



TELEPHONE SECURITY GROUP

APPROVED EQUIPMENT

**TELEPHONE SECURITY GUIDE
TSG STANDARD 6**

June 2006

PREFACE

This standard was prepared by the National Telecommunications Security Working Group (NTSWG). The members of the NTSWG are: Department of the Air Force, Department of the Army, Central Intelligence Agency, Center for Security Evaluation, Defense Intelligence Agency, Defense Threat Reduction Agency, Department of Energy, Department of Justice, Department of the Navy, Department of State, Department of Transportation, Department of the Treasury, Federal Bureau of Investigation, Federal Communications Commission, Joint Chiefs of Staff, National Aeronautics and Space Administration, National Reconnaissance Office, National Security Agency, Office of the Secretary of Defense, United States Marine Corps, United States Secret Service, and White House Communications Agency. Members are also provided by industry on a non-voting but participatory representation.

The NTSWG is the primary technical and policy resource of the Federal Government for all aspects of the technical security program involving telephone systems. The Telephone Security Guides (TSG) Standards contain guidance for providing on-hook security to telephone systems in areas where sensitive government information is discussed. Implementation of TSG standards neither prevents the application of more stringent requirements nor satisfies the requirements of other security programs such as TEMPEST, COMSEC, or OPSEC.

TSG Standard 1 is an introduction to telephone security that provides general information about the TSG standards.

This edition has been revised to make finding items easier. It is divided into 2 major sections, items currently being manufactured and items no longer being made. All approved items will remain in this Standard since old hardware is still in use and the Approved status of an item can be verified by referring to this Standard.

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TELEPHONE SECURITY GROUP-APPROVED EQUIPMENT

INTRODUCTION

PURPOSE

TSG Standard 6 is a compilation of TSG-approved telephone security equipment. These items have been specifically evaluated by the NTSWG for security effectiveness.

APPLICABILITY

This standard applies to all telephone installations that must be provided with on-hook audio security.

SUBMISSION PROCEDURE

TSG will consider for approval any telephone security equipment submitted by a member agency. Industry must have a Government sponsor in order to submit a device for testing.

APPROVED EQUIPMENT

Approved equipment that has passed necessary testing is listed on the following pages. Equipment that is refurbished or modified without full license and complete specification compliance of the original tested and approved equipment must be resubmitted and undergo new testing and approval of the NTSWG before being used under the premise of this guide. The NTSWG will issue updates to the listing in this guide when approved.

**TELEPHONES TYPE-ACCEPTED IN ACCORDANCE WITH
TSG STANDARD 3:**

**TSG TYPE-ACCEPTANCE PROGRAM FOR TELEPHONES USED
WITH THE CONVENTIONAL CENTRAL OFFICE INTERFACE**

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Type-accepted telephone

MANUFACTURER: Telnet Labs Inc.

MODEL: Safe Set

TRADE NAME: None

DESCRIPTION & USE: This is a single-line analog telephone for use with the conventional loop-start interface of the Public Switched Telephone Network.

ORDER CODE: 600-152-1

POINT OF CONTACT: TELNET Labs Inc., 406 Tree Road, South Setauket, NY 11720
tel: 631-471-3600 fax: 631-471-6595

TSG NUMBER: TSG-X1B10090134

PRICE: TELNET Labs: \$375.00 per set

COMMENTS: Has hold and hookswitch flash features

TELEPHONES TYPE-ACCEPTED IN ACCORDANCE WITH
TSG STANDARD 4:

TSG TYPE-ACCEPTANCE PROGRAM FOR
ELECTRONIC TELEPHONES

27 September 2000
November 2002

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Mitel SS4025 Secure digital telephone

MANUFACTURER: Mitel Networks

MODEL: proprietary digital set

TRADE NAME: SS4025 Secure

DESCRIPTION & USE: Office telephone designed for use with Mitel PBX products.

ORDER CODE: 50002590 - Dark Grey
50002589 - Light Grey

POINT OF CONTACT: Mitel Networks
205 Van Buren Street, Suite 400
Herndon, VA
20170-5336
Tel: 703-318-7020
john_capponi@mitel.com

TSG NUMBER: TSG-3A11020103

PRICE: \$430.00

AS OF: November 2002

COMMENTS: Meets TSG on-hook audio security performance specifications. Set relies on powered line noise circuit to mask microphonic audio. When phone loses power, it is isolated by an automatic relay. User must manually toggle relay to bring phone back on line once power is restored. Toggle switch is on face of telephone.

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Type-accepted telephone

MANUFACTURER: Northern Telecom Inc.

MODEL: 2016-S

TRADE NAME Telephone

DESCRIPTION & USE: Electronic telephone for use with Northern Telecom SL-1, SL-100, and DMS-100.

ORDER CODE: Not applicable.

POINT OF CONTACT: Supplier: Bell Atlantic Systems Inc., Washington, DC
(202) 484-9657

TSG NUMBER: TSG-210291030

PRICE: \$545.10

AS OF: 27 September 2000

COMMENTS: In areas of high threat, adjunct power should be provided from within your controlled area.

Use of optional display adapter models NT2K28AB03, NT2K28AB35, NT2K28AD35, and NT2K28AB93 is authorized.

December 2002

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Type-accepted ISDN Telephone

MANUFACTURER: Tone Commander Systems, Inc.

MODEL: 6220T-TSG

TRADE NAME: Not Applicable

DESCRIPTION & USE: ISDN telephone with an ST interface that is universally compatible with all Class 5 switch types, as well as with the Lucent Definity PBX.

It features 20 programmable line keys that may be used for call appearance, feature activation and/or speed dialing.

ORDER CODE: 1010284001

POINT OF CONTACT: Steve Walker
Tone Commander Systems
11609 49th Place West
Mukilteo, WA 98275
800-524-0024 (voice) 425-349-1010 (fax)

sales@tonecommander.com

TSG NUMBER: TSG-0212B0103

PRICE: \$427.80

AS OF: November 2002

COMMENTS: Meets TSG on-hook audio security performance specifications. The microphone for the speakerphone feature has been removed.

June 2005

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Type-accepted ISDN Telephone

MANUFACTURER: Tone Commander Systems, Inc.

MODEL: 6220T-TSG-DD

TRADE NAME: Not Applicable

DESCRIPTION & USE: ISDN telephone with an S/T interface that is universally compatible with all Class 5 Central Office switch types, as well as with PBX systems that support ISDN BRI stations, such as the Avaya Definity/Multivantage, Nortel SL-100, and Nortel Option Series.

It features 20 programmable line keys that may be used for call appearance, feature activation and/or speed dialing.

ORDER CODE: 1010287901

POINT OF CONTACT: Steve Walker
Tone Commander Systems
11609 49th Place West
Mukilteo, WA 98275
800-524-0024 (voice) 425-349-1010 (fax)

sales@tonecommander.com

TSG NUMBER: TSG-5S0605-2TC

PRICE: \$480.00

AS OF: June 2005

COMMENTS: Meets TSG on-hook audio security performance specifications. **Must be used with the TSG-DD1 ISDN Disconnect Device and local power supply (provided with the phone).** Power to the phone is supplied through the TSG-DD1. The microphone for the speakerphone feature has been removed.

NOTE: The 6220T-TSG-DD is approved for use with the Tone Commander 6030X 30-Button Expansion Module and the Tone Commander 6002TA Analog Port Adapter.

June 2005

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Type-accepted ISDN Telephone

MANUFACTURER: Tone Commander Systems, Inc.

MODEL: 6220U-TSG-DD

TRADE NAME: Not Applicable

DESCRIPTION & USE: ISDN telephone with a U interface that is universally compatible with all Class 5 Central Office switch types, as well as with PBX systems that support ISDN BRI stations, such as the Avaya Definity/Multivantage, Nortel SL-100, and Nortel Option Series.

It features 20 programmable line keys that may be used for call appearance, feature activation and/or speed dialing.

ORDER CODE: 1010287801

POINT OF CONTACT: Steve Walker
Tone Commander Systems
11609 49th Place West
Mukilteo, WA 98275
800-524-0024 (voice) 425-349-1010 (fax)

sales@tonecommander.com

TSG NUMBER: TSG-5S0605-1TC

PRICE: \$570.00

AS OF: June 2005

COMMENTS: Meets TSG on-hook audio security performance specifications. **Must be used with the TSG-DD1 ISDN Disconnect Device and local power supply (provided with the phone).** Power to the phone is supplied through the TSG-DD1. The microphone for the speakerphone feature has been removed.

NOTE: The 6220U-TSG-DD is approved for use with the Tone Commander 6030X 30-Button Expansion Module and the Tone Commander 6002TA Analog Port Adapter.

**TELEPHONES AND EQUIPMENT APPROVED IN
ACCORDANCE WITH TSG STANDARD 5:**

**ON-HOOK TELEPHONE AUDIO
PERFORMANCE SPECIFICATIONS**

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Secure Telephone Equipment (STE) Type 1 ISDN terminal, Version 2.3 and later with International PSTN Adapter

MANUFACTURER: L3 Communications Systems East

MODEL: 2B+1D ISDN set

TRADE NAME: STE

DESCRIPTION & USE: Dual-purpose telephone capable of transmitting voice and data in both secure and non-secure (unencrypted) modes using both ISDN and standard analog technologies.

ORDER CODE: NSN: 5810-01-459-6441

POINT OF CONTACT: L-3 Communications Systems East
1 Federal Street
Camden, NJ 08103
Tel: 856-338-4942
Fax: 856-338-2741

NSA STE Office
<http://wired.securephone.net>

TSG NUMBER: TSG-5S0304

PRICE: \$3250.00

AS OF: November 2004

COMMENTS: Meets TSG on-hook audio security performance specifications. This approval applies to version 2.3 and later **with** the International PSTN Adapter only. Prior versions can be upgraded to Ver 2.3 and later and the International PSTN Adapter board installed.

To determine if a STE contains TSG compliant software and hardware, do the following:

1. With the unit powered on, push the MENU key.
2. Select TERMINAL MANAGEMENT.
3. Select NETWORK SETTINGS.
4. The display "Active Network Port: PSTN (United States - Defaulted)" indicates the presence of the International PSTN Adapter and Ver 2.3 software.
5. Select ADVANCE PSTN SETTINGS FOR INSTALLATION PERSONNEL to select the correct country.

January 2006

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: OMNI Type 1 Analog/Digital terminal

MANUFACTURER: L3 Communications Systems East

MODEL: Analog/Digital line encryption set

TRADE NAME: OMNI Secure Terminal

DESCRIPTION & USE: Terminal, for use with an analog telephone, to provide secure encrypted communication with a SCIP device (STE, Sectera GSM, etc) Perform secure communications over dedicated digital networks in Link Encryptor mode.

ORDER CODE: NSN:

POINT OF CONTACT: L-3 Communications Systems East
1 Federal Street
Camden, NJ 08103
Tel: 856-338-4942
Fax: 856-338-2741

NSA STE Office
<http://wired.securephone.net>

TSG NUMBER: TSG-5S0106

PRICE: \$1,485.00

AS OF: January 2006

COMMENTS: Meets TSG on-hook audio security performance specifications when used in the following configuration:
with a TSG Approved analog telephone, and with the AC power supply connected and plugged into a grounded outlet (as required in the operator's manual).

Note: TSG Approved OMNI's will have a TSG label on the bottom. Those without the label can be returned to L-3 for upgrade.

JUNE 2006

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

D R A F T

DEVICE TYPE: Sectera Type 1 Analog/Digital terminal, Version

MANUFACTURER: General Dynamics

MODEL: Analog/Digital line encryption set

TRADE NAME: Sectera Wireline Terminal

DESCRIPTION & USE: Terminal, for use with an analog telephone, to provide secure encrypted communication with a SCIP device (STE, OMNI GSM, etc) or with a STU. Perform secure communications over dedicated digital networks in Link Encryptor mode.

ORDER CODE: NSN: N/A
Model numbers 1DGT1907XA and 1BDJ9907XA

POINT OF CONTACT: General Dynamics GDC4S
8220 East Roosevelt Street
Scottsdale, AZ 85257
Tel: 1-800-922-4357
410-850-4893
Fax: 410-487-0252

NSA STE Office
<http://wired.securephone.net>

TSG NUMBER: TSG-5S0606

PRICE: \$1,485.00

AS OF: May 2006

COMMENTS: Meets TSG on-hook audio security performance specifications when used in the following configuration:
with a TSG Approved analog telephone, and with the AC power supply connected and plugged into a grounded outlet (as required in the operator's manual).

OTHER TSG-APPROVED TELEPHONES

TSG-APPROVED DISCONNECT/ISOLATION DEVICES

November 2004

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Type-accepted Analog Disconnect

MANUFACTURER: Fuller Manufacturing

MODEL: Analog Fire Wall

TRADE NAME: Not Applicable

DESCRIPTION & USE: Analog line disconnect device that is installed in-line between a telephone or telephonic device and the Central Office. The Analog Fire Wall provides positive disconnect on the line, isolating possible on-hook audio coming from the telephone. A power failure results in a disconnect, providing isolation with no telephone service. The unit runs on 24 VDC from a local power supply.

ORDER CODE: FWA101H

POINT OF CONTACT:
Calvin P. Gross
Marketing and Sales
Gross Enterprises, Inc.
111 Ralph Avenue
South Plainfield, NJ 07080
908-769-5187 Phone
908-769-6927 Fax
GEI@comcast.net

TSG NUMBER: TSG-5S0204

PRICE: \$675.00 (GSA)
\$950.00 (commercial)

AS OF: November 2004

COMMENTS:

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Key system telephone line disconnect

MANUFACTURER: SanBar Telecom

MODEL: 4001A

TRADE NAME: SanBar disconnect line card

DESCRIPTION & USE: Automatically disconnects the speech path of a multiline instrument from the outgoing telephone lines.

ORDER CODE: Not applicable

POINT OF CONTACT: Jeff Lobell (818)706-3076, FAX (818)706-2329
Sanbar Telecom, LLC
2899 Agoura Rd, Ste 726
Westlake, CA 91361

TSG NUMBER: None

PRICE: Not available

AS OF: Sep 1996

COMMENTS: Replaces the standard telephone line card in 1A2-type electromechanical key systems.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Line disconnect

MANUFACTURER: SanBar Telecom

MODEL: 4001B, also known as 4001-201

TRADE NAME: None

DESCRIPTION & USE: This line card replaces the standard telephone line card in 1A2-type Key Service Units. It automatically disconnects the speech path of a multiline telephone from the outgoing telephone line.

ORDER CODE: Not applicable

POINT OF CONTACT: Jeff Lobell (818)706-3076, FAX (818)706-2329
Sanbar Telecom, LLC
2899 Agoura Rd, Ste 726
Westlake, CA 91361

TSG NUMBER: Not applicable

PRICE: \$139.00

AS OF: Sep 1996

COMMENTS:

December 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Isolator

MANUFACTURER: Fiberplex, Inc.

MODEL: FOI-2971 & FOI-2972T

TRADE NAME: None

DESCRIPTION & USE: The FOI-2971 and FOI-2972T are automatic fiber-optic isolators compatible with 2-wire telephones, STU-III's, data modems, and facsimile equipment. Both FOI units are linked together with up to two kilometers of fiber-optic cable. The FOI-2971 is connected to the outside exchange side while the FOI-2972T is located on the inside subscriber side.

ORDER CODE: FOI-2971 & FOI-2972T

POINT OF CONTACT: Fiberplex Inc,
9005-8 Junction Drive,
Annapolis Junction, Maryland 20701
(301) 604-0100

TSG NUMBER: Not Applicable

PRICE: FOI-2971 (outside): \$415
FOI-2972T (inside): \$615
All 4 connectors: \$ 60
Fiber-optic cable: \$ 1.25/foot

AS OF: March 1991

COMMENTS:

May 1992

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Line disconnect

MANUFACTURER: Northern Telecom Inc.

MODEL: UKS-IOS

TRADE NAME: None

DESCRIPTION & USE: This line card replaces the standard telephone line card in 1A2-type Key Service Units. It automatically disconnects the speech path of a multiline telephone from the outgoing telephone line.

ORDER CODE: Stock No. X9955343, NSN 5998 01180 1275

POINT OF CONTACT: Northern Telecom Inc.
105 Laurentien Blvd.
St. Laurent, Quebec, H4N2M3, Canada
Attn: John Gruszynski
(800) 361-5999 Ext 8557

TSG NUMBER: Not applicable

PRICE: About US \$100 depending on quantity

AS OF: May 1992

COMMENTS:

October 1992

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: CTS with Automatic Optical Isolator

MANUFACTURER: AT&T & Mid-Atlantic Electronic Technologies

MODEL: None

TRADE NAME: Merlin Legend Secure Communications System

DESCRIPTION & USE: The Computerized Telephone Switch (CTS) includes an automatic Optical Isolation System (OIS). It provides out-of-building service, intercom, ring-down, and paging. It is compatible with trunks that are 2-wire loop and 4-wire E&M, and 2-wire drop lines. In order to qualify for TSG approval, the CTS must be installed, controlled, and maintained according to TSG Standard 2. The control of the CTS by cleared US personnel protects the security features of the OIS.

ORDER CODE:

5-card cabinet with power supply:	6139-SFS
Fiber interface and ring generator:	61393
Eight port, 2-wire loop/drop card:	61394
Eight port, 2-or-4-wire card:	61395

POINT OF CONTACT: SALES: AT&T Greg Gilbert, (301) 608-4257
Ed Rainsberger, (301) 608-4235

TSG NUMBER: Not applicable

PRICE: Depends on configuration

AS OF: Not applicable

COMMENTS: The OIS is a newer version of the Mid-Atlantic OPSYS optical isolation system.

March 1995

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Disconnect

MANUFACTURER: Fiberplex

MODEL: TDU-3000, TDU-3000R

TRADE NAME: None

DESCRIPTION & USE: The TDU-3000 is small in size and is designed to mount on a wall or floor. It accepts one analog telephone line in and provides two lines out. The power supply is a separate, replaceable unit that mounts directly onto the disconnect. It is 50/60 Hz and is switchable between 115 and 230 VAC. A power failure results in the disconnect providing isolation with no telephone service. The TDU-3000R is for TEMPEST applications.

ORDER CODE: Not applicable

POINT OF CONTACT: Fiberplex Inc.
9005-8 Junction Drive
Annapolis Junction, MD 20701
Tel: (301) 604-0100

TSG NUMBER: Not applicable

PRICE: TDU-3000: \$1,115
TDU-3000R: \$1,192

AS OF: March 1995

COMMENTS: This disconnect must be plugged into a power receptacle that is properly grounded

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Disconnect

MANUFACTURER: Fiberplex

MODEL: TDU-4000, TDU-4000R

TRADE NAME: None

DESCRIPTION & USE: The TDU-4000 is small in size and is designed to mount on a wall or floor. The 4000 and 4000R are a 56KB upgraded unit from the 3000 and 3000R. The power supply is a separate, replaceable unit that mounts directly onto the disconnect. It is 50/60 Hz and is switchable between 115 and 230 VAC. A power failure results in the disconnect providing isolation with no telephone service. The TDU-4000R is for TEMPEST applications. These FiberPlex units are available under GSA contract GS-35F-0001J, valid: 4/1/99 thru 3/31/04.

ORDER CODE: Not applicable

POINT OF CONTACT: Fiberplex Inc.
10840-412 Guilford Rd.
Annapolis Junction, MD 20701-1111
Tel: (301) 604-0100 Fax: (301) 604-0773
E-mail: sales@fiberplex.com
http://www.fiberplex.com/fplx_welcome

TSG NUMBER: Not applicable

PRICE: TDU-4000: \$939.00
TDU-4000R: \$1,081.00

AS OF: July 2001

COMMENTS: This disconnect must be plugged into a power receptacle that is properly grounded. The power supply is sold separately @ \$118.00 each.

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

May 1992

DEVICE TYPE: Line Disconnect

MANUFACTURER: Exbar Associates, Inc

MODEL: 4-007

TRADE NAME: None

DESCRIPTION & USE: This telephone security line card replaces the standard line card in 1A2-type Key Service Units (KSU's). It automatically disconnects the speech path of a telephone from the outgoing telephone line. This card is approved only when the PFC (power failure cut-through) feature is switched OFF.

ORDER CODE: None

POINT OF CONTACT: Roy Schuessler.
Exbar Associates, Inc
17401 Armstrong Ave.
Irving, CA 92714-5723
(714) 474-2234
FAX (714) 261-1169

TSG NUMBER: Not applicable

PRICE: \$170

AS OF: June 1995

COMMENTS:

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

June 1996

DEVICE TYPE: Disconnect

MANUFACTURER: Mid-Atlantic Electronic Technologies

MODEL: OPSYS-MCOV line card

TRADE NAME: None

DESCRIPTION & USE: The line card is an option of the OPSYS optical isolator system, also made by Mid-Atlantic. The cards are plugged in to OPSYS cages, one at each end of the fiber path. Each card supports two Mitel MCOV circuits between a Mitel PBX and a compatible Mitel voice instrument, thus providing an interface and disconnect for a full featured Mitel instrument.

ORDER CODE: OPSYS-MCOV

POINT OF CONTACT: Ross Bates
Mid-Atlantic Electronic Technologies
15800 Gaither Drive Suite 210
Gaithersburg, MD 20877
(301) 208-2677

TSG NUMBER: Not applicable

PRICE: Unknown

AS OF:

COMMENTS: None

RINGER PROTECTION

TSG-APPROVED HANDSETS

June 1996

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Push-to-talk handset

MANUFACTURER: lucent Technologies (Formerly AT&T)

MODEL: Secure Push-to-Talk K2S1

TRADE NAME: None

DESCRIPTION & USE: This handset is black in color and is shaped as a K type. It is designed to operate with the 8000 series AT&T voice terminals.

ORDER CODE: PEC 94979

POINT OF CONTACT: Jim Shattles
AT&T Denver, CO
(303) 538-1322

TSG NUMBER: Not Applicable

PRICE: \$79.00

AS OF: July 1996

COMMENTS: None

TSG-APPROVED TELEPHONE FILTERS

MISCELLANEOUS TSG-APPROVED EQUIPMENT

August 1991

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Isolator

MANUFACTURER: Fiberplex, Inc

MODEL: FOI-2973 & FOI-2974T

TRADE NAME: None

DESCRIPTION & USE: The FOI-2973 and FOI-2974T are automatic fiber-optic isolators compatible with Northern Telecom Meridian series 5000 telephones only. The FOI-2973 unit connects to the outside Northern Telecom exchange, while the FOI-2974T unit connects to the inside subscriber Meridian 5000 telephone.

ORDER CODE: Not applicable.

POINT OF CONTACT: Fiberplex Inc,
9005-8 Junction Drive,
Annapolis Junction, Maryland 20701
(301) 604-0100

TSG NUMBER: Not Applicable

PRICE:

FOI-2973 (outside)	\$390
FOI-2974T (Inside)	\$625
All 4 connectors:	\$ 60
Fiber-optic cable:	\$ 1.25 per foot

AS OF: October 1991

COMMENTS: Does not provide on-hook audio security and does not provide a disconnect.

May 1993

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Fiber Optic Transmission Link Interface

MANUFACTURER: Mid-Atlantic Electronic Technologies, Inc.

MODEL: OPSYS ISDN BRI Card

TRADE NAME: Optical Signal Isolation System

DESCRIPTION & USE: **NOT APPROVED FOR ON-HOOK AUDIO ISOLATION**

The ISDN Basic Rate Interface card is housed in the model OPSYS and support a short range fiber-optic transmission link and ISDN telephone.

ORDER CODE: Not applicable

POINT OF CONTACT: Boss Rates
9420 Key West Ave., Suite 104
Rockville, MD 20850
(301) 762-0500

TSG NUMBER: Not applicable

PRICE: Not available

AS OF: Not applicable

COMMENTS: The ISDN BRI card does not meet TSG requirements for on-hook telephone audio isolation. However, it does not introduce any additional audio surveillance hazard into the area in which it is installed. It is TSG-approved for TEMPEST isolation applications.

The model OPSYS will also support an interface card that provides on-hook audio isolation for analog telephones.

Feb 1999

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Fiber Optic Transmission Link Interface

MANUFACTURER: GTE/MEBCO

MODEL: None

TRADE NAME: None

DESCRIPTION & USE: The system, as described below, was assembled from commercial off the shelf (COTS) components by GTE Government Systems, and as such GTE will be listed as the vendor of reference even though other vendors manufactured the individual components. The components are:

<u>Manufacturer</u>	<u>Model</u>	<u>Function</u>
Telco	3100	telephone system shelf
Telco	2460-02	analog line card
Telco	2459-02	digital line card
Telco	2476-10-2	data channel card
Canoga Perkins	2262	T1 fiber modem

ORDER CODE: Not applicable

POINT OF CONTACT: GTE Government Systems, Information Systems Division,
15000 Conference Center Drive, Chantilly, VA 21051.

Mike Enea 703 818-4284

TSG NUMBER: Not applicable

PRICE: Available upon request

AS OF: Feb 1999

COMMENTS: The telephone instruments within the shielded enclosure must still be either TSG #6 approved devices or attached to a CTS conforming to TSG #2.

TELEPHONES TYPE-ACCEPTED IN ACCORDANCE WITH
TSG STANDARD 3:

TSG TYPE-ACCEPTANCE PROGRAM FOR TELEPHONES USED
WITH THE CONVENTIONAL CENTRAL OFFICE INTERFACE

June 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Type-accepted telephone

MANUFACTURER: Eagle Telephonics, Long Island, NY

MODEL: Safe Set

TRADE NAME: None

DESCRIPTION & USE: This is a single-line analog telephone for use with the conventional loop-start interface of the Public Switched Telephone Network.

ORDER CODE: 600-152-1

POINT OF CONTACT: Eagle Telephonics: (516) 244-9600
Supplier: Bell Atlantic Systems Inc, Washington, DC
(202) 484-9657.

TSG NUMBER: TSG-X1B10090134

PRICE: Eagle Telephonics: \$250.00 each

2,000+ units	5% discount
5,000+ units	20% discount
10,000+ units	25% discount

Bell Atlantic Systems, Inc: \$187.50 each
Wall mount kit: \$18.20

AS OF: April 1991

COMMENTS: Has hold and hookswitch flash features

October 1991

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Type-accepted telephone

MANUFACTURER: AT&T

MODEL: Modified Type 710

TRADE NAME: None

DESCRIPTION & USE: This is a single-line analog telephone for use with the conventional loop-start interface of the Public Switched Telephone Network.

ORDER CODE: Not available

POINT OF CONTACT: Paul McQuillan
AT&T Federal Systems,
1600 Pennsylvania Ave. NW,
Washington, DC 20500,
(202) 456-6400
FAX (202) 842-0316

TSG NUMBER: TSG-X310191268

PRICE: Not applicable

AS OF: Not applicable

COMMENTS:

1. Tone or pulse dialing.
2. Speed dials up to 16 sets of numbers.
3. Provides line hold. This feature is activated by placing the handset in the cradle while depressing the hold button.
4. This instrument is manufactured in China for AT&T and modified in the United States for TSG.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	TSG-approved telephone
MANUFACTURER:	AT&T
MODEL:	500ABM Manufacturer Discontinued
TRADE NAME:	Telephone
DESCRIPTION & USE:	Rotary dial, single-line telephone.
ORDER CODE:	PEC 9400-012
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Ringer protection is required. Formerly manufactured by WECO.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	TSG-approved telephone
MANUFACTURER:	AT&T
MODEL:	502BMW Manufacturer Discontinued
TRADE NAME:	Telephone
DESCRIPTION & USE:	Rotary dial, single-line telephone.
ORDER CODE:	PEC 9400-042
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Ringer protection is required. Formerly manufactured by WEICO.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	TSG-approved telephone
MANUFACTURER:	AT&T
MODEL:	2501AB/BMW
TRADE NAME:	Telephone
DESCRIPTION & USE:	Touchtone, single-line telephone.
ORDER CODE:	Not available
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Ringer protection is required. Formerly manufactured by WECO.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	TSG-approved telephone
MANUFACTURER:	AT&T
MODEL:	568HSM Manufacturer Discontinued
TRADE NAME:	Telephone
DESCRIPTION & USE:	Rotary dial, 6-key telephone.
ORDER CODE:	PEC 9400-086
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Ringer protection is required. Formerly manufactured by WECO.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	TSG-approved telephone
MANUFACTURER:	AT&T
MODEL:	2504BMW
TRADE NAME:	Telephone
DESCRIPTION & USE:	Touchtone, single-line telephone.
ORDER CODE:	PEC 9400-008
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Ringer protection is required. Formerly manufactured by WECO.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	TSG-approved telephone
MANUFACTURER:	AT&T
MODEL:	2568HUM
TRADE NAME:	Telephone
DESCRIPTION & USE:	Touchtone, 6-key telephone.
ORDER CODE:	PEC 9400-045
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Ringer protection is required. Formerly manufactured by WECO.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	TSG-approved telephone
MANUFACTURER:	AT&T
MODEL:	3568HHM
TRADE NAME:	Telephone
DESCRIPTION & USE:	16-button touchtone dial, 2-wire- or 4-wire-(AUTOVON)-compatible, 6-key telephone.
ORDER CODE:	PEC 9400-004
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Ringer protection is required. Formerly manufactured by WEICO. Replaced model 3568HTM.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	TSG-approved telephone
MANUFACTURER:	AT&T
MODEL:	3504B/C
TRADE NAME:	Telephone
DESCRIPTION & USE:	16-button touchtone dial, 2-wire- or 4-wire-(AUTOVON)-compatible, single-line telephone.
ORDER CODE:	PEC 9400-003
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Ringer protection is required. Formerly manufactured by WECO.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	TSG-approved telephone
MANUFACTURER:	AT&T
MODEL:	2714A Manufacturer Discontinued
TRADE NAME:	Telephone
DESCRIPTION & USE:	PRINCESS
ORDER CODE:	Not available
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Ringer protection is required. Formerly manufactured by WECO.

TELEPHONES TYPE-ACCEPTED IN ACCORDANCE WITH
TSG STANDARD 4:

TSG TYPE-ACCEPTANCE PROGRAM FOR
ELECTRONIC TELEPHONES

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Type-accepted telephone

MANUFACTURER: AT&T

MODEL: Modified 7302H
Manufacturer Discontinued

TRADE NAME: MERLIN, voice terminal

DESCRIPTION & USE: Modified model 7302H, 5-button voice terminal for use
with all models of MERLIN control units and AT&T systems
25, 75, and 85.

ORDER CODE: PEC 9400-078

POINT OF CONTACT: David Jones (301) 982-2626

TSG NUMBER: TSG-3B10187128

PRICE: \$365.00

AS OF: February 1988

COMMENTS:

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Type-accepted telephone
MANUFACTURER:	AT&T
MODEL:	Modified 7303H
TRADE NAME:	MERLIN, voice terminal
DESCRIPTION & USE:	Modified model 7303H, 10-button voice terminal for use with all models of MERLIN control units and AT&T systems 25, 75, and 85.
ORDER CODE:	PEC 9400-079
POINT OF CONTACT:	David Jones (301) 982-2626
TSG NUMBER:	TSG-3B10187128
PRICE:	\$475.00
AS OF:	February 1988
COMMENTS:	Replaced by the 7303S. The PEC code will remain the same.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Type-accepted telephone

MANUFACTURER: AT&T

MODEL: Modified 7305H01
Manufacturer Discontinued

TRADE NAME: MERLIN, voice terminal

DESCRIPTION & USE: Modified model 7305H, 34-button voice terminal for use with all models of MERLIN control units and AT&T systems 25, 75, and 85.

ORDER CODE: PEC 9400-080

POINT OF CONTACT: David Jones (301) 982-2626

TSG NUMBER: TSG-3B10187128

PRICE: \$575.00

AS OF: January 1988

COMMENTS: Replaced by 7305H02.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Type-accepted telephone
MANUFACTURER:	AT&T
MODEL:	Modified 7305H02
TRADE NAME:	MERLIN, voice terminal
DESCRIPTION & USE:	Modified model 7305H, 34-button voice terminal for use with all models of MERLIN control units and AT&T systems 25, 75, and 85.
ORDER CODE:	PEC 9400-097
POINT OF CONTACT:	David Jones (301) 982-2626
TSG NUMBER:	TSG-3B10187128
PRICE:	\$550.00
AS OF:	February 1988
COMMENTS:	Replaces PEC 9400-080.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Type-accepted telephone

MANUFACTURER: AT&T

MODEL: Modified 7308H

TRADE NAME: MERLIN, voice terminal

DESCRIPTION & USE: Modified model 7308H, 34-button voice terminal for use with all models of MERLIN control units and AT&T systems 25, 75, and 85.

ORDER CODE: PEC 9400-098

POINT OF CONTACT: David Jones (301) 982-2626

TSG NUMBER: TSG-3B10187128

PRICE: \$910.00

AS OF: February 1988

COMMENTS: Deluxe attendant console with direct station select capability.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Type-accepted telephone
MANUFACTURER:	AT&T
MODEL:	Modified 7405D
TRADE NAME:	Digital voice terminal
DESCRIPTION & USE:	34-button telephone for use with AT&T systems 75 and 85.
ORDER CODE:	PEC 9400-150
POINT OF CONTACT:	David Jones (301) 982-2626
TSG NUMBER:	TSG-1B10188035
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Type-accepted telephone
MANUFACTURER:	AT&T
MODEL:	Modified 7406D
TRADE NAME:	Digital voice terminal
DESCRIPTION & USE:	For use with AT&T systems 75 and 85.
ORDER CODE:	See comments
POINT OF CONTACT:	David Jones (301) 982-2626
TSG NUMBER:	TSG-1B10188035
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	PEC 9400-148: with liquid crystal display. PEC 9400-149: without liquid crystal display.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Type-accepted telephone
MANUFACTURER:	AT&T
MODEL:	7505
TRADE NAME:	Digital voice terminal
DESCRIPTION & USE:	For use with integrated services digital network (ISDN) central office service.
ORDER CODE:	Not applicable
POINT OF CONTACT:	David Jones (301) 982-2626
TSG NUMBER:	TSG-210189012
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	

June 1991

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Type-accepted telephone
MANUFACTURER:	AT&T
MODEL:	Modified 7506
TRADE NAME:	Digital voice terminal
DESCRIPTION & USE:	For use with integrated services digital network (ISDN) central office service.
ORDER CODE:	Not applicable
POINT OF CONTACT:	David Jones (301) 982-2626
TSG NUMBER:	TSG-210189012
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	

June 1991

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Type-accepted telephone
MANUFACTURER:	AT&T
MODEL:	Modified SPIRIT telephone Discontinued by manufacturer
TRADE NAME:	Digital voice terminal
DESCRIPTION & USE:	For use with AT&T SPIRIT system.
ORDER CODE:	Not applicable
POINT OF CONTACT:	David Jones (301) 982-2626
TSG NUMBER:	TSG-210189011
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	

June 1991

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Type-accepted telephone
MANUFACTURER:	AT&T
MODEL:	7507
TRADE NAME:	Digital voice terminal
DESCRIPTION & USE:	For use with ISDN protocol.
ORDER CODE:	Not applicable
POINT OF CONTACT:	David Jones (301) 982-2626
TSG NUMBER:	TSG-210191177
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	The mute button and microphone for the speakerphone feature were disabled.

October 1993

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Type-accepted telephone

MANUFACTURER: AT&T

MODEL: Modified 8510

TRADE NAME: Not Applicable

DESCRIPTION & USE: The 8510 is a TSG Class 2 ISDN terminal for the BRI T-Interface environment. It features 10 call appearances, a display, message waiting, mute, hold, call log, alarm clocks, and a host of other features controlled by 40 buttons and 25 LEDs.
This terminal is a voice-only terminal with the capability of data and/or call appearance expansion via a modular connector. Using the same modular connector, a removable ROM board is used rather than the traditional socket to provide easier firmware upgradability. The phone is compatible with a standard RS-232 data connection.

ORDER CODE: Not applicable

POINT OF CONTACT: David Jones (301) 982-2626

TSG NUMBER: TSG-210193300

PRICE: Not available

AS OF: Not applicable

COMMENTS: The microphone for the speakerphone feature were disabled.

Dialing out or answering calls cannot be accomplished while the handset is in the cradle.

A standard model K2S1 handset is used (300 Hz-3.4 kHz) but can be upgraded to a wideband (100 Hz-3.4 kHz) handset for enhanced acoustics.

April 1994

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Type-accepted telephone

MANUFACTURER: AT&T

MODEL: Modified 8520

TRADE NAME: Not Applicable

DESCRIPTION & USE: The 8520 is a TSG Class 2, ISDN terminal for the BRI T-Interface environment. It features a display, 20 call appearances, message waiting, mute, hold, drop, transfer, call log, conferencing, and a host of other features.

The 8520 is a voice terminal with data capability via an RS-232 connector.

ORDER CODE: PEC 9817-002

POINT OF CONTACT: Jim Shattles, AT&T Denver, CO
303-538-1837

TSG NUMBER: TSG-210194119

PRICE: Not available

AS OF: Not applicable

COMMENTS: The speakerphone feature is not TSG approved. The speakerphone can operate only when the handset is off the cradle.

Dialing out or answering calls cannot be accomplished while the handset is in the cradle.

A standard model K2S1 is used (300 Hz-3.4 Khz) but can be upgraded to a wide-band (100 Hz-3.4 Khz) handset for enhanced acoustics.

March 1991

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Type-accepted telephone

MANUFACTURER: Eagle Telephonics

MODEL: Modified 600100

TRADE NAME: EAGLE electronic telephone instrument

DESCRIPTION & USE: 10-button telephone for use with EAGLET and EAGLE ONE systems.

ORDER CODE: 600130

POINT OF CONTACT: Alex Wenger (516) 273-6700

TSG NUMBER: TSG-2B10086294

PRICE: \$440.00

AS OF: February 1988

COMMENTS:

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Type-accepted telephone

MANUFACTURER: Eagle Telephonics

MODEL: Modified 600103

TRADE NAME: EAGLE electronic telephone instrument

DESCRIPTION & USE: 20-button telephone for use with EAGLET and EAGLE ONE systems.

ORDER CODE: 600133

POINT OF CONTACT: Alex Wenger (516) 273-6700

TSG NUMBER: TSG-2B10086294

PRICE: \$480.00

AS OF: February 1988

COMMENTS:

February 1991

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Type-accepted telephone interface

MANUFACTURER: Eagle Telephonics, Long Island, NY

MODEL: STU-III Interface

TRADE NAME: None

DESCRIPTION & USE: The STU-III Interface allows a single-line STU-III terminal to perform all the sophisticated functions of an EAGLE ONE 20-button key telephone while only requiring 3-pair for connection to the KSU (Key Service Unit).

ORDER CODE: 600-162

POINT OF CONTACT: Rick Riccoboni (516) 273-6700

TSG NUMBER: TSG-210091058

PRICE: \$316.25

AS OF: September 1991

COMMENTS:

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Type-accepted telephone
MANUFACTURER:	Mitel, Inc.
MODEL:	SUPERSET 4-TS
TRADE NAME:	SUPERSET 4-TS
DESCRIPTION & USE:	For use with Mitel PBX systems.
ORDER CODE:	Not applicable
POINT OF CONTACT:	Scott Sullivan (703) 591-0880
TSG NUMBER:	TSG-2B10388035
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	

November 1995

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: TSG-Approved Telephone

MANUFACTURER: Mitel Corporation

MODEL: Superset 401+TS

TRADE NAME: Superset 401+TS (Digital business telephone)

DESCRIPTION & USE: The Superset 401+ is a single line deskset compatible with all Mitel PBXs, to include the 200 systems, and 2000 family. (some systems may require a software upgrade)

ORDER CODE: 9113-000-900-NA

POINT OF CONTACT: Mr. Gary Swapp (703)736-3201
Mitel Corporation
205 Van Buren Street STE 400
Herdon, VA 22070

TSG NUMBER: None

PRICE: \$134.00

AS OF: Nov 95

COMMENTS:

November 1995

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: TSG-Approved Telephone

MANUFACTURER: Mitel Corporation

MODEL: Superset 410TS

TRADE NAME: Superset 410TS (Digital business telephone)

DESCRIPTION & USE: The Superset 410 is a multi-line deskset compatible with all Mitel PBXs, to include the SX 50, 200 systems, and 2000 family. (some systems may require a software upgrade)

ORDER CODE: 9114-000-900-NA

POINT OF CONTACT: Mr. Gary Swapp (703)736-3201
Mitel Corporation
205 Van Buren Street STE 400
Herdon, VA 22070

TSG NUMBER: None

PRICE: \$260.00

AS OF: Nov 95

COMMENTS:

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

November 1995

DEVICE TYPE: TSG-Approved Telephone

MANUFACTURER: Mitel Corporation

MODEL: Superset 420TS

TRADE NAME: Superset 420TS (Digital business telephone)

DESCRIPTION & USE: The Superset 420 is a multi-line deskset compatible with all Mitel PBXs, to include the SX 50, 200 systems, and 2000 family. (some systems may require a software upgrade)

ORDER CODE: 9115-000-900-NA

POINT OF CONTACT: Mr. Gary Swapp (703)736-3201
Mitel Corporation
205 Van Buren Street STE 400
Herdon, VA 22070

TSG NUMBER: None

PRICE: \$432.00

AS OF: Nov 95

COMMENTS:

November 1995

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: TSG-Approved Telephone

MANUFACTURER: Mitel Corporation

MODEL: Superset 430TS

TRADE NAME: Superset 430TS (Executive digital deskset telephone)

DESCRIPTION & USE: The Superset 430 is a multi-line deskset compatible with all Mitel PBXs, to include the 200 systems, and 2000 family. (some systems may require a software upgrade)

ORDER CODE: 9116-000-900-NA

POINT OF CONTACT: Mr. Gary Swapp (703)736-3201
Mitel Corporation
205 Van Buren Street STE 400
Herdon, VA 22070

TSG NUMBER: None

PRICE: \$650.00

AS OF: Nov 95

COMMENTS:

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Type-accepted telephone
MANUFACTURER:	Northern Telecom
MODEL:	Modified 5009S
TRADE NAME:	P phone
DESCRIPTION & USE:	Electronic telephone for use with Northern Telecom SL-100 and DMS-100 switches.
ORDER CODE:	Not applicable
POINT OF CONTACT:	Edward F. Carroll (703) 847-7520, (800) 336-3774
TSG NUMBER:	TSG-2A10287302
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	The handset used with the type-accepted version is equipped with specially configured mercury switches. The mercury switches are essential for the on-hook security of the telephone and also provide unattended off-hook security. This handset is considered to be equivalent to a push-to-operate handset. The on-hook security is derived from the position sensitivity of the mercury switches, and the handset must be horizontally positioned when on-hook. The telephone cannot be wall-mounted.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Type-accepted telephone
MANUFACTURER:	Northern Telecom
MODEL:	Modified MERIDIAN 2018
TRADE NAME:	Modified MERIDIAN
DESCRIPTION & USE:	Electronic telephone for use with Northern Telecom SL-1, SL-100, and DMS-100 switches.
ORDER CODE:	Not applicable
POINT OF CONTACT:	Edward F. Carroll (703) 847-7520, (800) 336-3774
TSG NUMBER:	TSG-2A10288014
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	The handset used with the type-accepted version is equipped with specially configured mercury switches. The mercury switches are essential for the on-hook security of the telephone and also provide unattended off-hook security. This handset is considered to be equivalent to a push-to-operate handset. The on-hook security is derived from the position sensitivity of the mercury switches, and the handset must be horizontally positioned when on-hook. The telephone cannot be wall-mounted.

January 1996

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Type-accepted telephone

MANUFACTURER: Northern Telecom Inc.

MODEL: M5009S

TRADE NAME: None

DESCRIPTION & USE: Electronic telephone for use with Northern Telecom Sl-1, Sl-100, and DMS-100. Has newly designed handset with extended service mercury switches.

ORDER CODE: Not applicable

POINT OF CONTACT: Supplier: Bell Atlantic Sytems Inc., Washington, DC
(202) 484-9657

TSG NUMBER: TSG-2A10296031 (Previously approved as
TSG-2A10293237)

PRICE: Not available

AS OF: Not applicable

COMMENTS: The handset used with the type-accepted version is equipped with specially configured mercury switches. These switches are essential for the on-hook security of the telephone and also provide unattended off-hook security. This handset is considered equivalent to a push-to-operate handset. The on-hook security is derived from the position sensitivity of the switches, and the handset must be horizontally positioned when on-hook. The telephone cannot be wall mounted. Product was submitted for a design change and issued a new number by the TSG.

**TELEPHONES AND EQUIPMENT APPROVED IN
ACCORDANCE WITH TSG STANDARD 5:**

**ON-HOOK TELEPHONE AUDIO
PERFORMANCE SPECIFICATIONS**

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Secure telephone unit III (STU-III) Type 1 terminal
MANUFACTURER:	AT&T
MODEL:	Single-line
TRADE NAME:	Single-line STU-III
DESCRIPTION & USE:	Dual-purpose telephone capable of transmitting voice and data in both secure and nonsecure (unencrypted) modes.
ORDER CODE:	Not applicable
POINT OF CONTACT:	None
TSG NUMBER:	None
PRICE:	\$2900.00
AS OF:	September 1988
COMMENTS:	Meets TSG on-hook audio security performance specifications.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Secure telephone unit III (STU-III) Type I terminal

MANUFACTURER: Motorola

MODEL: Single-line with Mod 2

TRADE NAME: Single-line STU-III

DESCRIPTION & USE: Dual-purpose telephone capable of transmitting voice and data in both secure and nonsecure (unencrypted) modes.

ORDER CODE: Not applicable

POINT OF CONTACT: None

TSG NUMBER: None

PRICE: \$2145.00

AS OF: September 1988

COMMENTS: Mod 2 models meet TSG on-hook audio security performance specifications.

Contact NSA for details of their replacement program for non-Mod 2 models.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Secure telephone unit III (STU-III) Type 1 terminal

MANUFACTURER: RCA

MODEL: Single-line with Mod 4

TRADE NAME: Single-line STU-III

DESCRIPTION & USE: Dual-purpose telephone capable of transmitting voice and data in both secure and nonsecure (unencrypted) modes.

ORDER CODE: Not applicable

POINT OF CONTACT: None

TSG NUMBER: None

PRICE: \$2200.00

AS OF: September 1988

COMMENTS: Must be equipped with Mod 4 to meet TSG on-hook audio security performance specifications. Unmodified single-line STU-III models require a disconnect device. **Must also be equipped with plastic shim to resolve "off-hook condition" as identified by TSG Suspension Notice, dated 28 June 1996.**

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Secure telephone unit III (STU-III) Type 1 terminal
MANUFACTURER:	Motorola
MODEL:	Multiline with Mod 4
TRADE NAME:	Multiline STU-III
DESCRIPTION & USE:	Dual-purpose telephone capable of transmitting voice and data in both secure and nonsecure (unencrypted) modes.
ORDER CODE:	Not applicable
POINT OF CONTACT:	None
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Must be equipped with Mod 4 to meet TSG on-hook audio security performance specifications. Unmodified multiline STU-III models require a disconnect device.

May 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Secure Telephone Unit (STU-III)

MANUFACTURER: Motorola

MODEL: SECTEL 1500 Single Line

TRADE NAME: None

DESCRIPTION & USE: A Type 1 terminal compatible with all STU-III terminals in either data or voice modes. This terminal is capable of transmitting voice or data in secure or nonsecure (unencrypted) modes.

ORDER CODE: GSN STUN20

POINT OF CONTACT: NSA: (800) 328-7883 or (301) 684-7071/7072
Motorola, Scottsdale, Arizona: (602) 441-8367

TSG NUMBER: None

PRICE: \$2,845.00

AS OF: September 1991

COMMENTS:

April 1991

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Secure Telephone Unit (STU-III)

MANUFACTURER: Motorola

MODEL: SECTEL 2500

TRADE NAME: None

DESCRIPTION & USE: A single-line, Type 2 terminal approved for sensitive but unclassified voice and data. The terminal is interoperable with all Type 1 STU-III products. This terminal incorporates on-hook security measures required under TSG Standard 5, and as such is approved as a stand-alone terminal without need for an external line disconnect or isolator.

ORDER CODE: 5DGT2506X

POINT OF CONTACT: Motorola, Scottsdale, Arizona:
(602) 441-8367

TSG NUMBER: Not applicable

PRICE: \$3,395.00

AS OF: June 1991

COMMENTS:

May 1991

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Secure Telephone Unit (STU-III)

MANUFACTURER: Motorola

MODEL: STU-III/A

TRADE NAME: None

DESCRIPTION & USE: A single-line telephone compatible with all STU-III and STU-II terminals. The STU-III/A is capable of transmitting voice and data in both secure and nonsecure (unencrypted) modes.

ORDER CODE: GSN STUB26

POINT OF CONTACT: NSA: (800) 328-7883 or (301) 684-7071/7072;
Motorola, Scottsdale, Arizona: (602) 441-8367

TSG NUMBER: Not applicable

PRICE: \$3,885.00

AS OF: September 1991

COMMENTS:

May 1991

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Secure Telephone Unit (STU-II)

MANUFACTURER: Motorola

MODEL: SECTEL STU-II/B

TRADE NAME: None

DESCRIPTION & USE: A single-line telephone compatible with all STU-II terminals. The STU-II/B is similar in appearance to the STU-III.

ORDER CODE: GSN STUN29

POINT OF CONTACT: NSA: (800) 328-7883 or (301) 684-7071/7072
Motorola, Scottsdale, Arizona: (602) 441-8367

TSG NUMBER: Not applicable

PRICE: \$4,225.00

AS OF: September 1991

COMMENTS:

August 1991

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Secure Telephone Unit (STU-III)

MANUFACTURER: General Electric

MODEL: GE 9600

TRADE NAME: None

DESCRIPTION & USE: A Type 1 terminal compatible with all STU-III terminals in either data or voice modes. This terminal is capable of transmitting voice or data in secure or nonsecure (unencrypted) modes. The weight is 23 lbs.

ORDER CODE: GSN STUN30

POINT OF CONTACT: NSA: (800) 328-7883 or (301) 684-7071/7072

TSG NUMBER: None

PRICE: Single-line: \$2,299.00
With multi-line adapter: \$2,369.00

AS OF:

COMMENTS:

August 1992

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Secure Telephone Unit (STU-III)

MANUFACTURER: AT&T

MODEL: 1100

TRADE NAME: None

DESCRIPTION & USE: A Type 1, single-line terminal compatible with all STU-III terminals in either data or voice modes.

ORDER CODE: 5810-01-360-3895

POINT OF CONTACT: NSA: (800) 328-7883 or (301) 684-7071/7072

TSG NUMBER: None

PRICE: \$1,660.00

AS OF: August 1992

COMMENTS:

August 1992

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Secure Telephone Unit (STU-III)

MANUFACTURER: AT&T

MODEL: 2100

TRADE NAME: None

DESCRIPTION & USE: A Type 2, single-line terminal compatible with all STU-III terminals in either data or voice modes.

ORDER CODE: 5810-01-362-0608

POINT OF CONTACT: NSA: (800) 328-7883 or (301) 684-7071/7072

TSG NUMBER: None

PRICE: \$1,745.00

AS OF: August 1992

COMMENTS:

September 1992

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Secure Telephone Unit (STU-III)

MANUFACTURER: AT&T

MODEL: 1150

TRADE NAME: None

DESCRIPTION & USE: A Type 1, multi-line terminal compatible with all STU-III terminals in either data or voice modes.

ORDER CODE: 5810-01-360-3895

POINT OF CONTACT: NSA: (800) 328-7883 or (301) 684-7071/7072

TSG NUMBER: None

PRICE: \$1,785.00

AS OF: November 1992

COMMENTS:

September 1992

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Secure Telephone Unit (STU-III)

MANUFACTURER: AT&T

MODEL: 2150

TRADE NAME: None

DESCRIPTION & USE: A Type 2, multi-line terminal compatible with all STU-III terminals in either data or voice modes.

ORDER CODE: 5810-01-362-0608

POINT OF CONTACT: NSA: (800) 328-7883 or (301) 684-7071/7072

TSG NUMBER: None

PRICE: \$1,845.00

AS OF: November 1992

COMMENTS:

April 1993

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Cellular STU-III

MANUFACTURER: Motorola

MODEL:

TRADE NAME: Enhanced Cellular STU-III

DESCRIPTION & USE: A cellular STU-III that can interface with the PSTN either through free space or wirelines. It has a standard RJ-11 modular plug. It transmits a maximum of 3 watts and weighs 41 lbs. It supports voice in the non-secure and secure modes, and data in the secure mode using an RS-232C connector.

ORDER CODE: 5810-01-256-1097

POINT OF CONTACT: NSA: (800) 328-7883 or (301) 684-7071/7072
Motorola, Scottsdale, Arizona:
(602) 441-8367

TSG NUMBER: Not applicable

PRICE: About \$4,000

AS OF: July 93

COMMENTS:

May 1993

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Secure Telephone Unit (STU-III)

MANUFACTURER: AT&T

MODEL: 1100M

TRADE NAME: Merlin STU-III

DESCRIPTION & USE: A Type 1 terminal compatible with the Merlin PABX switches. It provides all features commonly available on Merlin supported telephones. Like all STU-IIIs it support voice and data in secure and nonsecure modes, and data in only the secure mode.

ORDER CODE: GSN STUA15

POINT OF CONTACT: NSA: (800) 328-7883 or (301) 684-7071/7072

TSG NUMBER: None

PRICE: \$2,295

AS OF: July 1993

COMMENTS:

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Multiline adapter

MANUFACTURER: AT&T

MODEL: 105197735 Mod I

TRADE NAME: STU-III multiline adapter

DESCRIPTION & USE: Provides keystrip and ringer to adapt a single-line STU-III telephone set for use with a 1A2-type key telephone system.

ORDER CODE: National stock number 5810012629604

POINT OF CONTACT: Not applicable

TSG NUMBER: None

PRICE: Not available

AS OF: Not applicable

COMMENTS: Must be equipped with Mod I to meet TSG on-hook audio security performance specifications. Unmodified multiline adapters require a disconnect device and/or ringer protection.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Multiline adapter
MANUFACTURER:	GE/RCA
MODEL:	Part number 8689417-501
TRADE NAME:	STU-III multiline adapter
DESCRIPTION & USE:	Provides keystrip and ringer to adapt a single-line STU-III for use with a IA2-type key telephone system.
ORDER CODE:	National stock number 5810012509865 Part number 8689417-501
POINT OF CONTACT:	Not applicable
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Meets TSG on-hook audio security performance specifications.

February 1991

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Secure Telephone Unit (STU-III) Interface

MANUFACTURER: Motorola

MODEL: STU-III/R

TRADE NAME: None

DESCRIPTION & USE: An interface that provides compatibility between a secure telephone unit (STU-III) network and the public switched telephone network. The interface is remotely controlled by the telephones it supports.

ORDER CODE: LDGR1004A

POINT OF CONTACT: NSA: (800) 328-7883 or (301) 684-7071/7071
Motorola, Scottsdale, Arizona: (602) 441-8367

TSG NUMBER: Not applicable

PRICE: \$8,227.00

AS OF: June 1991

COMMENTS:

May 1991

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: STU-III Secure Data Device

MANUFACTURER: AT&T

MODEL: 1900

TRADE NAME: None

DESCRIPTION & USE: The Secure Data Device (SDD) is a data-only STU-III compatible with all STU-III terminals in the data mode at 9.6 KBS.

ORDER CODE: GSN STUA12

POINT OF CONTACT: NSA: (800) 328-7883 or (301) 684-7071/7072

TSG NUMBER: Not applicable

PRICE: \$1,995.00

AS OF: August 1991

COMMENTS:

October 1992

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: STU-III Secure Data Device

MANUFACTURER: AT&T

MODEL: 1910

TRADE NAME: None

DESCRIPTION & USE: The Secure Data Device (SDD) is a data-only STU-III compatible with all STU-III terminals in the data mode at 14.4 KBS.

ORDER CODE: GSN STUA12

POINT OF CONTACT: NSA: (800) 328-7883 or (301) 684-7071/7072

TSG NUMBER: None

PRICE: \$1,995.00

AS OF: November 1992

COMMENTS: Any telephone used with the SDD to coordinate its operation must be TSG approved when used in a sensitive discussion area.

February 1991

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Type-accepted telephone interface

MANUFACTURER: Eagle Telephonics, Long Island, NY

MODEL: STU-III Interface

TRADE NAME: None

DESCRIPTION & USE: The STU-III Interface allows a single-line STU-III terminal to perform all the sophisticated functions of an EAGLE ONE 20-button key telephone while only requiring 3-pair for connection to the KSU (Key Service Unit).

ORDER CODE: 600-162

POINT OF CONTACT: Rick Riccoboni (516) 273-6700

TSG NUMBER: TSG-210091058

PRICE: \$316.25

AS OF: September 1991

COMMENTS:

October 1992

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: STU-III Interface

MANUFACTURER: Motorola, Scottsdale, Arizona

MODEL: STI-377 Module

TRADE NAME: None

DESCRIPTION & USE: The STI-377 Module interfaces a Motorola SECTEL 1500, 2500, or STU-IIIA with a Northern Telecom DMS-100 or SL-100 switch. The Module has 9 user programmable keys which can provide the same features as NTI telephone models 5009S or "P" Phone.

ORDER CODE: 5810-00-U90-3225

POINT OF CONTACT: NSA: (800) 328-7883, (301) 684-7071/7072

TSG NUMBER: None

PRICE: \$450.00

AS OF: November 1992

COMMENTS:

November 1992

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: STU-III Facsimile

MANUFACTURER: Motorola

MODEL: SECTEL MFAX 5000T

TRADE NAME: None

DESCRIPTION & USE: The SECTEL MFAX 5000T is an MFAX 5000T fax unit combined with a Motorola SECTEL 1500 STU-III to provide the world's first phone/fax/data in either secure or clear modes. The SECTEL MFAX 5000T weighs 20 lbs.

ORDER CODE: MFAX 5000T: NSN 5810-01-357-4948
Order Motorola SECTEL 1500 separately.

POINT OF CONTACT: NSA: (800) 328-7883 or (301) 684-7071/7072

TSG NUMBER: None

PRICE: MFAX 5000T: \$3,079
W/SECTEL 1500: \$4,975

AS OF: November 1992

COMMENTS: Connects with all Motorola SECTEL terminals.
Authenticates caller and recipient.
· Send and receive secure or clear faxes.
· Talk while you fax.
· Fax uses thermal paper.
· Clear fax prints in 16 shades of gray.
· Unattended 24 hour fax reception.
· Routes fax to computer for later retrieval.
· Programmable for disabling of clear fax.
· Secure: 9600, 4800, 2400 bps.
· Clear: 9600, 7200, 4800, 2400, 1200 bps.
· Memory dialing for up to 16 sets of numbers.

January 1993

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: STU-III Two Line Adapter

MANUFACTURER: AT&T

MODEL: FWA-1

TRADE NAME: None

DESCRIPTION & USE: The FWA-1 interfaces between two 2-wire or one 2-wire and one 4-wire incoming telephone lines, and a STU-III telephone. It is compatible with a 4-wire Autovon line. Simultaneous operation on two lines is possible, e.g., talking on one line while receiving an incoming call on the second line.

ORDER CODE: NSN 5810-00-U90-3266

POINT-OF-CONTACT: NSA: (800) 328-7883, (301) 684-7071/7072

Paul McQuillan
AT&T Federal Systems,
1600 Pennsylvania Ave. NW,
Washington, DC 20500,
(202) 456-6400
FAX (202) 842-0316

TSG NUMBER: None

PRICE: \$250.00

AS OF: February 1993

COMMENTS: The FWA-1 is approved for use without the need for an external disconnect or isolator.

OTHER TSG-APPROVED TELEPHONES

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	TSG-approved telephone
MANUFACTURER:	AT&T
MODEL:	680A Manufacturer Discontinued
TRADE NAME:	Telephone
DESCRIPTION & USE:	Rotary dial, 18-key CALL DIRECTOR.
ORDER CODE:	Not available
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Ringer protection is required. Formerly manufactured by WECO.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	TSG-approved telephone
MANUFACTURER:	AT&T
MODEL:	2851CM-60
TRADE NAME:	Telephone
DESCRIPTION & USE:	Touchtone, wall-mount, 6-key telephone.
ORDER CODE:	PEC 9400-052
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Ringer protection is required. Formerly manufactured by WECO.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	TSG-approved telephone
MANUFACTURER:	AT&T
MODEL:	3641AMW1A R/B, and 3641AM1A
TRADE NAME:	Telephone
DESCRIPTION & USE:	16-button touchtone dial, 2-wire- or 4-wire-(AUTOVON)-compatible, 30-key CALL DIRECTOR.
ORDER CODE:	PEC 9400-006
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	not applicable
COMMENTS:	Ringer protection is required. Formerly manufactured by WECO.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	TSG-approved telephone
MANUFACTURER:	AT&T
MODEL:	3640AMW1A R/B, and 3640AM1B
TRADE NAME:	Telephone
DESCRIPTION & USE:	16-button touchtone dial, 2-wire- or 4-wire-(AUTOVON)-compatible, 18-key CALL DIRECTOR.
ORDER CODE:	PEC 9400-005
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Ringer protection is required. Formerly manufactured by WECO.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	TSG-approved telephone
MANUFACTURER:	AT&T
MODEL:	2685AM1
TRADE NAME:	Telephone
DESCRIPTION & USE:	Touchtone dial, 30-button CALL DIRECTOR.
ORDER CODE:	PEC 9400-073
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Ringer protection is required. Formerly manufactured by WECO.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	TSG-approved telephone
MANUFACTURER:	AT&T
MODEL:	2684AM1
TRADE NAME:	Telephone
DESCRIPTION & USE:	Touchtone dial, 18-button CALL DIRECTOR.
ORDER CODE:	PEC 9400-072
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Ringer protection is required. Formerly manufactured by WECO.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	TSG-approved telephone
MANUFACTURER:	AT&T
MODEL:	681A Manufacturer discontinued
TRADE NAME:	Telephone
DESCRIPTION & USE:	Rotary dial, 30-button CALL DIRECTOR.
ORDER CODE:	Not available
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Ringer protection is required. Formerly manufactured by WECO.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: TSG-approved telephone

MANUFACTURER: Electrospace Systems, Inc.

MODEL: MLP-2

TRADE NAME: Multi-Line Phone-2

DESCRIPTION & USE: Telephone approved for both red and black applications
(must be wired to supporting telephone switch[es]).

ORDER CODE: Not applicable

POINT OF CONTACT: Richard Fenwick, Jr. (214) 470-2000

TSG NUMBER: None

PRICE: Not available

AS OF: Not applicable

COMMENTS:

TSG-APPROVED DISCONNECT/ISOLATION DEVICES

July 5, 2001

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Telephone line disconnect
MANUFACTURER:	AT&T
MODEL:	270A Manufacturer Discontinued
TRADE NAME:	Automatic disconnect
DESCRIPTION & USE:	Automatically disconnects a 2-wire or 4-wire instrument from the outgoing telephone lines.
ORDER CODE:	Not available
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Formerly manufactured by WEICO.

July 5, 2001

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Telephone line disconnect
MANUFACTURER:	AT&T
MODEL:	270B or 270BW
TRADE NAME:	Automatic disconnect
DESCRIPTION & USE:	Automatically disconnects a 2-wire or 4-wire instrument from the outgoing telephone lines.
ORDER CODE:	PEC 94007
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	\$933.00
AS OF:	January 1990
COMMENTS:	Formerly manufactured by WECO.

July 5, 2001

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Key system telephone line disconnect

MANUFACTURER: SanBar Telecom

MODEL: 4001A

TRADE NAME: SanBar disconnect line card

DESCRIPTION & USE: Automatically disconnects the speech path of a multiline instrument from the outgoing telephone lines.

ORDER CODE: Not applicable

POINT OF CONTACT: Jeff Lobell (818)706-3076, FAX (818)706-2329
Sanbar Telecom, LLC
2899 Agoura Rd, Ste 726
Westlake, CA 91361

TSG NUMBER: None

PRICE: Not available

AS OF: Sep 1996

COMMENTS: Replaces the standard telephone line card in 1A2-type electromechanical key systems.

July 5, 2001

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Line disconnect

MANUFACTURER: SanBar Telecom

MODEL: 4001B, also known as 4001-201

TRADE NAME: None

DESCRIPTION & USE: This line card replaces the standard telephone line card in 1A2-type Key Service Units. It automatically disconnects the speech path of a multiline telephone from the outgoing telephone line.

ORDER CODE: Not applicable

POINT OF CONTACT: Jeff Lobell (818)706-3076, FAX (818)706-2329
Sanbar Telecom, LLC
2899 Agoura Rd, Ste 726
Westlake, CA 91361

TSG NUMBER: Not applicable

PRICE: \$139.00

AS OF: Sep 1996

COMMENTS:

July 5, 2001

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Automatic disconnect/optical isolator
MANUFACTURER:	Mid-Atlantic Electronic Technologies
MODEL:	87030
TRADE NAME:	OPSYS
DESCRIPTION & USE:	Fiber-optic isolation system for use with telephone systems.
ORDER CODE:	Not applicable
POINT OF CONTACT:	Ross Bates (301) 948-3377
TSG NUMBER:	None
PRICE:	Varies depending on configuration.
AS OF:	Not applicable
COMMENTS:	Can be used to provide isolation for fire and intrusion alarms. Compatible with 2-wire or 4-wire voice or data circuits, key system telephones, or RS422 data circuits. Provides isolation between the subscriber's telephone system and destination.

July 5, 2001

May 1992

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Line disconnect

MANUFACTURER: Northern Telecom Inc.

MODEL: UKS-IOS

TRADE NAME: None

DESCRIPTION & USE: This line card replaces the standard telephone line card in 1A2-type Key Service Units. It automatically disconnects the speech path of a multiline telephone from the outgoing telephone line.

ORDER CODE: Stock No. X9955343, NSN 5998 01180 1275

POINT OF CONTACT: Northern Telecom Inc.
105 Laurentien Blvd.
St. Laurent, Quebec, H4N2M3, Canada
Attn: John Gruszynski
(800) 361-5999 Ext 8557

TSG NUMBER: Not applicable

PRICE: About US \$100 depending on quantity

AS OF: May 1992

COMMENTS:

July 5, 2001

January 1991

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Isolator

MANUFACTURER: Novacom Inc., 9401 Mathy Drive, Fairfax, Virginia 22031
(NOVACOM no longer exists)

MODEL: TISD (Telephone Interface Security Device)

TRADE NAME: None

DESCRIPTION & USE: The TISD provides automatic fiber-optic isolation for up to six lines. It includes a self-test feature to detect faulty interface circuit boards. It is compatible with analog, 2-wire loop, ground, or direct inward dial (DID) start for telephone systems worldwide.

ORDER CODE: The TISD System includes the Equipment shelf and P/N 5840 power supply with self test circuitry; P/N 9401 2-wire loop or ground start interface; P/N 9403 loop, ground or DID start interface; Auxiliary panel with 2 mounted 66 blocks; and manual and power cord.

POINT OF CONTACT: None, Novacom terminated as of June 1991

TSG NUMBER: Not Applicable

PRICE: \$21,000.00

AS OF: January 1988

COMMENTS:

July 5, 2001

September 1991

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Isolator

MANUFACTURER: Versitron, Inc.

MODEL: R701

TRADE NAME: None

DESCRIPTION & USE: This system consists of two electrically and physically isolated modules. It includes the R701 telephone line isolator, a 12502 outside exchange card connected by fiber-optic cables to a 12503 inside subscriber card, a G702 (P/N 12504) ring generator, a front cover assembly with fan (P/N 14067), and a power supply. These cards are located in the E990Z enclosure (P/N 13090).

ORDER CODE: Not applicable

POINT OF CONTACT: Versitron, Inc.,
9005-8 Junction Drive,
Annapolis Junction, Maryland 20701
(301) 497-8600

TSG NUMBER: Not applicable

PRICE: Not available

AS OF: Not applicable

COMMENTS: This automatic isolator system has been in use since the 1970's.

July 5, 2001

October 1992

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: CTS with Automatic Optical Isolator

MANUFACTURER: AT&T & Mid-Atlantic Electronic Technologies

MODEL: None

TRADE NAME: Merlin Legend Secure Communications System

DESCRIPTION & USE: The Computerized Telephone Switch (CTS) includes an automatic Optical Isolation System (OIS). It provides out-of-building service, intercom, ring-down, and paging. It is compatible with trunks that are 2-wire loop and 4-wire E&M, and 2-wire drop lines. In order to qualify for TSG approval, the CTS must be installed, controlled, and maintained according to TSG Standard 2. The control of the CTS by cleared US personnel protects the security features of the OIS.

ORDER CODE:

5-card cabinet with power supply:	6139-SFS
Fiber interface and ring generator:	61393
Eight port, 2-wire loop/drop card:	61394
Eight port, 2-or-4-wire card:	61395

POINT OF CONTACT: SALES: AT&T Greg Gilbert, (301) 608-4257
Ed Rainsberger, (301) 608-4235

TSG NUMBER: Not applicable

PRICE: Depends on configuration

AS OF: Not applicable

COMMENTS: The OIS is a newer version of the Mid-Atlantic OPSYS optical isolation system.

July 5, 2001

May 1992

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Line Disconnect

MANUFACTURER: Exbar Associates, Inc

MODEL: 4-007

TRADE NAME: None

DESCRIPTION & USE: This telephone security line card replaces the standard line card in 1A2-type Key Service Units (KSU's). It automatically disconnects the speech path of a telephone from the outgoing telephone line. This card is approved only when the PFC (power failure cut-through) feature is switched OFF.

ORDER CODE: None

POINT OF CONTACT: Roy Schuessler.
Exbar Associates, Inc
17401 Armstrong Ave.
Irving, CA 92714-5723
(714) 474-2234
FAX (714) 261-1169

TSG NUMBER: Not applicable

PRICE: \$170

AS OF: June 1995

COMMENTS:

July 5, 2001

June 1996

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Disconnect

MANUFACTURER: Mid-Atlantic Electronic Technologies

MODEL: OPSYS-MCOV line card

TRADE NAME: None

DESCRIPTION & USE: The line card is an option of the OPSYS optical isolator system, also made by Mid-Atlantic. The cards are plugged in to OPSYS cages, one at each end of the fiber path. Each card supports two Mitel MCOV circuits between a Mitel PBX and a compatible Mitel voice instrument, thus providing an interface and disconnect for a full featured Mitel instrument.

ORDER CODE: OPSYS-MCOV

POINT OF CONTACT: Ross Bates
Mid-Atlantic Electronic Technologies
15800 Gaither Drive Suite 210
Gaithersburg, MD 20877
(301) 208-2677

TSG NUMBER: Not applicable

PRICE: Unknown

AS OF:

COMMENTS: None

RINGER PROTECTION

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Protective ringer
MANUFACTURER:	AT&T
MODEL:	R1A
TRADE NAME:	Not available
DESCRIPTION & USE:	Self-contained, externally mounted, nonresonant ringer assembly.
ORDER CODE:	PEC 94084
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Formerly manufactured by WECO.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Protective ringer
MANUFACTURER:	AT&T
MODEL:	D-180414 kit of parts
TRADE NAME:	R2 ringer isolator
DESCRIPTION & USE:	Kit of electronic parts used to isolate a factory-installed telephone ringer.
ORDER CODE:	PEC 94007
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Formerly manufactured by WECO. May be used in conjunction with some microphonic ringers to create nonmicrophonic ringer assemblies.

**TSG STANDARD 6
TSG-APPROVED EQUIPMENT**

DEVICE TYPE:	Ringer protection
MANUFACTURER:	Several available
MODEL:	Varies with manufacturer
TRADE NAME:	Local ring generator (also called common ringing).
DESCRIPTION & USE:	<p>Telephone system component that regenerates ring signal. The locally generated ring signal is provided to the telephone instead of the ring signal coming directly from the telephone company.</p> <p>A local ring generator provides ringer protection if the telephone system is located within the protected area.</p>
ORDER CODE:	Varies with manufacturer
POINT OF CONTACT:	Varies with manufacturer
TSG NUMBER:	None
PRICE:	Varies with manufacturer and product line
AS OF:	Not applicable
COMMENTS:	May use any American-built local ring generator that may be installed within the same physically controlled space as the telephones to be protected.

TSG-APPROVED HANDSETS

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Push-to-operate handset
MANUFACTURER:	AT&T
MODEL:	G10A
TRADE NAME:	Not available
DESCRIPTION & USE:	Push-to-operate handset installed in lieu of factory handset.
ORDER CODE:	PEC 94269
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Formerly manufactured by WECO.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Push-to-operate handset
MANUFACTURER:	AT&T
MODEL:	G10B
TRADE NAME:	Not available
DESCRIPTION & USE:	Push-to-operate handset installed in lieu of factory handset.
ORDER CODE:	COMCODE 101-320-620 (BLACK)
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Formerly manufactured by WECO.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Push-to-operate handset
MANUFACTURER:	AT&T
MODEL:	G10F
TRADE NAME:	Not available
DESCRIPTION & USE:	Push-to-operate handset installed in lieu of factory handset.
ORDER CODE:	PEC 94003
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Formerly manufactured by WECO.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Push-to-operate handset
MANUFACTURER:	Plantronics
MODEL:	WG10
TRADE NAME:	Not available
DESCRIPTION & USE:	Push-to-operate handset installed in lieu of factory handset.
ORDER CODE:	Not applicable
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Push-to-operate handset

MANUFACTURER: AT&T

MODEL: Type R, with security modification

TRADE NAME: Not available

DESCRIPTION & USE: Push-to-operate handset installed in lieu of factory handset.

ORDER CODE: PEC 94036

POINT OF CONTACT: David Jones (301) 982-2626

TSG NUMBER: None

PRICE: \$150.00

AS OF: 1987

COMMENTS:

TSG-APPROVED TELEPHONE FILTERS

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Filter
MANUFACTURER:	AT&T
MODEL:	KS20161
TRADE NAME:	Not available
DESCRIPTION & USE:	Low-pass, single-wire, radio frequency filter used to prevent signals above 10 kHz from passing via telephone lines.
ORDER CODE:	PEC 94013
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Formerly manufactured by WECO.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Filter
MANUFACTURER:	AT&T
MODEL:	KS20162
TRADE NAME:	Not available
DESCRIPTION & USE:	Low-pass, balanced, 2-wire, radio frequency filter used to prevent signals above 10 kHz from passing via telephone lines.
ORDER CODE:	PEC 94014
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Formerly manufactured by WECO.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Filter cabinet

MANUFACTURER: Filtron Manufacturing Co.
All-Tronics, Inc.
RF Interonics
Cornell Dubilier Electronics
LectroMagnetics, Inc.
Genisco Technology Corp.

MODEL: Various types are available from several manufacturers.

TRADE NAME: Not available

DESCRIPTION & USE: Radio frequency-tight cabinet for mounting filters.

ORDER CODE: Varies with manufacturer and product line.

POINT OF CONTACT:

Filtron Manufacturing Co.	(516) 433-5311
All-Tronics, Inc.	(516) 333-3090
RF Interonics Corp.	(516) 231-6400
Cornell Dubilier Electronics	(213) 829-6701
LectroMagnetics, Inc.	(213) 870-9383
Genisco Technology Corp.	(213) 537-4750

TSG NUMBER: None

PRICE: Varies with manufacturer and product line.

AS OF: Not applicable

COMMENTS: A large variety of sizes and styles of cabinets are available from the various manufacturers listed.

MISCELLANEOUS TSG-APPROVED EQUIPMENT

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Keystrip
MANUFACTURER:	WECO
MODEL:	6050
TRADE NAME:	Not available
DESCRIPTION & USE:	Externally mounted keystrip to provide multiline service in areas with single-line telephones equipped with plug and jack or single-line automatic disconnects.
ORDER CODE:	PEC 94440
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Provides five lines and hold.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE:	Keystrip
MANUFACTURER:	WECO
MODEL:	6051
TRADE NAME:	Not available
DESCRIPTION & USE:	Externally mounted keystrip to provide multiline service in areas with single-line telephones equipped with plug and jack or single-line automatic disconnects.
ORDER CODE:	PEC 94441
POINT OF CONTACT:	Not available
TSG NUMBER:	None
PRICE:	Not available
AS OF:	Not applicable
COMMENTS:	Provides 11 lines and hold.

March 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Manual disconnect

MANUFACTURER: There are many manufacturers and suppliers for telephone plugs and jacks.

MODEL: 225A

TRADE NAME: Plug and jack

DESCRIPTION & USE: Manually disconnects the protected telephone instrument from the outgoing telephone lines.

ORDER CODE: Not applicable

POINT OF CONTACT: Not available

TSG NUMBER: None

PRICE: Varies for different manufacturers and product lines.
Can be as little as \$2 to \$5 per telephone.

AS OF: Not applicable

COMMENTS: Available through a variety of vendors and local telephone stores.

Should be wired with buzzer to alert user when not unplugged and telephone is on-hook.

May 1990

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Intercom

MANUFACTURER: Optelecom, Gaithersburg, Maryland

MODEL: AOM (Analog Optical Micromodem)

TRADE NAME: None

DESCRIPTION & USE: A system that provides either a ring-down circuit for intercom service, or single-line telephone service, using a fiber optic link and battery backup. The system was designed for use in shielded enclosures. It is compatible only with pulse dial telephones.

ORDER CODE: AOM

POINT OF CONTACT: Optelecom, Gaithersburg, Maryland
(301) 840-2121, Fax (301) 948-6357

TSG NUMBER: Not Applicable

PRICE: \$750.00-\$1200.00

AS OF: June 1990

COMMENTS:

February 1993

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Telephone Answering Machine

MANUFACTURER: Radio Shack Duophone

MODEL: TAD-410

TRADE NAME: None

DESCRIPTION & USE: The TAD-410 uses one cassette to hold the user's prerecorded announcement and a second cassette for incoming messages. The TAD-410 does not have a remote message retrieval feature. A duplex adapter is required if the machine is to be used on the same jack as a telephone.

ORDER CODE: Not applicable

POINT OF CONTACT: Radio Shack, USA

TSG NUMBER: Not applicable

PRICE: About \$80.00

AS OF: February 1993

COMMENTS: Telephone Answering Devices (TADs), unlike telephones, automatically answer incoming calls. This characteristic provides a direct path from the TAD to the outside world at the calling party's initiative. For this reason, TADs should be restricted from sensitive discussion areas. If absolutely required, TADs should be connected to the telephone and power lines only in the absence of sensitive discussions.

February 1993

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Telephone Answering Machine

MANUFACTURER: Phonemate, Inc.
20665 Manhattan Place
Torrance, CA

MODEL: 3900

TRADE NAME: None

DESCRIPTION & USE: The 3900 has a remote message retrieval feature. Simultaneous telephone usage is possible without a duplex adapter. It has a toll saver feature, e.g., if messages are recorded, it answers after the second ring; if none are recorded, it answers after the fourth ring.

ORDER CODE: Not applicable

POINT OF CONTACT: Phonemate, Inc., (310) 328-7453/320-9810; Evans; Circuit City

TSG NUMBER: Not applicable

PRICE: About \$40.00

AS OF: February 1993

COMMENTS: Telephone Answering Devices (TADs), unlike telephones, automatically answer incoming calls. This provides a direct path from the TAD to the outside world at the calling party's initiative. TADs with remote message retrieval provide another vulnerability of possible message retrieval by outsiders. Individual messages may be innocuous but sensitive when combined. Additionally, sensitive messages may be left erroneously by callers. The 3900 should be restricted from sensitive discussion areas; but, if absolutely necessary, it should be connected to the telephone and power lines only in the absence of sensitive discussions. TADs are prohibited in sensitive discussion areas administered under TSG Standard 2.

May 1993

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Handset Disconnect

MANUFACTURER: Dynametric, Inc.

MODEL: COM-205R

TRADE NAME: None

DESCRIPTION & USE: The COM-205R is designed for the AT&T Merlin type "R" handset with a rectangular mouthpiece. It consists of a module of gravity switches that connects between the handset and the handset cord. It includes a metal clamp to ensure a snug, secure fit against the handset. It is designed to disconnect the handset elements from the telephone while in the horizontal plane up to 30 degrees. The COM-205R is intended for use as an unattended off-hook device to provide an automatic hold feature.

ORDER CODE: Not applicable

POINT OF CONTACT: DynaMetric
820 Duarte Rd
Monrovia, CA 91016
Attn: R.H. Perley (818) 358-2559
Orders (213) 684-1630

TSG NUMBER: Not applicable

PRICE: 01-09: \$79.95; 10-24: \$71.95;
25-99: \$63.95; 100-200: \$59.95

AS OF: May 1993

COMMENTS: Other than providing a hold feature, the COM-205R also disconnects the handset while the handset is in the cradle. Although this module is TSG-approved, connecting it to an unapproved telephone does not imply that the telephone then becomes approved. Telephones may have other internal components, such as the annunciator, that are microphonic.

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Fiber Optic Transmission Link Interface

MANUFACTURER: Mid-Atlantic Electronic Technologies, Inc.

MODEL: OPSYS ISDN BRI Card

TRADE NAME: Optical Signal Isolation System

DESCRIPTION & USE: **NOT APPROVED FOR ON-HOOK AUDIO ISOLATION**

The ISDN Basic Rate Interface card is housed in the model OPSYS and support a short range fiber-optic transmission link and ISDN telephone.

ORDER CODE: Not applicable

POINT OF CONTACT: Boss Rates
9420 Key West Ave., Suite 104
Rockville, MD 20850
(301) 762-0500

TSG NUMBER: Not applicable

PRICE: Not available

AS OF: Not applicable

COMMENTS: The ISDN BRI card does not meet TSG requirements for on-hook telephone audio isolation. However, it does not introduce any additional audio surveillance hazard into the area in which it is installed. It is TSG-approved for TEMPEST isolation applications.

The model OPSYS will also support an interface card that provides on-hook audio isolation for analog telephones.

May 1993

TSG STANDARD 6
TSG-APPROVED EQUIPMENT

DEVICE TYPE: Voice Privacy Device

MANUFACTURER: AT&T

MODEL: TSD 3600

TRADE NAME: None

DESCRIPTION & USE: The TSD, which is small in size, comes with a 110 VAC to DC power supply, three handset compatibility modules, an interface cord, and instruction manual, and a carrying case. Clear or privacy modes are selected and indicated on a liquid crystal display.

 The TSD is not approved for National Security information, nor does it make a telephone TSG-approved. The TSD is intended for use with TSG approved, non-secure telephones. The TSD, located between the handset and telephone base, provides voice privacy with another telephone equipped with a similar device.

ORDER CODE: Not applicable

POINT OF CONTACT: AT&T, 8403 Colesville Road
Silver Spring, MD 20910-3311

 Ed Rainsberger 301-608-4235
 Greg Gilbert 301-608-4257

TSG NUMBER: Not applicable

PRICE: Not available

AS OF: Not applicable

COMMENTS: The TSD typically delays voice by one or two syllables.