's Appendix 1, Figure 4).

This diagram does not identify:-

- at what period in 1996 this network diagram relates to.
- b) the number and type of changes that took place between 1993 and 1996, that occurred within Golden's customer catchment area, within the network or networks that were used by Telstra to service Golden's business in North Melbourne.
- c) the network or networks configuration within Golden's customer catchment area which was used by Telatra to service Golden's business in North Melbourne when the North Melbourne exchange was an ARE analogue exchange.

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- d) the type of exchanges within the type of network or networks configuration within Golden's customer catchment area which was used by Telstra to service Golden's business in North Melbourne when the North Melbourne exchange was an ARE analogue exchange.
- e) the network information identified in Points 3, 4, 7 & 8 of this Appendix.
- the network configuration from Blackburn to North Melbourne when the North Melbourne (03) 329 exchange was an ARE analogue exchange.
- g) the number of direct circuits from Blackburn ARE to North Melbourne ARE-11.
- h) the number of circuits in the second and third choice routes from Blackburn to North Melbourne.
- i) the IEN or IDN networks used by Telstra to service Golden's business in North Melbourne.

Point 13.

Re: Network Configuration at 1996 - (Telstra's Appendix 1, Figure 5).

This diagram does not identify:-

- a) at what period in 1996 this network diagram relates to.
- b) the number and type of changes that took place between 1992 and 1996, that occurred within Golden's customer catchment area, within the network or networks that were used by Telstra to service Golden's ISDN business telephone in North Melbourne.
- c) the network or networks configuration within Golden's customer catchment area which was used by Telstra to service Golden's ISDN business telephone.
- d) the type of exchanges within the type of network or networks configuration within Golden's customer catchment area which was used by Telstra to service Golden's ISDN business telephone.
- e) the network Information identified in Points 3, 4, 7 & 8 of this Appendix.
- f) the number of direct circuits from Blackburn ARE to North Melbourne ARE-11.
- g) the number of circuits in the second and third choice routes from Blackburn to North Melbourne.
- h) the IEN or IDN networks used by Telstra to service Golden's ISDN business telephone.

QUESTIONS TO BE PUT TO TELSTRA'S TECHNICAL REPRESENTATIVE AND THE INDEPENDENT TECHNICAL CONSULTANT APPOINTED TO THE WORKING PARTY:

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As Telstra had a duty of care to review the procedures, functions, monitoring results and analytical results, including making inquiries of the departments responsible for network performance, all of which are identified within the C.o.T. provided Extracts from Telstra's Network Products, Network Operations Directory, when responding to the nature, type and frequency of complaints lodged with it about telephone service difficulty, problems and faults by C.o.T. and C.o.T. Related Cases,

one of the questions put to both Technical persons on the Working Party is:-

Which of the procedures, functions, monitoring results, analytical results, departments identified in the C.o.T. provided Extracts from Telstra's Directory are not applicable in relationship to identify:-

- reasonable causal link within Telstra's network to the telephone service difficulty, problems and faults experienced by C.o.T. and C.o.T. Related Cases?
- . the extent of the causal link to call losses experienced by C.o.T. and C.o.T. Related Cases?
- the consequential losses experienced by C.o.T. and C.o.T. Related Cases as a result of Telstra misinforming the customers of C.o.T. as to the reasons why they were unable to make successful telephone contact?
- the consequential losses experienced by C.o.T. and C.o.T. Related Cases as a result of Telstra misinforming C.o.T. as to the reasons why their customers were unable to make successful telephone contact?

The C.o.T. provided Extracts number 168 separate categories contained within 9 pages, copy enclosed.

The second question to both the Technical personnel is:-

- a) How will they identify that the Telstra personnel responsible for network and exchange performance did not monitor and test for underdimensioning within the CL software blocks placed in front of digital exchanges' central processors?
- b) The extent of the CL software problem and its resultant effect on C.o.T. and C.o.T. Related Cases' inability to receive incoming telephone calls?
- c) The total period of time the CL software problem impacted upon C.o.T. and C.o.T. Related Cases' inability to receive incoming telephone calls?

The third question to both the Technical personnel is:-

- a) How will they identify the existence and the extent of systemic problem within Telstra's network that prevented Parties connected to analogue exchanges from receiving incoming calls when:-
 - the A Party, call originator, was using a certain types of Commander telephones (key telephone systems), and was connected to AXE exchange, and was ringing B Party, intended call receiver, who was connected to an analogue exchange.
 - the A Party, call originator, was using a certain types of Commander (key telephone systems), and the call used a route that encompassed an AXE exchange, and was ringing B Party, intended call receiver, who was connected to an analogue exchange.

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b) The resultant impact upon the C.o.T. and C.o.T. Related Cases' Inability to receive incoming telephone calls?

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The fourth question to both the Technical personnel is:-

How will they go about proving or disproving the C.o.T. assertion, placed in writing, that parts of the November 1993 Bell Canada International Report is fabricated or faisified?

Enclosed are the 168 listings extracted from Telstra's Directory of Network Products and Network Operations, plus C.o.T.'s written explanation, which alleges to prove that parts of the November 1993 Bell Canada International Report is fabricated or faisified? đ.

Extracts from Telstra's Directory of Network Products, Network Operations, Implemented December 1994,

A to K, 20 October 1994, L to Z, 16 November 1994,

Identifying Teletra Departments, procedures, functions, monitoring and testing programs, plus analytical programs used to maintain, rectify and improve network performance.

<u>85</u>		CODE	DESCRIPTION
	1	AAT (1)	Arbitrated Access Timer (LDDI)
	2	ABD	Average Business Day - traffic measurement
	3	ABH	Average Busy Hour
	4	ABL	Auto blocked
	5	ABMA	Marker Relay Set
	6	ABR	Answer Bid Ratio - ratio of answered bids to all call bids offered - may b measured at various points in the network - see also ASR
	7	AC [1]	Access Cluster (FASTPAC)
	8	ACCADS	Alarm Collection Control and Display System - collects data from transmissio switching & radio equipment for transmission to central sites and to AMS
	9	ACCS [2]	Access module digitai
			Used to establish a connection from maintenance equipment to subscriber lines.
	10	ACM [2]	Answered Call Monitor
			The Answered Call Monitor is a personal computer based test system f monitoring calls either:
			Generated by the tester itself
			Generated by other call generating devices or
1			- Generated by a customer
	11	ADC [2]	Analogue to Digital Converter
	12	ADR	Automatic Disturbance Recorder - a device or aid to continuously monitor t exchange's common control devices using RKRs which pass on faul experienced in the setting up or the switching progression of a call (for ARF ARM) - see also ADX
	13	ADRAN	Automatic Disturbance Record Analysis
	14	ADRUP	Program for sorting ADR data
	15	ADTD	All Day Traffic Distribution
	16	ADX	Automatic Disturbance Exchange - transfers ADR call failure messages to SPINE - currently also used to transfer ARE.NCS data (to be transferred v SUPERSORTER when message format changes in June 1992)
	17	AFHG	Alarm & Fault Handling Group

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18	ANF	Analysis of Network Failure (functions previously performed by NPAC) monitors & analyses network signatiling & call failure data, meteri irregularities, and customer complaint information, to produce network fa patterns and assist maintenance activities to ensure speedy recovery o service - see also NMCSS
19	AOMLOG	Software package that runs on a PC - accesses an AOM to initiate traff observations (AXE TROB) & download the results - call data is then output to serial port (or to a floppy disk) - also produces a modified output form suitable for input to CDAS and SPINE - observes one exchange at a time on round robin basis - requires access to a dedicated virtual circuit to the remo exchange for the entire duration of the traffic observations on that exchange written in the C programming language
20	ARF.ASA.SD	ARF ASA program block that produces Summary Data records based up ARF originating traffic - formulated by maintaining counters for different fa types & call classifications (Local, STD, IDD) - obtained in QLD (& partially i WA) via MCU (at 12.00pm, 6.00pm & 10.00pm each day) and via Dataga (immediately following a record poll) - record length = 179 bytes
21	ARF.DCA.CD	ARF DCA program block that produces Call Data records based upon 10% all traffic originating from ARF exchanges - produced by passively monitoring analysing the relays of the KS & AN-KS registers with an intelligent extern device - sampling is implemented by reporting every 10th call analysed obtained from the Intellink NPR facilities - record tength $=$ 12 bytes - n monitored by ViC
22	ARFMCT.CMD	A command file used to check an AXE route to an ARE-11 terminal for cal marked as MCT
23		Software program that produces performance reports from statistical met data collected by Logger
24	ASR	Answer Seizure Ratio - ratio of calls answered to all calls which sei equipment at a particular point in the network - may be measured at vario points in the network - see also ABR - (note: call seizures < or = call bids)
25	ATLAS	Automatic Transmission Link Alarm System
26	AVALANCHE TRAFFIC	Unnatural traffic demand level
27	AXE.DRPC.CD	AXE DRPC program block that produces Call Data records based upon 10% all AXE originating traffic - call records are transported via the DCN (X.25) t TRAXE
28	AXE.SEQS.SD	AXE SEQS program block that produces Summary Data records based up AXE originating traffic that meets predefined filtering specifications - see al TRAFLOAD
29	AXE.TROB.CD	AXE TROB program block that produces Call Data records based upon AX originating traffic - the analysis algorithm must be configured to select cal based upon an operator defined selection criteria - when the axchan processor has spare time, calls are analysed (as they are initiated) & t TROB data transferred to the destination device (le file, comms port etc) record length = 76 bytes (91 bytes for CDAS/SPINE format) - see al AOMLOG
30	BALFOR	BALancing and FORecasting of Traffic - an automated traffic planning aid - s also TDAS
31	BDD	Busy During Dialling - refers to a condition of automatic switching wher through plant congestion, the number called cannot be reached.

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32 BFRB Business Fault Reporting Bureau(x) - now Telecom Customer Service Centre 33 BHCA **Busy Hour Call Attempts** 34 BHD **Busy Hour Discharge** 35 8NU Busy Not in Use 36 **Busy Hour** The hour of the day when the average traffic of an exchange is highest. 1 Telecom Australia practice, it is defined as the two busiest consecutive h hours commencing at the hour or the half hour. NETWORK - The hour during which the total traffic flow through the netwo under consideration is highest. ROUTE - The hour during which the total traffic flow on a route in question greatest. TIME CONSISTENT - The hour, commencing at the same time each day, f which the total traffic volume of the observed group of circuits is greatest ov the days of observation (usually Monday to Friday) 37 BWN Busy when not 38 CALL CONGESTION LOSS - the ratio of the number of first call attempts which we unsuccessful (owing to the unavailability of suitable connection paths) to t total number of first call attempts during the same period of tim DURATION - average call duration = total number of minutes of conversati recorded divided by the recorded number of effective call HOLDING TIME - average holding time = the sum of the durations of all c attempts made by users during the mean busy hour, divided by the tot number of call attempts = the average length of time for which the equipment in use for call attempts. PHASES: Call Establishment - connection is established between the servic Involved in the call Information Transfer - communication (voice, data etc) occurs between t involved services Call Disengagement - all connections are released Billing - the charge for the call is calculated 39 CANES Customer Access Network Evaluation System - C&C system - provides complete fault registration, recording, diagnosis & analysis environment alm at improving responsiveness to reported faulta - uses AI technology - Interfac with SULTAN and CPR. See also APPMAN, CIM, DA DRAW, EXPRES. 40 CCAS Call Charge Analysis System - monitors charging of selected services i analogue exchanges - CCAS data to be compared against CQM data - dai exception data to be incorporated into GAPS - interfaces to exchange lines v G.N. Elmi SMART 10's [in country areas] and via TBAX (in metro areas) t collect & report billing data for selected lines - when CCR calls are set up i ARE-11 the SR is set in the non- metering mode (relay S3 operated) while open circuits the meter wire ("r" wire) - this means that CCAS type syste can not detect the answer signal & hence can not determine if the call w effective or what the chargeable time is on an effective call - the CCAS recor are still of considerable use is to allow comparison of CCR & CCAS records a-party number, b-party number, date, call clearance time & CCR chargeab time < CCAS call duration - the possibility of changing the ARE-11 SR settiback to the charging mode (data change) so that CCAS systems can dete answer signals needs to be investigated

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41	CCS7	Common Channel Signalling System Number Seven (CCS#7, CCS No. 7 et A signalling protocol between network exchanges carried separately to t calling path. It provides a variety of services such as call control, c establishment and network management.
		- consists of 4 parts: MTP, SCCP, UP & AP
42	CCSN	Common Channel Signalling (CCS) Network
43	CCSNM	Common Channel Signalling Network Management - see also NEMACCS a NMCSS
44	CENTOC	Centralised Traffic Occupancy - computerised traffic recording & monitoring f analogue exchanges - uses RTMs
45	CFL	Call Failure - CCS7 signal returned by OTC exchanges for failed IDD calls see also ACM
46	CFR	Customer Fault Report
47	CFRB	Corporate Fault Reporting Bureau(x) - replaced by Telecom Customer Servi Centre.
48	CFS	Central File System
49	CLDR	Caliling Line Dependent Routing
50	CONGEST	Prioritises route selection - basis for TNE relief work - VIC system for use TNE & NSQ (not a NSQ function - should be NTIS)
51	Congestion	LOSS - the percentage of calls which fail to establish connection due t insufficient available capacity
		EXTERNAL - occurring outside the originating exchange in the IEN
		INTERNAL - occurring inside the originating exchange in the IEN
52	COOS	Circuits Out Of Service - figures represent those circuits which were out service for a whole week of the most recent four week period processed for t calculation of congestion in the NARS system - both analogue & digital rout are included - digital blocked circuits are extracted directly from the AX exchanges - analogue blocked and busy circuits and digital busy circuits a calculated from traffic measurements extracted by CENTOC and TRAXE
53	coos	Circuits Out of Service
54	CORAL	Consumer Operations Reporting Assistance and Logging system - a syste that interfaces with LEOPARD to provide Consultants with modified LEOPAR input & enquiry screens
55	ငဝန (၁)	Cutoff Speaking
56	CRIS	Code Routing Information System - automatically downloads routing data fro the AXE exchanges - used to provide an accurate Network model
67	DETRAM	Detailed Traffic Measurements sub-system of TDAS - minicomputer using da from TDE (VIC & NSW) [or Alston (Qld, Vic & NSW) or ELMI Smart 10 (WA SA)].
58	DNF	Difficult Network Fault
59	DTR	Daily Traffic Recording - a computerised system for monitoring telepho traffic information. CENTOC is Phase One of this system, and TADMAR is further development see also TDAS.
60	E 8	Emergency Bulletin
81	EEPLAN	Exchange Equipment Plan

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	62	EMG	Exchange Maintenance Group
	63	EMS	Exchange Monitoring System
	64	EPMS	Exchange Performance Measurement System - reports on exchan performance parameters including subsystem disturbances, errors, restarts outages
	65	ESFA	Electronic Switching Fault Analyser
	66	FAME	Fault And Maintenance Environment (originally called SOLAR - see SOLAR).
	67	Fault Reporting Bureau	Part of Telecom Australia which is responsible for receiving calls concerning faults, and then taking appropriate action to rectify the faults.
	68	FDC [1]	Fault Dispatch Centre
	69	FIQ [2]	Fault Information Officer - NMC role - provides timely information abo unscheduled network failures & acts as a contact point for progress reports these failures - also places details on a bulletin board enabling clients, users managers to get up to date progress
	70	FPI at	Fault Pattern Index - no of fault patterns per 10,000 exchange lines - see FRS
	71	FRAN	Fault Reporting Analysis
	72	FRB	Fault Reporting Bureau
	73	FTRM	Fault Trace and Repair Manual
	74	GoS	Grade of Service (Teletraffic Engineering)
	75	HTR ⊮	Hard To Reach - subscriber dialled codes which are statistically computed t have a low completion rate - determined by monitoring all calls through a exchange and using the equation:
			% failure = number of electromechanical failed calls to the code / total no of c attempts to the code - if % exceeds a standard threshold, then the code is sa to be Hard to Reach - may be chocked at or closs to the originating end by t NMC to reduce congestion throughout the network
	76	I-NMCSS	Integrated NMCSS
)	77	ICM	Individual Circuit Monitor - a device that, when attached to individual incomi or outgoing exchange circuits, provides data on traffic handling, and exchan performance (only for ARF & 10C)
	78	IDN	Integrated Digital Network (predecessor ISDN) - a network in whi connections established by digital switching are used for the transmission digital signals - comprised of AXE, DMS and S12 exchanges. A telecommunication network in which both switching and transmission metho are digital. The IDN supports analogue telephony sciences.
	79	IEN	Inter Exchange Network
	80	LIES	LEOPARD Interfacing Exchange Service - used to receive faults in Custom Operations Groups from retail Business Units.
	81	LOGGER	Electronic Statistical Metering Device for ARF Exchanges
	82	MAPS	Maintenance Analysis& Performance Statistics - C&C DSE Application provides statistical information on faults (TRs & TAs) sourced from LEOPARD also being used by C&G
	83	MIS	Management Information System - see also EIS
	84	NAB	National AXE Bulletin

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	86	NAC [2]	The Network Administration Centre (NAC) has been assigned the over responsibility for the availability and performance for transmission netwo bearers and switching plant in the network.
			The purpose of this function is to ensure that Telecom's network (Transmissi and switching) is maintained in accordance with Telecom's Practices a Procedures and performs to CCITT/CCIR and Telecom's performance a availability specifications by authorising all maintenance and installati activities that could put the network at risk.
	86	NARS	Network Analysis Reporting System - uses TSAR data to give excepti reports of congestion on final choice route links - uses average carried traff data stored in TSAR & traffic tables to report on routes in congestion
	87	NCC	Network Control Centre
	88	NCFR	Network Call Failure Rates - uses DCA data
	89	NCFS	Network Call Failure Supervision - superseded by NCS
į.	90	NCFS	Network Call Failure Supervision (ARE-11)
10	91	NCS	Network Call Supervision - see also ARE.NCS.CD and ARE.NCS.SD
	92	NEAT System	Network Evaluation and Test System. A test call system consisting of remo transponders, each connected at the network exchange MDF point as a norm customer, and a central management and control unit. The system c conduct a schedule of test calls between transponders to measure call set-u and hold performance, together with transmission, noise, post dialling dela and other tests.
	93	NEMACCS	Network Management of CCS Surveillance System - see also CCSNM a NMCSS - receives data relating to the CCS network from AXE exchanges v the AOM - data consists of blocked route, signalling relationship unavailabl faulty signalling link, faulty digital path & supervision alarms - expected to b able to transmit commands directly to AXE exchanges via AOM in futu software releases - presently commands to interrogate, control & configure t CCS network are issued via the NEXIS interface with the AOM or via separa NOC terminals connected to the AOM - has dedicated links to NorTel DM CLDR and S12 exchanges to allow the transmission of CCS data in NEMACCS.
1	94	NEPR	NEtwork Performance Reporting - information from AXE exchanges about cal which fail due to fault or congestion in the network - call failure data for bo MFC & CCS7 controlled calls are included for all types & classes of call - se via the Supersorter - see also NPR
	95	NMC	Network Management Centre - The NMC is part of the Network Manageme Unit. It is responsible for monitoring traffic levels and blockages and takl action to limit or redirect traffic as necessary.
		2	The NMC maximises the performance of the network in "real-time" b computer assisted monitoring & control of the network in response to netwo stress conditions (overloads & failures) - also perform a vital role in alding t recovery of the network from major outages
	96	NMCSS	NMC Support System - \$50M system to be developed over 5 years (1991/ 1995/6) with 6 applications : TFM, NTM, CCSNM, ANF, AHA & DCN - to b integrated into I-NMCSS
	97	NMU [2]	Network Monitoring Unit - used to measure response times (etc.)
	98	NNI [2]	National Network Investigations
	89	NNMC FIO	National Network Management Centre - Fault Information Officer
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100 101	NNO NNSQ	National Network Operations - new Network Performance
101	NNSQ	Notional Network Service Quality and NSQ
		National Network Service Quality - see NSQ
102	NOC [2]	Network Operations Centre
103	NOM	Network Operations Manager
104	NOS [1]	Network Operating System
105	NOU	Network Operations Unit
106	NOU Library	Library of all NOU documents available for electronic access throu Hypabook.
10 7	NP [1]	Network Performance
108	NP&D	Network Planning and Development Group
109	NPA [1]	Network Performance Analysis - data for NMC functions
110	NPAC	Network Performance Analysis Centre
111	NPAS	Network Performance Administration System - superseced by NSQSS
112	NPR	Network Performance Reporting - ARF data for NSQ functions - see al NEPR
113	NSQ	Network Service Quality - provides proactive delivery of innovative informati required nationally to continuously improve quality of switched network servi - primary business focus is the management of Network Service Performance renamed NNSQ.
114	NSQSS	Network Service Quality Support System
115	NSS	National Switching Support
116	NTG [2]	Network & Technology Group (Telstra)
117	NTIS	Network and Traffic Information Services - operates systems for the collecti & processing of network utilisation information from the various switchl technologies available
118	NTM [1]	Network Traffic Management - monitors the performance of the flow of natwo traffic in real-time and takes action to control traffic flow, when necessary, t ensure the maximum utilisation of network capacity in all situations - see al NMCSS
119	NUM	Network Utilisation Monitor - provides detailed information on STD, loc effective & ineffective calls by sampling - the effective STD component is bei replaced by NUMIS
120	NUMIS	Network Usage Marketing Information System - provides summary reports o call usage from exchange to Division aggregates to support macro lev management of call usage strategies - delivers individual customer reports t other customer reporting systems such as SAMIS and BROCK - provid subsets of call records to other systems and ad hoc analytical studies a required - obtains CCR data from CABS and stores it for 10-24 days (on-lin 12 months (off-line)
121	OMG	Operations Maintenance Group - exchange organisation under CEMO
122	OPAS [1]	Operations Performance Analysis System
123	OSC	Operations Support Centre - maintenance centre responsible for sever OMGs - see also CEMO & MEMO
124	OSC-A	Analogue Operations Switching Centre
125	PAS	Performance Analysis Subsystem (component of NPAS)
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PCCI 126 Probability of Call Cut-off / Interruption - the probability that an establish connection is interrupted or cut-off - may be influenced by: the Inter-exchan signalling network (or networks) connecting the originating and terminati exchanges; the quality of the inter-exchange transmission path; the quality the customer's line at the originating or terminating end; the performance customer equipment 127 PCFS Probability of Connection Setup Failure - the probability that any valid bld f service will result in one of the following conditions: dial tone returned aft dialling completed; no ring and no answer; all circuits busy signal o announcement; connection to the wrong number (mis-routing); doub connection etc - ie main causes are call congestion, signalling failure a wrong numbers- may be influenced by: background traffic levels in t network, primarily the originating and terminating exchanges; the inte exchange signalling network (or networks) connecting the originating a terminating exchanges 128 PDD [2] Post Dialling Delay - the time interval between the end of user or termin equipment dialling and the reception of an appropriate network response - m be influenced by the inter-exchange signalling network (or network connecting the originating and terminating exchanges 129 PDPS Performance Data Processing Subsystem (component of NPAS) 130 PDR Performance Development Review. Performance Reporting Subsystem (component of NPAS) PRS 131 Post Survey Analysis System - used to analyse TELCATS data - allows ad-ho 132 PSAS reporting based upon a set of user definable filters (ie district time periods etc. to give summaries relating a surveyed list of reasons to say an exchange resident on TACONET VI3 & contains survey information from all states - see also TELCATS. Packet Switch Network 133 PSN. Remote Access Digital Monitoring System - provides enhanced monitori 134 RADMS facilities & is used for tracing difficult faults - provides monitoring facilities f only one link at a time - see also OPMS. A statistical database containing RASS reference information eg exchange 135 RASS_STATS Districts, regions, Special service products, orders (sales, connections installation performance), faults, services in operation REA (REgister Area) PAGE SORTER - contains exchange disturbance data 136 REA see SUPERSORTER Route Occupancy Management and Analysis System - looks at hi 137 ROMANS occupancy routes & forecasts runouts - developed by TNE Metro VIc - simil system developed by Country is called COUNTRYMEN (pun intended) a possible sequence of routes that a call can take in reaching its destination. 138 Routing Chain a unique sequence of route overflow choices that a call can take for t 139 Routing String particular dialled code Traffic figure (named after George Rubas) based on the 50 highest half ho RUBAS 140 average traffic figures over a 7 day period. SAGA Name given to Orgoing customer fault process owned by Consumer. 141 Group designed to control SAGA process - Usually resides in an FRB 142 SAGA cell Owner of SAGA process - Usually resides in an FRB SAGA Co-143 ordinator

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144	SCC [2]	Switching Control Centre (Generic term)
44	SCC [2]	Switching Control Centre (Generic term)

- 145 8DLG Software & Data Loading Group
- 146 SEQS Service Quality Statistics (AXE) transported to CDLS via AOM usi TRAFLOAD - see also AXE.SEQS.SD
- 147 SFA Switching Fault Analyser
- 148 SFA-E Switching Fault Analyser Electronic
- 149 SOLAR Son of LEOPARD And RASS renamed FAME
- 150 SPAN [1] Service Provision Advice Network
- 151 SPI Switching Performance Indicator
- 152 SPINE System for Pattern Identification & Network Evaluation NMC system f analysis of network failure - analyses LEOPARD TA data and automatic failu messages from 10C, AXE, ARE, ARF & ARM - runs under UNIX on 486 PC
- 153 SPM Service Performance Monitor
- 154 SPOOLER Device for allowing the collection of ADR data from many exchanges on t one ADRAN data base.
- 155 STU-L ARE signalling transfer unit used to obtain ARE.NCS.CD data
- 156 SULTAN Subscriber Line Test Access Network provides test information vital f diagnosis of customer fault reports and network performance monitoring - us with LEOPARD and CANES - C&C system
- 157 Supersorter Data transport mechanism for AXE call failure messages (from NEPR) ARE.NCS into SPINE - also proposed for ARF.DCA data by NSW Country (w only handle failed call data & summary data; not successful calls) - see al ADX and TCX - see also REA & STU-L
- 158 Switching Loss The proportion of calls in a network, or a part of it, which are unsuccessful d to malfunction of the switching equipment or signalling equipment timeout
- 159 TA [2] Technical Assistance / Trouble Advice (report or referral) a report of faul which are not specific to a particular customer, that is, the difficulty is in t switching network, not in the customer equipment or cabling - netwo problems reported by customers to 1100 - recorded in LEOPARD sutomatically transferred to GAPS on a nightly basis (located on NH5 & V TACONET mainframes)
- 160 TAP [4] Transmission Analysis Program
- 161 TBAX Telephone Billing Analysis compleX CCAS equipment used in Metro areas to be replaced with ELMI equipment approx 400 terminals installed national not able to detect ARE/ARF "r" wire (meter wire) answer signals is even if t ARE-11 SR setting is changed to the metering mode for CCR calls not to connected to AXE exchanges
- 162 Technical A technical publication is one that refers to procedures, work instructions Publication process testing documents and standards.
- 163Technology CellThis is the person responsible for a particular technology of equipment in
designated area. For example this could be an AXE or Transmission C
Leader in an Exchange Maintenance Group within a Metropolitan Region.

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164	TELCATS	Telecom Customer Attitude to Service - records details of Custom Satisfaction Surveys - produced by REARK - compiled every 3 months - t reports summarise 7 metro & 7 country regions and 4 natinal divisions (TN TRNS, Country, CCD) - 76% of complaints relate to poor transmission quali (of switching & congestion loss) -ad-hoe reporting on TELCATS data will b allowed by PAS.
165	TMNRC	Telecommunications Management Network Response Centre
166	TNE	Telecom Network Engineering (SRU)
167	TNS	Transit Network Switch
168	TRAXE	Traffic Recording for AXE - data acquisition system - uses Data Gener minicomputers located in each State - see also TDAS - apart from traff analysis, is also a data transport/gateway for the existing NMC syste (NMCSS in future) and for NSQSS.

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ROLDEN
C.o.T.'S WRITTEN ASSERTION TO THE SENATE ABOUT PARTS OF THE BCI REPORT BEING FABRICATED OR FALSIFIED.

Examples of Inaccuracies in Telstra's Answers to The Senate in Response to Specific Questions asked of it by individual Senators.

Example 1

Senator Schacht's Question:

Questions have been raised concerning alleged inaccuracies in a Bell Canada international Report dated 10 November 1993. I understand the report relates to Cape Bridgewater. Are you aware of any inaccuracies? If so, when did you become aware of the inaccuracies? What were those inaccuracies? Were the findings of the report flawed by such inaccuracies, if there are inaccuracies?

Telstra's Answer:

The Bell Canada International Report (the BCI Report) does not relate only to Cape Bridgewater, rather it also deals with other parts of the Telstra network.

The only inaccuracy in the BCI Report which Telstra is aware of is an apparent clash in the dates of two sets of testing to the Portland Exchange, Cape Bridgewater RCM (CBWR) number range, test line 055 267 211, see section 15.23 of the BCI Report.

By way of a letter dated 6 September 1994, Telstra wrote to Bell Canada International (BCI) noting this apparent clash in dates and seeking BCI's comments to same. A copy of Telstra's letter to BCI is Attachment G. Attachment H to these answers are copies of two letters received by Telstra from Gerald Kealey of Bell Canada International in response. In those letters, Mr Kealey notes:

"Unfortunately, the wrong date was recorded in the hand written notes which was transcribed to the final report for Telstra. It must be pointed out that, while the actual date was incorrectly recorded, this error does not effect the validity of the testing process or the test results and is not a significant factor in assessing the overall performance of the network."

C.o.T. Cases Australia state the truthful and fair answers to the Senator's questions should be:-

Question:

Questions have been raised concerning alleged inaccuracies in a Bell Canada International Report dated 10 November 1993. I understand the report relates to Cape Bridgewater.

Answer:

The Bell Canada International November 1993 Report (the BCI Report) does not only relate to Cape Bridgewater, it also deals with other parts of the Telstra network.

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Question:

Are you aware of any inaccuracies?

Answer:

Yes,

Question;

If so, when did you become aware of the inaccuracies?

Answer:

Prior to 6 September 1994.

Question:

What were those inaccuracies?

Answer:

In one test all of the start and finish times and dates as stated in the report are wrong. All of the Test Results are wrong. The inaccuracies in the test results are not detectable on reading the report as the report does not disclose that Telstra was performing NEAT test calls to the same Test Number during the times Telstra was performing test calls for BCI.

Question:

Were the findings of the report flawed by such inaccuracies, if there are inaccuracies?

Answer:

Yes.

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C.o.T.'s reasons for asserting its answers to the Senator's questions are truthful and Teletra's response to the Senator's questions are wrong and misleading:

Telatra stated to The Senate:-

The only inaccuracy in the BCI Report which Telstra is aware of is an apparent clash in the dates of two sets of testing to the Portland Exchange, Cape Bridgewater RCM (CBWR) number range, test line 055 267 211, see section 15.23 of the BCI Report.

Telatra's above statement contradicts the content of its 6 September 1994 letter to BCI and other facts known to it at the time it made this statement to the Senate.

In Teletra's 6 September 1994 letter to BCI, on page 2. In the paragraph commencing "It appears...", Teletra states, "... the test calls to Cape Bridgewater Test No. (055 267 211) should have been recorded as beginning at approximately 4.18 pm on 3/11/93 (rather than 12.45 pm on 5/11/93) and finishing at about 12.45 pm on 4/11/93 (rather than 4.18 pm on 5/11/93), with other aspects of the test run remaining the same as previously recorded. These timings fit in with other test runs from the Richmond TRT line and with other test runs from other exchanges to the same line at Cape

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Bridgewater. They also provide a logical sequence in the overall test program and a reasonable average test call interval (43.9 sec. per call)."

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The above Telstra statement made in September 1994 to BCI, acknowledges in one of the tests all of the starting and finishing dates and times are wrong due to inconsistency in recording. The same statement alleges the test results were accurately recorded.

Telstra know, as a result of it conducting two different types of tests, at the same time, to the same test number, the published BCI test results for the test with amended dates and times were impossible to achieve, as it was impractical.

Teistra's reliance upon and use of Gerald Kealey of Bell Canada statement, "Unfortunately, the wrong date was recorded in the hand written notes which was transcribed to the final report for Teistra. It must be pointed out that, while the actual date was incorrectly recorded, this error does not affect the validity of the testing process or the test results and is not a significant factor in assessing the overall performance of the network." as part of their answer to The Senate is misleading, deceptive and unconscionable.

Telstra are aware BCI 11 August 1995 response to Telstra, relied upon the information contained in Telstra 6 September 1994 letter to BCI. Telstra letter to BCI failed to disclose Telstra was conducting NEAT Testing to the same Test Number for the majority of the same time of the period between the alleged new start and finishing dates and times of the test that was the subject of their correspondence. (Refer to page 157 of the April 1994 AUSTEL C.o.T. Report which identifies the dates and times Telstra conducted the NEAT Testing to the same Cape Bridgewater Test Number.)

BCI's 11 August 1995 response to Telstra can only be, at best, described as "a statement of convenience", as the test call results, as stated, are not achievable.

When all of the facts involved in the use of the Cape Bridgewater Test Number (055) 267 211 including the Types and number of tests, each type of test call separation requirement, and number of test calls are examined by an Independent Telecommunications Consultant it will prove the stated test result as being fabricated or falsified.

The following information supports this statement.

1. In the November 1993 Bell Canada International (BCI) Report, it lists alleged results of monitoring and testing Telstra performed in accordance with the BCI procedures.

The Report states CCS7 data was used to record the results of the test calls Telstra made on behalf of BCI.

This type of test call require greater than 15 seconds separation between each test call. (Refer to the internal Telstra document FOI No K03888).

As each test call is held for 15 seconds, there must be more than 15 seconds separation between each test call to prevent :-

- a) the latter test call clashing with the previous test call still in progress,
- b) the latter test call being recorded as incorrect results of busy.
- Page 157 of the April 1994 AUSTEL C.o.T. Report, lists the table of Telstra NEAT testing results to Cape Bridgewater Holiday Camp, Test No. (055) 267 211 during the business hours of 0800-2200 for the period between 28 October 1993 to 8 November 1993 Inclusive.

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As each NEAT test call is held for 100 seconds, there must be more than 100 seconds separation between each NEAT test call to prevent :-

- a) the latter test call clashing with the previous test call still in progress.
- b) the latter test call being recorded as incorrect results of busy or a failed call .

During NEAT testing to a telephone number, it is impractical to perform any other form of monitoring and testing, at the same time, to that same telephone number.

Performing two (2) different types of test calls to the same Test No at the same time is impractical as it would produce negative or inconclusive results.

3. In the November 1993 BCI Report (re Cape Bridgewater), it lists dates and times of alleged test call results (of the Telstra monitoring and testing performed on behalf of BCI) made to the same Test No. (055) 267 211 at dates and times the Test No was set up for and was being used by Telstra for NEAT testing in compliance with AUSTEL directive. (Refer to page 157 of the AUSTEL April 1994 C.o.T. Report.)

As Telstra, in response to AUSTEL directive, was performing NEAT testing to the Test No. (055) 267 211, between the hours of 0800 and 2200 for the period 28/10/93 to 8/11/93 inclusive, this meant the alleged test calls performed by Telstra on 3/11/93 and 4/11/93 for BCI (with the new start and finish times) were being made at the same time to the same Test No. as the NEAT test calls, which, by Telstra's admission, is impractical. (Refer to the internal Telstra document FOI No. K03888).

This alleged simultaneous testing to the same Test No during the periods of time from 1618 hours to 2200 hours on 3/11/93 and from 0800 hours to 1245 hours on 4/11/93 would have meant :-

a) most, if not all, of the test calls for BCI would have clashed with the NEAT test calls and the BCI test results would have reported a high number of busy or failed calls,

 b) some of the NEAT test calls would have clashed with the test calls made for BCI and NEAT test results would have reported an unacceptable number of busy or falled calls,

due to, NEAT testing requirement of more than 100 seconds separation, and the BCI test call requirement of more than 15 seconds separation, between each test call.

C.o.T. member Mr Alan Smith has received from Telstra, under FOI, computer disks containing NEAT testing data and results confirming the NEAT testing as reported in the AUSTEL April 1994 C.o.T. Report did take place during the times as stated.

 In 1994 Alan Smith requested from Telatra under FOI the CCS7 data on the Telatra test calls made to Cape Bridgewater Test No (055) 267 211.

During Mr Smith's arbitration Telstra supplied CCS7 data for the days between:-

a) May 1993 and some of October 1993, representing approximately 160 days.

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b) late November 1993 to August 1994, representing approximately 270 days.

but not the CCS7 data for the 7 days, for the period of 3 November to 9 November 1993 inclusive, which are some of the specific days Mr Smith requested.

Despite repeated requests, Telstra have not provided any CCS7 data, for the time it allegedly made test calls for BCI to the Cape Bridgewater Test No (055) 267 211.

Telstra also require the CCS7 data to prove:-

- a) the test calls did take place as elleged,
- b) the test results published in the BCI Report are not fabricated or falsified.

Example 2

Senator Boswell:

Why did Telstra not advise the Arbitrator, the Administrator or the C.o.T. Cases that the BCI Report was flawed?

Answer:

Telstra has not at any time believed that the BCI Report was flawed. In relation to the allegations made by Mr Smith that the BCI Report was flawed, Telstra notes that Mr Smith raised these allegations with the Arbitrator during his arbitration and with the Administrator.

C.o.T. Cases Australia state the truthful answer to the Senator's question should be:

- a) Prior to September 1994, Telstra knew that the details published in the November 1993 BCI Report about one test to Cape Bridgewater were not correct. In this particular test the reported starting and finish times and dates meant the test results were unachievable.
- b) Telstra wrote to Mr Kealey of Bell Canada International (BCI) on 6 September 1994 about the alleged anomaly found in its test call records used by BCI to compile the "Bell Canada international Inc. REPORT TO TELECOM AUSTRALIA 1 NOVEMBER 1993".

Telstra, in its letter, stated in one part, "Specifically, the start and finish times for the test run from Richmond digital exchange (RCMX), test line 03 428 8974, to Portland exchange, Cape Bridgewater RCM (CBWR) number range, test line 055 26 211, (detailed in section 15.23 of the report) are impracticable. The number of calls made during the test run could not have been completed within the time span shown and the test run would have clashed with other test runs performed within those times." The same letter suggested new start and finish times and dates as they provide a logical sequence to the overall test program and a reasonable average test call interval (43.9 seconds per call). (Refer to Telstra letter to BCI dated 6 September 1994, FOI Nos. N00005 and N00006.)

c) in Teistra's letter to BCI, it did not disclose that Telstra were conducting NEAT testing to Cape Bridgewater Test Number 055 267 211 during the same times and dates Telstra was making test calls for BCI to the same test number. The dates and times of this NEAT testing coincided with a major period contained within the suggested new start and finish times and dates of the test Telstra previously acknowledged the result was impractical.



- d) Mr Smith raised these BCt allegations with the Arbitrator and Administrator in his arbitration. Mr Smith made repeated requests under FOI and arbitration to be supplied with the CCS7 Data of the test calls Telstra allegedly made for BCI. Telstra still has not supplied Mr Smith the requested CCS7 Data. Without hard evidence, Mr Smith was unable to conclusively prove to his Arbitrator the test results are fabricated or falsified.
- e) In August 1995, BCI, in its letter to Teistra, agreed in writing with all of Teistra's assertions contained in Teistra's letter dated 6 September 1994. BCI's confirmation to Teistra was made without being supplied the information Teistra were conducting NEAT testing during the same time to the same test number as Teistra alleged it was conducting the test calls for BCI.

Example 3

Senator Boswell:

Has Telstra provided to the C.o.T. Cases "data" in disk form or hard copy, generated from the testing identified in the BCI Report?

Telstra's Answer:

Telstra has provided to various CoT members data in disk form generated from the testing identified in the BCI Report and hand written tables of data generated from the testing identified in the BCI Report. This data provided by Telstra is not a complete set of the data generated from the testing identified in the BCI Report.

C.o.T. Cases Australia state the truthful answer to the Senator's question should be:

- a) Telstra has not provided Alan Smith with CCS7 Data generated from the Telstra testing to the Cape Bridgewater Test Number identified in the November 1993 BCI Report.
- b) Telstra has not provided all C.o.T. members with its working papers created prior to, during and after the completion of its testing which were used by BCi to generate the November 1993 BCi Report.
- c) Telstra has not provided, in disk form or hard copy, Information about initial test calls identifying difficulties, problems and faults within the network experienced during the beginning of the test call program and initial test call results of the testing program used in the November 1993 BCI Report.
- d) Telstra has only provided some C.o.T. members with data in disk form generated from separate testing identified in another BCI Report named Rotary Hunting Group Study Report, which was performed and created after the November 1993 BCI Report. This data does not include:-
 - those test calls from locations chosen then abandoned as a result of difficulties, problems and faults experienced during the initial test call program.
 - initial test calls identifying difficulties, problems and faults within the network experienced during the beginning of the test call program and initial test call results.

Enclosed are Telstra documents gained under FOI and extracts from the AUSTEL C.o.T. Report, which support C.o.T.'s assertion.

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Telstra executive Hew Macintosh stated in F.O.I. document K03888 that Telstra's internal PTARS 257211 testing "will hold up for 15 seconds after a test call, therefore if possible a delay of 15 seconds between calls should be inserted to avoid incorrect results".

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Loweten	Ballarat Roolings	Total Payne	1		Panlada pilj Marashi C	
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K03888

Test Celle to Cape Bridgemater

National Nerwork Network investigation. Melbourne, are currently investigating a customer at Cape Bridgewater. Some completes have come from the Ballarat area, namely Sebastapol, Cardigan (052-448367), Longeto College (053-332682, 053-301521) & Haddon (053-424675).

As previously discussed, could you please arrange for 500-1000 test calls from the following tocsulons calling 055-267212. The latter is a PTARS connected at the Cape Bridgewater RCM. It should be noted the PTARS will hold up for 15 seconds after a test call, therefore if possible a delay > 15 seconds between calls should be inserted to avoid incorrect statute of bury.

When completed, could you please for dealle as National Network Network Investigation, Meltrauma, on (03)656-4601.

Your sealannes in this metter will be greatly appreciated and if there are any difficulties planes contact NNI on (03)657-3447.

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Euf Man Gdal

7703 - National Network Network Investigation, Melbourne,

TOTAL P.01

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ID:02-82857001



Subject

COT Network Testing Program

File

Date 10 November 1993

From D Shepherd

To: Mr J MacMehon General Manager Consumer Affairs AUSTEL

Minute

David Shepherd Menager Natworks and Interannour Network Performance Sub-Unit Metwork Operations

Australian and Oversues Telesenmunistations Corporation

Telephone: 08 2306338 02 6347442 Internationale = 81 Facsimila: 06 4104038

K35002

Dear Mr MacMahon

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The network testing program specified in Paragraph 16(a) of your minute of 12 August 1993 in connection with the COT cases has been completed and results are attached.

The test lines used to terminate the calls were chosen to be within the same equipment groups as the monitored COT customer services (not necessarily in the same number group). In each case a minimum of 1000 calls were generated from a variety of orage the these test lines.

The equipment used for the tests to all but two of the exchanges concerned was the Eriosson Network Evaluation and Test System (NEAT). This system establishes calls between Network Test Units connected to customer line appearances in the exchanges. Each test call is held for 100 seconds to conduct transmission tests and detect drop-outs are conduct transmission tests and detect drop-outs are spread of the test calls over time of day. In the case of the NEAT system there are some null periods in which no calls are generated due the the equipment requiring time slots to communicate with the central control unit to convey fesults and accept commands.

The test calls were run over a longer period of the day and in some cases over weekends in order to enable sufficient calls to be generated to achieve the target number in the required time and also to include evening and weekend high traffic periods.

For those exchanges without NEAT units (lindabyne and Deviins Bridge) the tests were conducted using either Traffic Route Testes or Electronic Automatic Exchange Testers directing calls to Test Call Answer Relay Sets located in the exchanges concerned. In each of these cases the exchanges are connected via one junction route to their parent: exchange and the possibilities of access paths are therefore limited. Consequently the range of origins chosen are more restricted than those for the NEAT tests.

Telecom's Performance

TELECOM'S TEST CALLING INTO CAPE BRIDGEWATER AXE/RCM EQUIPMENT

Cape Bridgewater Holiday Camp: 28 October 1993 to 8 November 1993 inclusive

	24 hour calling		Business hours calling	
8	Sample	% of calls	Sample	% of calls
Total calls	1030		390	
Effective calls	1023	99.32	387	99.23
Total failed calls, as below	7	0.68-	3	0.77
Congestion	2	0.19	1	0.26
Communications error	1	0.10	1	0.26
RVA/Wrong number	0	0.00	0	0.00
No answer	0	0.00	O.	0.00
Couldn't break dial rone	1	0.10	0	0.00
System error	3	0.29	(0.26

Test No (055) 267 211 Business hours 0800-2200

TELECOM'S TEST CALLING INTO DIXONS CREEK AXE EXCHANGE Lovey's Restaurant: 21 October 1993 to 8 November 1993 inclusive

Business hours 0800-2200								
	24 hour calling		Business hours calling					
8	Sample	% of calls	Sample	% of calls				
Total calls	1279		\$56	8				
Effective calls	1269	99.22	552	99.28				
Total failed colls, as helow	10	0.78	4	0.72				
Congestion	5	0.39	3	0.54				
Communications error	1	0.08	1	0.18				
RVA/Wrong number	0	0.00	0	0.00				
No answer	0	0.00	0	0.00				
Couldn't break dial tone	4	0.31	0	0.00				
System error	0	0.00	0	0.00				

Test Nos (059) 652 414 and (059) 652 415 Business hours 0800-2200

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Central Area Network Operations 6/171 Roma Street Brisbane Australia

Ph (07) \$37 3212 Fax (07) 236 4247

Mr G. Kealey Bell Canada International Suite 800, 1 Nicholas Street Ottawa, Ontario, Canada, K1N 9M1

6 September 1994

Gerry,

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N00005

As you have been made aware through discussions with Mr K. Dwyer, an anomaly has been found in the test call records contained in the report "Bell Canada International Inc. REPORT TO TELECOM AUSTRALIA 1 NOVEMBER 1993'.

Specifically, the start and finish times for the test run from Richmond digital exchange (RCMX), test line 03 428 8974, to Portland exchange, Cape Bridgewater RCM (CBWR) number range, test line 055 267 211, (detailed in section 15.23 of the report) are impracticable. The number of calls made during the test run could not have been completed within the time span shown and the test run would have clashed with other test runs performed within those times.

An examination of the test result summary forms filled out after the test runs (a copy of the relevant record forms is enclosed) reveals that the report details have been correctly derived from the summary forms.

This inconsistency in recording of times for a test run is not a fundamental flaw in the test results or the conclusions of the report, but the proper times of the run should be recorded if at all possible.

Discussions with a number of people assisting with the test call program during that period confirmed that considerable care was take to avoid clashes of test calls to test answering bases and to ensure that test calling devices originated calls only to a single terminating test code during any test run.

From their recollections of events several points regarding the sequence of events have been brought together:

- The tests were initiated to provide extra data from test calls into the number ranges of the CoT customers connected to Devlin's Bridge exchange and Portland exchange. The data was to be added as an addendum to the report dated 1 November 1993.
- Testing began Wednesday 3/11/93. Traffic Route Testers (TRTs) in the NIB test room 7/35 Collins Street Melbourne originated calls, via test lines connected to Richmond exchange, to test answering bases at Portland exchange and Devlin's Bridge exchange. A portable TRT at South Yarra exchange was also used to originate calls to the same exchanges.

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FOI. RECEIVED 26/5/95

- As Mr G. Kealey and Mr R. Ealtais intended to travel to Portland exchange (via Warmambool exchange) on Friday afternoon 5/11/93, they ensured that a TRT run from Richmond had finished and that a run from the South Yarra TRT had commenced satisfactorily before they left Melbourne at approximately 12.45 that day. They also attanged for test calls to begin from Bendigo exchange that afternoon, and made a call from Warmambool exchange to South Yarra exchange late in the afternoon to ensure the South Yarra TRT had completed its test fun program and stopped.
- No staff recalls or attendance were recorded or required at either South Yarra or Richmond exchange to attend to TRT's on Friday 5/11/93 or the weekend 6/11/93 & 7/11/93.

A complete examination of the times of the test calls from all the exchanges to the test lines at Cape Bridgewater and Devlin's bridge over the period from 3/11/93 to 9/11/93 shows that the only time the test run from the Richmond digital test line to the Cape Bridgewater 055 267 211 test answer base could have been made, without clashing with other test calls to the same test number, was between the afternoon of 3/11/93 and about midday of 4/11/93.

It appears that the details for the test run from the Richmond digital test line (03 428 8974) to Cape Bridgewater RCM (055 267 211) should have been recorded as beginning at approximately 4.18 pm on 3/11/93 (rather than 12.45 pm on 5/11/93) and finishing at about 12.45 pm on 4/11/93 (rather than 4.18 pm on 5/11/93), with other aspects of the test run remaining the same as previously recorded. These timings fit in with other test runs from the Richmond TRT line and with other test runs from other exchanges to the same line at Cape Bridgewater. They also provide a logical sequence in the overall test program and a reaconable average test call interval (43.9 sec. per call).

A table has been drawn up to show the test calls made over the period and is attached, showing the test run between the Richmond digital test line and the Cape Bridgewater test line in this logical time-slot, within the overall test run program.

Could you please confirm whether or not this interpretation of the sequence of test runs matches with your recollections and personal notes, or whether there is any other way to correct the records of the test runs shown in the report.

N00006

Alan Humpish GENERAL MANAGER CENTRAL AREA

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TOTAL P.07